CLI Reference Guide for AsyncOS 16.0.2 for Cisco Secure Email Gateway - MD (Maintenance Deployment)

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CONTENTS

PREFACE

Preface xxxv

Before you Read this Book xxxv

Typographic Conventions xxxv

Additional Resources xxxvi

CHAPTER 1

CLI Quick Reference Guide 1

CLI Commands (No Commit Required) 1

CLI Commands (Commit Required) 7

CHAPTER 2

Command Line Interface: The Basics 13

Accessing the Command Line Interface (CLI) 13

Factory Default Username and Passphrase 13

Command Line Interface Conventions 14

Command Prompt 14

Command Syntax 15

Select Lists 15

Yes/No Queries 15

Subcommands 15

Escape 16

History 16

Command Completion 16

Configuration Changes 16

General Purpose CLI Commands 17

Committing Configuration Changes 17

Clearing Configuration Changes 18

Quitting the Command Line Interface Session 18

Seeking Help on the Command Line Interface 18
Batch Commands 18
Batch Command Example 19

CHAPTER 3 The Commands: Reference Examples 21
How to Read the Listing 22
Advanced Malware Protection 22
ampconfig 22
Usage 22
Examples 23
Enabling File Reputation and File Analysis 23
Selecting File Types for File Analysis 23
Configure Email Gateway to Use Public Cloud File Reputation and File Analysis Server 25
(Public Cloud File Analysis Services Only) Configuring Appliance Groups 26
Configure Email Gateway to Use an On-Premises File Analysis Server 27
Configure Email Gateway to Use an On-Premises File Reputation Server 28
Clearing Local File Reputation Cache 30
Configuring Cache Expiry Period for File Reputation disposition values 30
Suppressing File Retrospective Verdict Alerts 31
Configuring Cisco AMP Threat Grid Clustering for File Analysis 32
Configuring Proxy Server Settings for File Analysis 33
ampstatus 34
Description 34
Usage 34
Example 34
Spam and Graymail Management 35
antispamconfig 35
Description 35
Usage 35
Example 35
antispamstatus 36
Description 36
Usage 36
Example 36

antispamupdate 36
Description 36
Usage 36
Example 37
imsandgraymailconfig 37
Description 37
Usage 37
Example 37
graymailstatus 39
Description 39
Usage 39
Example 39
graymailupdate 39
Description 39
Usage 39
Example 39
incomingrelayconfig 39
Description 39
Usage 40
Example: Enabling Incoming Relays - Configuring an Incoming Relay 40
slblconfig 41
Description 41
Usage 42
Batch Format - Import 42
Batch Format 42
Batch Format - Export 42
Example - Importing Safelist/Blocklist Entries 42
Anti-Virus 43
antivirusconfig 43
Description 43
Usage 43
Example 43
Example: Enabling StrongPDF on Sophos Anti-Virus Engine 44
Example: Disabling StrongPDF on Sophos Anti-Virus Engine 45

Viewing Anti-Virus IDE Details 45
antivirusstatus 46
Description 46
Usage 46
Example 46
antivirusupdate 47
Description 47
Usage 47
Example 47
Command Line Management 47
commit 47
Description 47
Usage 47
Example 47
commitdetail 48
Description 48
Usage 48
Example 48
clearchanges or clear 48
Description 48
Usage 48
Example 48
help or h or ? 48
Description 48
Usage 49
Example 49
rollbackconfig 49
Usage 49
Example 49
quit or q or exit 49
Description 49
Usage 49
Example 50
Configuration File Management 50

loadconfig 50
Description 50
Usage 50
Example 50
mailconfig 51
Description 51
Usage 51
Example 51
resetconfig 52
Description 52
Usage 52
Example 52
saveconfig 53
Description 53
Usage 53
Example 53
showconfig 53
Description 53
Usage 54
Example 54
Configuring Email Gateway to Consume External Threat Feeds 54
threatfeedconfig 55
Description 55
Usage 55
Example - Enabling the External Threat Feeds Engine 55
Example - Adding an External Threat Feed Source 56
Example - Adding a XDR Feeds Source 57
threatfeedstatus 58
Description 58
Usage 59
Example - Viewing Current Version of External Threat Feeds Engine 59
threatfeedupdate 59
Description 59
Usage 59

Example - Manually Updating External Threat Feeds Engine 59
Cluster Management 59
clusterconfig 60
Description 60
Usage 61
Example 61
Data Loss Prevention 61
dlpstatus 61
Usage 62
Example 62
dlpupdate 62
Description 62
Usage 62
Batch Format 62
Example 62
Domain Exception List 63
domainrepconfig 63
Description 63
Usage 63
Example 63
S/MIME Security Services 64
smimeconfig 64
Description 64
Usage 64
Examples 64
Domain Keys 66
domainkeysconfig 66
Description 66
Usage 66
Batch Format - Signing Profiles 66
Batch Format - Verification Profiles 69
Batch Format - Signing Keys 70
Batch Format - Search for a Key or Profile 72
Batch Format - Global Settings 72

Example: Configuring Domain Keys via the CLI 72
Creating a Sample Domain Keys DNS TXT Record 75
DMARC Verification 76
dmarcconfig 76
Description 76
Usage 76
Batch Format - DMARC Verification Profiles 76
Example 78
DNS 80
dig 81
Description 81
Usage 81
Batch Format 81
Example 82
Example: Verifying TLSA Record of the DNS Server Supporting DNSSEC 82
dnsconfig 83
Description 83
Usage 83
Batch Format 83
Example 85
dnsflush 87
Description 87
Usage 87
Example 87
dnshostprefs 87
Description 87
Usage 87
Example 87
dnslistconfig 88
Description 88
Usage 88
Example 88
dnslisttest 89
Description 89

Usage 89
Example 89
dnsstatus 89
Description 89
Usage 89
Example 89
Enhanced User Experience using How-Tos Widget 90
howtoupdate 90
Description 90
Usage 90
Example 90
howtostatus 90
Description 90
Usage 90
Example 90
General Management/Administration/Troubleshooting 91
addressconfig 91
Description 91
Usage 91
Example 91
adminaccessconfig 92
Description 92
Usage 92
Batch Format 92
Example - Configuring Network Access List 94
Example - Configuring Login Banner 96
Example - Configuring Web Interface and CLI Session Timeout 97
certconfig 97
Description 97
Usage 97
Example - Pasting in a certificate 98
Example - Creating a Self-signed Certificate 99
Example - Create a Self-signed S/MIME Signing Certificate 100
date 102

Description 102
Usage 102
Example 102
daneverify 102
Description 102
Usage 102
Example 102
diagnostic 103
Description 103
Using the diagnostic Command 103
Usage 104
Batch Format 104
Example: Displaying and Clearing Caches 105
Example: Verify Connectivity to Another Mail Server 106
Example: Reset Email Gateway Configuration to the Initial Manufacturer Values 106
Restarting and Viewing Status of Service Engines 107
diskquotaconfig 107
Usage 107
Batch Format 107
Example 108
ecconfig 108
Usage 108
Batch Format 109
Example 109
ecstatus 109
Usage 109
Example 109
ecupdate 109
Usage 110
Batch Format 110
Example 110
encryptionconfig 110
Usage 110
Example 110

encryptionstatus 113
Description 113
Usage 113
Example 113
encryptionupdate 113
Description 113
Usage 113
Example 114
enginestatus 114
Description 114
Usage 114
Example 114
featurekey 115
Description 115
Usage 115
Example 115
fipsconfig 115
Description 115
Usage 116
Example: Checking FIPS Mode Compliance 116
Example: Enabling FIPS Mode 116
Example: Enabling FIPS Mode in Clusters 117
Example: Disabling FIPS Mode in Clusters 118
Example: Encrypting Sensitive Data in a FIPS Compliant Appliance 119
Example: Minimizing FIPS Restriction on SMTP in FIPS Mode 119
generalconfig 119
Description 119
Usage 119
Example - Configure Internet Explorer Compatibility Mode Override 120
healthcheck 120
Description 120
Usage 120
Example 120
healthconfig 120

Description 120
Usage 121
Example 121
help vlninfo 122
Description 122
Usage 122
Example 122
ntpconfig 122
Description 122
Usage 122
Example 122
portalregistrationconfig 123
Usage 124
Example 124
reboot 124
Description 124
Usage 124
Example 124
resume 124
Description 124
Usage 124
Example 125
resumedel 125
Description 125
Usage 125
Example 125
resumelistener 125
Description 125
Usage 125
Example 125
revert 126
Description 126
Usage 126
Example 126

samlconfig 126
Description 127
Usage 127
Example – Configure New SAML Profile 127
Example – Modifying SAML Profile 129
settime 130
Description 130
Usage 130
Example 130
settz 130
Description 130
Usage 130
Example 131
shutdown 131
Description 131
Usage 131
Example 131
smaconfig 132
Description 132
Usage 132
Example 132
sshconfig 133
Description 133
Usage 133
Examples 133
status 136
Description 136
Usage 136
Example 136
supportrequest 137
Description 137
Usage 137
Example 138
supportrequeststatus 139

Description 139
Usage 139
Example 139
supportrequestupdate 139
Description 139
Usage 139
Example 140
suspend 140
Description 140
Usage 140
Example 140
suspenddel 140
Description 140
Usage 140
Example 140
suspendlistener 141
Description 141
Usage 141
Example 141
tcpservices 141
Description 141
Usage 141
Example 141
techsupport 142
Description 142
Usage 142
Example 142
tlsverify 143
Description 143
Usage 143
Batch Format 143
Example 143
trace 144
Description 144

Usage 144
Example 144
trackingconfig 145
Description 145
Usage 145
Example 146
tzupdate 146
Description 146
Usage 146
Batch Format 146
Example 146
updateconfig 146
Description 146
Usage 146
Examples 147
updatenow 154
Description 154
Usage 155
Batch Format 155
Example 155
version 155
Description 155
Usage 155
Example 155
vlninfo 156
Description 156
Usage 156
Example 156
wipedata 156
Description 156
Usage 157
Example 157
upgrade 158
Description 158

Usage 158
Example 158
Content Scanning 158
contentscannerstatus 158
Usage 158
Example 158
contentscannerudpate 159
Usage 159
Example 159
LDAP 159
ldapconfig 159
Description 159
Usage 159
Example - Creating a New LDAP Server Profile 159
Example - Configuring Global Settings 163
ldapflush 163
Description 163
Usage 163
Example 163
ldaptest 164
Description 164
Usage 164
Example 164
sievechar 164
Description 164
Usage 165
Example 165
Mail Delivery Configuration/Monitoring 165
addresslistconfig 165
Description 165
Usage 165
Batch Format 165
Example 166
aliasconfig 167

Description 167
Usage 167
Batch Format 167
Example 168
archivemessage 169
Description 169
Usage 169
Example 169
altsrchost 170
Description 170
Usage 170
Example 170
bounceconfig 171
Description 171
Usage 171
Example 171
Applying a Bounce Profile to a Listener 172
bouncerecipients 174
Description 174
Usage 174
Example 174
bvconfig 175
Description 175
Usage 175
Example 175
deleterecipients 176
Description 176
Usage 176
Example 176
Delete All 177
deliveryconfig 177
Description 177
Usage 177
Example 178

delivernow 178
Description 178
Usage 178
Example 178
destconfig 178
Using the destconfig Command 179
Sample Destination Control Table 179
Batch Format 180
Example: Creating a new destconfig Entry 181
Example: Bounce Profile and TLS Settings 183
Example: Inbound “Shock Absorber” 184
Example: Global Settings 185
Example: Enabling TLS Connection with DANE and MTA-STS Support 186
hostrate 187
Description 187
Usage 187
Example 187
hoststatus 188
Description 188
Usage 188
Example 188
imageanalysisconfig 189
Description 189
Usage 189
Example 189
oldmessage 190
Description 190
Usage 190
Example 190
rate 190
Description 190
Usage 190
Example 190
redirectrecipients 191

Description 191
Usage 191
Batch Format 191
Example 191
resetcounters 192
Description 192
Usage 192
Example 192
removemessage 192
Description 192
Usage 192
Example 192
showmessage 193
Description 193
Usage 193
Example 193
showrecipients 193
Description 193
Usage 193
Batch Format 193
Example 194
status 194
Usage 194
Example 195
tophosts 195
Description 195
Usage 195
Example 196
topin 196
Description 196
Usage 196
Example 196
unsubscribe 197
Description 197

Usage 197
Example 197
workqueue 198
Description 198
Usage 198
Example 198
Networking Configuration / Network Tools 198
etherconfig 199
Description 199
Usage 199
Example 199
interfaceconfig 200
Description 200
Usage 200
Batch Format 200
Example: Configuring an Interface 201
nslookup 202
Description 202
Usage 203
Example 203
netstat 203
Description 203
Usage 203
Example 204
packetcapture 204
Description 204
Usage 204
Example 204
ping 205
Description 205
Usage 205
Example 206
ping6 206
Description 206

Usage 206
Example 207
routeconfig 207
Description 207
Usage 207
Batch Format 207
Example 208
setgateway 209
Description 209
Usage 209
Example 209
sethostname 210
Description 210
Usage 210
Example 210
smtproutes 210
Description 210
Usage 210
Batch Format 210
Example 211
sslconfig 212
Description 212
Usage 212
Example 212
telnet 221
Description 221
Usage 221
Example 221
traceroute 222
Description 222
Usage 222
Example 222
traceroute6 222
Description 222

Usage 222
Example 223
trailblazerconfig 223
Description 223
Usage 224
Example 224
Outbreak Filters 224
outbreakconfig 225
Description 225
Usage 225
Example 225
outbreakflush 225
Description 225
Usage 225
Example 226
outbreakstatus 226
Description 226
Usage 226
Example 226
outbreakupdate 227
Description 227
Usage 227
Example 227
Policy Enforcement 227
dictionaryconfig 227
Description 227
Usage 227
Example 227
Example - Configuring Maximum Number of Content Dictionaries in Email Gateway 231
exceptionconfig 232
Description 232
Usage 232
Example 232
filters 233

Description 233
Usage 233
Example 233
policyconfig 234
Description 234
Usage 234
Examples 235
quarantineconfig 268
Description 268
Usage 268
Example 268
Users and Quarantines 269
scanconfig 269
Description 269
Usage 270
Example 270
Example: Configuring Message Handling Actions for Unscannable Messages 271
stripheaders 273
Description 273
Usage 273
Example 273
textconfig 273
Description 273
Usage 273
Example 274
Importing Text Resources 275
Exporting Text Resources 275
Logging and Alerts 276
alertconfig 276
Description 276
Usage 276
Example: Creating a New Alert 276
Example: Sending Alerts over TLS 277
displayalerts 279

Description 279
Usage 279
Example 279
findevent 279
Description 279
Usage 280
Example: Search by envelope FROM 280
Example: Search by Message ID 280
Example: Search by Subject 280
Example: Search by envelope TO 281
grep 281
Description 281
Usage 281
Example of grep 282
logconfig 283
Description 283
Usage 283
Example of FTP Push Log Subscription 283
Example of SCP Push Log Subscription 285
Example of Syslog Push Log Subscription 287
Example: Adding a Custom Log Header to Consolidated Event Logs 289
Example: Deleting Log Files 290
rollovernow 292
Description 292
Usage 292
Example 292
snmpconfig 293
Description 293
Usage 293
Example 293
tail 295
Description 295
Usage 295
Example 295

Reporting 296
reportingconfig 296
Using the reportingconfig command 296
Usage 297
Example: Enabling Reporting Filters (M-Series only) 297
Enabling HAT REJECT Information for Domain Reports (M-Series only) 297
Enabling Timeout Alerts (M-Series only) 297
Enabling Centralized Reporting for an Email Gateway 298
Configure Storage Limit for Reporting Data (C-Series only) 298
Improving Phishing Detection using Service Logs 299
servicelogsconfig 299
Description 299
Usage 299
Example - Enabling Service Logs on Email Gateway 299
Example - Disabling Service Logs on Email Gateway 300
Sender Domain Reputation Filtering 300
sdrconfig 300
Description 300
Usage 301
Example 301
Example – Blocking Messages based on SDR Verdicts at SMTP Conversation Level 301
sdradvancedconfig 302
Description 302
Usage 302
Example 303
sdrdiagnostics 303
Description 303
Usage 303
Example 303
Mailbox Auto Remediation 303
marstatus 304
Description 304
Usage 304
Example 304

marupdate 304
Description 304
Usage 304
Example 304
Smart Software Licensing 305
license_smart 305
Description 306
Usage 306
Example: Configuring Port for Smart Agent Service 306
Example: Enabling Smart Licensing 306
Example: Registering the Email Gateway with the Smart Software Manager 307
Example: Status of Smart Licensing 307
Example: Status Summary of Smart Licensing 307
Example: Setting the Smart Transport URL 307
Example: Requesting Licenses 308
Example: Releasing Licenses 308
Example - Enabling Smart Software Licensing for all Machines in Cluster 309
Example - Registering all Machines in Cluster with Cisco Smart Software Manager 309
Example - Enabling and Registering License Reservation 310
Example - Updating License Reservation 311
Example - Removing License Reservation 312
Example - Disabling License Reservation 313
Example - Enabling License Reservation in Cluster Mode 313
Example - Disabling License Reservation in Cluster Mode 314
Example - Enabling Device Led Conversion Process Manually 314
Example - Switching to Relay Mode 315
showlicense_smart 315
Description 315
Example: Status of Smart Licensing 315
Example: Status Summary of Smart Licensing 316
smartaccountinfo 316
Description 316
Usage 316
Example: Viewing Smart Account Details 316

SMTP Services Configuration 317
callaheadconfig 317
Description 317
Usage 317
Example 317
Example – Enabling TLS Support for SMTP Call-ahead Recipient Validation 318
listenerconfig 320
Description 320
Usage 321
Batch Format - General listenerconfig 321
Batch Format - HAT 322
Batch Format - RAT 326
Example - Adding a listener 327
Example - Adding a Sender's Country of Origin to a Sender Group 328
Example - Customizing the Host Access Table (HAT) for a listener via Export and Import 332
Example - Enabling Public Key Harvesting and S/MIME Decryption and Verification 338
Example - Advanced HAT Parameters 341
Adding bypass_ca Argument to listenerconfig 342
Example - Configuring SPF and SIDF 343
Example: SPF/SIDF Settings 345
Example: SPF/SIDF in Default Policy Parameters 346
Example - Enable DMARC Verification 346
localeconfig 349
Description 349
Usage 349
Example 350
smtpauthconfig 351
Description 351
Usage 351
Example 351
System Setup 352
systemsetup 352
Description 352
Usage 352

Example 352
URL Filtering 355
aggregatorconfig 355
Description 355
Usage 355
Example 355
retroscannerstatus 356
Description 356
Usage 356
Example 356
retroscannerupdate 356
Description 356
Usage 356
Example 356
urlretroservice 356
Description 357
Usage 357
Example - Enabling URL Retrospective Service 357
Example - Viewing URL Retrospective Service Status 357
Example - Modifying URL Retrospective Service 358
Example - Disabling URL Retrospective Service 358
urllistconfig 359
Description 359
Usage 359
Example 359
websecurityadvancedconfig 360
Description 360
Usage 360
Batch Format 360
Example 360
websecurityconfig 361
Description 361
Usage 361
Example 361

websecuritydiagnostics 362
Description 362
Usage 362
Example 362
User Management 362
userconfig 362
Description 362
Usage 362
Example - Creating a New User Account 363
Example - Setting Up a RADIUS Server for External Authentication 364
Example - Enabling Two-Factor Authentication for Specific User Role 365
Example – Enabling SAML Authentication 367
Example – Creating New Custom Role for AMP Configuration 368
passphrase or passwd 369
Description 369
Usage 369
Example 370
last 370
Description 370
Usage 370
Example 370
who 370
Description 370
Usage 370
Example 371
whoami 371
Description 371
Usage 371
Example 371
Virtual Email Gateway Management 371
loadlicense 371
Description 371
Usage 372
Example 372

showlicense 372
Description 372
Usage 373
Batch Format 373
Example 373
Geolocation 373
geolocationupdate 373
Description 373
Usage 373
Example 373
geolocationstatus 374
Description 374
Usage 374
Example 374
Configuring Cisco Cloud Service Portal Settings and Usage 374
cloudserviceconfig 374
Description 375
Usage 375
Example - Enabling Cisco Cloud Services on Email Gateway 375
Example - Disabling Cisco Cloud Services on Email Gateway 376
Example - Registering Email Gateway with Cisco Cloud Services Portal 376
Example - Automatically Registering Email Gateway with Cisco Cloud Services Portal 377
Example - Deregistering Email Gateway from Cisco Cloud Services Portal 378
Example - Reregistering Email Gateway with Cisco Cloud Services Portal 378
Example - Choosing Cisco Secure Cloud Server to connect Email Gateway to Cisco Cloud Services Portal 379
Example - Enabling Cisco XDR on Email Gateway 379
Example - Disabling Cisco XDR on Email Gateway 380
Example - Enabling CSN on Email Gateway 381
Example - Disabling CSN on Email Gateway 381
Example - Downloading Cisco Cloud Services Certificate and Key from Cisco Talos Intelligence Services Portal 382
Configuring Safe Print Settings on Email Gateway 382
safeprint 383

Description 383
Usage 383
Example 383
Connecting the Email Gateway to Talos Cloud Services 384
talosupdate 384
Description 384
Usage 384
Example 384
talosstatus 384
Description 384
Usage 384
Example 385
Integrating the Email Gateway with Cisco Advanced Phishing Protection 385
eaasconfig 385
Description 385
Usage 385
Example - Registering the Email Gateway 386
eaasupdate 386
Description 386
Usage 386
Example 386
eaasstatus 386
Description 387
Usage 387
Example 387
Scanning Password-protected Attachments in Messages 387
protectedattachmentconfig 387
Description 388
Usage 388
Example - Enable Scanning of Password-protected Attachments in Incoming and Outgoing Messages 388
Example - Creating User-defined Passphrases to Open Password-protected Attachments 389
Example - Using Only User-defined Passphrases to Open Password-protected Attachments 391
Example - Switching Priority of User-defined Passphrases 392

Example - Editing a User-defined Passphrase 394
Example - Deleting a User-defined Passphrase 396
Configuring OpenID Connect 1.0 on Email Gateway for AsyncOS APIs 397
oidcconfig 397
Description 398
Usage 398
Example - Configuring OpenID Connect for AsyncOS APIs. 398
Example - Deleting OpenID Connect Configuration Settings on Email Gateway 399
Integrating Email Gateway with Cisco Secure Awareness Cloud Service 399
csaconfig 400
Description 400
Usage 400
Example - Enabling Cisco Secure Awareness Cloud Service on Email Gateway 400
Example - Viewing Details of Repeat Clickers List 401
Example – Updating the Repeat Clickers List 401
csastatus 401
Description 401
Usage 401
Example - Displaying Current Version of Cisco Secure Awareness Components 402
csaupdate 402
Description 402
Usage 402
Example - Manually Updating Cisco Secure Awareness Components 402
Integrating Email Cloud Gateway with Cisco Secure Email Threat Defense 402
threatdefenseconfig 402
Description 403
Usage 403
Example - Enabling Threat Defense Connector 403
Example - Disabling Threat Defense Connector 405
Creating a File Hash List 407
filehashlistconfig 407
Description 407
Usage 407
Example - Creating a File Hash List 407

Synchronizing Configuration Changes between Machines in Different Clusters Simultaneously 408
interclusterconfig 409
Description 409
Usage 410
Example – Establishing Connection between Primary Leader Machine in Current Cluster and Primary Leader Machine in Remote Cluster 410
Example – Displaying List of Primary and Backup Leader Machines in Current and Remote Clusters 411
Example – Viewing Connection Status between Primary Leader Machine in Current Cluster and Primary Leader Machine in Remote Cluster 411
Example – Assigning Another Machine as New Backup Leader Machine in Same Cluster 412
Example – Removing Connection between Primary Leader Machines in Current and Remote Clusters 413
Appendix - Modifying Existing Primary Leader Machine in Cluster 413

Preface

The instructions in this book are designed for an experienced system administrator with knowledge of networking and email administration.

This chapter contains the following sections:

- Before you Read this Book, on page xxxv
- Typographic Conventions, on page xxxv
- Additional Resources, on page xxxvi

Before you Read this Book

Note If you have already cabled your email gateway to your network, ensure that the default IP address for the email gateway does not conflict with other IP addresses on your network. The IP address assigned to the Management port by the factory is 192.168.42.42 . See the "Setup and Installation" chapter in the user guide for your release for more information about assigning IP addresses to the email gateway.

Typographic Conventions

The following table shows the typographic conventions:

Typeface or Symbol	Meaning	Examples
AaBbCc123	The names of commands, files, and directories; on-screen computer output.	`Please choose an IP interface for this Listener.` The **`sethostname`** command sets the name of the email gateway.

Typeface or Symbol	Meaning	Examples

AaBbCc123	What you type, when contrasted with on-screen computer output.	`mail3.example.com> commit`
		`Please enter some comments describing your`
		`changes:`
		`[]> Changed the system hostname`

AaBbCc123	Book titles, new words or terms, words to be emphasized. Command line variable; replace with a real name or value.	Read the *QuickStart Guide* .
		The email gateway *must* be able to uniquely select an interface to send an outgoing packet.
		`Before you begin, please reset your passphrase to a`
		`new value.`
		`Old passphrase: ironport`
		`New passphrase: your_new_passphrase`
		Retype new passphrase:
		your_new_passphrase

Additional Resources

Documentation

Documentation for your Cisco Secure Email Gateway is available from:

http://www.cisco.com/c/en/us/support/security/email-security-appliance/tsd-products-support-series-home.html

Knowledge Base

To access the Knowledge Base for information about Cisco Content Security products, visit:

http://www.cisco.com/web/ironport/knowledgebase.html

You need a Cisco.com User ID to access the site. If you do not have a Cisco.com User ID, see *Registering for a Cisco Account*.

Cisco Support Community

Cisco Support Community is an online forum for Cisco customers, partners, and employees. It provides a place to discuss general content security issues, as well as technical information about specific Cisco products. You can post topics to the forum to ask questions and share information with other users.

Access the Cisco Support Community for Cisco Secure Email Gateway at:

https://supportforums.cisco.com/community/netpro/security/email

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U.S.: Call 1 (408) 526-7209 or Toll-free 1 (800) 553-2447

International: http://www.cisco.com/en/US/support/tsd_cisco_worldwide_contacts.html

Support Site: http://www.cisco.com/en/US/products/ps11169/serv_group_home.html

If you purchased support through a reseller or another supplier, please contact that supplier directly with your product support issues.

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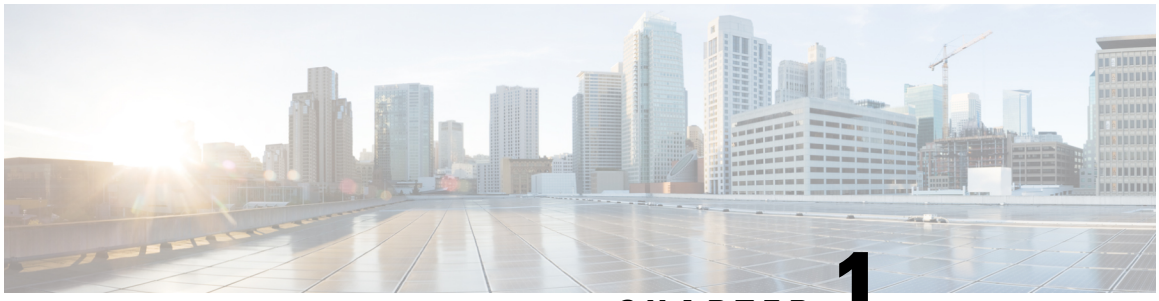
Preface



CHAPTER 1

CLI Quick Reference Guide

This chapter contains the following sections:

Use the tables to locate the appropriate CLI command, a brief description and its availability on the C- and M- series platforms.

- CLI Commands (No Commit Required), on page 1
- CLI Commands (Commit Required), on page 7

CLI Commands (No Commit Required)

CLI Command	Description	Platform Availability
ampstatus, on page 34	Display the version of various file reputation and analysis components.	C- Series
antispamstatus, on page 36	Display Anti-Spam status	C- Series
antispamupdate, on page 36	Manually update spam definitions	C- Series
antivirusstatus, on page 46	Display anti-virus status	C- Series
antivirusupdate, on page 47	Manually update virus definitions	C- Series
archivemessage, on page 169	Archives older messages in your queue.	C- Series
bouncerecipients, on page 174	Bounce messages from the queue	C- and M-Series
talosupdate, on page 384	Request for an update of all Talos engine	C- Series
talosstatus, on page 384	Display the current version of Talos Intelligence Services module	C- Series

CLI Command	Description	Platform Availability
clearchanges or clear, on page 48	Clear changes	C- and M-Series
commit, on page 47	Commit changes	C- and M-Series
commitdetail, on page 48	Display detailed information about the last commit	C- Series
contentscannerstatus, on page 158	Display content scanner version information.	C- Series
contentscannerudpate, on page 159	Request manual update of content scanner engine.	C- Series
date, on page 102	Display the current date and time	C- and M- Series
daneverify, on page 102	Checks whether DANE is supported for a specified domain.	C- Series
deleterecipients, on page 176	Delete messages from the queue	C- and M-Series
delivernow, on page 178	Reschedule messages for immediate delivery	C- and M-Series
diagnostic, on page 103	Check RAID disks, network caches, and SMTP connections. Clear network caches.	C- and M-Series
dig, on page 81	Look up a record on a DNS server	C- Series
displayalerts, on page 279	Display the last n alerts sent by the email gateway	C- and M-Series
dlpstatus, on page 61	Version information for DLP Engine	C- Series
dlpupdate, on page 62	Update DLP Engine	C- Series
dnsflush, on page 87	Clear all entries from the DNS cache	C-and M-Series
dnslisttest, on page 89	Test a DNS lookup for a DNS-based list service	C- Series
dnsstatus, on page 89	Display DNS statistics	C- and M-Series
domainrepconfig, on page 63	Create a Domain Exception List	C-Series
ecstatus , on page 109	Check the version of the enrollment client that is used to obtain certificates	C-Series
ecupdate , on page 109	Update the enrollment client that is used to obtain certificates	C-Series

CLI Command	Description	Platform Availability
encryptionstatus, on page 113	Shows the version of the PXE Engine and Domain Mappings file	C-Series
encryptionupdate, on page 113	Requests an update to the PXE Engine	C-Series
enginestatus, on page 114	Displays the status and CPU usage of all engines enabled on the email gateway.	C--Series
featurekey, on page 115	Administer system feature keys	C- and M-Series
findevent, on page 279	Find events in mail log files	C- and M-Series
fipsconfig, on page 115	Configure FIPS settings	C- and M-Series
geolocationupdate, on page 373	Manually update the geolocation list.	C- Series
geolocationstatus, on page 374	Display the current version of the geolocation list.	C-Series
howtoupdate, on page 90	Manually update the How-Tos component	C-Series
howtostatus, on page 90	Display the current version of the How-Tos component	C-Series
graymailstatus, on page 39	Display the details of existing graymail rules	C-Series
graymailupdate, on page 39	Manually update graymail rules	C-Series
grep, on page 281	Search for text in a log file	C- and M-Series
healthcheck, on page 120	Checks the health of your email gateway.	C-Series
help or h or ?, on page 48	Help	C- and M-Series
help vlninfo, on page 122	Help support for `vlninfo` command	C- and M-Series
hostrate, on page 187	Monitor activity for a particular host	C- and M-Series
hoststatus, on page 188	Get the status of the given hostname	C-and M-Series
interclusterconfig, on page 409	Perform various tasks associated with the synchronization of configuration changes between machines in different clusters simultaneously	C-Series
last, on page 370	Display who has recently logged into the system	C- and M-Series

CLI Command	Description	Platform Availability
ldapflush, on page 163	Flush any cached LDAP results	C- Series
ldaptest, on page 164	Perform a single LDAP query test	C- Series
loadlicense, on page 371	Load a virtual email gateway license	All virtual email gateways
mailconfig, on page 51	Mail the current configuration to an email address	C- and M-Series
marstatus, on page 304	Display the current version of the MAR component.	C- Series
marupdate, on page 304	Manually update the MAR component.	C- Series
nslookup, on page 202	Query a name server	C- and M-Series
netstat, on page 203	Display network connections, routing tables, and network interface statistics.	C- and M-Series
outbreakflush, on page 225	Clear the cached Outbreak Rules	C- Series
outbreakstatus, on page 226	Display current Outbreak Rules	C- Series
outbreakupdate, on page 227	Update Outbreak Filters rules	C- Series
oldmessage, on page 190	displays a list of old messages in the queue.	C- Series
packetcapture, on page 204	Intercept and display packets being transmitted or received over the network	C- M-Series
passphrase or passwd, on page 369	Change your passphrase	C- and M-Series
ping, on page 205	Ping a network host	C-and M-Series
ping6, on page 206	Ping a network host using IPV6	C- and M-Series
quit or q or exit, on page 49	Quit	C- and M-Series
rate, on page 190	Monitor message throughput	C- and M-Series
reboot, on page 124	Restart the system	C- and M-Series
redirectrecipients, on page 191	Redirect all messages to another relay host	C- Series
removemessage, on page 192	Removes old, undelivered messages from your queue.	C- Series
resetconfig , on page 52	Restore the factory configuration defaults	C-and M-Series

CLI Command	Description	Platform Availability
resetcounters, on page 192	Reset all of the counters in the system	C-and M-Series
resume, on page 124	Resume receiving and deliveries	C- and M-Series
resumedel, on page 125	Resume deliveries	C-and M-Series
resumelistener, on page 125	Resume receiving	C-and M-Series
revert, on page 126	Revert to a previous release	C- and M-Series
rollovernow, on page 292	Roll over a log file	C- and M-Series
saveconfig, on page 53	Saves the configuration to disk	C- and M-Series
sdrdiagnostics, on page 303	Checks if your Cisco Email Security Gateway is connected to the SDR service	C- Series
settime, on page 130	Manually set the system clock	C- and M-Series
showmessage, on page 193	Displays old undelivered messages in your queue.	C- Series
showconfig, on page 53	Display all configuration values	C- and M-Series
showlicense , on page 372	Display virtual email gateway license information	All virtual email gateways
showlicense_smart, on page 315	Shows Smart Licensing status and summary of status.	C-and M-Series
showrecipients, on page 193	Show messages from the queue by recipient host, Envelope From address, or all messages	C- Series
shutdown, on page 131	Shut down the system to power off	C-and M-Series
slblconfig, on page 41	Configure Safelist/Blocklist settings	C-Series
status, on page 136	System status	C- M-Series
supportrequest, on page 137	Send a message to Cisco TAC	C- and M-Series
supportrequeststatus, on page 139	Display Support Request Keywords version information	C- and M-Series
supportrequestupdate, on page 139	Request manual update for Support Request Keywords	C-and M-Series
suspend, on page 140	Suspend receiving and deliveries	C- and M-Series
suspenddel, on page 140	Suspend deliveries	C- and M-Series

CLI Command	Description	Platform Availability
suspendlistener, on page 141	Suspend receiving	C-and M-Series
systemsetup, on page 352	First time system setup	C- Series
tail, on page 295	Continuously display the end of a log file	C- and M-Series
techsupport, on page 142	Allow Cisco TAC to access your system	C- and M-Series
telnet, on page 221	Connect to a remote host	C- and M-Series
threatfeedstatus, on page 58	Display the current version of the ETF engine	C- Series
threatfeedupdate, on page 59	Manually update the ETF engine	C-Series
tophosts, on page 195	Display the top hosts by queue size	C- and M-Series
topin, on page 196	Display the top hosts by number of incoming connections	C- and M-Series
trace, on page 144	Trace the flow of a message through the system	C- and M-Series
traceroute, on page 222	Display the network route to a remote host	C- and M-Series
traceroute6, on page 222	Display the network route to a remote host using IPV6.	C-and M- Series
trailblazerconfig, on page 223	Routes your incoming and outgoing connections through HTTP and HTTPS ports on the new web interface of the email gateway.	C- and M- Series
tzupdate, on page 146	Update timezone rules	C- and M-Series
updatenow, on page 154	Update all components	C-and M-Series
upgrade, on page 158	Install an upgrade	C-and M-Series
version, on page 155	View system version information	C-and M-Series
vlninfo, on page 156	Display the Virtual License Number (VLN), and Cisco Talos Certificate and Key details.	C-and M-Series
wipedata, on page 156	Wipe the core files on the disk and check the status of the last coredump operation	C- and M-Series
websecuritydiagnostics, on page 362	View diagnostic statistics for URL filtering	C- and M- Series
who, on page 370	List who is logged in	C-and M-Series

CLI Command	Description	Platform Availability
whoami, on page 371	Display your current user id	C-and M-Series
workqueue, on page 198	Display and/or alter work queue pause status	C- Series

CLI Commands (Commit Required)

CLI Command	Description	Platform Availability
addressconfig, on page 91	Configure From: addresses for system generated mail	C- and M- Series
addresslistconfig, on page 165	Configure address lists	C- Series
adminaccessconfig, on page 92	Configure network access list and banner login	C- Series
aggregatorconfig, on page 355	Configure address of the Cisco Aggregator Server	C- Series
alertconfig, on page 276	Configure email alerts	C- and M- Series
aliasconfig, on page 167	Configure email aliases	C- Series
altsrchost, on page 170	Configure Virtual Gateway™ mappings	C- Series
ampconfig, on page 22	Configure Advanced Malware Protection (File reputation and analysis)	C- and M- Series
antispamconfig, on page 35	Configure Anti-Spam policy	C- Series
antivirusconfig, on page 43	Configure anti-virus policy	C- Series
bounceconfig, on page 171	Configure the behavior of bounces	C- and M- Series
bvconfig, on page 175	Configure key settings for outgoing mail, and configure how to handle invalid bounces.	C- Series
callaheadconfig, on page 317	Add, edit, and remove SMTP Call-Ahead profiles	C- and M- Series
certconfig, on page 97	Configure security certificates and keys	C- and M- Series
cloudserviceconfig, on page 374	Configure Cisco Cloud Service Portal settings and usage.	C- and M- Series

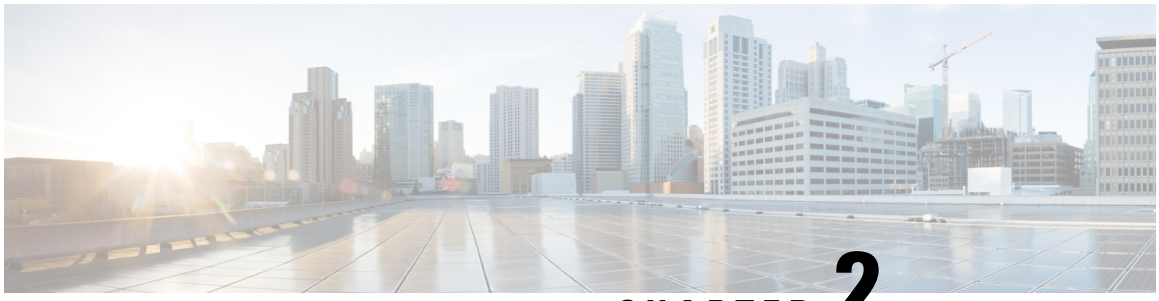
CLI Command	Description	Platform Availability
clusterconfig, on page 60	Configure cluster related settings	C- Series
csaconfig, on page 400	• Enable the Cisco Secure Awareness cloud service on your email gateway. • View details of the Repeat Clickers list. • Update the Repeat Clickers list.	C- Series
csastatus, on page 401	Display the current version of the Cisco Secure Awareness components.	C- Series
csaupdate, on page 402	Manually update the Cisco Secure Awareness components.	C- Series
deliveryconfig, on page 177	Configure mail delivery	C- Series
destconfig, on page 178	Configure options for the Destination Controls Table.	C- Series
dictionaryconfig, on page 227	Configure content dictionaries	C- and M- Series
diskquotaconfig, on page 107	Configure disk space	C- and M- Series
dmarcconfig, on page 76	Configure DMARC settings	C- Series
dnsconfig, on page 83	Configure DNS setup	C- Series
dnshostprefs, on page 87	Configure IPv4/IPv6 DNS preferences	C- and M- Series
dnslistconfig, on page 88	Configure DNS List services support	C- Series
domainkeysconfig, on page 66	Configure DomainKeys support	C- Series
ecconfig , on page 108	Configure the enrollment client that is used to obtain certificates	C- and M- Series
encryptionconfig, on page 110	Configure email encryption	C- Series
etherconfig, on page 199	Configure Ethernet settings	C- and M- Series
exceptionconfig, on page 232	Configure domain exception table	C- Series

CLI Command	Description	Platform Availability
filters, on page 233	Configure message processing options	C- Series
filehashlistconfig, on page 407	• Create a file hash list for any one of the following supported file hash types – MD5 or SHA-256. • Create a file hash list to configure a content filter to take action on messages that contain attachments that match a particular file hash. • Create a file hash list to use as an exception list for the External Threat Feeds (ETF) feature.	C- Series
generalconfig, on page 119	Configure browser settings and other general settings	C- and M- Series
healthconfig, on page 120	Configure the threshold of various health parameters of your email gateway	C- and M- Series
imageanalysisconfig, on page 189	Configure the IronPort Image Analysis settings	C- and M- Series
imsandgraymailconfig, on page 37	Configure Cisco Intelligent Multi-Scan (IMS) and graymail detection and safe unsubscribe settings.	C- and M- Series
incomingrelayconfig, on page 39	Configure Incoming Relays	C- Series
interfaceconfig, on page 200	Configure Ethernet IP addresses	C- and M- Series
ldapconfig, on page 159	Configure LDAP servers	C- Series
license_smart, on page 305	Configure smart software licensing feature.	C- and M- Series
listenerconfig, on page 320	Configure mail listeners	C- Series
loadconfig, on page 50	Load a configuration file	C- and M- Series
localeconfig, on page 349	Configure multi-lingual settings	C- Series
logconfig, on page 283	Configure access to log files	C- and M- Series
ntpconfig, on page 122	Configure NTP time server	C- and M- Series

CLI Command	Description	Platform Availability
oidcconfig, on page 397	Configure OpenID Connect on your email gateway for AsyncOS APIs. Delete OpenID Connect configuration settings on your email gateway.	C- and M- Series
outbreakconfig, on page 225	Configure Outbreak Filters	C- Series
policyconfig, on page 234	Configure per recipient or sender based policies	C- Series
portalregistrationconfig, on page 123	Set Cisco Talos Email Status Portal registration ID for your email gateway.	C- Series
protectedattachmentconfig, on page 387	Enable scanning of password-protected attachments in incoming or outgoing messages. Create user-defined passphrases to open password-protected attachments in incoming or outgoing messages. Switch priority of user-defined passphrases. Edit user-defined passphrases. Delete user-defined passphrases. View user-defined passphrases.	C- Series
quarantineconfig, on page 268	Configure system quarantines	C- Series
reportingconfig, on page 296	Configure reporting settings	C- and M- Series
rollbackconfig, on page 49	Rollback to one of the previously committed configurations	C- and M- Series
routeconfig, on page 207	Configure IP routing table	C- and M- Series
safeprint, on page 383	Configure safe print settings on your email gateway.	C- and M- Series
samlconfig, on page 126	Configure SAML profiles with the service and indentity provider settings	C- and M- Series
scanconfig, on page 269	Configure attachment scanning policy	C- Series
sdrconfig, on page 300	Enable and Configure SDR filtering on your email gateway.	C- Series
sdradvancedconfig, on page 302	Configure advanced parameters when connecting your email gateway to the SDR service.	C- Series

CLI Command	Description	Platform Availability
servicelogsconfig, on page 299	Enable or disable Service Logs on the email gateway.	C-Series
setgateway, on page 209	Set the default gateway (router)	C and M- Series
sethostname, on page 210	Set the name of the machine	C- and M- Series
settz, on page 130	Set the local time zone	C- and M- Series
sievechar, on page 164	Configure characters for Sieve Email Filtering, as described in RFC 3598	C- Series
smartaccountinfo, on page 316	View details of the smart account created in the Cisco Smart Software Manager portal	C- and M- Series
smimeconfig, on page 64	Configure S/MIME functionality	C- and M- Series
smtpauthconfig, on page 351	Configure SMTP Auto profiles	C- Series
smtproutes, on page 210	Set up permanent domain redirections	C- and M- Series
snmpconfig, on page 293	Configure SNMP	C- and M- Series
sshconfig, on page 133	Configure SSH keys	C- and M- Series
sslconfig, on page 212	Configure SSL settings	C- and M- Series
stripheaders, on page 273	Set message headers to remove	C- Series
tcpservices, on page 141	Display information about files opened by processes	C- and M- Series
textconfig, on page 273	Configure text resources	C- Series
threatdefenseconfig, on page 402	Configure advacned message scanning using Threat Defense	C- Series
threatfeedconfig, on page 55	Enable and Configure ETF engine on your email gateway	C- Series
trackingconfig, on page 145	Configure the tracking system	C- and M- Series
unsubscribe, on page 197	Update the global unsubscribe list	C- and M- Series
updateconfig, on page 146	Configure system update parameters	C- Series

CLI Command	Description	Platform Availability
urllistconfig, on page 359	Configure allowed lists of safe URLs.	C-and M- Series
urlretroservice, on page 356	Configure URL Retrospective Service engine	C- Series
userconfig, on page 362	Manage user accounts and connections to external authentication sources.	C- and M- Series
websecurityadvancedconfig, on page 360	Configure advanced settings for URL filtering	C-and M- Series
websecurityconfig, on page 361	Configure global settings for URL filtering	C- and M- Series



CHAPTER 2

Command Line Interface: The Basics

This chapter contains the following sections:

- Accessing the Command Line Interface (CLI), on page 13
- Command Line Interface Conventions, on page 14
- General Purpose CLI Commands, on page 17
- Batch Commands, on page 18

Accessing the Command Line Interface (CLI)

The Command Line Interface is accessible via SSH or Telnet on IP interfaces that have been configured with these services enabled, or via terminal emulation software on the serial port. By factory default, SSH and Telnet are configured on the Management port. Use the interfaceconfig command to disable these services.

Access to the CLI varies depending on the management connection method chosen while setting up the email gateway. The factory default username and passphrase are listed next. Initially, only the admin user account has access to the CLI. You can add other users with differing levels of permission after you have accessed the command line interface for the first time via the admin account. The system setup wizard asks you to change the passphrase for the admin account. The passphrase for the admin account can also be reset directly at any time using the passphrase command.

To connect via Ethernet: Start an SSH or Telnet session with the factory default IP address 192.168.42.42. SSH is configured to use port 22. Telnet is configured to use port 23. Enter the username and passphrase below.

To connect via a Serial connection: Start a terminal session with the communication port on your personal computer that the serial cable is connected to. See the “Setup and Installation” chapter for more information. Enter the username and passphrase below.

Log in to the email gateway by entering the username and passphrase below.

Factory Default Username and Passphrase

- Username: **admin**
- Passphrase: **ironport**

For example:

```
login: admin

passphrase: ironport
```

Command Line Interface Conventions

This section describes the rules and conventions of the AsyncOS CLI.

Command Prompt

The top-level command prompt consists of the fully qualified hostname, followed by the greater than (>) symbol, followed by a space. For example:

```
mail3.example.com>
```

If the email gateway has been configured as part of a cluster with the Centralized Management feature, the prompt in the CLI changes to indicate the current mode. For example:

```
(Cluster Americas) >
```

or

```
(Machine los_angeles.example.com)
>
```

See “Centralized Management” in the user guide for more information.

When running commands, the CLI requires input from you. When the CLI is expecting input from you, the command prompt shows the default input enclosed in square brackets ([]) followed by the greater than (>) symbol. When there is no default input, the command prompt brackets are empty.

For example:

```
Please create a fully-qualified hostname for this Gateway
(Ex: "mail3.example.com"):
[]>
mail3.example.com
```

When there is a default setting, the setting is displayed within the command prompt brackets. For example:

```
Ethernet interface:
1. Data 1
2. Data 2
3. Management
[1]> 1
```

When a default setting is shown, typing Return is equivalent to typing the default:

```
Ethernet interface:
1. Data 1
2. Data 2
3. Management
[1]> (type Return)
```

Command Syntax

When operating in the interactive mode, the CLI command syntax consists of single commands with no white spaces and no arguments or parameters. For example:

```
mail3.example.com> systemsetup
```

Select Lists

When you are presented with multiple choices for input, some commands use numbered lists. Enter the number of the selection at the prompt.

For example:

```
Log level:
1. Error
2. Warning
3. Information
4. Debug
5. Trace
[3]> 3
```

Yes/No Queries

When given a yes or no option, the question is posed with a default in brackets. You may answer **Y**, **N**, **Yes**, or **No**. Case is not significant.

For example:

```
Do you want to enable FTP on this interface?  [Y]>
n
```

Subcommands

Some commands give you the opportunity to use subcommands. Subcommands include directives such as NEW , EDIT , and DELETE . For the EDIT and DELETE functions, these commands provide a list of the records previously configured in the system.

For example:

```
mail3.example.com> interfaceconfig
Currently configured interfaces:
1. Management (192.168.42.42/24: mail3.example.com)
Choose the operation you want to perform:
- NEW - Create a new interface.
- EDIT - Modify an interface.
- GROUPS - Define interface groups.
- DELETE - Remove an interface.
[]>
```

Within subcommands, typing Enter or Return at an empty prompt returns you to the main command.

Escape

You can use the Control-C keyboard shortcut at any time within a subcommand to immediately exit return to the top level of the CLI.

History

The CLI keeps a history of all commands you type during a session. Use the Up and Down arrow keys on your keyboard, or the Control-P and Control-N key combinations, to scroll through a running list of the recently-used commands.

```
mail3.example.com> (type the Up arrow key)
```

```
mail3.example.com> interfaceconfig (type the Up arrow key)
```

```
mail3.example.com> topin (type the Down arrow key)
```

Command Completion

The command-line interface supports command completion. You can type the first few letters of some commands followed by the Tab key, and the CLI completes the string for unique commands. If the letters you entered are not unique among commands, the CLI “narrows” the set. For example:

```
mail3.example.com> set (type the Tab key)
setgateway, sethostname, settime, settz
mail3.example.com> seth
(typing the Tab again completes the entry with sethostname)
```

For both the history and file completion features of the CLI, you must type Enter or Return to invoke the command.

Configuration Changes

You can make configuration changes while email operations proceed normally.

Configuration changes will not take effect until you complete the following steps:

Procedure

Step 1 Issue the commit command at the command prompt.

Step 2 Give the commit command the input required.

Step 3 Receive confirmation of the commit procedure at the CLI.

What to do next

Changes to configuration that have not been committed will be recorded but not put into effect until the commit command is run.

Note Not all commands require the commit command to be run. See CLI Quick Reference Guide, on page 1 for a summary of commands that require commit to be run before their changes take effect.

Exiting the CLI session, system shutdown, reboot, failure, or issuing the clear command clears changes that have not yet been committed.

General Purpose CLI Commands

This section describes the commands used to commit or clear changes, to get help, and to quit the command-line interface.

Committing Configuration Changes

The commit command is critical to saving configuration changes to the email gateway. Many configuration changes are not effective until you enter the commit command. (A few commands do not require you to use the commit command for changes to take effect. The commit command applies configuration changes made since the last commit command or the last clear command was issued. You may include comments up to 255 characters. Changes are not verified as committed until you receive confirmation along with a timestamp.

Entering comments after the commit command is optional.

```
mail3.example.com> commit
Please enter some comments describing your changes:
[]> Changed "psinet" IP Interface to a different IP address
Do you want to save the current configuration for rollback? [Y]>
n
Changes committed: Fri May 23 11:42:12 2014 GMT
```

Note To successfully commit changes, you must be at the top-level command prompt. Type Return at an empty prompt to move up one level in the command line hierarchy.

Clearing Configuration Changes

The clear command clears any configuration changes made since the last commit or clear command was issued.

```
mail3.example.com> clear
Are you sure you want to clear all changes since the last commit?  [Y]>
y
Changes cleared: Mon Jan 01 12:00:01 2003
mail3.example.com>
```

Quitting the Command Line Interface Session

The quit command logs you out of the CLI application. Configuration changes that have not been committed are cleared. The quit command has no effect on email operations. Logout is logged into the log files. (Typing exit is the same as typing quit.)

```
mail3.example.com> quit
Configuration changes entered but not committed.  Exiting will lose changes.
Type 'commit' at the command prompt to commit changes.
Are you sure you wish to exit?  [N]> Y
```

Seeking Help on the Command Line Interface

The help command lists all available CLI commands and gives a brief description of each command. The help command can be invoked by typing either help or a single question mark (?) at the command prompt.

```
mail3.example.com> help
```

Batch Commands

AsyncOS includes support for batch command formats that allow you to execute certain CLI commands using a new, single-line CLI format. This format reduces the number of inputs required to complete tasks and provides a mechanism allowing you to easily automate common configuration tasks. Batch commands also allow you to issue commands remotely using an SSH client. This enables you to easily script CLI commands and execute them on multiple email gateways at one time.

Not all commands have a batch equivalent, but all batch commands can be executed as non-batch commands.

Batch command syntax is dependent on the specific command being used. Please see the appropriate CLI example in The Commands: Reference Examples, on page 21 for more information about syntax specific to that command.

Batch Command Example

In the following example, the sendergroup REDLIST is created. It is then associated with the policy THROTTLED, and then the sender 'possible_spammer.com' is added to the sender group.

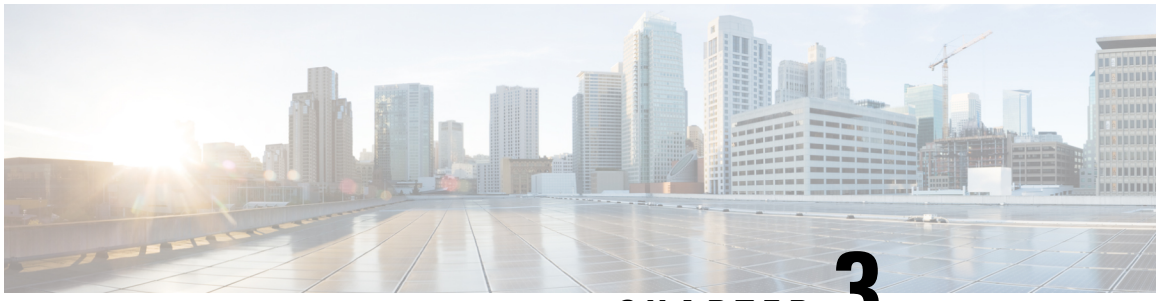
To execute this action using the CLI:

```
example.com> listenerconfig

Currently configured listeners:

1. IncomingMail (on Management, 192.168.42.42/24) SMTP TCP Port 25 Public

2. OutgoingMail (on Data 2, 192.168.40.42/24) SMTP TCP Port 25 Private

Choose the operation you want to perform:
- NEW - Create a new listener.
- EDIT - Modify a listener.
- DELETE - Remove a listener.
- SETUP - Change global settings.

[]> edit

Enter the name or number of the listener you wish to edit.
[]> IncomingMail

Choose the operation you want to perform:
- NAME - Change the name of the listener.
- INTERFACE - Change the interface.
- LIMITS - Change the injection limits.
- SETUP - Configure general options.
- HOSTACCESS - Modify the Host Access Table.
- RCPTACCESS - Modify the Recipient Access Table.
- BOUNCECONFIG - Choose the bounce profile to use for messages injected on this listener.
- MASQUERADE - Configure the Domain Masquerading Table.
- DOMAINMAP - Configure domain mappings.

[]> HOSTACCESS

There are currently 4 policies defined.
There are currently 5 sender groups.

Choose the operation you want to perform:

- NEW - Create a new entry.
- EDIT - Modify an entry.
- DELETE - Remove an entry.
- MOVE - Move an entry.
- DEFAULT - Set the defaults.
- PRINT - Display the table.
- IMPORT - Import a table from a file.
- EXPORT - Export the table to a file.
- CLEAR - Remove all entries.

[]> NEW

1. New Sender Group
2. New Policy
```

```
[1]> 1

Enter a name for this sender group. (optional)

[]> REDLIST

Enter the hosts to add. CIDR addresses such as 10.1.1.0/24 are allowed.
IP address ranges such as 10.1.1.10-20 are allowed. IP subnets such as
10.2.3. are allowed.

Hostnames such as crm.example.com are allowed.

Partial hostnames such as .example.com are allowed.

Ranges of SenderBase Reputation scores such as SBRS[7.5:10.0] are
allowed.

SenderBase Network Owner IDs such as SBO:12345 are allowed.
Remote blocked list queries such as dnslist[query.blocked list.example] are
allowed.

Separate multiple hosts with commas

[]> possible_spammer.com

Select a behavior for this entry.

1. Accept
2. Relay
3. Reject
4. TCP Refuse
5. Continue
6. Policy: ACCEPTED
7. Policy: BLOCKED
8. Policy: THROTTLED
9. Policy: TRUSTED

[1]> 8

Enter a comment for this sender group.
[]>

There are currently 4 policies defined.
There are currently 6 sender groups.
```

To perform the same action using a CLI batch command:

```
example.com> listenerconfig edit IncomingMail hostaccess new sendergroup
REDLIST possible_spammer.com Policy: "THROTTLED"
```



CHAPTER 3

The Commands: Reference Examples

This chapter contains the following sections:

- How to Read the Listing, on page 22
- Advanced Malware Protection, on page 22
- Spam and Graymail Management, on page 35
- Anti-Virus, on page 43
- Command Line Management, on page 47
- Configuration File Management, on page 50
- Configuring Email Gateway to Consume External Threat Feeds, on page 54
- Cluster Management, on page 59
- Data Loss Prevention, on page 61
- Domain Exception List, on page 63
- S/MIME Security Services, on page 64
- Domain Keys, on page 66
- DMARC Verification, on page 76
- DNS, on page 80
- Enhanced User Experience using How-Tos Widget , on page 90
- General Management/Administration/Troubleshooting, on page 91
- Content Scanning, on page 158
- LDAP, on page 159
- Mail Delivery Configuration/Monitoring, on page 165
- Networking Configuration / Network Tools, on page 198
- Outbreak Filters, on page 224
- Policy Enforcement, on page 227
- Logging and Alerts, on page 276
- Reporting, on page 296
- Improving Phishing Detection using Service Logs, on page 299
- Sender Domain Reputation Filtering, on page 300
- Mailbox Auto Remediation, on page 303
- Smart Software Licensing, on page 305
- SMTP Services Configuration, on page 317
- System Setup, on page 352
- URL Filtering , on page 355
- User Management, on page 362

- Virtual Email Gateway Management , on page 371
- Geolocation, on page 373
- Configuring Cisco Cloud Service Portal Settings and Usage, on page 374
- Configuring Safe Print Settings on Email Gateway, on page 382
- Connecting the Email Gateway to Talos Cloud Services , on page 384
- Integrating the Email Gateway with Cisco Advanced Phishing Protection, on page 385
- Scanning Password-protected Attachments in Messages, on page 387
- Configuring OpenID Connect 1.0 on Email Gateway for AsyncOS APIs, on page 397
- Integrating Email Gateway with Cisco Secure Awareness Cloud Service, on page 399
- Integrating Email Cloud Gateway with Cisco Secure Email Threat Defense, on page 402
- Creating a File Hash List, on page 407
- Synchronizing Configuration Changes between Machines in Different Clusters Simultaneously, on page 408

How to Read the Listing

For each command, there is a description and at least one example of the command being used. The Usage section specifies the following command attributes:

Procedure

Step 1 Does the command require a commit command to be implemented on the email gateway?

Step 2 Is the command restricted to a particular mode (cluster, group, or machine).?

Step 3 Does the command permit a batch format?

For more information about Centralized Management, see *User Guide for AsyncOS for Cisco Secure Email Gateway* .

For more information about batch formats, please see Command Line Interface: The Basics, on page 13.

Advanced Malware Protection

ampconfig

Configure file reputation filtering and file analysis. Do not modify advanced options without guidance from Cisco TAC.

Usage

Commit: This command requires a ‘commit’.

Cluster Management: This command can be used in all three machine modes (cluster, group, machine).

Batch Command: This command supports a batch format. For details, see the inline help by typing the command: help ampconfig .

Examples

Enabling File Reputation and File Analysis

```
mail.example.com> ampconfig

File Reputation: Disabled


Choose the operation you want to perform:
- SETUP - Configure Advanced-Malware protection service.
[]> setup

File Reputation: Disabled
Would you like to use File Reputation? [Y]>

Would you like to use File Analysis? [Y]>

Do you want to modify the file types selected for File Analysis? [N]>

Specify AMP processing timeout (in seconds)
[120]>

Advanced-Malware protection is now enabled on the system.
Please note: you must issue the 'policyconfig' command (CLI) or Mail
Policies (GUI) to configure advanced malware scanning behavior for
default and custom Incoming and Outgoing Mail Policies.
This is recommended for your DEFAULT policy.

File Reputation: Enabled
File Analysis: Enabled
Appliance Group ID/Name: Not part of any group yet

Choose the operation you want to perform:
- SETUP - Configure Advanced-Malware protection service.
[]>
```

Selecting File Types for File Analysis

```
mail.example.com> ampconfig

File Reputation: Enabled
File Analysis: Enabled
Appliance Group ID/Name: Not part of any group yet

Choose the operation you want to perform:
- SETUP - Configure Advanced-Malware protection service.
- ADVANCED - Set values for AMP parameters (Advanced configuration).
- SETGROUP - Add this appliance to the group of appliances that can share File Analysis
reporting details.
- CACHESETTINGS - Configure the cache settings for AMP.
[]> setup

File Reputation: Enabled
Would you like to use File Reputation? [Y]>

Would you like to use File Analysis? [Y]>

Do you want to modify the file types selected for File Analysis? [N]> yes
```

```
Enter comma separated numbers from the list of groups to select file types associated with
 the group.

1. Archived and compressed
2. Configuration
3. Database
4. Document
5. Email
6. Encoded and Encrypted
7. Executables [partly selected]
8. Microsoft Documents
9. Miscellaneous
[]> 8

File types belonging to the group "Microsoft Documents":

1. Dqyfile(dqy)
2. Excel Workspace File(xlw)
3. Excel.AddInMacroEnabled(xlam)
4. Excel.Addin(xla)
5. Excel.CSV(csv)
6. ............
Choose the operation you want to perform:
- PRINT - Print the file types for File Analysis
- ADD - Add the file type(s) for File Analysis
[]> add

Choose the file type(s) to be added for File Analysis from the list

File types that are not selected for File Analysis from group "Microsoft Documents":

1. Dqyfile(dqy)
2. Excel Workspace File(xlw)
3. Excel.AddInMacroEnabled(xlam)
4. Excel.Addin(xla)
5. Excel.CSV(csv)
6. ........ ....
[]> 1-3, 5


Choose the operation you want to perform:
- PRINT - Print the file types for File Analysis
- DELETE - Delete the file type(s) for File Analysis
- ADD - Add the file type(s) for File Analysis
[]> print

File types belonging to the group:

1. Dqyfile(dqy) [selected]
2. Excel Workspace File(xlw) [selected]
3. Excel.AddInMacroEnabled(xlam) [selected]
4. Excel.Addin(xla)
5. Excel.CSV(csv) [selected]
6. ........ ....
Choose the operation you want to perform:
- PRINT - Print the file types for File Analysis
- DELETE - Delete the file type(s) for File Analysis
- ADD - Add the file type(s) for File Analysis
[]>

Specify AMP processing timeout (in seconds)
[120]>
```

```
Advanced-Malware protection is now enabled on the system.
Please note: you must issue the 'policyconfig' command (CLI) or Mail
Policies (GUI) to configure advanced malware scanning behavior for
default and custom Incoming and Outgoing Mail Policies.
This is recommended for your DEFAULT policy.

File Reputation: Enabled
File Analysis: Enabled
Appliance Group ID/Name: Not part of any group yet


Choose the operation you want to perform:
- SETUP - Configure Advanced-Malware protection service.
- ADVANCED - Set values for AMP parameters (Advanced configuration).
- SETGROUP - Add this appliance to the group of appliances that can share File Analysis
reporting details.
- CACHESETTINGS - Configure the cache settings for AMP.
[]>
```

Configure Email Gateway to Use Public Cloud File Reputation and File Analysis Server

```
mail.example.com> ampconfig

File Reputation: Enabled
File Analysis: Enabled
Appliance Group ID/Name: Not part of any group yet


Choose the operation you want to perform:
- SETUP - Configure Advanced-Malware protection service.
- ADVANCED - Set values for AMP parameters (Advanced configuration).
- SETGROUP - Add this appliance to the group of appliances that can share File Analysis
reporting details.
- CACHESETTINGS - Configure the cache settings for AMP.
[]> advanced

Enter cloud query timeout?
[20]>

Choose a file reputation server:
1. US Cloud
2. EU Cloud
3. APJC Cloud
4. Private reputation cloud
[1]>

Do you want use the recommended analysis threshold from cloud service? [Y]>

Enter heartbeat interval?
[15]>

Proxy server detail:
Server :
Port :
User :
Passphrase:

Do you want to change proxy detail [N]>

Do you want to suppress the verdict update alerts for all messages that are not delivered
to the recipient? [N]>

Choose a file analysis server:
1. AMERICAS (https://panacea.threatgrid.com)
```

```
2. EUROPE (https://panacea.threatgrid.eu)
3. Private analysis cloud
[1]>

Use Existing File Reputation Proxy? [N]>

Proxy server detail:
Server :
Port :
User :
Password :

Do you want to change proxy detail [N]>

File Reputation: Enabled
File Analysis: Enabled
Appliance Group ID/Name: Not part of any group yet


Choose the operation you want to perform:
- SETUP - Configure Advanced-Malware protection service.
- ADVANCED - Set values for AMP parameters (Advanced configuration).
- SETGROUP - Add this appliance to the group of appliances that can share File Analysis
reporting details.
- CACHESETTINGS - Configure the cache settings for AMP.
[]>
```

(Public Cloud File Analysis Services Only) Configuring Appliance Groups

To allow all appliances in your organization to view file analysis result details in the cloud for files sent for analysis from any appliance in your organization, you need to join all appliances to the same appliances group.

For more information, see the “File Reputation Filtering and File Analysis” chapter in the user guide.

```
mail.example.com> ampconfig

File Reputation: Enabled
File Analysis: Enabled
Appliance Group ID/Name: Not part of any group yet


Choose the operation you want to perform:
- SETUP - Configure Advanced-Malware protection service.
- ADVANCED - Set values for AMP parameters (Advanced configuration).
- SETGROUP - Add this appliance to the group of appliances that can share File Analysis
reporting details.
- CACHESETTINGS - Configure the cache settings for AMP.
[]> setgroup

Does your organization have multiple Cisco Email, Web, and/or Content Security Management
appliances? [N]> yes

Do you want this appliance to display detailed analysis reports for files uploaded to the
cloud from other appliances in your organization, and vice-versa? [Y]>

Enter an Analysis Group name. This name is case-sensitive and must be configured identically
 on each appliance in the Analysis Group.
[]> FA_Reporting

Machine: 'mail.example.com'. TG group registration is successful with the group name
'FA_Reporting'. This does not require commit.
File Reputation: Enabled
File Analysis: Enabled
Appliance Group ID/Name: Not part of any group yet
```

```
Choose the operation you want to perform:
- SETUP - Configure Advanced-Malware protection service.
- ADVANCED - Set values for AMP parameters (Advanced configuration).
- SETGROUP - Add this appliance to the group of appliances that can share File Analysis
reporting details.
- CACHESETTINGS - Configure the cache settings for AMP.
[]>
```

Note If you want to modify the Appliance Group ID/Name, use the `SETGROUP` command. You can view the appliances added to a Appliance Group using the `VIEWGROUP` subcommand.

Configure Email Gateway to Use an On-Premises File Analysis Server

```
mail.example.com> ampconfig

File Reputation: Enabled
File Analysis: Enabled
Appliance Group ID/Name: Not part of any group yet


Choose the operation you want to perform:
- SETUP - Configure Advanced-Malware protection service.
- ADVANCED - Set values for AMP parameters (Advanced configuration).
- SETGROUP - Add this appliance to the group of appliances that can share File Analysis
reporting details.
- CACHESETTINGS - Configure the cache settings for AMP.
[]> advanced

Enter cloud query timeout?
[20]>

Choose a file reputation server:
1. US Cloud
2. EU Cloud
3. APJC Cloud
4. Private reputation cloud
[1]>

Do you want use the recommended analysis threshold from cloud service? [Y]>

Enter heartbeat interval?
[15]>

Proxy server detail:
Server :
Port :
User :
Passphrase:

Do you want to change proxy detail [N]>

Do you want to suppress the verdict update alerts for all messages that are not delivered
to the recipient? [N]>

Choose a file analysis server:
1. AMERICAS (https://panacea.threatgrid.com)
2. EUROPE (https://panacea.threatgrid.eu)
3. Private analysis cloud
```

```
[1]> 3

There are no private analysis servers configured.

Choose the operation you want to perform:
- NEW - Configure a new private analysis server.
[]> new

Enter the file analysis server hostname or IP or URL.
[]> https://mycloud.example.com

Serial Number      Private Analysis Server
-----------------------------------
1                  mycloud.example.com

Choose the operation you want to perform:
- ADD - Add a new private analysis server to the cluster.
- EDIT - Edit a private analysis server in the cluster.
- DELETE - Delete a private analysis server from the cluster.
[]>

Do you want to configure a security certificate? [N]>

Use Existing File Reputation Proxy? [N]>

Proxy server detail:
Server :
Port :
User :
Password :

Do you want to change proxy detail [N]>

File Reputation: Enabled
File Analysis: Enabled
Appliance Group ID/Name: Not part of any group yet


Choose the operation you want to perform:
- SETUP - Configure Advanced-Malware protection service.
- ADVANCED - Set values for AMP parameters (Advanced configuration).
- SETGROUP - Add this appliance to the group of appliances that can share File Analysis
reporting details.
- CACHESETTINGS - Configure the cache settings for AMP.
```

Configure Email Gateway to Use an On-Premises File Reputation Server

```
mail.example.com> ampconfig

File Reputation: Enabled
File Analysis: Enabled
Appliance Group ID/Name: Not part of any group yet


Choose the operation you want to perform:
- SETUP - Configure Advanced-Malware protection service.
- ADVANCED - Set values for AMP parameters (Advanced configuration).
- SETGROUP - Add this appliance to the group of appliances that can share File Analysis
reporting details.
- CACHESETTINGS - Configure the cache settings for AMP.
[]> advanced

Enter cloud query timeout?
[20]>
```

```
Choose a file reputation server:
1. US Cloud
2. EU Cloud
3. APJC Cloud
4. Private reputation cloud
[1]> 4

Enter AMP reputation server Console Hostname or IP address?
[]> myamp.domain.com

-1:     Fri Nov 18 12:53:38 2022 url in get request https://myamp.domain.com /v1/clouds
-1:     Fri Nov 18 12:53:38 2022 AMP Console Cloud list response:<Response [200]>
When a file reputation server is changed, the appliance will not receive any retrospective
 verdict updates from the previous configured file reputation server.

Enter Activation Code []? [N]> yes

Please enter new Activation Code : 12345678-abcd-1234-ef90-1234ab957654
Do you want use the recommended analysis threshold from cloud service? [Y]>

Enter heartbeat interval?
[15]>

Please make sure you have added the Amp onprem reputation server CA certificate in
certconfig->CERTAUTHOROTIES->CUSTOM
Proxy server detail:
Server :
Port :
User :
Passphrase:

Do you want to change proxy detail [N]>

Do you want to suppress the verdict update alerts for all messages that are not delivered
to the recipient? [N]>

Choose a file analysis server:
1. AMERICAS (https://panacea.threatgrid.com)
2. EUROPE (https://panacea.threatgrid.eu)
3. Private analysis cloud
[1]>

Use Existing File Reputation Proxy? [N]>

Proxy server detail:
Server :
Port :
User :
Password :

Do you want to change proxy detail [N]>

File Reputation: Enabled
File Analysis: Enabled
Appliance Group ID/Name: Not part of any group yet


Choose the operation you want to perform:
- SETUP - Configure Advanced-Malware protection service.
- ADVANCED - Set values for AMP parameters (Advanced configuration).
- SETGROUP - Add this appliance to the group of appliances that can share File Analysis
reporting details.
```

```
- CACHESETTINGS - Configure the cache settings for AMP.
[]>
```

Clearing Local File Reputation Cache

```
mail.example.com> ampconfig

File Reputation: Enabled
File Analysis: Enabled
Appliance Group ID/Name: Not part of any group yet


Choose the operation you want to perform:
- SETUP - Configure Advanced-Malware protection service.
- ADVANCED - Set values for AMP parameters (Advanced configuration).
- SETGROUP - Add this appliance to the group of appliances that can share File Analysis
reporting details.
- CACHESETTINGS - Configure the cache settings for AMP.
[]> cachesettings


Choose the operation you want to perform:
- MODIFYTIMEOUT - Configure the cache expiry period based on File Reputation disposition.
- CLEARCACHE - Clears the local File Reputation cache.
[]> clearcache

Do you want to clear File Reputation Cache? [N]> yes

Cache cleared successfully.

Choose the operation you want to perform:
- MODIFYTIMEOUT - Configure the cache expiry period based on File Reputation disposition.
- CLEARCACHE - Clears the local File Reputation cache.
[]>
```

Configuring Cache Expiry Period for File Reputation disposition values

In the following example, the `modifytimeout` sub command is used to configure the cache expiry period for malicious files.

Note The cache expiry period must be a value from 15 minutes to 7 days.

```
mail.example.com> ampconfig

File Reputation: Enabled
File Analysis: Enabled
Appliance Group ID/Name: Not part of any group yet


Choose the operation you want to perform:
- SETUP - Configure Advanced-Malware protection service.
- ADVANCED - Set values for AMP parameters (Advanced configuration).
- SETGROUP - Add this appliance to the group of appliances that can share File Analysis
reporting details.
- CACHESETTINGS - Configure the cache settings for AMP.
[]> cachesettings


Choose the operation you want to perform:
```

```
- MODIFYTIMEOUT - Configure the cache expiry period based on File Reputation disposition.
- CLEARCACHE - Clears the local File Reputation cache.
[]> modifytimeout


Choose the operation you want to perform:
- CLEAN - Configure the cache expiry period for clean files.
- MALICIOUS - Configure the cache expiry period for malicious files.
- UNKNOWN - Configure the cache expiry period for unknown files.
[]> MALICIOUS

Specify the cache expiry period for this file disposition (use 'd' for days, 'h' for hours,
 or 'm' for minutes). If you specify a value without a unit, it is always treated as days.
[1d]> 5d


Choose the operation you want to perform:
- MODIFYTIMEOUT - Configure the cache expiry period based on File Reputation disposition.
- CLEARCACHE - Clears the local File Reputation cache.
```

Suppressing File Retrospective Verdict Alerts

```
mail.example.com> ampconfig

File Reputation: Enabled
File Analysis: Enabled
Appliance Group ID/Name: Not part of any group yet


Choose the operation you want to perform:
- SETUP - Configure Advanced-Malware protection service.
- ADVANCED - Set values for AMP parameters (Advanced configuration).
- SETGROUP - Add this appliance to the group of appliances that can share File Analysis
reporting details.
- CACHESETTINGS - Configure the cache settings for AMP.
[]> advanced

Enter cloud query timeout?
[20]>

Choose a file reputation server:
1. US Cloud
2. EU Cloud
3. APJC Cloud
4. Private reputation cloud
[1]>

Do you want use the recommended analysis threshold from cloud service? [Y]>

Enter heartbeat interval?
[15]>

Proxy server detail:
Server :
Port :
User :
Passphrase:

Do you want to change proxy detail [N]>

Do you want to suppress the verdict update alerts for all messages that are not delivered
to the recipient? [N]> yes
```

Configuring Cisco AMP Threat Grid Clustering for File Analysis

```
mail.example.com> ampconfig

File Reputation: Enabled
File Analysis: Enabled
Appliance Group ID/Name: Not part of any group yet


Choose the operation you want to perform:
- SETUP - Configure Advanced-Malware protection service.
- ADVANCED - Set values for AMP parameters (Advanced configuration).
- SETGROUP - Add this appliance to the group of appliances that can share File Analysis
reporting details.
- CACHESETTINGS - Configure the cache settings for AMP.
[]> advanced

Enter cloud query timeout?
[20]>

Choose a file reputation server:
1. US Cloud
2. EU Cloud
3. APJC Cloud
4. Private reputation cloud
[1]>

Do you want use the recommended analysis threshold from cloud service? [Y]>

Enter heartbeat interval?
[15]>

Proxy server detail:
Server :
Port :
User :
Passphrase:

Do you want to change proxy detail [N]>

Do you want to suppress the verdict update alerts for all messages that are not delivered
to the recipient? [N]>

Choose a file analysis server:
1. AMERICAS (https://panacea.threatgrid.com)
2. EUROPE (https://panacea.threatgrid.eu)
3. Private analysis cloud
[1]> 3

Choose the operation you want to perform:
- NEW - Configure a new private analysis server.
[]> new

Enter the file analysis server hostname or IP or URL.
[]> 192.1.10.20

Serial Number      Private Analysis Server
-----------------------------------
1                  192.1.10.20

Choose the operation you want to perform:
- ADD - Add a new private analysis server to the cluster.
- EDIT - Edit a private analysis server in the cluster.
- DELETE - Delete a private analysis server from the cluster.
```

```
[]> add

Enter the new private analysis server hostname or IP address or URL to the cluster.
[]> 192.1.10.30

Serial Number      Private Analysis Server
-----------------------------------
1                  192.1.10.20
2                  192.1.10.30

Choose the operation you want to perform:
- ADD - Add a new private analysis server to the cluster.
- EDIT - Edit a private analysis server in the cluster.
- DELETE - Delete a private analysis server from the cluster.
[]>
```

Configuring Proxy Server Settings for File Analysis

```
mail.example.com> ampconfig

File Reputation: Enabled
File Analysis: Enabled
Appliance Group ID/Name: Not part of any group yet


Choose the operation you want to perform:
- SETUP - Configure Advanced-Malware protection service.
- ADVANCED - Set values for AMP parameters (Advanced configuration).
- SETGROUP - Add this appliance to the group of appliances that can share File Analysis
reporting details.
- CACHESETTINGS - Configure the cache settings for AMP.
[]> advanced

Enter cloud query timeout?
[20]>

Choose a file reputation server:
1. US Cloud
2. EU Cloud
3. APJC Cloud
4. Private reputation cloud
[1]>

Do you want use the recommended analysis threshold from cloud service? [Y]>

Enter heartbeat interval?
[15]>

Proxy server detail:
Server : 10.8.6.7
Port : 3128
User : testuser1
Passphrase: ********

Do you want to change proxy detail [N]>

Do you want to suppress the verdict update alerts for all messages that are not delivered
to the recipient? [N]>

Choose a file analysis server:
1. AMERICAS (https://panacea.threatgrid.com)
2. EUROPE (https://panacea.threatgrid.eu)
3. Private analysis cloud
[1]>
```

```
Use Existing File Reputation Proxy? [N]>

Proxy server detail:
Server :
Port :
User :
Password :

Do you want to change proxy detail [N]> yes

Enter proxy server url?
[]> 10.8.7.5

Enter proxy port?
[]> 3230

Enter Username?
[]> testuser2

Edit passphrase []? [N]>

File Reputation: Enabled
File Analysis: Enabled
Appliance Group ID/Name: Not part of any group yet


Choose the operation you want to perform:
- SETUP - Configure Advanced-Malware protection service.
- ADVANCED - Set values for AMP parameters (Advanced configuration).
- SETGROUP - Add this appliance to the group of appliances that can share File Analysis
reporting details.
- CACHESETTINGS - Configure the cache settings for AMP.
[]>
```

ampstatus

Description

Display the version of various Advanced Malware Protection (file reputation and analysis) components.

Usage

Commit: This command does not require a ‘commit’.

Cluster Management: This command is restricted to machine mode.

Batch Command: This command does not support a batch format.

Example

```
mail.example.com> ampstatus

Component                           Version    Last Updated
AMP Client Settings                 1.0        Never updated
AMP Client Engine                   1.0        Never updated
```

Spam and Graymail Management

This section contains the following commands:

antispamconfig

Description

Configure anti-spam policy.

Usage

Commit: This command requires a 'commit'.

Cluster Management: This command can be used in all three machine modes (cluster, group, machine).

Batch Command: This command does not support a batch format.

Example

The following examples demonstrates the configuration for Anti-Spam functionality.

```
mail3.example.com> antispamconfig

IronPort Anti-Spam scanning: Disabled
Choose the operation you want to perform:
- SETUP - Edit IronPort Anti-Spam settings.
[]> setup
IronPort Anti-Spam scanning: Disabled
Would you like to use IronPort Anti-Spam scanning? [Y]> y
The IronPort Anti-Spam License Agreement is displayed (if you have not already accepted
it).
Do you accept the above IronPort Anti-Spam license agreement? []> Y
Increasing the following size settings may result in decreased performance. Please consult
 documentation for size
recommendations based on your environment.
Never scan message larger than: (Add a trailing K for kilobytes, M for megabytes, or no
letters for bytes.)
[1M]>
Always scan message smaller than: (Add a trailing K for kilobytes, M for megabytes, or no
letters for bytes.)
[512K]>
Please specify the IronPort Anti-Spam scanning timeout (in seconds)
[60]>
Choose Scanning Profile
1. Normal - Scanning profile used to block spam with small potential for false positives.
2. Aggressive - Scanning profile used to block spam that has more impact on spam detection
 than the Normal profile with a larger potential for false positives.

If you have changed the global scanning profile settings, you must review the Anti-Spam
policy thresholds (Mail Policies > Incoming/Outgoing Mail Policies > Anti-Spam)
to produce satisfactory results.
If you have changed the scanning profile setting from Normal to Aggressive, you need to
reset the mail policy threshold values to the default values to avoid
undesirable false positives.
For Aggressive scanning profile, it is recommended to tune the policy threshold values to
smaller increments compared to the threshold values of the
```

```
Normal scanning profile.
IronPort Anti-Spam scanning is now enabled on the system.
Please note: You must issue the policyconfig command or Mail Policies (GUI) to configure
Cisco IronPort scanning behavior for default and custom policies.
This is recommended for your DEFAULT policy.
IronPort Anti-Spam scanning: Enabled
Choose the operation you want to perform:
- SETUP - Edit IronPort Anti-Spam settings.
[]>
```

antispamstatus

Description

Display anti-spam status.

Usage

Commit: This command does not require a 'commit'.

Cluster Management: This command can be used in all three machine modes (cluster, group, machine).

Batch Command: This command does not support a batch format.

Example

```
mail3.example.com> antispamstatus
Choose the operation you want to perform:
- IRONPORT - Display IronPort Anti-Spam version and rule information.

- MULTISCAN - Display Intelligent Multi-Scan version and rule information.
[]> ironport
  Component              Last Update                 Version
 CASE Core Files        Never updated               3.4.0-013
 CASE Utilities         Never updated               3.4.0-013
 Structural Rules       Never updated 3.3.1-009-20141210_214201
 Web Reputation DB      Never updated               20141211_111021
 Web Reputation Rules   Never updated 20141211_111021-20141211_170330
 Content Rules          Never updated               unavailable
 Content Rules Update   Never updated               unavailable
Last download attempt made on: Never
```

antispamupdate

Description

Manually request an immediate update of Anti-Spam rules and related CASE components. This also includes the Anti-Spam rules and CASE components used by Intelligent Multi-Scan (IMS), but not for the third-party anti-spam engines used by IMS.

Usage

Commit: This command does not require a 'commit'.

Cluster Management: This command is restricted to machine mode. It is further restricted to the login host (i.e., the specific machine you are logged onto).

Batch Command: This command does not support a batch format.

Example

```
mail3.example.com> antispamupdate
Choose the operation you want to perform:
- MULTISCAN - Request updates for Intelligent Multi-Scan
- IRONPORT - Request updates for IronPort Anti-Spam

[]> ironport
Requesting check for new CASE definitions
```

imsandgraymailconfig

- Description, on page 37
- Usage, on page 37
- Example, on page 37

Description

Configure the Cisco Intelligent Multi-Scan (IMS) and Graymail Detection and Safe Unsubscribe settings.

Note

- To configure the threshold for message scanning by Cisco Intelligent Multi-Scan and Graymail Detection and Safe Unsubscribing, use the `imsandgraymailconfig > globalconfig` sub command. These global configuration settings are common for both Cisco Intelligent Multi-Scan and Graymail Detection and Safe Unsubscribing.
- To configure policy settings for graymail detection and safe unsubscribing, use the `policyconfig` command. For more information, see Create an Incoming Policy to Drop the Messages Identified as Bulk Email or Social Network Email, on page 258.

Usage

Commit: This command requires a 'commit'.

Cluster Management: This command can be used in all three machine modes (cluster, group, machine).

Batch Command: This command supports a batch format for graymail configuration. For more details, see the inline help by typing the command: help `imsandgraymailconfig`.

Example

The following examples demonstrates the configurations for Graymail Detection and Safe Unsubscribing and Intelligent Multi-Scan.

```
mail3.example.com> imsandgraymailconfig
```

```
Choose the operation you want to perform:
- GRAYMAIL - Configure Graymail Detection and Safe Unsubscribe settings
- MULTISCAN - Configure IronPort Intelligent Multi-Scan.
- GLOBALCONFIG - Common Global Configuration settings
[]> graymail
Graymail Detection: Disabled

Choose the operation you want to perform:
- SETUP - Configure Graymail.
[]> setup
Would you like to use Graymail Detection? [Y]> y

Would you like to enable automatic updates for Graymail engine? [Y]> y

Graymail Safe Unsubscribe: Disabled
Would you like to use Graymail Safe Unsubscribe? [Y]> y

Graymail Detection and Safe Unsubscribe is now enabled. Please note: The global settings
are recommended only for your DEFAULT mail policy. To configure policy settings, use the
incoming
or outgoing policy page on web interface or the 'policyconfig' command in CLI.

[]> multiscan
IronPort Intelligent Multi-Scan: Disabled

Choose the operation you want to perform:
- SETUP - Edit Intelligent Multi-Scan settings.
[]> setup

IronPort Intelligent Multi-Scan scanning: Disabled
Would you like to use IronPort Intelligent Multi-Scan scanning? [Y]> y
Would you like to enable regional scanning? [N]> n

Intelligent Multi-Scan scanning is now enabled on the system. Please note: you must issue
the 'policyconfig' command (CLI) or Mail Policies (GUI) to configure
Intelligent Multi-Scan scanning behavior for default and custom Incoming and Outgoing Mail
 Policies. This is recommended for your DEFAULT policy.

IronPort Intelligent Multi-Scan: Enabled

[]> globalconfig

Choose the operation you want to perform:
- SETUP - Configure Common Global settings
[]> setup

Increasing the following size settings may result in decreased performance.
Please consult documentation for size recommendations based on your environment.

Never scan message larger than: (Add a trailing K for kilobytes,
M for megabytes, or no letters for bytes.)
[1M]>

Always scan message smaller than: (Add a trailing K for kilobytes,
M for megabytes, or no letters for bytes.)
[512K]>

Timeout for Scanning Single Message(in seconds):
[60]>
[]>
```

graymailstatus

Description

Display the details of the existing graymail rules.

Usage

Commit: This command does not require a 'commit'.

Cluster Management: This command can be used in all three machine modes (cluster, group, machine).

Batch Command: This command does not support a batch format

Example

```
mail.example.com> graymailstatus
Component            Version         Last Updated
Graymail Engine      01.378.53       Never Updated
Graymail Rules       01.378.53#15    Never updated
Graymail Tools       1.0.03          Never updated
```

graymailupdate

Description

Manually request update of the graymail rules.

Usage

Commit: This command does not require a 'commit'.

Cluster Management: This command can be used in all three machine modes (cluster, group, machine).

Batch Command: This command does not support a batch format

Example

```
mail.example.com> graymailupdate
```

Requesting check for new Graymail updates.

incomingrelayconfig

Description

Use the **incomingrelayconfig** command to enable and configure the Incoming Relays feature. In the following examples, the Incoming Relays feature is first enabled, and then two relays are added, one is modified, and one is deleted.

Usage

Commit: This command requires a ‘commit’.

Cluster Management: This command can be used in all three machine modes (cluster, group, machine).

Batch Command: This command does not support a batch format.

Example: Enabling Incoming Relays - Configuring an Incoming Relay

```
mail3.example.com> incomingrelayconfig
Incoming relays: Disabled
Choose the operation you want to perform:
- SETUP - Edit update configuration.
- RELAYLIST - Configure incoming relays.
[]> setup
This command helps your Cisco IronPort appliance determine the sender's
originating IP address.
You should ONLY enable this command if your Cisco IronPort appliance is NOT
directly connected to the Internet as the "first hop" in your email
infrastructure.
You should configure this feature if other MTAs or servers are configured at
your network's perimeter to relay mail to your Cisco IronPort appliance.
Do you want to enable and define incoming relays? [N]> y
Incoming relays: Enabled
Choose the operation you want to perform:
- SETUP - Edit update configuration.
- RELAYLIST - Configure incoming relays.
[]> relaylist
There are no relays defined.
Choose the operation you want to perform:
- NEW - Create a new entry
[]> new
Enter a name for this incoming relay (Ex: "first-hop")
[]> first-hop
Enter the IP address of the incoming relay.  IPv4 and IPv6 addresses are supported.
For IPv4, CIDR format subnets such as 10.1.1.0/24, IP address ranges such as 10.1.1.10-20,
 and subnets such as 10.2.3. are allowed.
For IPv6, CIDR format subnets such as 2001:db8::/32 and IP address ranges such as
2001:db8::1-2001:db8::11 are allowed.
Hostnames such as crm.example.com and partial hostnames such as .example.com are allowed.
[]> 192.168.1.1
Do you want to use the "Received:" header or a custom header to determine the originating
IP address?
1. Use "Received:" header
2. Use a custom header
[1]> 1
Within the "Received:" header, enter the special character or string after which to begin
parsing for the originating IP address:
[from]> [
Within the headers, enter the position of the "Received:" header that contains the originating
 IP address:
[1]> 1
There is 1 relay defined.
Choose the operation you want to perform:
- NEW - Create a new entry
- EDIT - Modify an entry
- DELETE - Remove an entry
- PRINT - Display the table
[]> print
Incoming                                    Header          Match
relay name:    IP address:                  to parse:       after:      Hops:
```

```
-----------    -----------                    ---------       ------      -----
first-hop      192.168.1.1                    Received        [           1
There is 1 relay defined.
Choose the operation you want to perform:
- NEW - Create a new entry
- EDIT - Modify an entry
- DELETE - Remove an entry
- PRINT - Display the table
[]> new
Enter a name for this incoming relay (Ex: "first-hop")
[]> second-hop
Enter the IP address of the incoming relay.  IPv4 and IPv6 addresses are supported.
For IPv4, CIDR format subnets such as 10.1.1.0/24, IP address ranges such as 10.1.1.10-20,
 and subnets such as 10.2.3. are allowed.
For IPv6, CIDR format subnets such as 2001:db8::/32 and IP address ranges such as
2001:db8::1-2001:db8::11 are allowed.
Hostnames such as crm.example.com and partial hostnames such as .example.com are allowed.
[]> 192.168.1.2
Do you want to use the "Received:" header or a custom header to determine the originating
IP address?
1. Use "Received:" header
2. Use a custom header
[1]> 2
Enter the custom header name that contains the originating IP address:
[]> x-Connecting-IP
There are 2 relays defined.
Choose the operation you want to perform:
- NEW - Create a new entry
- EDIT - Modify an entry
- DELETE - Remove an entry
- PRINT - Display the table
[]> print
Incoming                                      Header          Match
relay name:    IP address:                    to parse:       after:      Hops:
-----------    -----------                    ---------       ------      -----
first-hop      192.168.1.1                    Received        [           1
second-hop     192.168.1.2                    x-Connecting-IP n/a         n/a
There are 2 relays defined.
Choose the operation you want to perform:
- NEW - Create a new entry
- EDIT - Modify an entry
- DELETE - Remove an entry
- PRINT - Display the table
[]> delete
1. first-hop:      192.168.1.1
2. second-hop:     192.168.1.2
Enter the number of the entry you wish to delete:
[1]> 1
Incoming relay "first-hop" deleted.
There is 1 relay defined.
Choose the operation you want to perform:
- NEW - Create a new entry
- EDIT - Modify an entry
- DELETE - Remove an entry
- PRINT - Display the table
[]>
```

slblconfig

Description

Configure End-User Safelist/Blocklist.

Note Safelists/Blocklists must be enabled on the appliance via the GUI in order to run this command.

Usage

Commit: This command does not require a ‘commit’.

Batch Command: This command supports a batch format.

Batch Format - Import

Batch Format

Replaces all entries in the End-User Safelist/Blocklist with entries present in the specified file.

```
slblconfig import <filename> <ignore invalid entries>
```

- filename - Name of the file that has to be imported. The file must be in the /configuration directory on the email gateway.
- ignore invalid entries - Whether to ignore invalid entries or not. Either 'Yes' or 'No.'

Batch Format - Export

Exports all entries in the End-User Safelist/Blocklist to a file the email gateway.

```
slblconfig export
```

The email gateway saves a .CSV file to the /configuration directory using the following naming convention:

slbl<timestamp><serial number>.csv.

Example - Importing Safelist/Blocklist Entries

```
mail.example.com>
slblconfig
End-User Safelist/Blocklist: Enabled
Choose the operation you want to perform:
- IMPORT - Replace all entries in the End-User Safelist/Blocklist.
- EXPORT - Export all entries from the End-User Safelist/Blocklist.
[]>
import
Currently available End-User Safelist/Blocklist files:
1. slbl.csv
Choose the file to import from.
[1]>
1
Do you want to ignore invalid entries? [Y]>
Y
End-User Safelist/Blocklist import has been initiated...
Please wait while this operation executes.
End-User Safelist/Blocklist successfully imported.
```

```
Choose the operation you want to perform:
- IMPORT - Replace all entries in the End-User Safelist/Blocklist.
- EXPORT - Export all entries from the End-User Safelist/Blocklist.
[]>
```

Anti-Virus

This section contains the following CLI commands:

antivirusconfig

Description

Configure anti-virus policy.

Usage

Commit: This command requires a 'commit'.

Cluster Management: This command can be used in all three machine modes (cluster, group, machine).

Batch Command: This command does not support a batch format.

Example

In the following example, the `antivirusconfig` command is used to enable Sophos virus scanning on the system and set the time-out value to 60 seconds. To configure the update server, update interval, and optional proxy server, see updateconfig, on page 146.

Note The first time you invoke the `antivirusconfig` command, you may be presented with a license agreement, if you did not accept the license during the `systemsetup` command. If you do not accept the license agreement, the Sophos virus scanning engine will not be enabled on the email gateway.

```
mail3.example.com> antivirusconfig

Choose the operation you want to perform:
- SOPHOS - Configure Sophos Anti-Virus.
- MCAFEE - Configure McAfee Anti-Virus.
[]> sophos

Sophos Anti-Virus: Disabled

Choose the operation you want to perform:

- SETUP - Configure Sophos Anti-Virus.

[]> setup

Sophos Anti-Virus scanning: Disabled

Would you like to use Sophos Anti-Virus scanning? [Y]> y
```

```
(First time users see the license agreement displayed here.)

Please specify the Anti-Virus scanning timeout (in seconds)
[60]> 60

Would you like to enable automatic updates for Sophos engine? [Y] > Y

Sophos Anti-Virus scanning is now enabled on the system.

Please note: you must issue the 'policyconfig' command (CLI) or Mail
Policies (GUI) to configure Sophos Anti-Virus scanning behavior for default and custom
Incoming and Outgoing Mail Policies.
This is recommended for your DEFAULT policy.

Sophos Anti-Virus: Enabled
Choose the operation you want to perform:

- SETUP - Configure Sophos Anti-Virus.
[]>
```

Example: Enabling StrongPDF on Sophos Anti-Virus Engine

In the following example, you can use the `antivirusconfig > PDF` sub command to enable the strongPDF option on the Sophos Anti-Virus engine in your email gateway.

```
mail.example.com> antivirusconfig

Choose the operation you want to perform:
- SOPHOS - Configure Sophos Anti-Virus.
- MCAFEE - Configure McAfee Anti-Virus.
[]> sophos

Sophos Anti-Virus: Enabled
Choose the operation you want to perform:
- SETUP - Configure Sophos Anti-Virus.
- PDF - Scanning of PDF files by Sophos Anti-Virus
engine.
[]> pdf

Currently, clean files that are corrupted  because
of 'EOF missing,'etc. are marked as 'Clean' by the
Sophos Anti-Virus engine.

Do you want to mark a clean file that is corrupted
as clean? [Y]> no

Sophos Anti-Virus: Enabled

Choose the operation you want to perform:
- SETUP - Configure Sophos Anti-Virus.
- PDF - Scanning of PDF files by Sophos Anti-Virus engine.
[]>

Choose the operation you want to perform:
- SOPHOS - Configure Sophos Anti-Virus.
- MCAFEE - Configure McAfee Anti-Virus.
[]>

mail.example.com> commit

Please enter some comments describing your changes:
[]>
```

```
Do you want to save the current configuration for
rollback? [Y]>

Changes committed: Tue May 12 17:59:55 2020 GMT
```

Example: Disabling StrongPDF on Sophos Anti-Virus Engine

In the following example, you can use the `antivirusconfig > PDF` sub command to disable the strongPDF option on the Sophos Anti-Virus engine in your email gateway.

```
mail.example.com> antivirusconfig

Choose the operation you want to perform:
- SOPHOS - Configure Sophos Anti-Virus.
- MCAFEE - Configure McAfee Anti-Virus.
[]> sophos

Sophos Anti-Virus: Enabled

Choose the operation you want to perform:
- SETUP - Configure Sophos Anti-Virus.
- PDF - Scanning of PDF files by Sophos
Anti-Virus engine.
[]> pdf

Currently, clean files that are corrupted
because of 'EOF missing,'etc. are marked as
'Unscannable' by the Sophos Anti-Virus engine.

Do you want to mark a clean file that is
corrupted as clean? [N]> yes

Sophos Anti-Virus: Enabled

Choose the operation you want to perform:
- SETUP - Configure Sophos Anti-Virus.
- PDF - Scanning of PDF files by Sophos Anti-Virus engine.
[]>

Choose the operation you want to perform:
- SOPHOS - Configure Sophos Anti-Virus.
- MCAFEE - Configure McAfee Anti-Virus.
[]>

mail.example.com> commit

Please enter some comments describing your
changes:
[]>

Do you want to save the current configuration
for rollback? [Y]>

Changes committed: Tue May 12 18:13:46 2020 GMT
```

Viewing Anti-Virus IDE Details

AsyncOS provides detailed status on the specific anti-virus signature files (IDE files) that have been downloaded by the email gateway. You can access these details using the **`antivirusconfig -> detail`** subcommand. For example:

```
mail3.example.com> antivirusconfig
Choose the operation you want to perform:
- SOPHOS - Configure Sophos Anti-Virus.
- MCAFEE - Configure McAfee Anti-Virus.
[]> sophos
Sophos Anti-Virus: Enabled
Choose the operation you want to perform:
- SETUP - Configure Sophos Anti-Virus.
- STATUS - View Sophos Anti-Virus status.
- DETAIL - View Sophos Anti-Virus detail.
[]> detail
Sophos Anti-Virus:
Product - 3.87
Engine - 2.25.0
Product Date - 01 Nov 2004
Sophos IDEs currently on the system:
   'Mkar-E.Ide'           Virus Sig. - 23 Dec 2004 01:24:02
   'Rbot-Sd.Ide'          Virus Sig. - 22 Dec 2004 19:10:06
   'Santy-A.Ide'          Virus Sig. - 22 Dec 2004 06:16:32
   'Bacbanan.Ide'         Virus Sig. - 21 Dec 2004 18:33:58
   'Rbot-Sb.Ide'          Virus Sig. - 21 Dec 2004 14:50:46
   'Rbotry.Ide'           Virus Sig. - 21 Dec 2004 06:13:40
   'Sdbot-Si.Ide'         Virus Sig. - 20 Dec 2004 20:52:04
   'Oddbob-A.Ide'         Virus Sig. - 19 Dec 2004 23:34:06
   'Rbot-Rw.Ide'          Virus Sig. - 19 Dec 2004 00:50:34
   'Wortd.Ide'            Virus Sig. - 18 Dec 2004 07:02:44
   'Delf-Jb.Ide'          Virus Sig. - 17 Dec 2004 22:32:08
[...command continues...]
```

antivirusstatus

Description

Display Anti-Virus status.

Usage

Commit: This command does not require a ‘commit’.

Cluster Management: This command can be used in all three machine modes (cluster, group, machine).

Batch Command: This command does not support a batch format.

Example

```
mail3.example.com> antivirusstatus
Choose the operation you want to perform:
- MCAFEE - Display McAfee Anti-Virus version information
- SOPHOS - Display Sophos Anti-Virus version information
[]> sophos
    SAV Engine Version        3.85
    IDE Serial                2004101801
 Engine Update        Mon Sep 27 14:21:25 2004
    Last IDE Update           Mon Oct 18 02:56:48 2004
    Last Update Attempt       Mon Oct 18 11:11:44 2004
    Last Update Success       Mon Oct 18 02:56:47 2004
```

antivirusupdate

Description

Manually update virus definitions.

Usage

Commit: This command does not require a 'commit'.

Cluster Management: This command is restricted to machine mode. It is further restricted to the login host (i.e., the specific machine you are logged onto).

Batch Command: This command does not support a batch format.

Example

```
mail3.example.com> antivirusupdate
Choose the operation you want to perform:
- MCAFEE - Request updates for McAfee Anti-Virus
- SOPHOS - Request updates for Sophos Anti-Virus
[]> sophos
Requesting update of virus definitions
mail3.example.com>
```

Command Line Management

This section contains the following CLI commands:

commit

Description

Commit changes. Entering comments after the commit command is optional.

Usage

Commit: N/A

Cluster Management: This command can be used in all three machine modes (cluster, group, machine).

Batch Command: This command does not support a batch format.

Example

```
mail3.example.com> commit
Please enter some comments describing your changes:
[]> Changed "psinet" IP Interface to a different IP ad dress
Do you want to save the current configuration for rollback? [Y]> n
Changes committed: Fri May 23 11:42:12 2014 GMT
```

commitdetail

Description

Display detailed information about the last commit.

Usage

Commit: This command does not require a 'commit'.

Cluster Management: This command can be used in all three machine modes (cluster, group, machine).

Batch Command: This command does not support a batch format.

Example

```
mail3.example.com> commitdetail
Commit at Mon Apr 18 13:46:28 2005 PDT with comments: "Enabled loopback".
mail3.example.com>
```

clearchanges or clear

Description

The **clear** command clears any configuration changes made since the last commit or clear command was issued.

Usage

Commit: This command does not require a 'commit'.

Cluster Management: This command can be used in all three machine modes (cluster, group, machine).

Batch Command: This command does not support a batch format

Example

```
mail3.example.com> clear
Are you sure you want to clear all changes since the last commit?  [Y]> y
Changes cleared: Mon Jan 01 12:00:01 2003
mail3.example.com>
```

help or h or ?

Description

The **help** command lists all available CLI commands and gives a brief description of each command. The **help** command can be invoked by typing either help or a single question mark (?) at the command prompt.

Usage

Commit: This command does not require a ‘commit’.

Cluster Management: This command can be used in all three machine modes (cluster, group, machine).

Batch Command: This command does not support a batch format

Example

```
mail3.example.com> help
Displays the list of all available commands.
```

rollbackconfig

The **rollbackconfig** command allows you to rollback to one of the previously committed 10 configurations.

Usage

Commit: This command requires a ‘commit’.

Cluster Management: This command is restricted to machine mode.

Batch Command: This command does not support a batch format.

Example

```
mail.example.com> rollbackconfig
Previous Commits:
    Committed On                 User                Description
-------------------------------------------------------------------------------
1. Fri May 23 06:53:43 2014      admin               new user
2. Fri May 23 06:50:57 2014      admin               rollback
3. Fri May 23 05:47:26 2014      admin
4. Fri May 23 05:45:51 2014      admin               edit user
Enter the number of the config to revert to.
[]> 2
Are you sure you want to roll back the configuration? [N]> y
Reverted to Fri May 23 06:50:57 2014      admin              rollback
Do you want to commit this configuration now? [N]> y
Committed the changes successfully
```

quit or q or exit

Description

The **quit** command logs you out of the CLI application. Configuration changes that have not been committed are cleared. The **quit** command has no effect on email operations. Logout is logged into the log files. (Typing exit is the same as typing quit.)

Usage

Commit: This command does not require a ‘commit’.

Cluster Management: This command can be used in all three machine modes (cluster, group, machine).

Batch Command: This command does not support a batch format

Example

```
mail3.example.com> quit
Configuration changes entered but not committed.  Exiting will lose changes.
Type 'commit' at the command prompt to commit changes.
Are you sure you wish to exit?  [N]> Y
```

Configuration File Management

This section contains the following CLI commands:

loadconfig

Description

Load a configuration file.

Note Loading configuration on clustered machines is supported only using GUI. For instructions, see *User Guide for AsyncOS for Cisco Secure Email Gateway* .

Usage

Commit: This command requires a ‘commit’.

Cluster Management: This command can be used in all three machine modes (cluster, group, machine).

Batch Command: This command does not support a batch format

Example

In this example, a new configuration file is imported from a local location.

```
mail3.example.com> loadconfig
1. Paste via CLI
2. Load from file
[1]> 2
Enter the name of the file to import:
[]> changed.config.xml
Values have been loaded.
Be sure to run "commit" to make these settings active.
mail3.example.com> commit
Please enter some comments describing your changes:
[]> loaded new configuration file
Do you want to save the current configuration for rollback? [Y]> n
Changes committed: Fri May 23 11:42:12 2014 GMT
```

In this example, a new configuration file is pasted directly at the command line. (Remember to type Control-D on a blank line to end the paste command.) Then, the system setup wizard is used to change the default hostname, IP address, and default gateway information. Finally, the changes are committed.

```
mail3.example.com> loadconfig
1. Paste via CLI
2. Load from file
[1]> 1
Paste the configuration file now.
Press CTRL-D on a blank line when done.
[The configuration file is pasted until the end tag
</config>
. Control-D is entered on a separate line.]
Values have been loaded.
Be sure to run "commit" to make these settings active.
mail3.example.com> systemsetup
[The system setup wizard is run.]
mail3.example.com> commit
Please enter some comments describing your changes:
[]> pasted new configuration file and changed default settings via
systemsetup
Do you want to save the current configuration for rollback? [Y]> n
Changes committed: Fri May 23 11:42:12 2014 GMT
```

mailconfig

Description

To test the configuration, you can use the **mailconfig** command immediately to send a test email containing the system configuration data you just created with the **systemsetup** command.

Usage

Commit: This command does not require a 'commit'.

Cluster Management: This command can be used in all three machine modes (cluster, group, machine).

Batch Command: This command does not support a batch format

Example

```
mail.example.com> mailconfig
Please enter the email address to which you want to send the configuration file.
Separate multiple addresses with commas.
[]> user@example.com
Choose the passphrase option:
1. Mask passphrases (Files with masked passphrases cannot be loaded using loadconfig command)
2. Encrypt passphrases
3. Plain passphrases
[1]> 2
The configuration file has been sent to user@example.com.
```

Send the configuration to a mailbox to which you have access to confirm that the system is able to send email on your network.

Note For enhanced security, if encryption of sensitive data in the email gateway is enabled in fipsconfig command, you cannot use Plain passwords option.

resetconfig

Description

When physically transferring the email gateway, you may want to start with factory defaults. The r esetconfig command resets *all* configuration values to factory defaults. This command is extremely destructive, and it should only be used when you are transferring the unit or as a last resort to solving configuration issues. It is recommended you run the systemsetup command after reconnecting to the CLI after you have run the resetconfig command.

Note The resetconfig command only works when the email gateway is in the offline state. When the resetconfig command completes, the email gateway is automatically returned to the online state, even before you run the systemsetup command again. If mail delivery was suspended before you issued the resetconfig command, the mail will attempt to be delivered again when the resetconfig command completes.

Danger The resetconfig command will return all network settings to factory defaults, potentially disconnecting you from the CLI, disabling services that you used to connect to the email gateway (FTP, Telnet, SSH, HTTP, HTTPS), and even removing additional user accounts you created with the userconfig command. Do not use this command if you are not able to reconnect to the CLI using the Serial interface or the default settings on the Management port through the default Admin user account.

Usage

Commit: This command does not require a ‘commit’.

Cluster Management: This command is restricted to machine mode. It is further restricted to the login host (i.e., the specific machine you are logged onto). This command requires access to the local file system.

Batch Command: This command does not support a batch format.

Example

```
mail3.example.com> suspend
Delay (seconds, minimum 30):
[30]> 45
Waiting for listeners to exit...
Receiving suspended.
Waiting for outgoing deliveries to finish...
Mail delivery suspended.
mail3.example.com>
resetconfig
```

```
Are you sure you want to reset all configuration values? [N]> Y
All settings have been restored to the factory default.
```

saveconfig

Description

The **saveconfig** command saves the configuration file with a unique filename to the configuration directory.

Note If you are on a clustered environment, this command saves the complete cluster configuration. To run this command on a clustered machine, change your configuration mode to cluster.

Usage

Commit: This command does not require a 'commit'.

Cluster Management: This command can be used in all three machine modes (cluster, group, machine).

Batch Command: This command does not support a batch format

Example

In the following example, the passphrases in the configuration file is encrypted and saved in the configuration directory.

```
mail.example.com> saveconfig
Choose the passphrase option:
1. Mask passphrases (Files with masked passphrases cannot be loaded using loadconfig command)
2. Encrypt passphrases

[1]> 2
File written on machine "mail.example.com" to the location
"/configuration/C100V-4232116C4E14C70C4C7F-7898DA3BD955-20140319T050635.xml".
Configuration saved.
```

Note For enhanced security, if encryption of sensitive data in the email gateway is enabled in fipsconfig command, you cannot use Plain passwords option.

showconfig

Description

The `showconfig`command prints the current configuration to the screen.

You can view the status of the license using this command. This command retrieves the status of all the features, and the *Time Remaining* parameter displays the number of days left before the expiry of the feature license.

Note After you enable and register the Smart License, you can use the `license_smart > summary` subcommand to view the status of the feature, whether it is active or expired. If the subcommand displays *In Compliance*, then the license has not yet expired and is in active state. You may execute the `showconfig` command and check the *Time Remaining* parameter to determine the number of days left before the expiry of the feature license.

Usage

Commit: This command does not require a 'commit'.

Cluster Management: This command can be used in all three machine modes (cluster, group, machine).

Batch Command: This command does not support a batch format

Example

In the following example, the configuration is displayed on CLI and the passphrases in the configuration are encrypted.

```
mail.example.com> showconfig
Choose the passphrase display option:
1. Mask passphrases (Files with masked passphrases cannot be loaded using loadconfig command)
2. Encrypt passphrases
3. Plain passphrases
[1]> 2
<?xml version="1.0" encoding="ISO-8859-1"?>
<!DOCTYPE config SYSTEM "config.dtd">
<!--
  Product: Cisco C100V Email Security Virtual Appliance
  Model Number: C100V
  Version: 9.0.0-038
  Serial Number: 4232116C4E14C70C4C7F-7898DA3BD955
  Number of CPUs: 2
  Memory (MB): 6144
  Current Time: Wed Mar 19 05:30:05 2014
-->
<config>
<!--
*******************************************************************************
*                           Network Configuration                             *
*******************************************************************************
-->[The remainder of the configuration file is printed to the screen.]
```

Note For enhanced security, if encryption of sensitive data in the email gateway is enabled in fipsconfig command, you cannot use Plain passwords option.

Configuring Email Gateway to Consume External Threat Feeds

- threatfeedconfig, on page 55
- threatfeedstatus, on page 58

• threatfeedupdate, on page 59

threatfeedconfig

• Description, on page 55
• Usage, on page 55
• Example - Adding an External Threat Feed Source, on page 56
• Example - Adding a XDR Feeds Source, on page 57

Description

The `threatfeedconfig` command is used to

- Enable the ETF engine in your email gateway.
- Configure an ETF source in your email gateway.
- Configure a XDR feeds source in your email gateway.

Usage

Commit: This command requires a 'commit'.

Cluster Management: This command can be used in all three machine modes (cluster, group, machine).

Batch Command: This command does not support a batch format.

Example - Enabling the External Threat Feeds Engine

In the following example, you can use the `setup` subcommand to enable the ETF engine on your email gateway.

```
mail.example.com> threatfeedconfig

Choose the operation you want to perform:
- SETUP - Configure External Threat Feeds.
- SOURCECONFIG - Configure an external threat feed source.

[]> setup
External Threat Feeds: Enabled
Would you like to use External Threat Feeds? [Y]> yes
Do you want to add a custom header to the message in the case of an External Threat Feeds
Lookup Failure? [N]> yes
Enter the header name:
[X-IronPort-ETF-Lookup-Failure]>

Enter the header content:
[true]>
Choose the operation you want to perform:
- SETUP - Configure External Threat Feeds.
- SOURCECONFIG - Configure an external threat feed source.

[]>
```

Example - Adding an External Threat Feed Source

In the following example, you can use the `sourceconfig` subcommand to add an ETF source on your email gateway.

```
mail.example.com > threatfeedconfig
Choose the operation you want to perform:

- SOURCECONFIG - Configure an external threat feed source.
[]> sourceconfig
Choose the operation you want to perform:
- ADD - Add a Source.
- LIST - List out all the sources.
- DETAIL - Get detailed information about a source.
- EDIT - Edit a source.
- SUSPEND - Suspend a source.
- RESUME - Resume a source.
- DELETE - Delete a source.

[]> add
Choose the operation you want to perform:
- POLL URL - Add an external threat feed source using the polling path and collection name.
[]> poll url
Enter a name for the external threat feed source:
[]> test_source
Enter a description for the external threat feed source (optional):
[]> test_source
Enter the host name for the external threat feed source:
[]> hailataxii.com
Enter the polling path for the external threat feed source:
[]> /taxii-data
Enter the collection name for the external threat feed source:
[]> guest.Abuse_ch
Enter the polling interval:
The polling interval can be an alphanumeric value that consists of a combination of
minutes, hours, or days followed by 'm','h' or 'd' suffixes. The numeric
values that are not entered with a suffix are considered as minutes by default. The
minimum value is 15 minutes.
[60m]> 30

Enter the age of the threat feed:
The value for the age must be between 1 and 365 days. Enter the age of the threat feed
that you want to fetch from the TAXII server. For example, if the age
is 30 days, the appliance fetches all threat feeds whose age is up to 30 days only.
[30]> 20

Enter the time span for each poll segment:
The age of threat feeds for a poll can be split into different poll segments based
on the time span entered.
The minimum time span for a poll segment is 1 day. The maximum time span for a
poll segment is the value entered in the 'Age of Threat Feeds' field.
For example, if the age of the threat feeds is 30 days and the TAXII server has a fixed
limit on
the age of threat feeds (for example, '20 days'), enter the fixed limit, which must be less
 than
the age of the threat feeds configured on your appliance.
[30]> 5

Do you want to use HTTPS? [Y]> yes
Enter the polling port:
[443]> 443
Do you want to use a proxy server for the threat feed source? [N]> no
Do you want to configure user credentials for the external threat feed source? [Y]> no
test_source successfully added.
```

Example - Adding a XDR Feeds Source

In the following example, you can use the `threatfeedconfig` > `sourceconfig` sub command to add a XDR feeds source in your email gateway.

Note The XDR feeds source is different from a typical TAXII feeds source. However, to enable polling of observables from the XDR server, you must map the XDR feed URL to the following TAXII source parameters.

- Hostname
- Polling Path
- Collection Name

For Example: The following is a sample XDR feed URL created in the XDR portal.

<https://private.intel.amp.cisco.com/ctia/feed/feed-d78e1eba-cbe6-5

e13-8d47-197b344e41c9/view.txt?s=e8f3f519-9170-4b76-8b58 bda0be540ff3>

You can map the sample XDR feed URL details to the following TAXII source parameters:

- **Hostname** - consists of the "*private.intel.amp.cisco.com*" part of the XDR feed URL.
- **Polling Path** -: consists of the "*/ctia/feed/feed-d78e1eba-cbe6-5e13-8d47-197b344e41c9/view*" part of the XDR feed URL.

  Note Do not include the "*.txt*" part of the XDR feed URL in the Polling Path.

- **Collection Name** - consists of "*e8f3f519-9170-4b76-8b58-bda0be540ff3*" part of the XDR feed URL.

Using the above example, you can configure the 'Hostname,' 'Polling Path,' and 'Collection Name' parameters.

```
mail.example.com > threatfeedconfig
Choose the operation you want to perform:
- SOURCECONFIG - Configure an external threat feed source.
[]> sourceconfig

Choose the operation you want to perform:
- ADD - Add a Source.
- LIST - List out all the sources.
- DETAIL - Get detailed information about a source.
- EDIT - Edit a source.
- SUSPEND - Suspend a source.
- RESUME - Resume a source.
- DELETE - Delete a source.
[]> add

Choose the operation you want to perform:
- POLL URL - Add an external threat feed source using the polling path and collection name.
[]> poll url
```

```
Enter a name for the external threat feed source:
[]> xdr_ctr_source
Enter a description for the external threat feed source (optional):
[]> XDR source

Enter the host name for the external threat feed source:
[]> private.intel.amp.cisco.com

Enter the polling path for the external threat feed source:
[]> /ctia/feed/feed-d78e1eba-cbe6-5e13-8d47-197b344e41c9/view

Enter the collection name for the external threat feed source:
[]> e8f3f519-9170-4b76-8b58-bda0be540ff3

Enter the polling interval:
The polling interval can be an alphanumeric value that consists of a combination of
minutes, hours, or days followed by 'm','h' or 'd' suffixes. The numeric
values that are not entered with a suffix are considered as minutes by default. The
minimum value is 15 minutes.
[60m]>

Enter the age of the threat feed:
The value for the age must be between 1 and 365 days. Enter the age of the threat feed
that you want to fetch from the TAXII server. For example, if the age
is 30 days, the appliance fetches all threat feeds whose age is up to 30 days only.
[30]>

Enter the time span for each poll segment:
The age of threat feeds for a poll can be split into different poll segments based
on the time span entered.
The minimum time span for a poll segment is 1 day. The maximum time span for a
poll segment is the value entered in the 'Age of Threat Feeds' field.
For example, if the age of the threat feeds is 30 days and the TAXII server has a fixed
limit on
the age of threat feeds (for example, '20 days'), enter the fixed limit, which must be less
 than
the age of the threat feeds configured on your appliance.
[30]>

Do you want to use HTTPS? [Y]> yes
Enter the polling port:
[443]> 443

Do you want to use a proxy server for the threat feed source? [N]> no

Do you want to configure user credentials for the external threat feed source? [Y]> no

xdr_ctr_source successfully added.
```

threatfeedstatus

- Description, on page 58
- Usage, on page 59
- Example - Viewing Current Version of External Threat Feeds Engine, on page 59

Description

The `threatfeedstatus` command is used to display the current version of the ETF engine.

Usage

Commit: This command does not require a 'commit'.

Cluster Management: This command can be used in all three machine modes (cluster, group, machine).

Batch Command: This command does not support a batch format.

Example - Viewing Current Version of External Threat Feeds Engine

In the following example, you can use the `threatfeedstatus` command to view the current version of the ETF engine.

```
mail.example.com> threatfeedstatus
Component                      Version            Last Updated
External ThreatFeeds           1.0.0-0000001      2 Jul 2018 04:22 (GMT +00:00)
```

threatfeedupdate

- Description, on page 59
- Usage, on page 59
- Example - Manually Updating External Threat Feeds Engine, on page 59

Description

The `threatfeedupdate` command is used to manually update the ETF engine.

Usage

Commit: This command does not require a 'commit'.

Cluster Management: This command can be used in all three machine modes (cluster, group, machine).

Batch Command: This command does not support a batch format.

Example - Manually Updating External Threat Feeds Engine

In the following example, you can use the `threatfeedupdate` command to manually update the ETF engine.

```
mail.example.com > threatfeedupdate

Requesting check for new External Threat Feeds updates.
```

Cluster Management

This section contains the following CLI commands:

clusterconfig

Description

The **clusterconfig** command is used to configure cluster-related settings. If this machine is not part of a cluster, running clusterconfig will give you the option of joining a cluster or creating a new cluster.

The **clusterconfig** command provides additional subcommands:

Non-Cluster Commands

The following commands are available when you are not in a cluster.

- clusterconfig new <name> — This will create a new cluster with the given name. This machine will be a member of this cluster and a member of a default cluster group called "Main Group".

  <name> - The name of the new cluster.

- **clusterconfig join [--port=xx] <ip_of_remote_cluster> [<admin_password>]<groupname>** — This will add this machine to a cluster.

  where:

  <ip_of_remote_cluster> - The IP address of another machine in the cluster.

  <admin_password > - The admin password of the cluster. This should not be

  specified if joining over CCS.

  <groupname> - The name of the group to join.

  <port> - The port of the remote machine to connect to (defaults to 22).

- **clusterconfig prepjoin print**

  This will display the information needed to prepare the joining of this machine to a cluster over a CCS port.

Cluster Commands

The following commands are available when you are in a cluster.

- clusterconfig addgroup <groupname> — Creates a new cluster group. The group starts off with no members.
- clusterconfig renamegroup <old_groupname> <new_groupname> — Change the name of a cluster group.
- clusterconfig deletegroup <groupname> [new_groupname] — Remove a cluster group.

  <groupname> - Name of the cluster group to remove.

  <new_groupname> - The cluster group to put machines of the old group into.

- clusterconfig setgroup <machinename> <groupname> — Sets (or changes) which group a machine is a member of.

  <machinename > - The name of the machine to set.

  <groupname> - The group to set the machine to.

- clusterconfig removemachine <machinename> — Remove a machine from the cluster.

- clusterconfig setname <name> — Changes the name of the cluster to the given name.
- clusterconfig list — Display all the machines currently in the cluster.
- clusterconfig connstatus — Display all the machines currently in the cluster and add routing details for disconnected machines.
- clusterconfig disconnect <machinename> — This will temporarily detach a machine from the cluster.

  <machinename> - The name of the machine to disconnect.

- clusterconfig reconnect <machinename> - This will restore connections with machines that were detached with the “disconnect” command.
- clusterconfig prepjoin new <serial_number> <hostname> <user_key> — This will add a new host that is to join the cluster over the CCSport.

  <serial_number> - The serial number of the machine being added.

  <hostname> - The host name of the machine being added.

  <user_key> - The SSH user key from the "prepjoin print" command from the joining machine.

- clusterconfig prepjoin delete <serial_number|hostname> — This will remove a host that was previously indicated to be added from the "prepjoin new" command. This is only necessary to be used if you later decide not to add the host. When a host is successfully added to the cluster, its prepjoin information is automatically removed.

Usage

Commit: This command does not require a ‘commit’.

Cluster Management: This command is restricted to cluster mode.

Batch Command: This command does not support a batch format.

Example

For an explanation of the clusterconfig command and its uses, see *User Guide for AsyncOS for Cisco Secure Email Gateway* .

Data Loss Prevention

This section contains the following CLI commands:

dlpstatus

Request version information for DLP Engine.

Note DLP must already be configured via the DLP Global Settings page in the GUI before you can use the **`dlpstatus`** command.

Usage

Commit: This command does not require a 'commit'.

Cluster Management: This command is can be used at cluster, group or machine mode.

Batch Command: This command does not support a batch format.

Example

```
mail.example.com> dlpstatus

Component              Version    Last Updated
DLP Engine            3.0.2.31   Never updated
```

dlpupdate

Description

Update DLP Engine.

Note DLP must already be configured via the DLP Global Settings page in the GUI before you can use the **dlpupdate** command.

Usage

Commit: This command does not require a 'commit'.

Cluster Management: This command is can be used at cluster, group or machine mode.

Batch Command: This command supports a batch format.

Batch Format

The batch format of the dlpupdate command forces an update of the DLP engine even if no changes are detected.

```
dlpupdate [force]
```

Example

```
mail.example.com> dlpupdate

Checking for available updates. This may take a few seconds..

Could not check for available updates. Please check your Network and Service Updates settings
 and retry.

Choose the operation you want to perform:

- SETUP - Enable or disable automatic updates for DLP Engine.
```

```
[]> setup

Automatic updates for DLP are disabled

Do you wish to enable automatic updates for DLP Engine? [N]> y

Choose the operation you want to perform:

- SETUP - Enable or disable automatic updates for DLP Engine.

[]>
```

Domain Exception List

This section contains the following CLI command:

domainrepconfig

Description

The `domainrepconfig` command is used to create a Domain Exception List.

Usage

Commit: This command requires a 'commit'.

Cluster Management: This command can be used in all three machine modes (cluster, group, machine).

Batch Command: This command supports a batch format. For more details, see the inline help by typing the command: `help domainrepconfig`.

Example

In the following example, you can use the `domainrepconfig` command to create a Domain Exception List.

```
mail.example.com> domainrepconfig

Would you like to configure an exception list for Sender Domain Reputation and
External Threat Feeds functionality? [N]> yes

Select the domain only address list to to be used for Sender Domain Reputation
and External Threat Feeds functionality

1. addr_list

[1]> 1
```

S/MIME Security Services

smimeconfig

Description

Configure S/MIME settings such as sending profiles, managing public keys, and so on.

Usage

Commit: This command requires a 'commit'.

Cluster Management: This command can be used in all three machine modes (cluster, group, machine).

Batch Command: This command does not support a batch format.

Examples

Creating a Sending Profile for Signing and Encryption

The following example shows how to create a sending profile for signing and encrypting messages using S/MIME.

```
mail.example.com> smimeconfig
Choose the operation you want to perform:
- GATEWAY - Manage S/MIME gateway configuration.
[]> gateway
Choose the operation you want to perform:
- VERIFICATION - Manage S/MIME Public Keys.
- SENDING - Manage S/MIME gateway sending profiles.
[]> sending
Choose the operation you want to perform:
- NEW - Create a new S/MIME sending profile.
- EDIT - Edit a S/MIME sending profile.
- RENAME - Rename a S/MIME sending profile.
- DELETE - Delete a S/MIME sending profile.
- IMPORT - Import a S/MIME sending profile from a file
- EXPORT - Export a S/MIME sending profile to a file
- PRINT - Display S/MIME sending profiles.
[]> new
Enter a name for this profile:
> hr_sign_and_encrypt
1. Encrypt
2. Sign
3. Sign/Encrypt
4. Triple
Enter S/MIME mode:
[2]> 3
1. smime_signing
Select S/MIME certificate to sign:
[1]>
1. Detached
2. Opaque
Enter S/MIME sign mode:
[1]>
1. Bounce
```

```
2. Drop
3. Split
Enter S/MIME action:
[1]> 3
Choose the operation you want to perform:
- NEW - Create a new S/MIME sending profile.
- EDIT - Edit a S/MIME sending profile.
- RENAME - Rename a S/MIME sending profile.
- DELETE - Delete a S/MIME sending profile.
- IMPORT - Import a S/MIME sending profile from a file
- EXPORT - Export a S/MIME sending profile to a file
- PRINT - Display S/MIME sending profiles.
[]> print
S/MIME Sending Profiles
Name       Certificate      S/MIME Mode   Sign Mode  Action
---------  ---------------  ------------  ---------  --------
hr_sign_a  smime_signing   Sign/Encrypt     Detached      Split
Choose the operation you want to perform:
- NEW - Create a new S/MIME sending profile.
- EDIT - Edit a S/MIME sending profile.
- RENAME - Rename a S/MIME sending profile.
- DELETE - Delete a S/MIME sending profile.
- IMPORT - Import a S/MIME sending profile from a file
- EXPORT - Export a S/MIME sending profile to a file
- PRINT - Display S/MIME sending profiles.
[]>
```

Adding a Public Key for Encryption

The following example shows how to add the public key of the recipient's S/MIME certificate to the email gateway for encrypting messages.

```
mail.example.com> smimeconfig
Choose the operation you want to perform:
- GATEWAY - Manage S/MIME gateway configuration.
[]> gateway
Choose the operation you want to perform:
- VERIFICATION - Manage S/MIME Public Keys.
- SENDING - Manage S/MIME gateway sending profiles.
[]> verification
Choose the operation you want to perform:
- NEW - Create a new S/MIME Public Key.
- IMPORT - Import the list of S/MIME Public Keys from a file.
[]> new
Enter a name for this profile:
> hr_signing
1. Import
2. Paste
Choose one of the options for the certificate introducing:
[2]>
Paste public certificate in PEM format (end with '.'):
-----BEGIN CERTIFICATE-----
MIIDdDCCAlygAwIBAgIBDTANBgkqhkiG9w0BAQUFADCBljELMAkGA1UEBhMCSU4x
CzAJBgNVBAg...
-----END CERTIFICATE-----
.
C=IN,ST=KA,L=BN,O=Cisco,OU=stg,CN=cert_for_enc,emailAddress=admin@example.com
Choose the operation you want to perform:
- NEW - Create a new S/MIME Public Key.
- EDIT - Edit a S/MIME Public Key.
- RENAME - Rename a S/MIME Public Key.
- DELETE - Delete a S/MIME Public Key.
- IMPORT - Import the list of S/MIME Public Keys from a file.
```

```
- EXPORT - Export the list of S/MIME Public Keys to a file.
- PRINT - Display S/MIME Public Keys.
[]> print
S/MIME Public Keys
Name       Emails                    Domains                   Remaining
---------  ------------------------  ------------------------  ---------
hr_signin  admin@vm30bsd0008.ibqa    dns.vm30bsd0008.ibqa      145 days
```

Domain Keys

This section contains the following CLI commands:

domainkeysconfig

Description

Configure DomainKeys/DKIM support.

Usage

Commit: This command requires a ‘commit’.

Cluster Management: This command can be used in all three machine modes (cluster, group, machine).

Batch Command: This command supports a batch format.

Note For enhanced security, if encryption of sensitive data in the email gateway is enabled in FIPS mode, you will not be able view the private key. If you intend to edit the private key, you can enter an existing private key or generate a new private key.

Batch Format - Signing Profiles

The batch format of the domainkeysconfig command can be used to create, edit, or delete signing profiles

- Adding a DomainKeys/DKIM signing profile:

```
domainkeysconfig profiles signing new <name> <type> <domain> <selector> <user-list>
[options]
```

Table 1: domainkeysconfig New Signing Profile Arguments

Argument	Description
<name>	Name of domain profile.
<type>	Type of domain. Can be dk, dkim .
<domain>	Domain field of domain profile. This forms the d tag of the Domain-Keys signature.

Argument	Description
<selector>	Selector field of domain profile. This forms the s tag of the Domain-Keys signature.
<user-list>	Comma separated list of domain profile users. Users are used to match against email addresses to determine if a specific domain profile should be used to sign an email. Use the special keyword all to match all domain users.
[options]	
--key_name	The name of the private key that will be used for signing.
--canon	The canonicalization algorithm to use when signing by DK. Currently supported algorithms are simple and nofws . Default is nofws .
--body_canon	The body canonicalization algorithm of to use when signing by DKIM. Currently supported algorithms are simple and relaxed . Default is simple for DKIM and relaxed for ARC.
--header_canon	The headers canonicalization algorithm of to use when signing by DKIM. Currently supported algorithms are simple and relaxed . Default is simple for DKIM and relaxed for ARC.
--body_length	Number of bytes of canonicalized body that are used to calculate the signature. Is used only in DKIM profiles. If used this value becomes l tag of the signature. By default it is not used.
--headers_select	Detrmines how to select headers for signing. Is used only in DKIM profiles. Can be one of all , standard , standard_and_custom . all means to sign all non-repetitive headers. "standard" means to sign pedefined set of well known headers such as Subject, From, To, Sender, MIME heades etc. standard_and_custom means to sign well known headers and user-defined set of headers. Default is standard .
--custom_headers	User-defined set of headers to sign. Is used only in DKIM profiles if headers_select is standard_and_custom . Default is empty set.
--i_tag	Determines whether to include the i tag into the signature. Possible values are yes or no . Default is yes.
--agent_identity	The identity of the user or agent on behalf of which this message is signed. The syntax is a standard email address where the local-part may be omitted. Domain part of this address should be a sub-domain of or equal to the <domain> . This option is only applicable if --i_tag value is set to yes . Default is an empty local-part followed by an @ and by the <domain>.
--q_tag	Determines whether to include the q tag into the signature. Possible values are yes or no. Default is yes.
--t_tag	Determines whether to include the t tag into the signature. Possible values are yes or no . Default is yes.
--x_tag	Determines whether to include the x tag into the signature. Possible values are yes or no . Default is yes.

Argument	Description
--expiration_time	Number of seconds before signature is expired. Is used only in DKIM profiles. This value becomes a difference of x and t tags of the signature. This option is only applicable if --x_tag value is set to yes . Default is 31536000 seconds (one year).
--z_tag	Determines whether to include the z tag into the signature. Possible values are yes or no . Default is no.

- Editing a signing profile:

```
domainkeysconfig profiles signing edit <name> [signing-profile-options]
```

Signing profile options:

- rename <name>
- domain <domain>
- selector <selector>
- canonicalization <canon>
- canonicalization <header_canon> <body_canon>
- key <key_name>
- bodylength <body_length>
- headerselect <header_select>
- customheaders <custom_headers>
- itag <i_tag> [<agent_identity>]
- qtag <q_tag>
- ttag <t_tag>
- xtag <x_tag> [<expiration_time>]
- ztag <z_tag>
- new <user-list>
- delete <user-list>
- print
- clear
- Delete a signing profile:

```
domainkeysconfig profiles signing delete <name>
```

- Show a list of signing profiles:

```
domainkeysconfig profiles signing list
```

- Print the details of a signing profile:

```
domainkeysconfig profiles signing print <name>
```

- Test a signing profile:

```
domainkeysconfig profiles signing test <name>
```

- Import a local copy of your signing profiles:

```
domainkeysconfig profiles signing import <filename>
```

- Export a copy of your signing profile from the email gateway:

```
domainkeysconfig profiles signing export <filename>
```

- Delete all the signing profiles from the email gateway:

```
domainkeysconfig profiles signing clear
```

Batch Format - Verification Profiles

- Create a new DKIM verification profile:

```
domainkeysconfig profiles verification new <name> <verification-profile-options>
```

Table 2: domainkeysconfig Verification Profile Options

Argument	Description
--name	The name of DKIM verification profile.
--min_key_size	The smallest key to be accepted. Possible key-length values (in bits) are 1024, 1536, 2048, 3072, and 4096. Default is 1024.
--max_key_size	The largest key to be accepted. Possible key-length values (in bits) are 1024, 1536, 2048, 3072, and 4096. Default is 4096.
--max_signatures_num	A maximum number of signatures in the message to verify. Possible value is any positive number. Default is 5.
--key_query_timeout	A number of seconds before the key query is timed out. Possible value is any positive number. Default is 10.
--max_systemtime_divergence	A number of seconds to tolerate wall clock asynchronization between sender and verifier. Possible value is any positive number. Default is 60.
--use_body_length	Whether to use a body length parameter. Possible values are yes or no . Default is yes.
--tempfail_action	The SMTP action should be taken in case of temporary failure. Possible values are accept or reject . Default is accept .
--tempfail_response_code	The SMTP response code for rejected message in case of temporary failure. Possible value is number in 4XX format. Default is 451 .

Argument	Description
--tempfail_response_text	The SMTP response text for rejected message in case of temporary failure. Default is #4.7.5 Unable to verify signature - key server unavailable .
--permfail_action	The SMTP action should be taken in case of permanent failure. Possible values are accept or reject . Default is accept .
--permfail_response_code	The SMTP response code for rejected message in case of permanent failure. Possible value is number in 5XX format. Default is 550 .
--permfail_response_text	The SMTP response text for rejected message in case of permanent failure. Default is #5.7.5 DKIM unauthenticated mail is prohibited.

- Edit a verification profile:

```
domainkeysconfig profiles verification edit <name> <verification-profile-options>
```

- Delete a verification profile:

```
domainkeysconfig profiles verification delete <name>
```

- Print details of an existing verification profile:

```
domainkeysconfig profiles verification print <name>
```

- Display a list of existing verification profiles:

```
domainkeysconfig profiles verification list
```

- Import a file of verification profiles from a local machine:

```
domainkeysconfig profiles verification import <filename>
```

- Export the verification profiles from the email gateway:

```
domainkeysconfig profiles verification export <filename>
```

- Delete all existing verification profiles from the email gateway:

```
domainkeysconfig profiles verification clear
```

Batch Format - Signing Keys

- Create a new signing key:

```
domainkeysconfig keys new <key_name> <key-options>
```

Table 3: domainkeysconfig Signing Keys Options

Argument	Description
--generate_key	Generate a private key. Possible key-length values (in bits) are 512 , 768 , 1024 , 1536 , and 2048 .
--use_key	Use supplied private key.
--public_key	Flag to derive and print to the screen a matching public key for the specified private key. If --generate_key is specified first, a new private key is generated first, followed by the display of a matching public key.

- Edit a signing key:

```
domainkeysconfig keys edit <key_name> key <key-options>
```

- Rename an existing signing key:

```
domainkeysconfig keys edit <key_name> rename <key_name>
```

- To specify a public key:

```
domainkeysconfig keys publickey <key_name>
```

- Delete a key:

```
domainkeysconfig keys delete <key_name>
```

- Display a list of all signing keys:

```
domainkeysconfig keys list
```

- Display all information about a specify signing key:

```
domainkeysconfig keys print <key_name>
```

- Import signing keys from a local machine:

```
domainkeysconfig keys import <filename>
```

- Export signing keys from the email gateway:

```
domainkeysconfig keys export <filename>
```

- Delete all signing keys on the email gateway:

```
domainkeysconfig keys clear
```

Batch Format - Search for a Key or Profile

- Search for a profile signing key:

```
domainkeysconfig search <search_text>
```

Batch Format - Global Settings

- Modify global settings for Domain Keys/DKIM on your email gateway:

```
domainkeysconfig setup <setup_options>
```

The option available is:

- --sign_generated_msgs - Specify whether to sign system-generated messages. Possible values are yes or no .

Example: Configuring Domain Keys via the CLI

Use the **domainkeysconfig** command in the CLI to configure Domain Keys on your email gateway.

The **domainkeysconfig** command has all of the features of the **Mail Policies -> Domain Keys** page. It also provides the ability to generate a sample Domain Keys DNS TXT record. For more information about generating sample Domain Keys DNS TXT records, see Creating a Sample Domain Keys DNS TXT Record, on page 75.

In this example, a key is generated, and a domain profile is created:

```
mail3.example.com> domainkeysconfig
Number of DK/DKIM Signing Profiles: 0
Number of Signing Keys: 0
Number of DKIM Verification Profiles: 1
Sign System-Generated Messages: Yes
Choose the operation you want to perform:
- PROFILES - Manage domain profiles.
- KEYS - Manage signing keys.
- SETUP - Change global settings.
- SEARCH - Search for domain profile or key.
[]> keys
No signing keys are defined.
Choose the operation you want to perform:
- NEW - Create a new signing key.
- IMPORT - Import signing keys from a file.
[]> new
Enter a name for this signing key:
[]> testkey
1. Generate a private key
2. Enter an existing key
[1]>
Enter the size (in bits) of this signing key:
1. 512
```

```
2. 768
3. 1024
4. 1536
5. 2048
[3]>
New key "testkey" created.
There are currently 1 signing keys defined.
Choose the operation you want to perform:
- NEW - Create a new signing key.
- EDIT - Modify a signing key.
- PUBLICKEY - Create a publickey from a signing key.
- DELETE - Delete a signing key.
- PRINT - Display signing keys.
- LIST - List signing keys.
- IMPORT - Import signing keys from a file.
- EXPORT - Export signing keys to a file.
- CLEAR - Clear all signing keys.
[]>
Number of DK/DKIM Signing Profiles: 0
Number of Signing Keys: 1
Number of DKIM Verification Profiles: 1
Sign System-Generated Messages: Yes
Choose the operation you want to perform:
- PROFILES - Manage domain profiles.
- KEYS - Manage signing keys.
- SETUP - Change global settings.
- SEARCH - Search for domain profile or key.
[]> profiles
Choose the operation you want to perform:
- SIGNING - Manage signing profiles.
- VERIFICATION - Manage verification profiles.
[]> signing
No domain profiles are defined.
Choose the operation you want to perform:
- NEW - Create a new domain profile.
- IMPORT - Import domain profiles from a file.
[]> new
Enter a name for this domain profile:
[]> Example
Enter type of domain profile:
1. dk
2. dkim
[2]>
The domain field forms the basis of the public-key query.  The value in
this field MUST match the domain of the sending email address or MUST
be one of the parent domains of the sending email address.  This value
becomes the "d" tag of the Domain-Keys signature.
Enter the domain name of the signing domain:
[]> example.com
Selectors are arbitrary names below the "_domainkey." namespace. A
selector value and length MUST be legal in the DNS namespace and in
email headers with the  additional provision that they cannot contain a
semicolon.  This value becomes the "s" tag of the DomainKeys
Signature.
Enter selector:
[]> test
The private key which is to be used to sign messages must be entered.
A corresponding public key must be published in the DNS following the
form described in the DomainKeys documentation.  If a key is not
immediately available, a key can be entered at a later time.
Select the key-association method:
1. Create new key
2. Paste in key
3. Enter key at later time
```

```
4. Select existing key
[1]> 4
Enter the name or number of a signing key.
1. testkey
[1]>
The canonicalization algorithm is the method by which the headers and
content are  prepared for presentation to the signing algorithm.
Possible choices are "simple" and "relaxed".
Select canonicalization algorithm for body:
1. simple
2. relaxed
[1]> 1
How would you like to sign headers:
1. Sign all existing, non-repeatable headers (except Return-Path header).
2. Sign "well-known" headers (Date, Subject, From, To, Cc, Reply-To, Message-ID, Sender,
MIME headers).
3. Sign "well-known" headers plus a custom list of headers.
[2]>
Body length is a number of bytes of the message body to sign.
This value becomes the "l" tag of the signature.
Which body length option would you like to use?
1. Whole body implied. No further message modification is possible.
2. Whole body auto-determined. Appending content is possible.
3. Specify a body length.
[1]>
Would you like to fine-tune which tags should be used in the
DKIM Signature? (yes/no) [N]>
Finish by entering profile users.  The following types of entries are
allowed:
- Email address entries such as "joe@example.com".
- Domain entries such as "example.com".
- Partial domain entries such as ".example.com".  For example, a partial
  domain of ".example.com" will match "sales.example.com".   This
  sort of entry will not match the root domain ("example.com").
- Leave blank to match all domain users.
Enter user for this signing profile:
[]> sales.example.com
Do you want to add another user? [N]>
There are currently 1 domain profiles defined.
Choose the operation you want to perform:
- NEW - Create a new domain profile.
- EDIT - Modify a domain profile.
- DELETE - Delete a domain profile.
- PRINT - Display domain profiles.
- LIST - List domain profiles.
- TEST - Test if a domain profile is ready to sign.
- DNSTXT - Generate a matching DNS TXT record.
- IMPORT - Import domain profiles from a file.
- EXPORT - Export domain profiles to a file.
- CLEAR - Clear all domain profiles.
[]>
Choose the operation you want to perform:
- SIGNING - Manage signing profiles.
- VERIFICATION - Manage verification profiles.
[]>
Number of DK/DKIM Signing Profiles: 1
Number of Signing Keys: 1
Number of DKIM Verification Profiles: 1
Sign System-Generated Messages: Yes
Choose the operation you want to perform:
- PROFILES - Manage domain profiles.
- KEYS - Manage signing keys.
- SETUP - Change global settings.
```

```
- SEARCH - Search for domain profile or key.
[]>
```

Creating a Sample Domain Keys DNS TXT Record

```
mail3.example.com> domainkeysconfig
Number of DK/DKIM Signing Profiles: 1
Number of Signing Keys: 1
Number of DKIM Verification Profiles: 1
Sign System-Generated Messages: Yes
Choose the operation you want to perform:
- PROFILES - Manage domain profiles.
- KEYS - Manage signing keys.
- SETUP - Change global settings.
- SEARCH - Search for domain profile or key.
[]> profiles
Choose the operation you want to perform:
- SIGNING - Manage signing profiles.
- VERIFICATION - Manage verification profiles.
[]> signing
There are currently 1 domain profiles defined.
Choose the operation you want to perform:
- NEW - Create a new domain profile.
- EDIT - Modify a domain profile.
- DELETE - Delete a domain profile.
- PRINT - Display domain profiles.
- LIST - List domain profiles.
- TEST - Test if a domain profile is ready to sign.
- DNSTXT - Generate a matching DNS TXT record.
- IMPORT - Import domain profiles from a file.
- EXPORT - Export domain profiles to a file.
- CLEAR - Clear all domain profiles.
[]> dnstxt
Enter the name or number of a domain profile.
1. Example
[1]>
The answers to the following questions will be used to construct DKIM text
record for DNS.  It can be used to publish information about this profile.
Do you wish to constrain the local part of the signing identities
("i=" tag of "DKIM-Signature" header field) associated with this
domain profile? [N]>
Do you wish to include notes that may be of interest to a human (no
interpretation is made by any program)? [N]>
The "testing mode" can be set to specify that this domain is testing DKIM and
that unverified email must not be treated differently from verified email.
Do you want to indicate the "testing mode"? [N]>
Do you wish to disable signing by subdomains of this domain? [N]>
The DKIM DNS TXT record is:
test._domainkey.example.com. IN TXT "v=DKIM1;
p=MIGfMA0GCSqGSIb3DQEBAQUAA4GNADCBiQKBgQDX5dOG9J8rXreA/uPtYr5lrCTCqR+qlS5Gm
1f0OplAzSuB2BvOnxZ5Nr+se0T+k7mYDP0FSUHyWaOvO+kCcum7fFRjS3EOF9gIpbIdH5vzOCKp/w7hdjPy3q6PSgJVtqvQ6v9E8k5Ui7C+DF6KvJUiMJSY5sbu2
zmm9rKAH5m7FwIDAQAB;"
There are currently 1 domain profiles defined.
Choose the operation you want to perform:
- NEW - Create a new domain profile.
- EDIT - Modify a domain profile.
- DELETE - Delete a domain profile.
- PRINT - Display domain profiles.
- LIST - List domain profiles.
- TEST - Test if a domain profile is ready to sign.
- DNSTXT - Generate a matching DNS TXT record.
- IMPORT - Import domain profiles from a file.
- EXPORT - Export domain profiles to a file.
```

```
- CLEAR - Clear all domain profiles.
[]>
Choose the operation you want to perform:
- SIGNING - Manage signing profiles.
- VERIFICATION - Manage verification profiles.
[]>
Number of DK/DKIM Signing Profiles: 1
Number of Signing Keys: 1
Number of DKIM Verification Profiles: 1
Sign System-Generated Messages: Yes
Choose the operation you want to perform:
- PROFILES - Manage domain profiles.
- KEYS - Manage signing keys.
- SETUP - Change global settings.
- SEARCH - Search for domain profile or key.
[]>
```

DMARC Verification

This section contains the following CLI commands:

dmarcconfig

Description

Configure DMARC settings.

Usage

Commit: This command requires a 'commit'.

Cluster Management: This command can be used in all three machine modes (cluster, group, machine).

Batch Command: This command supports a batch format.

Batch Format - DMARC Verification Profiles

The batch format of the dmarcconfig can be used to create, edit, or delete verification profiles and modify global settings.

Add a DMARC Verification Profile

dmarcconfig profiles new <name> [options]

Argument	Description
<name>	Name of the DMARC profile.
[options]	
--rejectpolicy_action	The message action that AsyncOS must take when the policy in DMARC record is reject. Possible values are "reject", "quarantine", or "none."

Argument	Description
--rejectpolicy_response_code	The SMTP response code for rejected messages. The default value is 550.
--rejectpolicy_response_text	The SMTP response text for rejected messages. The default value is “#5.7.1 DMARC unauthenticated mail is prohibited.”
--rejectpolicy_quarantine	The quarantine for messages that fail DMARC verification.
--quarantinepolicy_action	The message action that AsyncOS must take when the policy in DMARC record is quarantine. Possible values are “quarantine” or “none.”
--quarantinepolicy_quarantine	The quarantine for messages that fail DMARC verification.
--tempfail_action	The message action that AsyncOS must take on the messages that result in temporary failure during DMARC verification. Possible values are “accept” or “reject.”
--tempfail_response_code	The SMTP response code for rejected messages in case of temporary failure. The default value is 451.
--tempfail_response_text	The SMTP response text for rejected messages in case of temporary failure. The default value is “#4.7.1 Unable to perform DMARC verification.”
--permfail_action	The message action that AsyncOS must take on the messages that result in permanent failure during DMARC verification. Possible values are “accept” or “reject.”
--permfail_response_code	The SMTP response code for rejected messages in case of permanent failure. The default value is 550.
--permfail_response_text	The SMTP response text for rejected messages in case of permanent failure. The default value is “#5.7.1 DMARC verification failed.”

Edit a DMARC Verification Profile

dmarcconfig profiles edit <name> [options]

Delete a DMARC Verification Profile

dmarcconfig profiles delete <name>

Delete all the DMARC Verification Profiles

dmarcconfig profiles clear

View the Details of a DMARC Verification Profile

dmarcconfig profiles print <name>

Export DMARC Verification Profiles

```
dmarcconfig profiles export <filename>
```

Import DMARC Verification Profiles

```
dmarcconfig profiles import <filename>
```

Change Global Settings

dmarcconfig setup [options]

Options	Description
--report_schedule	The time when you want AsyncOS to generate DMARC aggregate reports.
--error_reports	Send delivery error reports to the domain owners if the DMARC aggregate report size exceeds 10 MB or the size specified in the RUA tag of DMARC record.
--org_name	The entity generating DMARC aggregate reports. This must be a domain name.
--contact_info	Additional contact information, for example, details of your organization's customer support, if the domain owners who receive DMARC aggregate reports want to contact the entity that generated the report.
--copy_reports	Send copy of all the DMARC aggregate reports to specific users, for example, internal users who perform analysis on the aggregate reports. Enter an email address or multiple addresses separated by commas.
--bypass_addresslist	Skip DMARC verification of messages from specific senders (address list). **Note** You can choose only address lists created with full email addresses.
--bypass_headers	Skip DMARC verification of messages that contain specific header field names. For example, use this option to skip DMARC verification of messages from mailing lists and trusted forwarders. Enter a header or multiple headers separated by commas.

Example

The following example shows how to setup a DMARC verification profile and edit the global settings of DMARC verification profiles.

```
mail.example.com> dmarcconfig
Number of DMARC Verification Profiles: 1
Daily report generation time is: 00:00
Error reports enabled: No
Reports sent on behalf of:
Contact details for reports:
Send a copy of aggregate reports to: None Specified
Bypass DMARC verification for senders from addresslist: None Specified
Bypass DMARC verification for messages with header fields: None Specified
```

```
Choose the operation you want to perform:
- PROFILES - Manage DMARC verification profiles.
- SETUP - Change global settings.
[]> profiles
There are currently 1 DMARC verification profiles defined.
Choose the operation you want to perform:
- NEW - Create a new DMARC verification profile.
- EDIT - Modify a DMARC verification profile.
- DELETE - Delete a DMARC verification profile.
- PRINT - Display DMARC verification profiles.
- IMPORT - Import DMARC verification profiles from a file.
- EXPORT - Export DMARC verification profiles to a file.
- CLEAR - Clear all DMARC verification profiles.
[]> new
Enter the name of the new DMARC verification profile:
[]> dmarc_ver_profile_1
Select the message action when the policy in DMARC record is reject:
1. No Action
2. Quarantine the message
3. Reject the message
[3]> 1
Select the message action when the policy in DMARC record is quarantine:
1. No Action
2. Quarantine the message
[2]> 2
Select the quarantine for messages that fail DMARC verification (when the DMARC policy is
quarantine).
1. Policy
[1]> 1
What SMTP action should be taken in case of temporary failure?
1. Accept
2. Reject
[1]> 2
Enter the SMTP response code for rejected messages in case of temporary failure.
[451]>
Enter the SMTP response text for rejected messages in case of temporary failure. Type DEFAULT
 to use the default response text
'#4.7.1 Unable to perform
DMARC verification.'
[#4.7.1 Unable to perform DMARC verification.]>
What SMTP action should be taken in case of permanent failure?
1. Accept
2. Reject
[1]> 2
Enter the SMTP response code for rejected messages in case of permanent failure.
[550]>
Enter the SMTP response text for rejected messages in case of permanent failure. Type DEFAULT
 to use the default response text
'#4.7.1 Unable to perform
DMARC verification.'
[#5.7.1 DMARC verification failed.]>
There are currently 2 DMARC verification profiles defined.
Choose the operation you want to perform:
- NEW - Create a new DMARC verification profile.
- EDIT - Modify a DMARC verification profile.
- DELETE - Delete a DMARC verification profile.
- PRINT - Display DMARC verification profiles.
- IMPORT - Import DMARC verification profiles from a file.
- EXPORT - Export DMARC verification profiles to a file.
- CLEAR - Clear all DMARC verification profiles.
[]>
Number of DMARC Verification Profiles: 2
Daily report generation time is: 00:00
Error reports enabled: No
```

```
Reports sent on behalf of:
Contact details for reports:
Send a copy of aggregate reports to: None Specified
Bypass DMARC verification for senders from addresslist: None Specified
Bypass DMARC verification for messages with header fields: None Specified
Choose the operation you want to perform:
- PROFILES - Manage DMARC verification profiles.
- SETUP - Change global settings.
[]> setup
Would you like to modify DMARC report settings? (Yes/No) [N]> y
Enter the time of day to generate aggregate feedback reports. Use 24-hour format (HH:MM).
[00:00]>
Would you like to send DMARC error reports? (Yes/No) [N]> y
Enter the entity name responsible for report generation. This is added to the DMARC aggregate
 reports.
[]> example.com
Enter additional contact information to be added to DMARC aggregate reports. This could be
 an email address,
URL of a website with additional help, a phone number etc.
[]> http://dmarc.example.com
Would you like to send a copy of all aggregate reports?  (Yes/No) [N]>
Would you like to bypass DMARC verification for an addresslist? (Yes/No) [N]>
Would you like to bypass DMARC verification for specific header fields? (Yes/No) [N]> y
Choose the operation you want to perform:
- ADD - Add a header field to the verification-bypass list.
[]> add
Enter the header field name
[]> List-Unsubscribe
DMARC verification is configured to bypass DMARC verification for messages containing the
following header fields.
1. List-Unsubscribe
Choose the operation you want to perform:
- ADD - Add a header field to the verification-bypass list.
- REMOVE - Remove a header field from the list.
[]> add
Enter the header field name
[]> List-ID
DMARC verification is configured to bypass DMARC verification for messages containing the
following header fields.
1. List-Unsubscribe
2. List-ID
Choose the operation you want to perform:
- ADD - Add a header field to the verification-bypass list.
- REMOVE - Remove a header field from the list.
[]>
Number of DMARC Verification Profiles: 2
Daily report generation time is: 00:00
Error reports enabled: Yes
Reports sent on behalf of: example.com
Contact details for reports: http://dmarc.example.com
Send a copy of aggregate reports to: None Specified
Bypass DMARC verification for senders from addresslist: None Specified
Bypass DMARC verification for messages with header fields: List-Unsubscribe, List-ID
Choose the operation you want to perform:
- PROFILES - Manage DMARC verification profiles.
- SETUP - Change global settings.
[]>
```

DNS

This section contains the following CLI commands:

dig

Description

Look up a record on a DNS server

Usage

Commit: This command does not require a 'commit'.

Cluster Management: This command can be used in all three machine modes (cluster, group, machine).

Batch Command: This command supports a batch format.

Batch Format

The batch format of the dig command can be used to perform all the functions of the traditional CLI command.

- Look up a record on a DNS server

```
dig [options] [@<dns_ip>] [qtype] <hostname>
```

- Do a reverse lookup for given IP address on a DNS server

```
dig -x <reverse_ip> [options] [@<dns_ip>]
```

These are the options available for the dig command's batch format

-s <source_ip> Specify the source IP address.
-t Make query over TCP.
-u Make query over UDP (default).
dns_ip - Query the DNS server at this IP address.
qtype - Query type: A, PTR, CNAME, MX, SOA, NS, TXT.
hostname - Record that user want to look up.
reverse_ip - Reverse lookup IP address.
dns_ip - Query the DNS server at this IP address.

Example

The following example explicitly specifies a DNS server for the lookup.

```
mail.com> dig @111.111.111.111 example.com MX
; <<>> DiG 9.4.3-P2 <<>> @111.111.111.111 example.com MX
; (1 server found)
;; global options:  printcmd
;; Got answer:
;; ->>HEADER<<- opcode: QUERY, status: NOERROR, id: 18540
;; flags: qr aa rd ra; QUERY: 1, ANSWER: 1, AUTHORITY: 1, ADDITIONAL: 3
;; QUESTION SECTION:
;example.com.                        IN      MX
;; ANSWER SECTION:
mexample.com.               10800   IN      MX      10 mexample.com.
;; AUTHORITY SECTION:
example.com.                    10800   IN      NS      test.example.com.
;; ADDITIONAL SECTION:
example.com. 10800 IN      A       111.111.111.111
example.com. 10800 IN      AAAA    2620:101:2004:4201::bd
example.com.   300     IN      A       111.111.111.111
;; Query time: 6 msec
;; SERVER: 10.92.144.4#53(10.92.144.4)
;; WHEN: Fri Dec  9 23:37:42 2011
;; MSG SIZE  rcvd: 143
```

Note The **dig** command filters out the information in the Authority and Additional sections if you do not explicitly specify the DNS server when using the command.

Example: Verifying TLSA Record of the DNS Server Supporting DNSSEC

The following example explicitly verifies TLSA records.

```
mail.example.com> dig

Enter the host or IP address to look up.
[]> example.com

Choose the query type:
1. A       the host's IP address
2. AAAA    the host's IPv6 address
3. CNAME   the canonical name for an alias
4. MX      the mail exchanger
5. NS      the name server for the named zone
6. PTR     the hostname if the query is an Internet address,otherwise the pointer to other
 information
7. SOA     the domain's "start-of-authority" information
8. TLSA    TLSA Record
9. TXT     the text information
[1]> 8

Which interface do you want to query from?
1. Auto
2. Management
[1]> 2

Please enter the host or IP address of DNS server.
Leave the entry blank to use the default server.
Important! To perform DNSSEC queries, enter the host or IP address of the DNS Server
```

```
supporting DNSSEC.
[]> 8.8.8.8

Do you want to make query over TCP? [N]>

Do you want to make a query over DNSSEC? [N]> Y

Please enter DNS key file path.
Leave the entry blank to use the default root keys
[]>

;; RRset to chase:
dane-esa.com.           3562    IN      MX      10 mx1.dane-esa.com.


;; RRSIG of the RRset to chase:
dane-esa.com.           3562    IN      RRSIG   MX 7 2 3600 20181028045140 20180928045140
43860 dane-esa.com.
K+t0W9aOqDMvxytXfkrms+IEUbK1Ct9XB5mBCCb3bHryvHs0cU6XPxTJ
XwQ5HUSWuQaC9MLyCA5Zn/AXlbzKA7tGtnab0q3CmVKhhRXnIJ+jJht6
nuksUrLKsM6uYmR73DDM/bCC8n08w6nGeGq476mmNgETXAPfqSvHNuPp
DSquCG3nNfm8iE9XnG8jCKRPcKhWjROc/vmK6ZzuzFKCtT4QA/L5Ah0w
zffZqxR9Qmj3w8WQdz9eFAw5e0LFa5oR57i983ityJrQL4pjFl7bwKNw
94xhqFlsWWKAC6wpoT64DOo00ou5TsKxHq5EwEat1OMIM0GHMniCuJcA K3seyQ==
```

dnsconfig

Description

Configure DNS setup

Usage

Commit: This command requires a ‘commit’.

Cluster Management: This command can be used in all three machine modes (cluster, group, machine).

Batch Command: This command supports a batch format.

Batch Format

The batch format of the dnsconfig command can be used to perform all the functions of the traditional CLI command.

- Configuring DNS to use a local nameserver cache:

```
dnsconfig parent new <ns_ip> <priority>
```

Command arguments:

- <ns_ip> - The IP address of the nameserver. Separate multiple IP addresses with commas.
- <priority> - The priority for this entry.
- Deleting the local nameserver cache:

```
dnsconfig parent delete <ns_ip>
```

- Configuring alternate DNS caches to use for specific domains:

```
dnsconfig alt new <domains> <ns_ip>
```

Note Cannot be used when using Internet root nameservers.

Command arguments:

- <ns_ip> - The IP address of the nameserver. Separate multiple IP addresses with commas.
- <domains> - A comma separated list of domains.
- Deleting the alternate DNS cache for a specific domain:

```
dnsconfig alt delete <domain>
```

- Configuring DNS to use the Internet root nameservers:

```
dnsconfig roots new <ns_domain> <ns_name> <ns_ip>
```

Nameserver arguments:

- <ns_domain> - The domain to override.
- <ns_name> - The name of the nameserver.
- <ns_ip> - The IP address of the nameserver.

Note You can override certain domains by specifying an alternate name server for that domain.

- Deleting nameservers:

```
dnsconfig roots delete <ns_domain> [ns_name]
```

Note When deleting, if you do not specify an ns_name , then all nameservers for that domain will be removed.

- Clearing all DNS settings and automatically configuring the system to use the Internet root servers:

```
dnsconfig roots
```

Displaying the current DNS settings.

```
dnsconfig print
```

Example

Each user-specified DNS server requires the following information:

- Hostname
- IP address
- Domain authoritative for (alternate servers only)

Four subcommands are available within the **dnsconfig** command:

Table 4: Subcommands for dnsconfig Command

Syntax	Description
new	Add a new alternate DNS server to use for specific domains or local DNS server.
delete	Remove an alternate server or local DNS server.
edit	Modify an alternate server or local DNS server.
setup	Switch between Internet root DNS servers or local DNS servers.

```
mail3.example.com> dnsconfig
Currently using the Internet root DNS servers.
Alternate authoritative DNS servers:
1. com: dns.example.com (10.1.10.9)
Choose the operation you want to perform:
- NEW - Add a new server.
- EDIT - Edit a server.
- DELETE - Remove a server.
- SETUP - Configure general settings.
[]> setup
Do you want the Gateway to use the Internet's root DNS servers or would you like
it to use your own DNS servers?
1. Use Internet root DNS servers
2. Use own DNS cache servers
[1]> 1
Choose the IP interface for DNS traffic.
1. Auto
2. Management (10.92.149.70/24: mail3.example.com)
[1]>
Enter the number of seconds to wait before timing out reverse DNS lookups.
[20]>
Enter the minimum TTL in seconds for DNS cache.
[1800]>
Currently using the Internet root DNS servers.
Alternate authoritative DNS servers:
1. com: dns.example.com (10.1.10.9)
Choose the operation you want to perform:
- NEW - Add a new server.
- EDIT - Edit a server.
- DELETE - Remove a server.
- SETUP - Configure general settings.
[]>
```

Adding an Alternate DNS Server for Specific Domains

You can configure the email gateway to use the Internet root servers for all DNS queries except specific local domains.

```
mail3.example.com> dnsconfig
Currently using the Internet root DNS servers.
No alternate authoritative servers configured.
Choose the operation you want to perform:
- NEW - Add a new server.
- SETUP - Configure general settings.
[]> new
Please enter the domain this server is authoritative for. (Ex: "com").
[]> example.com
Please enter the fully qualified hostname of the DNS server for the domain "example.com".
(Ex: "dns.example.com").
[]> dns.example.com
Please enter the IP address of dns.example.com.
[]> 10.1.10.9
Currently using the Internet root DNS servers.
Alternate authoritative DNS servers:
1. com: dns.example.com (10.1.10.9)
Choose the operation you want to perform:
- NEW - Add a new server.
- EDIT - Edit a server.
- DELETE - Remove a server.
- SETUP - Configure general settings.
[]>
```

Using Your Own DNS Cache Servers

You can configure the email gateway to use your own DNS cache server.

```
mail3.example.com> dnsconfig
Currently using the Internet root DNS servers.
Alternate authoritative DNS servers:
1. com: dns.example.com (10.1.10.9)
Choose the operation you want to perform:
- NEW - Add a new server.
- EDIT - Edit a server.
- DELETE - Remove a server.
- SETUP - Configure general settings.
[]> setup
Do you want the Gateway to use the Internet's root DNS servers or would you like
it to use your own DNS servers?
1. Use Internet root DNS servers
2. Use own DNS cache servers
[1]> 2
Please enter the IP address of your DNS server.
Separate multiple IPs with commas.
[]> 10.10.200.03
Please enter the priority for 10.10.200.3.
A value of 0 has the highest priority.
The IP will be chosen at random if they have the same priority.
[0]> 1
Choose the IP interface for DNS traffic.
1. Auto
2. Management (192.168.42.42/24)
3. PrivateNet (192.168.1.1/24: mail3.example.com)
4. PublicNet (192.168.2.1/24: mail3.example.com)
[1]> 1
Enter the number of seconds to wait before timing out reverse DNS lookups.
```

```
[20]>
Enter the minimum TTL in seconds for DNS cache.
[1800]>
Currently using the local DNS cache servers:
1. Priority: 1  10.10.200.3
Choose the operation you want to perform:
- NEW - Add a new server.
- EDIT - Edit a server.
- DELETE - Remove a server.
- SETUP - Configure general settings.
[]>
```

dnsflush

Description

Clear all entries from the DNS cache.

Usage

Commit: This command does not require a 'commit'.

Cluster Management: This command is restricted to machine mode.

Batch Command: This command does not support a batch format

Example

```
mail3.example.com> dnsflush
Are you sure you want to clear out the DNS cache? [N]> Y
```

dnshostprefs

Description

Configure IPv4/IPv6 DNS preferences

Usage

Commit: This command requires a 'commit'.

Cluster Management: This command is restricted to machine mode.

Batch Command: This command does not support a batch format

Example

```
mail3.example.com> dnshostprefs
Choose the operation you want to perform:
- NEW - Add new domain override.
- SETDEFAULT - Set the default behavior.
[]> new
Enter the domain you wish to configure.
[]> example.com
How should the appliance sort IP addresses for this domain?
```

```
1. Prefer IPv4
2. Prefer IPv6
3. Require IPv4
4. Require IPv6
[2]> 3
Choose the operation you want to perform:
- NEW - Add new domain override.
- SETDEFAULT - Set the default behavior.
[]> setdefault
How should the appliance sort IP addresses?
1. Prefer IPv4
2. Prefer IPv6
3. Require IPv4
4. Require IPv6
[2]> 1
Choose the operation you want to perform:
- NEW - Add new domain override.
- SETDEFAULT - Set the default behavior.
[]>
```

dnslistconfig

Description

Configure DNS List services support

Usage

Commit: This command requires a 'commit'.

Cluster Management: This command is restricted to machine mode.

Batch Command: This command does not support a batch format

Example

```
mail3.example.com> dnslistconfig
Current DNS List Settings:
Negative Response TTL:  1800 seconds
DNS List Query Timeout:  3 seconds
Choose the operation you want to perform:
- SETUP - Configure general settings.
[]> setup
Enter the cache TTL for negative responses in seconds:
[1800]> 1200
Enter the query timeout in seconds:
[3]>
Settings updated.
Current DNS List Settings:
Negative Response TTL:  1200 seconds
DNS List Query Timeout:  3 seconds
Choose the operation you want to perform:
- SETUP - Configure general settings.
[]>
```

dnslisttest

Description

Test a DNS lookup for a DNS-based list service.

Usage

Commit: This command does not require a 'commit'.

Cluster Management: This command is restricted to machine mode.

Batch Command: This command does not support a batch format

Example

```
mail3.example.com> dnslisttest
Enter the query server name:
[]> mail4.example.com
Enter the test IP address to query for:
[127.0.0.2]> 10.10.1.11
Querying:  10.10.1.11.mail4.example.com
Result:  MATCHED
```

dnsstatus

Description

Display DNS statistics.

Usage

Commit: This command does not require a 'commit'.

Cluster Management: This command is restricted to machine mode.

Batch Command: This command does not support a batch format.

Example

```
mail3.example.com> dnsstatus
Status as of: Mon Apr 18 10:58:07 2005 PDT
Counters:                  Reset          Uptime        Lifetime
  DNS Requests             1,115           1,115           1,115
  Network Requests           186             186             186
  Cache Hits               1,300           1,300           1,300
  Cache Misses                 1               1               1
  Cache Exceptions             0               0               0
  Cache Expired              185             185             185
```

Enhanced User Experience using How-Tos Widget

This section contains the following CLI commands:

howtoupdate

Description

The `howtoupdate` command is used to manually update the How-Tos component.

Usage

Commit: This command does not require a 'commit'.

Cluster Management: This command can be used in all three machine modes (cluster, group, machine).

Batch Command: This command supports a batch format. For more details, see the inline help by typing the command: `help howtoupdate`.

Example

In the following example, you can use the `howtoupdate` command to manually update the How-Tos component.

```
mail.example.com > howtoupdate

Requesting update of How-Tos component
```

howtostatus

Description

The `howtostatus` command is used to display the current version of the How-Tos component.

Usage

Commit: This command does not require a 'commit'.

Cluster Management: This command can be used in all three machine modes (cluster, group, machine).

Batch Command: This command supports a batch format. For more details, see the inline help by typing the command: `help howtostatus`.

Example

In the following example, you can use the `howtostatus` command to view the current version of the How-Tos component.

```
mail.example.com > howtostatus

Component            Version Last Updated
How-Tos              1.0 4 Jul 2018 04:22 (GMT +00:00)
```

General Management/Administration/Troubleshooting

This section contains the following CLI commands:

addressconfig

Description

The **addressconfig** command is used to configure the From: Address header. You can specify the display, user, and domain names of the From: address. You can also choose to use the Virtual Gateway domain for the domain name. Use the **addressconfig** command for mail generated by AsyncOS for the following circumstances:

- Anti-virus notifications
- Bounces
- DMARC feedback reports
- Notifications (notify() and notify-copy() filter actions)
- Quarantine Messages (and “Send Copy” in quarantine management)
- Reports
- All other messages

In the following example, the From: Address for notifications is changed from: Mail Delivery System [MAILER-DAEMON@domain] (the default) to Notifications [Notification@example.com]

Usage

Commit: This command requires a ‘commit’.

Cluster Management: This command can be used in all three machine modes (cluster, group, machine).

Batch Command: This command does not support a batch format.

Example

```
mail3.example.com> addressconfig
Current anti-virus from: "Mail Delivery System" <MAILER-DAEMON@domain>
Current bounce from: "Mail Delivery System" <MAILER-DAEMON@domain>
Current notify from: "Mail Delivery System" <MAILER-DAEMON@domain>
Current quarantine from: "Mail Delivery System" <MAILER-DAEMON@domain>
Current DMARC reports from: "DMARC Feedback" <MAILER-DAEMON@domain>
Current all other messages from: "Mail Delivery System" <MAILER-DAEMON@domain>
Choose the operation you want to perform:
- AVFROM - Edit the anti-virus from address.
- BOUNCEFROM - Edit the bounce from address.
- NOTIFYFROM - Edit the notify from address.
- QUARANTINEFROM - Edit the quarantine bcc from address.
- DMARCFROM - Edit the DMARC reports from address.
- OTHERFROM - Edit the all other messages from address.
[]> notifyfrom
Please enter the display name portion of the "notify from" address
["Mail Delivery System"]> Notifications
Please enter the user name portion of the "notify from" address
[MAILER-DAEMON]> Notification
```

```
Do you want the virtual gateway domain used for the domain? [Y]> n
Please enter the domain name portion of the "notify from" address
[]> example.com
Current anti-virus from: "Mail Delivery System" <MAILER-DAEMON@domain>
Current bounce from: "Mail Delivery System" <MAILER-DAEMON@domain>
Current notify from: Notifications <Notification@example.com>
Current quarantine from: "Mail Delivery System" <MAILER-DAEMON@domain>
Current DMARC reports from: "DMARC Feedback" <MAILER-DAEMON@domain>
Current all other messages from: "Mail Delivery System" <MAILER-DAEMON@domain>
Choose the operation you want to perform:
- AVFROM - Edit the anti-virus from address.
- BOUNCEFROM - Edit the bounce from address.
- NOTIFYFROM - Edit the notify from address.
- QUARANTINEFROM - Edit the quarantine bcc from address.
- DMARCFROM - Edit the DMARC reports from address.
- OTHERFROM - Edit the all other messages from address.
[]>
```

adminaccessconfig

Description

Use the **adminaccessconfig** command to configure:

- Login message (banner) for the administrator.
- IP-based access for email gateway administrative interface.
- Web interface Cross-Site Request Forgeries protection.
- Option to use host header in HTTP requests.
- Web interface and CLI session inactivity timeout.
- Maximum HTTP header size.

Usage

Commit: This command requires a ‘commit’.

Cluster Management: This command can be used in all three machine modes (cluster, group, machine).

Batch Command: This command supports a batch format.

Batch Format

The batch format of the adminaccessconfig command can be used to perform all the functions of the traditional CLI command.

- Select whether to allow access for all IP addresses or limit access to specific IP address/subnet/range

```
adminaccessconfig ipaccess <all/restrict/proxyonly/proxy>
```

- Adding a new IP address/subnet/range

```
adminaccessconfig ipaccess new <address>
```

- Editing an existing IP address/subnet/range

```
adminaccessconfig ipaccess edit <oldaddress> <newaddress>
```

- Deleting an existing IP address/subnet/range

```
adminaccessconfig ipaccess delete <address>
```

- Printing a list of the IP addresses/subnets/ranges

```
adminaccessconfig ipaccess print
```

- Deleting all existing IP addresses/subnets/ranges

```
adminaccessconfig ipaccess clear
```

- Printing the login banner

```
adminaccessconfig banner print
```

- Importing a login banner from a file on the email gateway

```
adminaccessconfig banner import <filename>
```

- Deleting an existing login banner

```
adminaccessconfig banner clear
```

- Printing the welcome banner

```
adminaccessconfig welcome print
```

- Importing a welcome banner from a file on the email gateway

```
adminaccessconfig welcome import <filename>
```

- Deleting an existing welcome banner

```
adminaccessconfig welcome clear
```

- Exporting a welcome banner

```
adminaccessconfig welcome export <filename>
```

- Add an allowed proxy IP address

```
adminaccessconfig ipaccess proxylist new <address>
```

- Edit an allowed proxy IP address

```
adminaccessconfig ipaccess proxylist edit <oldaddress> <newaddress>
```

- Delete an allowed proxy IP address

```
adminaccessconfig ipaccess proxylist delete <address>
```

- Delete all existing allowed proxy IP addresses

```
adminaccessconfig ipaccess proxylist clear
```

- Configure the header name that contains origin IP address

```
adminaccessconfig ipaccess proxy-header <header name>
```

- Enable or disable web interface Cross-Site Request Forgeries protection

```
adminaccessconfig csrf <enable|disable>
```

- Check whether web interface Cross-Site Request Forgeries protection is enabled

```
adminaccessconfig csrf print
```

- Configure web interface session timeout

```
adminaccessconfig timeout gui <value>
```

- Configure CLI session timeout

```
adminaccessconfig timeout gui <value>
```

Example - Configuring Network Access List

You can control from which IP addresses users access the email gateway. Users can access the email gateway from any machine with an IP address from the access list you define. When creating the network access list, you can specify IP addresses, subnets, or CIDR addresses.

AsyncOS displays a warning if you do not include the IP address of your current machine in the network access list. If your current machine's IP address is not in the list, it will not be able to access the email gateway after you commit your changes.

In the following example, network access to the email gateway is restricted to two sets of IP addresses:

Note When setting up restrictions or only allowing connections from specific IP addresses, make sure to:

- Add the Secure Email and Web Manager IP address to the list of allowed IP addresses.
- Do not include the Secure Email and Web Manager IP address in the list of restricted IP addresses.

This ensures the Secure Email Gateway can connect with the Secure Email and Web Manager for centralizing services.

```
mail.example.com> adminaccessconfig
Choose the operation you want to perform:
- BANNER - Configure login message (banner) for appliance administrator login.
- WELCOME - Configure welcome message (post login message) for appliance administrator
login.
- IPACCESS - Configure IP-based access for appliance administrative interface.
- CSRF - Configure web UI Cross-Site Request Forgeries protection.
- HOSTHEADER - Configure option to use host header in HTTP requests.
- XSS - Configure Cross-Site Scripting Attack protection.
- TIMEOUT - Configure GUI and CLI session inactivity timeout.
- MAXHTTPHEADERFIELDSIZE - Configure maximum HTTP header field size.
- HOW-TOS - Configure How-Tos feature.
[]> ipaccess
Current mode: Allow All.
Please select the mode:
- ALL - All IP addresses will be allowed to access the administrative interface.
- RESTRICT - Specify IP addresses/Subnets/Ranges to be allowed access.
- PROXYONLY - Specify IP addresses/Subnets/Ranges to be allowed access through proxy.
- PROXY - Specify IP addresses/Subnets/Ranges to be allowed access through proxy or directly.
[]> restrict
List of allowed IP addresses/Subnets/Ranges:
Choose the operation you want to perform:
- NEW - Add a new IP address/subnet/range.
[]> new
Please enter IP address, subnet or range.
[]> 192.168.1.2-100
List of allowed IP addresses/Subnets/Ranges:
1.  192.168.1.2-100
Choose the operation you want to perform:
- NEW - Add a new IP address/subnet/range.
- EDIT - Modify an existing entry.
- DELETE - Remove an existing entry.
- CLEAR - Remove all the entries.
[]> new
Please enter IP address, subnet or range.
[]> 192.168.255.12
List of allowed IP addresses/Subnets/Ranges:
1.  192.168.1.2-100
2.  192.168.255.12
Choose the operation you want to perform:
- NEW - Add a new IP address/subnet/range.
- EDIT - Modify an existing entry.
- DELETE - Remove an existing entry.
- CLEAR - Remove all the entries.
[]>
Warning: The host you are currently using [72.163.202.175] is not included in the User
Access list.  Excluding it will prevent your
host from connecting to the administrative interface. Are you sure you want to continue?
[N]> Y
Current mode: Restrict.
```

```
Please select the mode:
- ALL - All IP addresses will be allowed to access the administrative interface.
- RESTRICT - Specify IP addresses/Subnets/Ranges to be allowed access.
- PROXYONLY - Specify IP addresses/Subnets/Ranges to be allowed access through proxy.
- PROXY - Specify IP addresses/Subnets/Ranges to be allowed access through proxy or directly.
[]>
```

Example - Configuring Login Banner

You can configure the email gateway to display a message called a “login banner” when a user attempts to log into the email gateway through SSH, Telnet, FTP, or Web UI. The login banner is customizable text that appears above the login prompt in the CLI and to the right of the login prompt in the GUI. You can use the login banner to display internal security information or best practice instructions for the email gateway. For example, you can create a simple note that saying that unauthorized use of the email gateway is prohibited or a detailed warning concerning the organization’s right to review changes made by the user to the email gateway.

The maximum length of the login banner is 2000 characters to fit 80x25 consoles. A login banner can be imported from a file in the /data/pub/configuration directory on the email gateway. After creating the banner, commit your changes.

In the following example, the login banner “Use of this system in an unauthorized manner is prohibited” is added to the email gateway:

```
mail.example.com> adminaccessconfig
Choose the operation you want to perform:
- BANNER - Configure login message (banner) for appliance administrator login.
- WELCOME - Configure welcome message (post login message) for appliance administrator
login.
- IPACCESS - Configure IP-based access for appliance administrative interface.
- CSRF - Configure web UI Cross-Site Request Forgeries protection.
- XSS - Configure Cross-Site Scripting Attack protection.
- HOSTHEADER - Configure option to use host header in HTTP requests.
- TIMEOUT - Configure GUI and CLI session inactivity timeout.
- MAXHTTPHEADERFIELDSIZE - Configure maximum HTTP header field size.
- HOW-TOS - Configure How-Tos feature.
[]> banner
A banner has not been defined.
Choose the operation you want to perform:
- NEW - Create a banner to display at login.
- IMPORT - Import banner text from a file.
[]> new
Enter or paste the banner text here. Enter CTRL-D on a blank line to end.
Use of this system in an unauthorized manner is prohibited.
^D
Choose the operation you want to perform:
- BANNER - Configure login message (banner) for appliance administrator login.
- WELCOME - Configure welcome message (post login message) for appliance administrator
login.
- IPACCESS - Configure IP-based access for appliance administrative interface.
- CSRF - Configure web UI Cross-Site Request Forgeries protection.
- HOSTHEADER - Configure option to use host header in HTTP requests.
- TIMEOUT - Configure GUI and CLI session inactivity timeout.
[]> banner
Banner: Use of this system in an unauthorized manner is prohibited.
Choose the operation you want to perform:
- NEW - Create a banner to display at login.
- IMPORT - Import banner text from a file.
- DELETE - Remove the banner.
[]>
```

Example - Configuring Web Interface and CLI Session Timeout

The following example sets the web interface and CLI session timeout to 32 minutes.

Note The CLI session timeout applies only to the connections using Secure Shell (SSH), SCP, and direct serial connection. Any uncommitted configuration changes at the time of CLI session timeout will be lost. Make sure that you commit the configuration changes as soon as they are made.

```
mail.example.com> adminaccessconfig
Choose the operation you want to perform:
- BANNER - Configure login message (banner) for appliance administrator login.
- WELCOME - Configure welcome message (post login message) for appliance administrator
login.
- IPACCESS - Configure IP-based access for appliance administrative interface.
- CSRF - Configure web UI Cross-Site Request Forgeries protection.
- XSS - Configure Cross-Site Scripting Attack protection.
- HOSTHEADER - Configure option to use host header in HTTP requests.
- TIMEOUT - Configure GUI and CLI session inactivity timeout.
- MAXHTTPHEADERFIELDSIZE - Configure maximum HTTP header field size.
- HOW-TOS - Configure How-Tos feature.

[]> timeout
Enter WebUI inactivity timeout(in minutes):
[30]> 32
Enter CLI inactivity timeout(in minutes):
[30]> 32
Choose the operation you want to perform:
- BANNER - Configure login message (banner) for appliance administrator login.
- WELCOME - Configure welcome message (post login message) for appliance administrator
login.
- IPACCESS - Configure IP-based access for appliance administrative interface.
- CSRF - Configure web UI Cross-Site Request Forgeries protection.
- HOSTHEADER - Configure option to use host header in HTTP requests.
- TIMEOUT - Configure GUI and CLI session inactivity timeout.
[]>
mail.example.com> commit
Please enter some comments describing your changes:
[]> Changed WebUI and CLI session timeout values
Do you want to save the current configuration for rollback? [Y]>
Changes committed: Wed Mar 12 08:03:21 2014 GMT
```

Note After committing the changes, the new CLI session timeout takes affect only during the subsequent login.

certconfig

Description

Configure security certificates and keys.

Usage

Commit: This command requires a ‘commit’.

Cluster Management: This command can be used in all three machine modes (cluster, group, machine).

Batch Command: This command does not support a batch format.

Example - Pasting in a certificate

In the following example, a certificate is installed by pasting in the certificate and private key.

```
mail1.example.com> certconfig
Choose the operation you want to perform:
- CERTIFICATE - Import, Create a request, Edit or Remove Certificate Profiles
- CERTAUTHORITY - Manage System and Customized Authorities
- CRL - Manage Certificate Revocation Lists
[]> certificate
List of Certificates
Name       Common Name           Issued By             Status         Remaining   FQDN
Compliance checked
---------  --------------------  --------------------  -------------  ---------
----------------------
Demo       Cisco Appliance Demo  Cisco Appliance Demo  Active         3467 days     No
Choose the operation you want to perform:
- IMPORT - Import a certificate from a local PKCS#12 file
- PASTE - Paste a certificate into the CLI
- NEW - Create a self-signed certificate and CSR
- PRINT - View certificates assigned to services
[]> paste
Enter a name for this certificate profile:
> partner.com
Paste public certificate in PEM format (end with '.'):
-----BEGIN CERTIFICATE-----
MIICLDCCAdYCAQAwDQYJKoZIhvcNAQEEBQAwgaAxCzAJBgNVBAYTAlBUMRMwEQYD
VQQIEwpRdWVlbnNsYW5kMQ8wDQYDVQQHEwZMaXNib2ExFzAVBgNVBAoTDk5ldXJv
bmlvLCBMZGEuMRgwFgYDVQQLEw9EZXNlbnZvbHZpbWVudG8xGzAZBgNVBAMTEmJy
dXR1cy5uZXVyb25pby5wdDEbMBkGCSqGSIb3DQEJARYMc2FtcG9AaWtpLmZpMB4X
DTk2MDkwNTAzNDI0M1oXDTk2MTAwNTAzNDI0M1owgaAxCzAJBgNVBAYTAlBUMRMw
EQYDVQQIEwpRdWVlbnNsYW5kMQ8wDQYDVQQHEwZMaXNib2ExFzAVBgNVBAoTDk5l
dXJvbmlvLCBMZGEuMRgwFgYDVQQLEw9EZXNlbnZvbHZpbWVudG8xGzAZBgNVBAMT
EmJydXR1cy5uZXVyb25pby5wdDEbMBkGCSqGSIb3DQEJARYMc2FtcG9AaWtpLmZp
MFwwDQYJKoZIhvcNAQEBBQADSwAwSAJBAL7+aty3S1iBA/+yxjxv4q1MUTd1kjNw
L4lYKbpzzlmC5beaQXeQ2RmGMTXU+mDvuqItjVHOK3DvPK7lTcSGftUCAwEAATAN
BgkqhkiG9w0BAQQFAANBAFqPEKFjk6T6CKTHvaQeEAsX0/8YHPHqH/9AnhSjrwuX
9EBc0n6bVGhN7XaXd6sJ7dym9sbsWxb+pJdurnkxjx4=
-----END CERTIFICATE-----
.
C=PT,ST=Queensland,L=Lisboa,O=Neuronio,
Lda.,OU=Desenvolvimento,CN=brutus.partner.com,emailAddress=admin@example.com
Paste private key in PEM format (end with '.'):
-----BEGIN RSA PRIVATE KEY-----
MIIBPAIBAAJBAL7+aty3S1iBA/+yxjxv4q1MUTd1kjNwL4lYKbpzzlmC5beaQXeQ
2RmGMTXU+mDvuqItjVHOK3DvPK7lTcSGftUCAwEAAQJBALjkK+jc2+iihI98riEF
oudmkNziSRTYjnwjx8mCoAjPWviB3c742eO3FG4/soi1jD9A5alihEOXfUzloenr
8IECIQD3B5+0l+68BA/6d76iUNqAAV8djGTzvxnCxycnxPQydQIhAMXt4trUI3nc
a+U8YL2HPFA3gmhBsSICbq2OptOCnM7hAiEA6Xi3JIQECob8YwkRj29DU3/4WYD7
WLPgsQpwo1GuSpECICGsnWH5oaeD9t9jbFoSfhJvv0IZmxdcLpRcpslpeWBBAiEA
6/5B8J0GHdJq89FHwEG/H2eVVUYu5y/aD6sgcm+0Avg=
-----END RSA PRIVATE KEY-----
.
Do you want to add an intermediate certificate? [N]> n

Do you want to check if Common Name is in Fully Qualified Domain Name(FQDN) format ? [N]>
yes
```

```
List of Certificates
Name       Common Name           Issued By             Status         Remaining  FQDN
Compliance Checked
--------  -------------------  --------------------  -------------  ---------
------------------
partner.c brutus.partner.com   brutus.partner          Active         30 days          Yes
 Demo       Cisco Appliance Demo  Cisco Appliance Demo  Active       3467 days         No
Choose the operation you want to perform:
- IMPORT - Import a certificate from a local PKCS#12 file
- PASTE - Paste a certificate into the CLI
- NEW - Create a self-signed certificate and CSR
- EDIT - Update certificate or view the signing request
- EXPORT - Export a certificate
- DELETE - Remove a certificate
- PRINT - View certificates assigned to services
[]>
Choose the operation you want to perform:
- CERTIFICATE - Import, Create a request, Edit or Remove Certificate Profiles
- CERTAUTHORITY - Manage System and Customized Authorities
- CRL - Manage Certificate Revocation Lists
[]>
mail3.example.com> commit
Please enter some comments describing your changes:
[]> Installed certificate and key for receiving, delivery, and https
Do you want to save the current configuration for rollback? [Y]> n
Changes committed: Fri May 23 11:42:12 2014 GMT
```

Example - Creating a Self-signed Certificate

In the following example, a self-signed certificate is created.

```
mail3.example.com> certconfig
Choose the operation you want to perform:
- CERTIFICATE - Import, Create a request, Edit or Remove Certificate Profiles
- CERTAUTHORITY - Manage System and Customized Authorities
- CRL - Manage Certificate Revocation Lists
[]> certificate
List of Certificates
Name       Common Name           Issued By             Status         Remaining
---------  -------------------  --------------------  -------------  ---------
partner.c  brutus.neuronio.pt    brutus.neuronio.pt    Expired        -4930
days
Demo       Cisco Appliance Demo  Cisco Appliance Demo  Active         3467 days
Choose the operation you want to perform:
- IMPORT - Import a certificate from a local PKCS#12 file
- PASTE - Paste a certificate into the CLI
- NEW - Create a self-signed certificate and CSR
- EDIT - Update certificate or view the signing request
- EXPORT - Export a certificate
- DELETE - Remove a certificate
- PRINT - View certificates assigned to services
[]> new
1. Create a self-signed certificate and CSR
2. Create a self-signed SMIME certificate and CSR
[1]> 1
Enter a name for this certificate profile:
> example.com
Enter Common Name:
> example.com
Do you want to check if Common Name is in Fully Qualified Domain Name(FQDN)
format ? [N]>
Enter Organization:
> Example
```

```
Enter Organizational Unit (Optional):
> Org
Enter Locality or City:
> San Francisco
Enter State or Province:
> CA
Enter Country (2 letter code):
> US
Duration before expiration (in days):
[3650]>
1. 1024
2. 2048
Enter size of private key:
[2]>
1. SHA256WithRSAEncryption
2. SHA384WithRSAEncryption
3. SHA512WithRSAEncryption
4. ecdsa-with-sha256
Choose the signature algorithm
[1]>

Do you want to view the CSR? [Y]> y
-----BEGIN CERTIFICATE REQUEST-----
MIICrTCCAZUCAQAwaDELMAkGA1UEBhMCVVMxFDASBgNVBAMTC2V4YW1wbGUuY29t
MRYwFAYDVQQHEw1TYW4gRnJhbmNpc29jMRAwDgYDVQQKEwdleGFtcGxlMQswCQYD
VQQIEwJDQTEMMAoGA1UECxMDb3JnMIIBIjANBgkqhkiG9w0BAQEFAAOCAQ8AMIIB
CgKCAQEA+NwamZyX7VgTZka/x1I5HHrN9V2MPKXoLq7FjzUtiIDwznElrKIuJovw
Svonle6GvFlUHfjv8B3WobOzk5Ny6btKjwPrBfaY+qr7rzM4lAQKHM+P6l+lZnPU
P05N9RCkLP4XsUuyY6Ca1WLTiPIgaq2fR8Y0JX/kesZcGOqlde66pN+xJIHHYadD
oopOgqi6SLNfAzJu/HEu/fnSujG4nhF0ZGlOpVUx4fg33NwZ4wVl0XBk3GrOjbbA
ih9ozAwfNzxb57amtxEJk+pW+co3uEHLJIOPdih9SHzn/UVU4hiu8rSQR19sDApp
kfdWcfaDLF9tnQJPWSYoCh0USgCc8QIDAQABoAAwDQYJKoZIhvcNAQEFBQADggEB
AGiVhyMAZuHSv9yA08kJCmrgO89yRlnDUXDDo6IrODVKx4hHTiOanOPu1nsThSvH
7xV4xR35T/QV0U3yPrL6bJbbwMySOLIRTjsUcwZNjOE1xMM5EkBM2BOI5rs4l59g
FhHVejhG1LyyUDL0U82wsSLMqLFH1IT63tzwVmRiIXmAu/lHYci3+vctb+sopnN1
lY1OIuj+EgqWNrRBNnKXLTdXkzhELOd8vZEqSAfBWyjZ2mECzC7SG3evqkw/OGLk
AilNXHayiGjeY+UfWzF/HBSekSJtQu6hIv6JpBSY/MnYU4tllExqD+GX3lru4xc4
zDas2rS/Pbpn73Lf503nmsw=
-----END CERTIFICATE REQUEST-----
List of Certificates
Name       Common Name           Issued By             Status         Remaining
---------  --------------------  --------------------  -------------  ---------
example.c  example.com           example.com           Valid          3649 days
partner.c  brutus.partner.com    brutus.partner.com    Valid          30 days
Demo       Cisco Appliance Demo  Cisco Appliance Demo  Active         3467 days
Choose the operation you want to perform:
- IMPORT - Import a certificate from a local PKCS#12 file
- PASTE - Paste a certificate into the CLI
- NEW - Create a self-signed certificate and CSR
- EDIT - Update certificate or view the signing request
- EXPORT - Export a certificate
- DELETE - Remove a certificate
- PRINT - View certificates assigned to services
[]>
```

Example - Create a Self-signed S/MIME Signing Certificate

The following example shows how to create a self-signed S/MIME certificate for signing messages.

```
vm10esa0031.qa> certconfig
Choose the operation you want to perform:
- CERTIFICATE - Import, Create a request, Edit or Remove Certificate Profiles
- CERTAUTHORITY - Manage System and Customized Authorities
```

```
- CRL - Manage Certificate Revocation Lists
[]> certificate
List of Certificates
Name       Common Name           Issued By             Status         Remaining
---------  --------------------  --------------------  -------------  ---------
Demo       Cisco Appliance Demo  Cisco Appliance Demo  Active         3329 days
Choose the operation you want to perform:
- IMPORT - Import a certificate from a local PKCS#12 file
- PASTE - Paste a certificate into the CLI
- NEW - Create a self-signed certificate and CSR
- PRINT - View certificates assigned to services
[]> new
1. Create a self-signed certificate and CSR
2. Create a self-signed SMIME certificate and CSR
[1]> 2
Enter a name for this certificate profile:
> smime_signing
Enter Common Name:
> CN
Do you want to check if Common Name is in Fully Qualified Domain Name(FQDN)
format ? [N]>

Enter Organization:
> ORG
Enter Organizational Unit (Optional):
> OU
Enter Locality or City:
> BN
Enter State or Province:
> KA
Enter Country (2 letter code):
> IN
Duration before expiration (in days):
[3650]>
1. 1024
2. 2048
Enter size of private key:
[2]>
1. SHA256WithRSAEncryption
2. SHA384WithRSAEncryption
3. SHA512WithRSAEncryption
4. ecdsa-with-sha256
Choose the signature algorithm
[1]>
Enter email address for 'subjectAltName' extension:
[]> admin@example.com
Add another member? [Y]> n
Begin entering domain entries for 'subjectAltName'.
Enter the DNS you want to add.
[]> domain.com
Add another member? [Y]> n
Do you want to view the CSR? [Y]> n
List of Certificates
Name       Common Name           Issued By             Status         Remaining
---------  --------------------  --------------------  -------------  ---------
smime_sig  CN                    CN                    Valid          3649 days
Demo       Cisco Appliance Demo  Cisco Appliance Demo  Active         3329 days
Choose the operation you want to perform:
- IMPORT - Import a certificate from a local PKCS#12 file
- PASTE - Paste a certificate into the CLI
- NEW - Create a self-signed certificate and CSR
- EDIT - Update certificate or view the signing request
- EXPORT - Export a certificate
- DELETE - Remove a certificate
```

```
- PRINT - View certificates assigned to services
[]>
```

date

Description

Displays the current date and time

Usage

Commit: This command does not require a ‘commit’.

Cluster Management: This command can be used in all three machine modes (cluster, group, machine).

Batch Command: This command does not support a batch format.

Example

```
mail.example.com> date
Tue Mar 10 11:30:21 2015 GMT
```

daneverify

- Description, on page 102
- Usage, on page 102
- Example, on page 102

Description

Checks whether DANE is supported for a specified domain.

Usage

Commit: This command does not require a 'commit'.

Cluster Management: This command is restricted to machine mode.

Batch Command: This command supports a batch format. For more details, see the inline help by typing the command: `help daneverify`.

Example

In the following example, you can use the `daneverify` command to verify DANE support for a specified domain.

```
mail3.example.com> daneverify
Enter the DANE domain to verify against: []> example-dane.net
Trying DANE MANDATORY for example-dane.net
SECURE MX RECORD found for example-dane.net
SECURE A record (10.10.1.198) found for MX(mail.example.com.cs2.test-dane.net) in
example-dane.net
SECURE TLSA Record found for MX(mail.example.com.cs2.test-dane.net) in example-dane.net TLS
```

```
 connection established: protocol TLSv1.2, cipher DHE-RSA-AES128-SHA256.
Certificate verification successful for TLSA
record(030101329aad19cfb5a0bb8d3b99c67dd1282a4dcdf67bd9c4efc08578657065fe7504)
TLS connection succeeded example-dane.net.
DANE_SUCESS for example-dane.net
DANE verification completed.
```

diagnostic

Description

Use the diagnostic command to:

- Troubleshoot hardware and network issues using various utilities
- Check the RAID status
- Display ARP cache
- Clear LDAP, DNS, and ARP caches
- Send SMTP test messages
- Restart and viewing the status of Service Engines enabled on the email gateway.

Using the diagnostic Command

The following commands are available within the diagnostic submenu:

Table 5: diagnostic Subcommands

Option	Sub Commands	Availability
RAID	1. Run disk verify	Available on C30 and C60 only.
	2. Monitor tasks in progress	
	3. Display disk verify verdict	
DISK_USAGE (deprecated)	No Sub Commands	This command has been deprecated. Instead, use the **diskquotaconfig** command.
NETWORK	FLUSH	C- and M-Series
	ARPSHOW	
	SMTPPING	
	TCPDUMP	
REPORTING	DELETEDB	C- and M-Series
	DISABLE	
TRACKING	DELETEDB	C- and M-Series
	DEBUG	
RELOAD	No Sub Commands	C- and M-Series

Option	Sub Commands	Availability
RELOAD STATUS	No Sub Commands	C- and M-Series
SERVICES	RESTART STATUS	C- and M-Series

Usage

Commit: This command does not require a 'commit'.

Cluster Management: This command is restricted to machine mode. It is further restricted to the login host (i.e., the specific machine you are logged onto). This command requires access to the local file system.

Batch Command: This command supports a batch format.

Batch Format

The batch format of the diagnostic command can be used to check RAID status, clear caches and show the contents of the ARP cache. To invoke as a batch command, use the following formats:

Use the batch format to perform the following operations:

- Check the RAID status

```
diagnostic raid
```

- Show the contents of the ARP cache

```
diagnostic network arpshow
```

- Show the contents of the NDP cache

```
diagnostic network ndpshow
```

- Clear the LDAP, DNS, ARP and NDP caches

```
diagnostic network flush
```

- Reset and delete the reporting database

```
diagnostic reporting deletedb
```

- Enable reporting daemons

```
diagnostic reporting enable
```

- Disable reporting daemons

```
diagnostic reporting disable
```

- Reset and delete the tracking database

```
diagnostic tracking deletedb
```

- Reset configuration to the initial manufacturer values

```
diagnostic reload
```

Example: Displaying and Clearing Caches

The following example shows the **diagnostic** command used to display the contents of the ARP cache and to flush all network related caches.

```
mail.example.com> diagnostic
Choose the operation you want to perform:
- RAID - Disk Verify Utility.
- DISK_USAGE - Check Disk Usage.
- NETWORK - Network Utilities.
- REPORTING - Reporting Utilities.
- TRACKING - Tracking Utilities.
- RELOAD - Reset configuration to the initial manufacturer values.
- RELOAD_STATUS - Display status of last reload run.
- SERVICES - Service Utilities.
[]> network
Choose the operation you want to perform:
- FLUSH - Flush all network related caches.
- ARPSHOW - Show system ARP cache.
- NDPSHOW - Show system NDP cache.
- SMTPPING - Test a remote SMTP server.
- TCPDUMP - Dump ethernet packets.
[]> arpshow
System ARP cache contents:
(10.76.69.3) at 00:1e:bd:28:97:00 on em0 expires in 1193 seconds [ethernet]
(10.76.69.2) at 00:1e:79:af:f4:00 on em0 expires in 1192 seconds [ethernet]
(10.76.69.1) at 00:00:0c:9f:f0:01 on em0 expires in 687 seconds [ethernet]
(10.76.69.149) at 00:50:56:b2:0e:2b on em0 permanent [ethernet]
Choose the operation you want to perform:
- FLUSH - Flush all network related caches.
- ARPSHOW - Show system ARP cache.
- NDPSHOW - Show system NDP cache.
- SMTPPING - Test a remote SMTP server.
- TCPDUMP - Dump ethernet packets.
[]> flush
Flushing LDAP cache.
Flushing DNS cache.
Flushing system ARP cache.
10.76.69.3 (10.76.69.3) deleted
10.76.69.2 (10.76.69.2) deleted
10.76.69.1 (10.76.69.1) deleted
10.76.69.149 (10.76.69.149) deleted
Flushing system NDP cache.
```

```
fe80::250:56ff:feb2:e2d%em2 (fe80::250:56ff:feb2:e2d%em2) deleted
fe80::250:56ff:feb2:e2c%em1 (fe80::250:56ff:feb2:e2c%em1) deleted
fe80::250:56ff:feb2:e2b%em0 (fe80::250:56ff:feb2:e2b%em0) deleted
Network reset complete.
```

Example: Verify Connectivity to Another Mail Server

The following example shows diagnostics used to check connectivity to another mail server. You can test the mail server by sending a message or pinging the server.

```
mail.example.com> diagnostic
Choose the operation you want to perform:
- RAID - Disk Verify Utility.
- NETWORK - Network Utilities.
- REPORTING - Reporting Utilities.
- TRACKING - Tracking Utilities.
- RELOAD - Reset configuration to the initial manufacturer values.
- RELOAD_STATUS - Display status of last reload run.
- SERVICES - Service Utilities.

[]> network
Choose the operation you want to perform:
- FLUSH - Flush all network related caches.
- ARPSHOW - Show system ARP cache.
- NDPSHOW - Show system NDP cache.
- SMTPPING - Test a remote SMTP server.
- TCPDUMP - Dump ethernet packets.
[]> smtpping
Enter the hostname or IP address of the SMTP server:
[mail.example.com]> mail.com
The domain you entered has MX records.
Would you like to select an MX host to test instead? [Y]> y
Select an MX host to test.
1. mx00.gmx.com
2. mx01.gmx.com
[1]>
Select a network interface to use for the test.
1. Management
2. auto
[2]> 1
Do you want to type in a test message to send?  If not, the connection will be tested but
no email will be sent. [N]>
Starting SMTP test of host mx00.gmx.com.
Resolved 'mx00.gmx.com' to 74.208.5.4.
Unable to connect to 74.208.5.4.
```

Example: Reset Email Gateway Configuration to the Initial Manufacturer Values

The following example shows how to reset your email gateway configuration to the initial manufacturer values.

```
mail.example.com> diagnostic
Choose the operation you want to perform:
- RAID - Disk Verify Utility.
- NETWORK - Network Utilities.
- REPORTING - Reporting Utilities.
- TRACKING - Tracking Utilities.
- RELOAD - Reset configuration to the initial manufacturer values.
- RELOAD_STATUS - Display status of last reload run.
- SERVICES - Service Utilities.
[]> reload
```

```
If you run the Diagnostic reload command, the SmartLicense will be disabled.
Do you want to continue? [N]> y
This command will remove all user settings and reset the device.
If this is a Virtual Appliance, all feature keys will be removed, and the
license must be re-applied. This resets the network configuration to
factory defaults. You might lose connection to the device
if you are connected remotely.
Are you sure you want to continue? [N]> Y
Are you *really* sure you want to continue? [N]> Y
Do you want to wipe also? Warning: This action is recommended
if the device is being sanitized before sending it for RMA.
Sometimes, it may take several minutes to complete the process
because it follows the NIST Purge standard.
Do you want to continue? [N]> Y

mail.example.com> diagnostic
Choose the operation you want to perform:
- RAID - Disk Verify Utility.
- NETWORK - Network Utilities.
- REPORTING - Reporting Utilities.
- TRACKING - Tracking Utilities.
- RELOAD - Reset configuration to the initial manufacturer values.
- RELOAD_STATUS - Display status of last reload run.
- SERVICES - Service Utilities.
[]> reload_status
Last Reload Status        Last Updated
Successful                12 Dec 2022 06:45 (GMT +00:00)
```

Restarting and Viewing Status of Service Engines

You can use the `diagnostic > services` sub command in the CLI to:

- Restart the service engines enabled on your email gateway without having to reboot your email gateway.
- View the status of service engines enabled on your email gateway.

For more information, refer to the CLI Reference Guide for Cisco Secure Email Gateway.

diskquotaconfig

View or configure disk space allocation for reporting and tracking, quarantines, log files, packet captures, and configuration files.

See *User Guide for AsyncOS for Cisco Secure Email Gateway* for complete information about this feature.

Usage

Commit: This command requires a ‘commit’.

Cluster Management: This command is restricted to machine mode.

Batch Command: This command supports a batch format.

Batch Format

diskquotaconfig <feature> <quota> [<feature> <quota> [<feature> <quota>[<feature> <quota>]]]

Valid values for <feature> are euq , pvo , tracking , reporting

Valid values for <quota> are integers.

Example

```
mail.example.com> diskquotaconfig
     Service                                       Disk Usage(GB)     Quota(GB)
     ------------------------------------------------------------------------------
     Spam Quarantine (EUQ)                         1                  1
     Policy, Virus & Outbreak Quarantines          1                  3
     Reporting                                     5                  10
     Tracking                                      1                  10
     Miscellaneous Files                           5                  30
           System Files Usage : 5 GB
           User Files Usage : 0 GB
     Total                                         13                 54 of 143
Choose the operation you want to perform:
- EDIT - Edit disk quotas
[]> edit
Enter the number of the service for which you would like to edit disk quota:
1. Spam Quarantine (EUQ)
2. Policy, Virus & Outbreak Quarantines
3. Reporting
4. Tracking
5. Miscellaneous Files
[1]> 1
Enter the new disk quota -
[1]> 1
Disk quota for Spam Quarantine (EUQ) changed to 1
     Service                                       Disk Usage(GB)     Quota(GB)
     ------------------------------------------------------------------------------
     Spam Quarantine (EUQ)                         1                  1
     Policy, Virus & Outbreak Quarantines          1                  3
     Reporting                                     5                  10
     Tracking                                      1                  10
     Miscellaneous Files                           5                  30
           System Files Usage : 5 GB
           User Files Usage : 0 GB
     Total                                         13                 54 of 143
Choose the operation you want to perform:
- EDIT - Edit disk quotas
[]>
```

ecconfig

Set or clear the enrollment client that is used to obtain certificates for use with the URL Filtering feature.

Do not use this command without guidance from Cisco support.

Entries must be in the format <hostname:port> or <IPv4 address:port> . Port is optional.

To specify the default server, enter ecconfig server default .

Usage

Commit: This command requires a ‘commit’.

Cluster Management: This command can be used at all levels in a cluster.

Batch Command: This command supports a batch format.

Batch Format

- To specify a non-default enrollment client server:

```
> ecconfig server <server_name:port>
```

To use the default enrollment client server:

```
> ecconfig server default
```

Example

```
mail.example.com> ecconfig
Enrollment Server: Not Configured (Use Default)
Choose the operation you want to perform:
- SETUP - Configure the Enrollment Server
[]> setup
Do you want to use non-default Enrollment server?
WARNING: Do not configure this option without the assistance of Cisco Support.
Incorrect configuration can impact the services using certificates from the Enrollment
server. [N]> y
[]> 192.0.2.1
Choose the operation you want to perform:
- SETUP - Configure the Enrollment Server
[]>
```

ecstatus

Display the current version of the enrollment client that is used to automatically obtain certificates for use with the URL Filtering feature.

Usage

Commit: This command does not require a ‘commit’.

Cluster Management: This command is restricted to machine mode.

Batch Command: This command does not support a batch format.

Example

```
mail.example.com> ecstatus
Component                 Version    Last Updated
Enrollment Client         1.0.2-046  Never updated
```

ecupdate

Manually update the enrollment client that is used to automatically obtain certificates for use with the URL Filtering feature. Normally, these updates occur automatically. Do not use this command without guidance from Cisco support.

If you use the force parameter (ecupdate [force]) the client is updated even if no changes are detected.

Usage

Commit: This command does not require a 'commit'.

Cluster Management: This command is restricted to machine mode.

Batch Command: This command supports a batch format.

Batch Format

```
> ecupdate [force]
```

Example

```
mail.example.com> ecupdate
Requesting update of Enrollment Client.
```

encryptionconfig

Configure email encryption.

Usage

Commit: This command requires a 'commit'.

Cluster Management: This command is restricted to machine mode.

Batch Command: This command does not support a batch format

Example

The following example shows modifications to an encryption profile:

```
mail.example.com> encryptionconfig
IronPort Email Encryption: Enabled
Choose the operation you want to perform:
- SETUP - Enable/Disable IronPort Email Encryption
- PROFILES - Configure email encryption profiles
- PROVISION - Provision with the Cisco Registered Envelope Service
[]> setup
PXE Email Encryption: Enabled
Would you like to use PXE Email Encryption? [Y]>
WARNING: Increasing the default maximum message size(10MB) may result in
decreased performance. Please consult documentation for size recommendations
based on your environment.
Maximum message size for encryption: (Add a trailing K for kilobytes, M for
megabytes, or no letters for bytes.)
[10M]>
Enter the email address of the encryption account administrator
[administrator@example.com]>
IronPort Email Encryption: Enabled
Choose the operation you want to perform:
- SETUP - Enable/Disable IronPort Email Encryption
- PROFILES - Configure email encryption profiles
- PROVISION - Provision with the Cisco Registered Envelope Service
[]> profiles
Proxy: Not Configured
```

```
Profile Name         Key Service            Proxied     Provision Status
------------         -----------            -------     ----------------
HIPAA                Hosted Service         No          Not Provisioned
Choose the operation you want to perform:
- NEW - Create a new encryption profile
- EDIT - Edit an existing encryption profile
- DELETE - Delete an encryption profile
- PRINT - Print all configuration profiles
- CLEAR - Clear all configuration profiles
- PROXY - Configure a key server proxy
[]> edit
1. HIPAA
Select the profile you wish to edit:
[1]> 1
Profile name: HIPAA
External URL: https://res.cisco.com
Encryption algorithm: AES-192
Payload Transport URL: http://res.cisco.com
Envelope Security: High Security
Return receipts enabled: Yes
Secure Forward enabled: No
Secure Reply All enabled: No
Suppress Applet: No
URL associated with logo image: <undefined>
Encryption queue timeout: 14400
Failure notification subject: [ENCRYPTION FAILURE]
Failure notification template: System Generated
Filename for the envelope: securedoc_${date}T${time}.html
Use Localized Envelope: No
Text notification template: System Generated
HTML notification template: System Generated
Choose the operation you want to perform:
- NAME - Change profile name
- EXTERNAL - Change external URL
- ALGORITHM - Change encryption algorithm
- PAYLOAD - Change the payload transport URL
- SECURITY - Change envelope security
- RECEIPT - Change return receipt handling
- FORWARD - Change "Secure Forward" setting
- REPLYALL - Change "Secure Reply All" setting
- LOCALIZED_ENVELOPE - Enable or disable display of envelopes in languages
other than English
- APPLET - Change applet suppression setting
- URL - Change URL associated with logo image
- TIMEOUT - Change maximum time message waits in encryption queue
- BOUNCE_SUBJECT - Change failure notification subject
- FILENAME - Change the file name of the envelope attached to the encryption
notification.
[]> security
1. High Security (Recipient must enter a passphrase to open the encrypted
message, even if credentials are cached ("Remember Me" selected).)
2. Medium Security (No passphrase entry required if recipient credentials are
cached ("Remember Me" selected).)
3. No passphrase Required (The recipient does not need a passphrase to open the
encrypted message.)
Please enter the envelope security level:
[1]> 1
Profile name: HIPAA
External URL: https://res.cisco.com
Encryption algorithm: AES-192
Payload Transport URL: http://res.cisco.com
Envelope Security: High Security
Return receipts enabled: Yes
Secure Forward enabled: No
```

Example

```
Secure Reply All enabled: No
Suppress Applet: No
URL associated with logo image: <undefined>
Encryption queue timeout: 14400
Failure notification subject: [ENCRYPTION FAILURE]
Failure notification template: System Generated
Filename for the envelope: securedoc_${date}T${time}.html
Use Localized Envelope: No
Text notification template: System Generated
HTML notification template: System Generated
Choose the operation you want to perform:
- NAME - Change profile name
- EXTERNAL - Change external URL
- ALGORITHM - Change encryption algorithm
- PAYLOAD - Change the payload transport URL
- SECURITY - Change envelope security
- RECEIPT - Change return receipt handling
- FORWARD - Change "Secure Forward" setting
- REPLYALL - Change "Secure Reply All" setting
- LOCALIZED_ENVELOPE - Enable or disable display of envelopes in languages
other than English
- APPLET - Change applet suppression setting
- URL - Change URL associated with logo image
- TIMEOUT - Change maximum time message waits in encryption queue
- BOUNCE_SUBJECT - Change failure notification subject
- FILENAME - Change the file name of the envelope attached to the encryption
notification.
[]> forward
Would you like to enable "Secure Forward"? [N]> y
Profile name: HIPAA
External URL: https://res.cisco.com
Encryption algorithm: AES-192
Payload Transport URL: http://res.cisco.com
Envelope Security: High Security
Return receipts enabled: Yes
Secure Forward enabled: Yes
Secure Reply All enabled: No
Suppress Applet: No
URL associated with logo image: <undefined>
Encryption queue timeout: 14400
Failure notification subject: [ENCRYPTION FAILURE]
Failure notification template: System Generated
Filename for the envelope: securedoc_${date}T${time}.html
Use Localized Envelope: No
Text notification template: System Generated
HTML notification template: System Generated
Choose the operation you want to perform:
- NAME - Change profile name
- EXTERNAL - Change external URL
- ALGORITHM - Change encryption algorithm
- PAYLOAD - Change the payload transport URL
- SECURITY - Change envelope security
- RECEIPT - Change return receipt handling
- FORWARD - Change "Secure Forward" setting
- REPLYALL - Change "Secure Reply All" setting
- LOCALIZED_ENVELOPE - Enable or disable display of envelopes in languages
other than English
- APPLET - Change applet suppression setting
- URL - Change URL associated with logo image
- TIMEOUT - Change maximum time message waits in encryption queue
- BOUNCE_SUBJECT - Change failure notification subject
- FILENAME - Change the file name of the envelope attached to the encryption
notification.
[]>
```

```
Proxy: Not Configured
Profile Name         Key Service            Proxied     Provision Status
------------         -----------            -------     ----------------
HIPAA                Hosted Service         No          Not Provisioned
Choose the operation you want to perform:
- NEW - Create a new encryption profile
- EDIT - Edit an existing encryption profile
- DELETE - Delete an encryption profile
- PRINT - Print all configuration profiles
- CLEAR - Clear all configuration profiles
- PROXY - Configure a key server proxy
[]>
IronPort Email Encryption: Enabled
Choose the operation you want to perform:
- SETUP - Enable/Disable IronPort Email Encryption
- PROFILES - Configure email encryption profiles
- PROVISION - Provision with the Cisco Registered Envelope Service
[]>
```

encryptionstatus

Description

The **encryptionstatus** command shows the version of the PXE Engine and Domain Mappings file on the email gateway, as well as the date and time the components were last updated.

Usage

Commit: This command does not require a 'commit'.

Cluster Management: This command is restricted to machine mode.

Batch Command: This command does not support a batch format.

Example

```
mail3.example.com> encryptionstatus
Component                Version    Last Updated
PXE Engine               6.7.1      17 Nov 2009 00:09 (GMT)
Domain Mappings File     1.0.0      Never updated
```

encryptionupdate

Description

The **encryptionupdate** command requests an update to the PXE Engine on the email gateway.

Usage

Commit: This command does not require a 'commit'.

Cluster Management: This command is restricted to machine mode. It is further restricted to the login host (i.e., the specific machine you are logged onto).

Batch Command: This command does not support a batch format.

Example

```
mail3.example.com> encryptionupdate
Requesting update of PXE Engine.
```

enginestatus

Description

The **enginestatus** command is used to display the status and CPU usage of various engines enabled on the email gateway.

Usage

Commit: This command does not requires a 'commit'.

Cluster Management: This command can be used in all three machine modes (cluster, group, machine).

Batch Command: This command supports a batch format. For more details, see the inline help by typing the command: help enginestatus.

Example

The following example shows how to view the status and CPU usage of all engines enabled on the email gateway:

```
vm30esa0086.ibqa> enginestatus
Choose the operation you want to perform:
- GRAYMAIL - View Graymail engine status
- SOPHOS - View Sophos engine status
- CASE - View CASE engine status
- AMP - View AMP engine status
- MCAFEE - View McAfee engine status
- ALL - View status of All engines
[]> ALL
CASE Status: UP CPU: 0.0%
Component                      Version                              Last Updated
CASE Core Files                3.5.0-008                            Never updated
CASE Utilities                 3.5.0-008                            Never updated
Structural Rules               3.3.1-009-20141210_214201            Never updated
Web Reputation DB              20141211_111021                      Never updated
Web Reputation Rules           20141211_111021-20141211_170330      Never updated
Content Rules                  unavailable                          Never updated
Content Rules Update           unavailable                          Never updated
SOPHOS Status: UP CPU: 0.0%
Component                      Version                              Last Updated
Sophos Anti-Virus Engine       3.2.07.365.2_5.30                    Never updated
Sophos IDE Rules               0                                    Never updated
GRAYMAIL Status: UP CPU: 0.0%
Component                      Version                              Last Updated
Graymail Engine                01-392.68                            N10 Nov 2016 07:08 (GMT
 +00:00) updated
Graymail Rules                 01-392.68#121                        Never updated
Graymail Tools                 1.0.03                               Never updated
MCAFEE Status: UP CPU: 0.0%
Component                      Version                              Last Updated
McAfee Engine                  5700                                 Never updated
```

```
McAfee DATs                    7437                            Never updated
AMP Status: UP CPU: 0.0%
Component                      Version                         Last Updated
AMP Client Settings            1.0                             Never updated
AMP Client Engine              1.0                             Never updated
```

featurekey

Description

The **featurekey** command lists all functionality enabled by keys on the system and information related to the keys.

For virtual email gateways, see also loadlicense, on page 371 and showlicense , on page 372.

Usage

Commit: This command requires a 'commit'.

Cluster Management: This command is restricted to machine mode.

Batch Command: This command does not support a batch format

Example

In this example, the **featurekey** command is used to check for new feature keys.

```
mail3.example.com> featurekey
Module                          Quantity   Status     Remaining   Expiration Date
Outbreak Filters                1          Active     28 days     Tue Feb 25 06:40:53
2014
IronPort Anti-Spam              1          Dormant    30 days     Wed Feb 26 07:56:57
2014
Sophos Anti-Virus               1          Active     26 days     Sun Feb 23 02:27:48
2014
Bounce Verification             1          Dormant    30 days     Wed Feb 26 07:56:57
2014
Incoming Mail Handling          1          Active     20 days     Sun Feb 16 08:55:58
2014
IronPort Email Encryption       1          Dormant    30 days     Wed Feb 26 07:56:57
2014
Data Loss Prevention            1          Active     25 days     Fri Feb 21 10:07:10
2014
McAfee                          1          Dormant    30 days     Wed Feb 26 07:56:57
2014
```

fipsconfig

Description

The **fipsconfig** command configures the Federal Information Processing Standard (FIPS) settings for Email Security appliances. You can use this command to:

- Enable or disable FIPS mode
- Encrypt sensitive data such as passwords and keys, in your appliance. If you enable this option,
- Sensitive data in your appliance are encrypted and stored.

Note All users, including the administrators, cannot view the sensitive information in the configuration files.

- Swap space in your appliance is encrypted to prevent any unauthorized access or forensic attacks, if the physical security of the appliance is compromised.
- Check if your appliance contains any non-FIPS-compliant objects.

Usage

Commit: This command does not require a 'commit'.

Cluster Management: This command can be used in the following modes: cluster and machine.

Batch Command: This command does not support a batch format.

Example: Checking FIPS Mode Compliance

The following example shows how to check if your appliance contains any non-FIPS-compliant objects.

```
mail.example.com> fipsconfig

FIPS mode is currently disabled.

Choose the operation you want to perform:
- SETUP - Configure FIPS mode.
- FIPSCHECK - Check for FIPS mode compliance.
- ENCRYPTCONFIG - Configure encryption of sensitive data in the appliance
[]> fipscheck

Currently, there are non-FIPS-compliant objects configured.

List of non FIPS compliant DKIM Verification Profiles:
               Profile Name            Key Size
-------------------------------------------------------------
 1.            DEFAULT                 512

To be FIPS compliant, you must modify the above listed objects to meet FIPS requirements.
For more information, see the
FIPS Management chapter in the Cisco AsyncOS Email User Guide.

FIPS mode is currently disabled.
```

Note Before enabling FIPS mode, you must modify all the non-FIPS-compliant objects to meet the FIPS requirements.

Example: Enabling FIPS Mode

Note Before enabling FIPS mode, you must modify all the non-FIPS-compliant objects to meet the FIPS requirements.

The following example shows how to enable FIPS mode.

```
mail.example.com> fipsconfig
FIPS mode is currently disabled.

Choose the operation you want to perform:
- SETUP - Configure FIPS mode.
- FIPSCHECK - Check for FIPS mode compliance.
- ENCRYPTCONFIG - Configure encryption of sensitive data in the appliance.
[]> setup

To finalize FIPS mode, the appliance will reboot immediately. No commit will be required.

Are you sure you want to enable FIPS mode and reboot now ? [N]> yes

Do you want to minimize FIPS restriction on SMTP in the email gateway ? [N]> no

Enter the number of seconds to wait before forcibly closing connections.
[30]>

System rebooting. Please wait while the queue is being closed...
Closing CLI connection.
Rebooting the system...
```

Example: Enabling FIPS Mode in Clusters

Note Before enabling FIPS mode in a cluster, you must modify all the non-FIPS-compliant objects to meet the FIPS requirements.

The following example shows how to enable FIPS mode in a cluster.

```
cluster mail.example.com> fipsconfig
FIPS mode is currently disabled.

Choose the operation you want to perform:
- SETUP - Configure FIPS mode.
- FIPSCHECK - Check for FIPS mode compliance.
- ENCRYPTCONFIG - Configure encryption of sensitive data in the appliance.
[]> setup

To finalize FIPS mode, each cluster member must be rebooted. Your login host will reboot
immediately. Following machines must be rebooted manually. No commit will be required.

cluster mail.example.com
------------------------
  Group Main_Group:
example-vm01esa-o1.cs (Serial #: 1234ABCD-E5678WXYZ)
example-vm02esa-o2.cs (Serial #: 4567PQRS-E6789GHIJ)

Are you sure you want to enable FIPS mode and reboot now ? [N]> Yes

Do you want to minimize FIPS restriction on SMTP in the email gateway ? [N]>

Enter the number of seconds to wait before forcibly closing connections.
[30]>

Telling cluster that example-vm01esa-o1.cs02 is going down...
System rebooting. Please wait while the queue is being closed..

Closing CLI connection.
Rebooting the system...
```

Note In a cluster with multiple Secure Email Gateways, you need to manually reboot each machine to enable FIPS mode after it is enabled on the first machine. The **fipsconfig** command is shared across the cluster, but each Secure Email Gateway requires a separate reboot. Log in to each Secure Email Gateway, check for reboot warnings, and reboot it to activate FIPS mode.

Example: Disabling FIPS Mode in Clusters

Note Before disabling FIPS mode in a cluster, you must modify all the non-FIPS-compliant objects to meet the FIPS requirements.

The following example shows how to disable FIPS mode in a cluster.

```
cluster mail.example.com> fipsconfig
FIPS mode is currently enabled.

Choose the operation you want to perform:
- SETUP - Configure FIPS mode.
- FIPSCHECK - Check for FIPS mode compliance.
- MINIMIZEDATA - Minimize FIPS restriction on SMTP
- ENCRYPTCONFIG - Configure encryption of sensitive data in the appliance.
[]> setup

To finalize FIPS mode, each cluster member must be rebooted. Your login host will reboot
immediately. Following machines must be rebooted manually. No commit will be required.

cluster mail.example.com
------------------------
Group Main_Group:
example-vm01esa-o1.cs (Serial #: 1234ABCD-E5678WXYZ)
example-vm02esa-o2.cs (Serial #: 4567PQRS-E6789GHIJ)

Are you sure you want to disable FIPS mode and reboot now ? [N]> Yes

Enter the number of seconds to wait before forcibly closing connections.
[30]>

Telling cluster that example-vm01esa-o1.cs02 is going down . . .
System rebooting. Please wait while the queue is being closed...

Closing CLI connection.
Rebooting the system...
```

Note In a cluster with multiple Secure Email Gateways, you need to manually reboot each machine to disable FIPS mode after it is disabled on the first machine. The **fipsconfig** command is shared across the cluster, but each Secure Email Gateway requires a separate reboot. Log in to each Secure Email Gateway, check for reboot warnings, and reboot it to deactivate FIPS mode.

Example: Encrypting Sensitive Data in a FIPS Compliant Appliance

The following example shows how to encrypt sensitive data in a FIPS compliant appliance.

```
mail1.example.com> fipsconfig

FIPS mode is currently disabled.

Choose the operation you want to perform:
- SETUP - Configure FIPS mode.
- FIPSCHECK - Check for FIPS mode compliance.
- ENCRYPTCONFIG - Configure encryption of sensitive data in the appliance.
[]> encryptconfig

Do you want to enable encryption of sensitive data in the appliance?  [Y]> yes

Encryption is in enable state.
mail1.example.com>
```

Example: Minimizing FIPS Restriction on SMTP in FIPS Mode

Use the `fipsconfig` -> `MINIMIZEDATA` subcommand to minimize FIPS restriction on SMTP in the FIPS mode.

```
mail.example.com> fipsconfig

FIPS mode is currently enabled.

Choose the operation you want to perform:
- SETUP - Configure FIPS mode.
- FIPSCHECK - Check for FIPS mode compliance.
- MINIMIZEDATA - Minimize FIPS restriction on SMTP
- ENCRYPTCONFIG - Configure encryption of sensitive data in the appliance.
[]> minimizedata

FIPS restriction is currently enforced for SMTP in the email gateway.

When you change FIPS restriction, the email gateway reboots immediately. No commit is
required.

Do you want to minimize FIPS restriction on SMTP in the email gateway ? [N]>y
```

generalconfig

Description

The **generalconfig** command allows you to configure browser settings.

Usage

Commit: This command requires ‘commit’.

Cluster Management: This command can be used in all three machine modes (cluster, group, machine).

Batch Command: This command supports a batch format. For details, see the inline help by typing the command: help generalconfig .

Example - Configure Internet Explorer Compatibility Mode Override

The following example shows how to override IE Compatibility Mode.

```
mail.example.com> generalconfig
Choose the operation you want to perform:
- IEOVERRIDE - Configure Internet Explorer Compatibility Mode Override
[]> ieoverride
    For better web interface rendering, we recommend that you enable Internet
    Explorer Compatibility Mode Override. However, if enabling this feature
    is against your organizational policy, you may disable this feature.
    Internet Explorer Compatibility Mode Override is currently disabled.
Would you like to enable Internet Explorer Compatibility Mode Override? [N]y
Choose the operation you want to perform:
- IEOVERRIDE - Configure Internet Explorer Compatibility Mode Override
[]>
```

healthcheck

Description

Checks the health of your email gateway. Health check analyzes historical data (up to three months) in the current Status Logs to determine the health of the email gateway.

Usage

Commit: This command does not require a 'commit'.

Cluster Management: This command can be used in all three machine modes (cluster, group, machine).

Batch Command: This command does not support a batch format.

Example

```
mail.example.com> healthcheck
Analyzing the system to determine current health of the system.
The analysis may take a while, depending on the size of the historical data.

System analysis is complete.
The analysis indicates that the system has experienced the following issue(s) recently:
Entered Resource conservation mode
Delay in mail processing
High CPU usage
High memory page swapping
High memory usage

For more information about these problems and how to remediate them, see the TechNote
http://www.cisco.com/c/en/us/support/docs/security/email-security-appliance/
118881-technote-esa-00.html
```

healthconfig

Description

Configure the threshold of various health parameters of your email gateway such as CPU usage, maximum messages in work queue and so on

Usage

Commit: This command requires ‘commit’.

Cluster Management: This command can be used in all three machine modes (cluster, group, machine).

Batch Command: This command does not support a batch format.

Example

```
mail.example.com> healthconfig
Choose the operation you want to perform:
- WORKQUEUE - View and edit workqueue-health configuration.
- CPU - View and edit CPU-health configuration.
- SWAP - View and edit swap-health configuration.
[]> workqueue
Number of messages in the workqueue : 0
Current threshold on the workqueue size : 500
Alert when exceeds threshold : Disabled
Do you want to edit the settings? [N]> y
Please enter the threshold value for number of messages in work queue.
[500]> 550
Do you want to receive alerts if the number of messages in work queue exceeds
threshold value? [N]> n
Choose the operation you want to perform:
- WORKQUEUE - View and edit workqueue-health configuration.
- CPU - View and edit CPU-health configuration.
- SWAP - View and edit swap-health configuration.
[]> cpu
Overall CPU usage : 0 %
Current threshold on the overall CPU usage: 85 %
Alert when exceeds threshold : Disabled
Do you want to edit the settings? [N]> y
Please enter the threshold value for overall CPU usage (in percent)
[85]> 90
Do you want to receive alerts if the overall CPU usage exceeds threshold value?[N]> n
Choose the operation you want to perform:
- WORKQUEUE - View and edit workqueue-health configuration.
- CPU - View and edit CPU-health configuration.
- SWAP - View and edit swap-health configuration.
[]> swap
Number of pages swapped from memory in a minute : 0
Current threshold on the number of pages swapped from memory per minute : 5000
Alert when exceeds threshold : Disabled
Do you want to edit the settings? [N]> y
Please enter the threshold value for number of pages swapped from memory in a
minute.
[5000]> 5500
Do you want to receive alerts if number of pages swapped from memory in a
minute exceeds the threshold? [N]> n
Choose the operation you want to perform:
- WORKQUEUE - View and edit workqueue-health configuration.
- CPU - View and edit CPU-health configuration.
- SWAP - View and edit swap-health configuration.
[]>
```

help vlninfo

Description

Display the VLN details. It provides the help support for `vlninfo` command.

Usage

Commit: This command does not require a 'commit'.

Cluster Management: This command can be used in all three machine modes (cluster, group, and machine).

Batch Command: This command does not support a batch format.

Note The `vlninfo` command is only applicable for Smart Software Licensing registered and SLR or PLR registered virtual devices.

Example

```
mail.example.com> help vlninfo

Show VLN details
```

ntpconfig

Description

The **`ntpconfig`** command configures AsyncOS to use Network Time Protocol (NTP) to synchronize the system clock with other computers. NTP can be turned off using the **`settime`** command.

Usage

Commit: This command requires 'commit'.

Cluster Management: This command can be used in all three machine modes (cluster, group, machine).

Batch Command: This command does not support a batch format.

Example

```
mail3.example.com>
ntpconfig
Currently configured NTP servers:
1. time.ironport.com
Choose the operation you want to perform:
- NEW - Add a server.

- DELETE - Remove a server.
- SOURCEINT - Set the interface from whose IP address NTP queries should originate.
- AUTH - Configure NTP authentication.
[]> new
```

```
Please enter the fully qualified hostname or IP address of your NTP server.
[]> ntp.example.com
Currently configured NTP servers:
1. time.ironport.com
2. bitsy.mit.edi
Choose the operation you want to perform:
- NEW - Add a server.

- DELETE - Remove a server.
- SOURCEINT - Set the interface from whose IP address NTP queries should originate.
- AUTH - Configure NTP authentication.
[]> sourceint

When initiating a connection to an NTP server, the outbound IP address
used is chosen automatically.
If you want to choose a specific outbound IP address,please select
its interface name now.
1. Auto
2. Management (172.19.0.11/24: elroy.run)
3. PrivateNet (172.19.1.11/24: elroy.run)
4. PublicNet (172.19.2.11/24: elroy.run)
[1]> 1
Currently configured NTP servers:
1. time.ironport.com
2. bitsy.mit.edi
Choose the operation you want to perform:
- NEW - Add a server.

- DELETE - Remove a server.
- SOURCEINT - Set the interface from whose IP address NTP queries should originate.
- AUTH - Configure NTP authentication.
[]> auth

Would you like to enable NTP authentication? [N]>yes
Currently configured NTP servers:
1. time.ironport.com
2. bitsy.mit.edi
Authentication is on
Choose the operation you want to perform:
- NEW - Add a server.

- DELETE - Remove a server.
- SOURCEINT - Set the interface from whose IP address NTP queries should originate.
- AUTH - Configure NTP authentication.

mail3.example.com> commit
Please enter some comments describing your changes:
[]> Added new NTP server
Do you want to save the current configuration for rollback? [Y]> n
Changes committed: Fri May 23 11:42:12 2014 GMT
```

portalregistrationconfig

The Cisco Talos Email Status Portal is a web-based tool for monitoring the status of email submissions from end-users. This portal requires all your email gateways to have a common registration ID.

Use the **portalregistrationconfig** command in CLI to set the registration ID. If your email gateways are not part of a cluster, you must set a common registration ID on all your email gateways.

For more information about the portal, see Managing Spam and Graymail chapter in user guide or online help.

Usage

Commit: This command requires ‘commit’.

Cluster Management: This command can be used in all three machine modes (cluster, group, machine).

Batch Command: This command does not support a batch format.

Example

```
 mail3.example.com> portalregistrationconfig

Choose the operation you want to perform:

- REGISTRATION_ID - Set up the Registration ID.
  []> registration_id
  Enter the new value of the Registration ID.
  []> registrationidexample1234
```

reboot

Description

Restart the email gateway.

Usage

Commit: This command does not require a ‘commit’.

Cluster Management: This command is restricted to machine mode.

Batch Command: This command does not support a batch format.

Example

```
mail3.example.com> reboot
Enter the number of seconds to wait before abruptly closing connections.
[30]>
Waiting for listeners to exit...
Receiving suspended.
Waiting for outgoing deliveries to finish...
Mail delivery suspended.
```

resume

Description

Resume receiving and deliveries

Usage

Commit: This command does not require a ‘commit’.

Cluster Management: This command is restricted to machine mode.

Batch Command: This command does not support a batch format.

Example

```
mail3.example.com> resume
Receiving resumed for Listener 1.
Mail delivery resumed.
Mail delivery for individually suspended domains must be resumed individually.
```

resumedel

Description

Resume deliveries.

Usage

Commit: This command does not require a 'commit'.

Cluster Management: This command is restricted to machine mode.

Batch Command: This command does not support a batch format.

Example

```
mail.example.com> resumedel
Currently suspended domains:
1. domain1.com
2. domain2.com
3. domain3.com
Enter one or more domains [comma-separated] to which you want to resume delivery.
[ALL]> domain1.com, domain2.com
Mail delivery resumed.
```

resumelistener

Description

Resume receiving on a listener.

Usage

Commit: This command does not require a 'commit'.

Cluster Management: This command is restricted to machine mode.

Batch Command: This command does not support a batch format.

Example

```
mail3.example.com> resumelistener
```

```
Choose the listener(s) you wish to resume.
Separate multiple entries with commas.
1. All
2. InboundMail
3. OutboundMail
[1]> 1
Receiving resumed.
mail3.example.com>
```

revert

Description

Revert to a previous release.

Usage

Commit: This command does not require a 'commit'.

Cluster Management: This command can be used in all three machine modes (cluster, group, machine).

Batch Command: This command does not support a batch format.

Example

```
mail.example.com> revert
This command will revert the appliance to a previous version of AsyncOS.
WARNING: Reverting the appliance is extremely destructive.
The following data will be destroyed in the process:
- all configuration settings (including listeners)
- all log files
- all databases (including messages in Virus Outbreak and Policy quarantines)
- all reporting data (including saved scheduled reports)
- all message tracking data
- all IronPort Spam Quarantine message and end-user safelist/blocklist data
Only the network settings will be preserved.
Before running this command, be sure you have:
- saved the configuration file of this appliance (with passphrases unmasked)
- exported the IronPort Spam Quarantine safelist/blocklist database
  to another machine (if applicable)
- waited for the mail queue to empty
Reverting the device causes an immediate reboot to take place.
After rebooting, the appliance reinitializes itself and reboots
again to the desired version.
    Available versions
    ==================
 1. 9.1.0-019
Please select an AsyncOS version [1]:
Do you want to continue? [N]>
```

samlconfig

- Description, on page 127
- Usage, on page 127
- Example – Configure New SAML Profile, on page 127

• Example – Modifying SAML Profile, on page 129

Description

Configure SAML profile with Service Provider and Identity Provider Settings.

Usage

Commit: This command requires a 'commit'.

Cluster Management: This command can be used in all three machine modes (cluster, group, and machine).

Batch Command: This command does not support a batch format.

Example – Configure New SAML Profile

In the following example, the samlconfig command is used to create a new SAML Profile with service provider and identity provider settings. You must enter a valid certificate and the private key for the service provider. You can either configure the identity provider configuration manually or import an existing identity provider metadata.

```
mail.example.com > samlconfig
Choose the operation you want to perform:
- UILOGIN - Create a new SAML Profile for UI Login.
[]> uilogin
No SAML profiles are configured on the system.
Choose the operation you want to perform:
- NEW - Create a new SAML profile.
[]> new
Please enter the Service Provider Settings:
Enter the SP profile Name:
[]> SP1
Enter the SP Entity Id:
[]> ENTSP
Name ID Format: urn:oasis:names:tc:SAML:1.1:nameid-format:emailAddress
Assertion Consumer URL: http://mail.example.com
Please paste the SP Certificate
.
Paste the content now.
Press CTRL-D on a blank line when done.
-----BEGIN CERTIFICATE-----
MIIDMTCCAhmgAwIBAgIJAPSTH66oUo0kMA0GCSqGSIb3DQEBBQUAMC8xLTArBNV
BAMMJHZtMjFlc2EwMTMzLmNzMjEuZGV2aXQuY2lzY29sYWJzLmNvbTAeFw0xOTA1
MDkxMzA3NDRaFw0yOTA1MDYxMzA3NDRaMC8xLTArBgNVBAMMJHZtMjFlc2EwMTMz
LmNzMjEuZGV2aXQuY2lzY29sYWJzLmNvbTCCASIwDQYJKoZIhvcNAQEBBQADggEP
ADCCAQoCggEBAM1/iDEkYMKOXXU+XWQr+KrDxdNxq3tCkqLmZwFH4TjzxYLIwKsX
BZt8mlGiilEn/8ilBHlNDtju399qi7ZdSV2OIozrIqm9tPsgGCfoi90F3AM0WYTP
BWXi6MaJMJPlIkA0lZvVLVqXjUcSM2esAsLNY1qmz/MDqK/x11FWK5qCh/2J9n9n
4NuRpXsZDqCq4ERKhHOizrO1esoqKEF3Cn9yDDkFQb4NgRC9CDNWCIF7jbdIcD5T
H4nIus2k5dyo57NIZtdLhLFidUFJ0MycGXZfO7+AHuST0ofnTxgz1o3ZpcxwZl4m
40UNOQhK7DrBDfSAAjITpyAZ1CuXIKnLkEsCAwEAAaNQME4wHQYDVR0OBBYEFKWK
siiXt1Qfe/EXFhEnTuZoJzoCMB8GA1UdIwQYMBaAFKWKsiiXt1Qfe/EXFhEnTuZo
JzoCMAwGA1UdEwQFMAMBAf8wDQYJKoZIhvcNAQEFBQADggEBADuzDA0iqITrrZC/
jEdwlbz5rbJCMu96mDlH2zzjvQj5K8WNbkTa/UDcj42+2fP+w+DfIjeKcZwUTHGp
TMmVsLAtuL8oF2uKuNhGUD8tVvqbRFAgb7OefOfYWXKjDyhfNsWxohNemDne+RZc
DZ7bS/NG2Wkj0wiZBUCj42+0emtDDa0k2Imi/LquZnQomNfsid2OZiAh89gfEgRU
zogadeWGTGtOB2bDlU4pwaLx+4gKI25ZjpFtk6ak4p8NDZGNDZE3r4IvsP9mlSSe
0IA+RwGBbgQxnFuuh9s8NuxlDzNj38Pb6qedjujwIHh3TTYETJ3rS5jBWnlJdsmt
2po7pB8=
-----END CERTIFICATE-----
Please paste the SP Certificate Key
```

```
.
Paste the content now.
Press CTRL-D on a blank line when done.
-----BEGIN RSA PRIVATE KEY-----
MIIEowIBAAKCAQEAzX+IMSRgwo5ddT5dZCv4qsPF03Gre0KSouZnAUfhOPPFgjA
qxcFm3yaUaKKUSf/yKUEeU0O2O7f32qLtl1JXY4ijOsiqb20+yAYJ+iL3QXcAzRZ
hM8FZeLoxokwk+UiQDSVm9UtWpeNRxIzZ6wCws1jWqbP8wOor/HXUVYrmoKH/Yn2
f2fg25GlexkOoKrgREqEc6LOs7V6yiooQXcKf3IMOQVBvg2BEL0IM1YIgXuNt0hw
PlMfici6zaTl3Kjns0hm10uEsWJ1QUnQzJwZdl87v4Ae5JPSh+dPGDPWjdmlzHBm
XibjRQ05CErsOsEN9IACMhOnIBnUK5cgqcuQSwIDAQABAoIBAGkPxK9rK9UMOBfT
FKg8GtwjTya1PLi95n5GUW9EMo+NgfNFc8uE76b442TNNu4bBxir1Ue279pU9jwh
GuDXfMTKADwPkx85ECg71l3A9JDBiCRTRVkzBk163wtx5FYYlZRBziNnr9JbHS2y
znk4Zgj2PM+B7VsPCdU6TZ0V8yEAo75PtmZfmwq/Z1zMmIhDiFJqXZuxH7vYCP+y
3ZeBPp09YOu4Rz8x9MpUPG8z+b9ekoLd8K90YQqdTZPqaG3MD8SEeKLSYLbyOk1B
mGZWrVWRRfeNjEPsjixxjiLsdD8RFL+l8SAzI5Zfmr1GM1lMcUcQ4zz8Wds5I2Zi
FhqW7vECgYEA+76Af/U7joUApxjzrm7MfLHO/w+OKrPJJdCl3V5PZtGgmJTkrf33
7+kv3zlnyOBf5myErFlCtFYqJ3QA/taolK1PdE4EFpIJevxA7PF2hH0Ee51YCx5v
T8G/dSOFSDm+3oaXr3WQZfNPBOWBxltb+0EaHGe553HtQQGAFte1l2UCgYEA0Pjj
AtE2t5IwV2xehBU7XlDkUSFITz6nHlkB/4jehQWbT3pulBctBfGeEfPMxreNmolt
kcNQ3pw6vo4ZeHrxG6A3KYWqPVnlhXOYo7z1evbUGWnAQrSb9eCEZy191OoXW16F
E5X2WQ/ENz8YDa/XqOJ6IIvW+++dSBfhEAzRRe8CgYAktfodLtDZjrGyrGPUuxmc
0X0jGsybk44wsoWNi5Q+pTErLwNOECwY00OE5OUqmPXDL24FiBq/G5WYHUWL5Be/
Xqqohjv4YqF5StHY+7lRxr1hnWdab7zBv7pAxcZI6wrXfn8eOiGtjFaomyNanrYC
JNM+8y1b//QeN67LJfe4NQKBgBcURc4b2RUxGhGtsEqaJbJm8LBdIqVN4Bsj7WqR
bTH3yo1ekjPc02YipziIWodf4k28+9LrZVUQoBRHkVyTB2nrqev2DTU1Znn0qFj9
F4d7FzWvTkKPu+HN6BGVHp6TM/0tVTkyiMCRUzRezYNFdmX6jU5m41lzv0UlDgA9
yicVAoGBAJHY4jbd9mi+u87ss6yT4ETHmzauxdl4ohEQmNhM9YqBeaNC1LRrzQoM
JhK1xSx55X2lR+2Iizg6DVJ3GFpc+Kfwp86676J08tWfad+3mnHtRqSSFEaV/7Ik
YfO9kYdhDAVLU4BFmBQ5Fi8Brx6Bmi2MpjTP1CsTStAkAnB2KZuV
-----END RSA PRIVATE KEY-----
^DEnter the SP Certificate Passpharse:
[]>
Do you want to Sign Requests:
[0]>
Do you want to Sign Assertion Requests:
[0]>
Enter the Technical Contact Id:
[]> mail@example.com
Enter the Organization URL:
[]> http://www.example.com
Enter the Organization Name:
[]> Example
Enter the Organization Display Name:
[]> Example
Please enter the Identity Provider Settings:
Enter the IDP Profile Name:
[]> IDP1
Choose the operation you want to perform:
- PASTE - Paste the IDP Metadata XML.
- ENTER - Enter the IDP Metadata
[]> paste
Please paste the IDP Metadata XML
.
Paste the content now.
Press CTRL-D on a blank line when done.
<?xml version="1.0"?>
<md:EntityDescriptor xmlns:md="urn:oasis:names:tc:SAML:2.0:metadata"
    xmlns:ds="http://www.w3.org/2000/09/xmldsig#"
        entityID="https://WIN-BL0P4116VDB/dag/saml2/idp/metadata.php">
  <md:IDPSSODescriptor protocolSupportEnumeration="urn:oasis:names:tc:SAML:2.0:protocol">
    <md:KeyDescriptor use="signing">
      <ds:KeyInfo xmlns:ds="http://www.w3.org/2000/09/xmldsig#">
        <ds:X509Data>
        <ds:X509Certificate>MIIDYTCCAkmgAwIBAgIBAANBgkqhkiG9w0BAQsFADBLMQ
```

```
            swCQYDVQQGEwJVUzELMAkGA1UECAwCTUkxEjAQBgNVBAcMCUFubiBBcmJvcjEbMBkG
            A1UECgwSRHVvIFNlY3VyaXR5LCBJbmMuMB4XDTE5MDQyOTEwMTQxMFoXDTI5MDQyNjE
            wMTQxMFowSzELMAkGA1UEBhMCVVMxCzAJBgNVBAgMAk1JMRIwEAYDVQQHDAlBbm4gQXJi
                b3IxGzAZBgNVBAoMEkR1byBTZWN1cml0eSwgSW5jLjCCASIwDQYJKoZIhvcNAQEB
                BQADggEPADCCAQoCggEBAMQO/l7hUuSP/7m7qGlisjWGfRQuSzWw5AorTVVmfy1yaHHoFPMiN

9FWMkZHLVAdW0FJrAooF3I6dQmc3YkuLWoI/DMaGcbNDaZ6+lYdB+pDBl6dXpliNHAsFiyhn89=</ds:X509Certificate>

            </ds:X509Data>
          </ds:KeyInfo>
        </md:KeyDescriptor>
        <md:KeyDescriptor use="encryption">
          <ds:KeyInfo xmlns:ds="http://www.w3.org/2000/09/xmldsig#">
            <ds:X509Data>
            <ds:X509Certificate>MIIDYTCCAkmgAwIBAgIBADANBgkqhkiG9w0BAQsFADBLMQswCQYDVQ
            QGEwJVUzELMAkGA1UECAwCTUkxEjAQBgNVBAcMCUFubiBBcmJvcjEbMBkGA1UECgwSRHVvIFNlY
            3VyaXR5LCBJbmMuMB4XDTE5MDQyOTEwMTQxMFoXDTI5MDQyNjEwMTQxMFowSzELMAkGA1UEBhMCV
            VMxCzAJBgNVBAgMAk1JMRIwEAYDVQQHDAlBbm4gQXJib3IxGzAZBgNVBAoMEkR1byBTZWN1cml0e
            SwgSW5jLjCCASIwDQYJKoZIhvcNAQEBBQADggEPADCCAQoCggEBAMQO/l7hUuSP/7m7qGlisjWGfR
            QuSzWw5AorTVVmfy1yaHHoFPMiN9FWMkZHLVAdW0FJrAooF3I6dQmc3YkuLWoI/DMaGcbNDaZ6+lYd

B+pDBl6dXpliNHAsFiyhn89+ee06Thys9yxrND8hYwZfQE3aIB/leEmyualhO8YDd81iD+XtMijSYhO=</ds:X509Certificate>

            </ds:X509Data>
          </ds:KeyInfo>
        </md:KeyDescriptor>
        <md:SingleLogoutService Binding="urn:oasis:names:tc:SAML:2.0:bindings:HTTP-Redirect"
            Location="https://WIN-BL0P4116VDB/dag/saml2/idp/SingleLogoutService.php"/>
        <md:SingleLogoutService Binding="urn:oasis:names:tc:SAML:2.0:bindings:HTTP-POST"
            Location="https://WIN-BL0P4116VDB/dag/saml2/idp/SingleLogoutService.php"/>
       <md:NameIDFormat>urn:oasis:names:tc:SAML:1.1:nameid-format:unspecified</md:NameIDFormat>

       <md:NameIDFormat>urn:oasis:names:tc:SAML:1.1:nameid-format:emailAddress</md:NameIDFormat>

       <md:NameIDFormat>urn:oasis:names:tc:SAML:2.0:nameid-format:persistent</md:NameIDFormat>

        <md:NameIDFormat>urn:oasis:names:tc:SAML:2.0:nameid-format:transient</md:NameIDFormat>

<md:NameIDFormat>urn:oasis:names:tc:SAML:1.1:nameid-format:WindowsDomainQualifiedName</md:NameIDFormat>

        <md:NameIDFormat>urn:oasis:names:tc:SAML:2.0:nameid-format:kerberos</md:NameIDFormat>
        <md:SingleSignOnService Binding="urn:oasis:names:tc:SAML:2.0:bindings:HTTP-Redirect"
            Location="https://WIN-BL0P4116VDB/dag/saml2/idp/SSOService.php"/>
        <md:SingleSignOnService Binding="urn:oasis:names:tc:SAML:2.0:bindings:HTTP-POST"
            Location="https://WIN-BL0P4116VDB/dag/saml2/idp/SSOService.php"/>
        <md:SingleSignOnService Binding="urn:oasis:names:tc:SAML:2.0:bindings:SOAP"
            Location="https://WIN-BL0P4116VDB/dag/saml2/idp/SSOService.php"/>
      </md:IDPSSODescriptor>
    </md:EntityDescriptor>
```

Example – Modifying SAML Profile

In the following example, you can use the samlconfig command to modify the service provider or identity provider settings of an existing SAML profile.

```
mail.example.com > samlconfig

Choose the operation you want to perform:
- UILOGIN - Create a new SAML Profile for UI Login.

[]> uilogin

Currently configured SAML User profiles:
-------------   ------------------   ------------------
```

```
---------------------------------------
 Type            Name                 Entity ID              URL
-------------   -------------------   ------------------
---------------------------------------
SP Settings     SP1                  ENTSP                  http://mail.example.com
IDP Settings    IDP1                 https://WIN-BL0P4116  https://WIN-
BL0P4116VDB/dag/saml2/idp/Si
-------------   ------------------   ------------------    ----------------------------------
Choose the operation you want to perform:
- EDIT - Modify a SAML profile.
- DELETE - Delete a SAML profile.
[]> edit
Choose the operation you want to perform:
- SP - Edit Service Provider Settings.
- IDP - Edit Identity Provider Settings.
[]>
```

settime

Description

The **settime** command allows you to manually set the time if you are not using an NTP server. The command asks you if you want to stop NTP and manually set the system clock. Enter the time is using this format: **MM/DD/YYYY HH:MM:SS**.

Usage

Commit: This command does not require a 'commit'.

Cluster Management: This command is restricted to machine mode.

Batch Command: This command does not support a batch format.

Example

```
mail3.example.com> settime
WARNING: Changes to system time will take place immediately
and do not require the user to run the commit command.
Current time 09/23/2001 21:03:53.
This machine is currently running NTP.
In order to manually set the time, NTP must be disabled.
Do you want to stop NTP and manually set the time? [N]> Y
Please enter the time in MM/DD/YYYY HH:MM:SS format.
[]> 09/23/2001 21:03:53
Time set to 09/23/2001 21:03:53.
```

settz

Description

Set the local time zone.

Usage

Commit: This command requires a 'commit'.

Cluster Management: This command can be used in all three machine modes (cluster, group, machine).

Batch Command: This command does not support a batch format.

Example

```
mail3.example.com> settz
Current time zone: Etc/GMT
Current time zone version: 2010.02.0
Choose the operation you want to perform:
- SETUP - Set the local time zone.
[]> setup
Please choose your continent:
1. Africa
2. America
[ ... ]
11. GMT Offset
[2]> 2
Please choose your country:
1. Anguilla
[ ... ]
45. United States
46. Uruguay
47. Venezuela
48. Virgin Islands (British)
49. Virgin Islands (U.S.)
[45]> 45
Please choose your timezone:
1. Alaska Time (Anchorage)
2. Alaska Time - Alaska panhandle (Juneau)
[ ... ]
21. Pacific Time (Los_Angeles)
[21]> 21
Current time zone: America/Los_Angeles
Choose the operation you want to perform:
- SETUP - Set the local time zone.
[]>
```

shutdown

Description

Shut down the system to power off

Usage

Commit: This command does not require a ‘commit’.

Cluster Management: This command is restricted to machine mode.

Batch Command: This command does not support a batch format.

Example

```
mail.example.com> shutdown
Enter the number of seconds to wait before forcibly closing connections.
[30]>
System shutting down.  Please wait while the queue is being closed...
```

```
Closing CLI connection.
The system will power off automatically.
Connection to mail.example.com closed.
```

smaconfig

- Description, on page 132
- Usage, on page 132
- Example, on page 132

Description

The `smaconfig` command is used to add, delete, or view the Cisco Secure Email and Web Manager connection parameters and keys.

Usage

Commit: This command requires a 'commit'.

Cluster Management: This command can be used in all three machine modes (cluster, group, machine).

Batch Command: This command supports a batch format.

Example

In the following example, you can use the `smaconfig` command to add email gateways to the Cisco Secure Email and Web Manager using pre-shared keys, and view the Cisco Secure Email and Web Manager connection details (host name and user keys).

```
mail.example.com> smaconfig
Choose the operation you want to perform:
- ADD - Add a new SMA Connection Parameter and Key.
[]> add

Enter the hostname of the system that you want to add.
[]> m380q03.ibqa

Enter the user key of the host m380q03.ibqa.
Press enter on a blank line to finish.

SSH2:dsa
10.76.71.107 ssh-dss AAAAB3NzaC1kc3MAAACBAJCRYaVJgwSMTmLbt2xG5LVNKjFXpzW/vMRDQN3xclvJVpgYnQ1G
fjL/zAbZC5pYz/jac405R9h+J2jTzAjzZRgaBIalVvi1Li0JkQQNhcRWEDjOhHwMTOkHh1+SVuqoR5xM0Y47jE/9SmEM
6OXFSkAeTVXQq65c99FDGnNpvBWFAAAAFQD0dhuWPCD+++xjLZr4yxlWFJ5AdQAAAIBilaS+VDYY38IosX/9czWGIc
Bl7cqDZUXWkwoKF41OUfnoa42Q0VDBaoPiJ7gBhWVDHTo8rgz9PQRcl020Ok2ud7WASf/rLKbP9i26PWRK1yAAr7FvDol
/l//5GtXbMtqWyVeo3oGqGS7dZc7MI/pMC5jGxDmTSM2SlyOEsS1xmQAAAIAY1ZiXC2ZeMhVWKgj8A8JHEPcgT4hu7Mo3
Yq+YkGsemK4L+YF4k3t5DbGwirYvfXZCJSPD+E9mcnltIaOMFuB1W8Kiq+Cz/Ikzm9U4MdIz48HOKS2Sl7YVG3xhYJjyy
RpLHGDYRagANtjvOLRPF57xUvkdz5DCcJiXbWEhaZBHkg==

SMA host key was added successfully.


Choose the operation you want to perform:
- ADD - Add a new SMA Connection Parameter and Key.
- DELETE - Remove an existing SMA Connection Parameter and Key.
- PRINT - Display all SMA Parameters and Keys.
```

```
[]> print
1. Hostname: m380q03.ibqa  Keys: SSH2:dsa10.76.71.107 ssh-dss
AAAAB3NzaC1kc3MAAACBAJCRYaVJgwSMTmLbt2xG5LVNKjFXpzW/vMRDQN3xclvJVpgYnQ1GfjL/zAbZC5pYz/jac405R
9h+J2jTzAjzZRgaBIalVvi1Li0JkQQNhcRWEDjOhHwMTOkHh1+SVuqoR5xM0Y47jE/9SmEM6OXFSkAeTVXQq65c99FDGn
NpvBWFAAAAFQD0dhuWPCD+++xjLZr4yxlWFJ5AdQAAAIBilaS+VDYY38IosX/9czWGIcBl7cqDZUXWkwoKF41OUfnoa42
Q0VDBaoPiJ7gBhWVDHTo8rgz9PQRcl020Ok2ud7WASf/rLKbP9i26PWRK1yAAr7FvDol/l//5GtXbMtqWyVeo3oGqGS7d
Zc7MI/pMC5jGxDmTSM2SlyOEsS1xmQAAAIAY1ZiXC2ZeMhVWKgj8A8JHEPcgT4hu7Mo3Yq+YkGsemK4L+YF4k3t5DbGwi
rYvfXZCJSPD+E9mcnltIaOMFuB1W8Kiq+Cz/Ikzm9U4MdIz48HOKS2Sl7YVG3xhYJjyyRpLHGDYRagANtjvOLRPF57xUv
kdz5DCcJiXbWEhaZBHkg==
Choose the operation you want to perform:
- ADD - Add a new SMA Connection Parameter and Key.
- DELETE - Remove an existing SMA Connection Parameter and Key.
- PRINT - Display all SMA Parameters and Keys.
[]>
```

sshconfig

Description

Configure SSH server and user key settings.

Usage

Commit: This command requires a ‘commit’.

Cluster Management: This command is restricted to cluster mode.

Batch Command: This command does not support a batch format.

Examples

Example: Editing SSH Server Configuration

The following example shows how to edit the SSH server configuration:

```
mail1.example.com> sshconfig

Choose the operation you want to perform:
- SSHD - Edit SSH server settings.
- USERKEY - Edit SSH User Key settings
- ACCESS CONTROL - Edit SSH allowed list/blocked list
[]> sshd

ssh server config settings:
Public Key Authentication Algorithms:
        ssh-rsa
        rsa-sha2-256
        ssh-ed25519
        ecdsa-sha2-nistp256
Cipher Algorithms:
        aes128-ctr
        aes192-ctr
        aes256-ctr
        aes128-cbc
        aes192-cbc
        aes256-cbc
        aes128-gcm@openssh.com
        chacha20-poly1305@openssh.com
MAC Methods:
        hmac-sha1
```

```
        hmac-sha2-256
KEX Algorithms:
        diffie-hellman-group14-sha1
        ecdh-sha2-nistp256
        ecdh-sha2-nistp384
        ecdh-sha2-nistp521
        curve25519-sha256
        diffie-hellman-group14-sha256
        curve25519-sha256@libssh.org

Choose the operation you want to perform:
- SETUP - Setup SSH server configuration settings
[]> setup

Available Public Key Authentication Algorithms options :
        rsa-sha2-256
        ssh-dss
        ssh-sa
        ssh-ed25519
        ecdsa-sha2-nistp256
Enter the Public Key Authentication Algorithms do you want to use
[ssh-rsa,rsa-sha2-256, ssh-ed25519,ecdsa-sha2-nistp256]>

Available Cipher Algorithms options :
        aes128-ctr
        aes192-ctr
        aes256-ctr
        aes128-cbc
        aes192-cbc
        aes256-cbc
        aes128-gcm@openssh.com
        chacha20-poly1305@openssh.com
Enter the Cipher Algorithms do you want to use
[aes128-ctr,aes192-ctr,aes256-ctr,aes128-cbc,aes192-cbc,aes256-cbc,
 aes128-gcm@openssh.com, chacha20-poly1305@openssh.com]>

Available MAC Methods options :
        hmac-sha1
        hmac-sha2-256

Enter the MAC Methods do you want to use
[hmac-sha1, hmac-sha2-256]>

Available KEX Algorithms options :
        diffie-hellman-group14-sha1
        ecdh-sha2-nistp256
        ecdh-sha2-nistp384
        ecdh-sha2-nistp521
        curve25519-sha256
        diffie-hellman-group14-sha256
        curve25519-sha256@libssh.org
Enter the KEX Algorithms do you want to use
[diffie-hellman-group14-sha1,ecdh-sha2-nistp256,ecdh-sha2-nistp384,ecdh-sha2-nistp521,
 curve25519-sha256, diffie-hellman-group14-sha256, curve25519-sha256@libssh.org]>

ssh server config settings:
Public Key Authentication Algorithms:
        ssh-rsa
        rsa-sha2-256
        ecdsa-sha2-nistp256
Cipher Algorithms:
        aes128-ctr
        aes192-ctr
        aes256-ctr
```

```
        aes128-cbc
        aes192-cbc
        aes256-cbc
        aes128-gcm@openssh.com
        chacha20-poly1305@openssh.com
MAC Methods:
        hmac-sha1
        hmac-sha2-256
KEX Algorithms:
        diffie-hellman-group14-sha1
        ecdh-sha2-nistp256
        ecdh-sha2-nistp384
        ecdh-sha2-nistp521
        curve25519-sha256
        diffie-hellman-group14-sha256
        curve25519-sha256@libssh.org

Choose the operation you want to perform:
- SETUP - Setup SSH server configuration settings
[]>
```

Example: Installing a New Public Key for the Administrator Account

In the following example, a new public key is installed for the administrator account:

```
mail.example.com> sshconfig
Choose the operation you want to perform:
- SSHD - Edit SSH server settings.
- USERKEY - Edit SSH User Key settings
[]> userkey
Currently installed keys for admin:
Choose the operation you want to perform:
- NEW - Add a new key.
- USER - Switch to a different user to edit.
[]> new
Please enter the public SSH key for authorization.
Press enter on a blank line to finish.
[-paste public key for user authentication here-]
Choose the operation you want to perform:
- SSHD - Edit SSH server settings.
- USERKEY - Edit SSH User Key settings
[]>
```

Example: Categorizing an IP Address as Persistent Blocked List or Allowed List

If the email gateway or the `ipblockd` service is restarted, the IP address that you categorize as a persistent blocked list or allowed list is retained.

Note You can categorize IP addresses as persistent blocked lists\or allowed lists only on AsyncOS 11.0.2 and above.

The following example shows how to categorize IP addresses as persistent allowed list:

```
mail.example.com> sshconfig
Choose the operation you want to perform:
- SSHD - Edit SSH server settings.
- USERKEY - Edit SSH User Key settings
- ACCESS CONTROL - Edit SSH allowed list/blocked list
[]> access control
```

```
Choose the operation you want to perform:
- ALLOWED_LIST - Manage the persistent allowed list
- BLOCKED_LIST - Manage the persistent blocked list
[]> allowed_list

Choose the operation you want to perform:
- ADD - Add address(es)
- REMOVE - Remove address(es)
- PRINT - Print addresses
[]> add

Enter an IP address or a comma-separated list of addresses.
Addresses already in the Allowed list will be ignored.
[]> 10.8.85.77

The addresses were successfully added to the Allowed list
```

The following example shows how to categorize IP addresses as persistent blocked list:

```
mail.example.com> sshconfig
Choose the operation you want to perform:
- SSHD - Edit SSH server settings.
- USERKEY - Edit SSH User Key settings
- ACCESS CONTROL - Edit SSH allowed list/blocked list
[]> access control

Choose the operation you want to perform:
- ALLOWED_LIST - Manage the persistent allowed list
- BLOCKED_LIST - Manage the persistent blocked list
[]> blocked_list

Choose the operation you want to perform:
- ADD - Add address(es)
- REMOVE - Remove address(es)
- PRINT - Print addresses
[]> add

Enter an IP address or a comma-separated list of addresses.
Addresses already in the Allowed list will be ignored.
[]> 10.8.85.77

The addresses were successfully added to the blocked list
```

status

Description

Show system status.

Usage

Commit: This command does not require a ‘commit’.

Cluster Management: This command is restricted to machine mode.

Batch Command: This command does not support a batch format.

Example

```
mail3.example.com> status
```

```
Status as of:               Thu Oct 21 14:33:27 2004 PDT
Up since:                   Wed Oct 20 15:47:58 2004 PDT (22h 45m 29s)
Last counter reset:         Never
System status:              Online
Oldest Message:             4 weeks 46 mins 53 secs
Feature - McAfee:              161 days
[....]
Feature - Outbreak Filters:    161 days
Counters:                              Reset          Uptime        Lifetime
  Receiving
    Messages Received              62,049,822         290,920      62,049,822
    Recipients Received            62,049,823         290,920      62,049,823
  Rejection
    Rejected Recipients             3,949,663          11,921       3,949,663
    Dropped Messages               11,606,037             219      11,606,037
  Queue
    Soft Bounced Events             2,334,552          13,598       2,334,552
  Completion
    Completed Recipients           50,441,741         332,625      50,441,741
  Current IDs
    Message ID (MID)                                                  99524480
    Injection Conn. ID (ICID)                                         51180368
    Delivery Conn. ID (DCID)                                          17550674
Gauges:                                Current
  Connections
    Current Inbound Conn.                    0
    Current Outbound Conn.                  14
Queue
    Active Recipients                        1
    Messages In Work Queue                   0
    Kilobytes Used                          92
    Kilobytes Free                   8,388,516
  Quarantine
    Messages In Quarantine
      Policy, Virus and Outbreak             0
    Kilobytes In Quarantine
      Policy, Virus and Outbreak             0
```

supportrequest

Description

Send a message to Cisco customer support. This command requires that the email gateway is able to send mail to the Internet. A trouble ticket is automatically created, or you can associate the support request with an existing trouble ticket.

To access Cisco technical support directly from the email gateway, your Cisco.com user ID must be associated with your service agreement contract for this email gateway. To view a list of service contracts that are currently associated with your Cisco.com profile, visit the Cisco.com Profile Manager at https://sso.cisco.com/autho/forms/CDClogin.html . If you do not have a Cisco.com user ID, register to get one. See information about registering for an account in the online help or user guide for your release.

Usage

Commit: This command does not require a ‘commit’.

Cluster Management: This command is restricted to machine mode. It is further restricted to the login host (i.e., the specific machine you are logged onto). This command requires access to the local file system.

Batch Command: This command does not support a batch format.

Example

The following example shows a support request that is not related to an existing support ticket.

```
mail.example.com> supportrequest
Please Note:
If you have an urgent issue, please call one of our worldwide Support Centers
(www.cisco.com/support). Use this command to open a technical support request
for issues that are not urgent, such as:
- Request for information.
- Problem for which you have a work-around, but would like an alternative
solution.
Do you want to send the support request to supportrequest@mail.qa?
[Y]>
Do you want to send the support request to additional recipient(s)?
[N]>
Is this support request associated with an existing support ticket?
[N]>
Please select a technology related to this support request:
1. Security - Email and Web
2. Security - Management
[1]> 1
Please select a subtechnology related to this support request:
1. Cisco Email Security Appliance (C1x0,C3x0, C6x0, X10x0) - Misclassified
Messages
2. Cisco Email Security Appliance (C1x0,C3x0, C6x0, X10x0) - SBRS
3. Cisco Email Security Appliance (C1x0,C3x0, C6x0, X10x0) - Other
4. Email Security Appliance - Virtual
[1]> 3
Please select the problem category:
1. Upgrade
2. Operate
3. Configure
4. Install
[1]> 3
Please select a problem sub-category:
1. Error Messages, Logs, Debugs
2. Software Failure
3. Interoperability
4. Configuration Assistance
5. Install, Uninstall or Upgrade
6. Hardware Failure
7. Licensing
8. Data Corruption
9. Software Selection/Download Assistance
10. Passphrase Recovery
[1]> 5
Please enter a subject line for this support request:
[]> <Subject line for support request>
Please enter a description of your issue, providing as much detail as possible
to aid in diagnosis:
[]> <Description of issue>
It is important to associate all your service contracts with your Cisco.com profile (CCO
ID) in order for you to receive complete
access to support and services from Cisco. Please follow the URLs below to associate your
contract coverage on your Cisco.com profile.
If you do not have a CCO ID, please follow
the URL below to create a CCO ID.
How to create a CCO ID:
https://tools.cisco.com/RPF/register/register.do
How to associate your CCO ID with contract:
```

```
https://tools.cisco.com/RPFA/profile/profile_management.do
Frequently Asked Question:
http://www.cisco.com/web/ordering/cs_info/faqs/index.html
Select the CCOID
1. New CCOID
[1]>
Please enter the CCOID of the contact person :
[]> your name
The CCO ID may contain alphabets, numbers and '@', '.', '-' and '_' symbols.
Please enter the CCOID of the contact person :
[]> me@example.com
Please enter the name of the contact person :
[]> yourname
Please enter your email address:
[]> me@example.com
Please enter the contract ID:
[]> 1234
Please enter any additional contact information (e.g. phone number):
[]>
Please wait while configuration information is generated...
Do you want to print the support request to the screen?
[N]>
```

supportrequeststatus

Description

Display Support Request Keywords version information for requesting support from Cisco TAC.

Usage

Commit: This command does not require a ‘commit’.

Cluster Management: This command can be used in all three machine modes (cluster, group, machine).

Batch Command: This command does not support a batch format.

Example

```
mail.example.com> supportrequeststatus
Component                Version    Last Updated
Support Request          1.0        Never updated
```

supportrequestupdate

Description

Request manual update of Support Request Keywords for requesting support from Cisco TAC.

Usage

Commit: This command does not require a ‘commit’.

Cluster Management: This command can be used in all three machine modes (cluster, group, machine).

Batch Command: This command does not support a batch format.

Example

```
mail.example.com> supportrequestupdate
Requesting update of Support Request Keywords.
```

suspend

Description

Suspend receiving and deliveries

Usage

Commit: This command does not require a 'commit'.

Cluster Management: This command is restricted to machine mode.

Batch Command: This command does not support a batch format.

Example

```
mail3.example.com> suspend
Enter the number of seconds to wait before abruptly closing connections.
[30]> 45
Waiting for listeners to exit...
Receiving suspended for Listener 1.
Waiting for outgoing deliveries to finish...
Mail delivery suspended.
mail3.example.com>
```

suspenddel

Description

Suspend deliveries

Usage

Commit: This command does not require a 'commit'.

Cluster Management: This command is restricted to machine mode.

Batch Command: This command does not support a batch format.

Example

```
mail.example.com> suspenddel
Enter the number of seconds to wait before abruptly closing connections.
[30]>
Enter one or more domains [comma-separated] to which you want to suspend delivery.
[ALL]> domain1.com, domain2.com, domain3.com
Waiting for outgoing deliveries to finish...
Mail delivery suspended.
```

suspendlistener

Description

Suspend receiving.

Usage

Commit: This command does not require a 'commit'.

Cluster Management: This command is restricted to machine mode.

Batch Command: This command does not support a batch format.

Example

```
mail3.example.com> suspendlistener
Choose the listener(s) you wish to suspend.
Separate multiple entries with commas.
1. All
2. InboundMail
3. OutboundMail
[1]> 1
Enter the number of seconds to wait before abruptly closing connections.
[30]>
Waiting for listeners to exit...
Receiving suspended.
mail3.example.com>
```

tcpservices

Description

Display information about files opened by processes.

Usage

Commit: This command does not require a 'commit'.

Cluster Management: This command is restricted to machine mode.

Batch Command: This command does not support a batch format.

Example

```
mail.cisco.com> tcpservices
System Processes (Note: All processes may not always be present)
  ftpd.main    - The FTP daemon
  ginetd       - The INET daemon
  interface    - The interface controller for inter-process communication
  ipfw         - The IP firewall
  slapd        - The Standalone LDAP daemon
  sntpd        - The SNTP daemon
  sshd         - The SSH daemon
  syslogd      - The system logging daemon
```

```
  winbindd     - The Samba Name Service Switch daemon
Feature Processes
  euq_webui    - GUI for ISQ
  gui          - GUI process
  hermes       - MGA mail server
  postgres     - Process for storing and querying quarantine data
  splunkd      - Processes for storing and querying Email Tracking data
COMMAND      USER         TYPE NODE   NAME
interface    root         IPv4 TCP    127.0.0.1:53
postgres     pgsql        IPv4 TCP    127.0.0.1:5432
qabackdoo    root         IPv4 TCP    *:8123
ftpd.main    root         IPv4 TCP    10.1.1.0:21
euq_webui    root         IPv4 TCP    10.1.1.0:83
euq_webui    root         IPv6 TCP    [2001:db8::]:83
gui          root         IPv4 TCP    172.29.181.70:80
gui          root         IPv4 TCP    10.1.1.0:80
gui          root         IPv6 TCP    [2001:db8::]:80
gui          root         IPv4 TCP    172.29.181.70:443
gui          root         IPv4 TCP    10.1.1.0:443
gui          root         IPv6 TCP    [2001:db8::]:443
ginetd       root         IPv4 TCP    172.29.181.70:22
ginetd       root         IPv4 TCP    10.1.1.0:22
ginetd       root         IPv6 TCP    [2001:db8::]:22
ginetd       root         IPv4 TCP    10.1.1.0:2222
ginetd       root         IPv6 TCP    [2001:db8::]:2222
hermes       root         IPv4 TCP    172.29.181.70:25
splunkd      root         IPv4 TCP    127.0.0.1:8089
splunkd      root         IPv4 TCP    127.0.0.1:9997
api_serve    root         IPv4 TCP    10.1.1.0:6080
api_serve    root         IPv6 TCP    [2001:db8::]:6080
api_serve    root         IPv4 TCP    10.1.1.0:6443
api_serve    root         IPv6 TCP    [2001:db8::]:6443
java         root         IPv6 TCP    [::127.0.0.1]:9999
```

techsupport

Description

Allow Cisco TAC to access your system.

Usage

Commit: This command does not require a ‘commit’.

Cluster Management: This command is restricted to machine mode.

Batch Command: This command supports batch format.

Example

```
mail3.example.com> techsupport
Service Access currently disabled.
Serial Number: XXXXXXXXXXXX-XXXXXXX
Choose the operation you want to perform:
- SSHACCESS - Allow a Cisco Customer Support representative to remotely access your system,
 without establishing a tunnel.
- TUNNEL - Allow a Cisco Customer Support representative to remotely access your system,
and establish a secure tunnel
           for communication.
```

```
- STATUS - Display the current techsupport status.
[]> sshaccess
Are you sure you want to enable service access? [N]> y
Service access has been ENABLED.
Provide this seed string to your Cisco Customer Support representative: 002e3f686e5621b6c9df
Service Access currently ENABLED (0 current service logins).
Tunnel option is not active.
Serial Number: XXXXXXXXXXXX-XXXXXXX
Choose the operation you want to perform:
- DISABLE - Prevent customer service representatives from remotely accessing your system.
- STATUS - Display the current techsupport status.
[]>
```

tlsverify

Description

Establish an outbound TLS connection on demand and debug any TLS connection issues concerning a destination domain. To create the connection, specify the domain to verify against and the destination host. AsyncOS checks the TLS connection based on the Required (Verify) TLS setting

Usage

Commit: This command does not require a 'commit'.

Cluster Management: This command is restricted to machine mode.

Batch Command: This command supports a batch format.

Batch Format

The batch format of the tlsverify command can be used to perform all the fuctions of the traditional CLI command to check the TLS connection to the given hostname.

```
tlsverify <domain> <hostname>[:<port>]
```

Example

```
mail3.example.com> tlsverify
Enter the TLS domain to verify against:
[]> example.com
Enter the destination host to connect to.  Append the port (example.com:26) if you are not
 connecting on port 25:
[example.com]> mxe.example.com:25
Connecting to 1.1.1.1 on port 25.
Connected to 1.1.1.1 from interface 10.10.10.10.
Checking TLS connection.
TLS connection established: protocol TLSv1, cipher RC4-SHA.
Verifying peer certificate.
Verifying certificate common name mxe.example.com.
TLS certificate match mxe.example.com
TLS certificate verified.
TLS connection to 1.1.1.1 succeeded.
TLS successfully connected to mxe.example.com.
TLS verification completed.
```

trace

Description

Trace the flow of a message through the system

Usage

Commit: This command does not require a 'commit'.

Cluster Management: This command is restricted to machine mode.

Batch Command: This command does not support a batch format.

Example

```
mail3.example.com> trace
Enter the source IP
[]> 192.168.1.1
Enter the fully qualified domain name of the source IP
[]> example.com
Select the listener to trace behavior on:
1. InboundMail
2. OutboundMail
[1]> 1
Fetching default SenderBase values...
Enter the SenderBase Org ID of the source IP.  The actual ID is N/A.
[N/A]>
Enter the SenderBase Reputation Score of the source IP.  The actual score is N/A.
[N/A]>
Enter the Envelope Sender address:
[]> pretend.sender@example.net
Enter the Envelope Recipient addresses.  Separate multiple addresses by commas.
[]> admin@example.com
Load message from disk?  [Y]> n
Enter or paste the message body here.  Enter '.' on a blank line to end.
Subject: Hello
This is a test message.
.
HAT matched on unnamed sender group, host ALL
 - Applying $ACCEPTED policy (ACCEPT behavior).
 - Maximum Message Size:  100M (Default)
 - Maximum Number Of Connections From A Single IP:  1000 (Default)
 - Maximum Number Of Messages Per Connection:  1,000 (Default)
 - Maximum Number Of Recipients Per Message:  1,000 (Default)
 - Maximum Recipients Per Hour:  100 (Default)
 - Use SenderBase For Flow Control:  Yes (Default)
 - Spam Detection Enabled:  Yes (Default)
 - Virus Detection Enabled:  Yes (Default)
 - Allow TLS Connections:  No (Default)
Processing MAIL FROM:
 - Default Domain Processing:  No Change
Processing Recipient List:
Processing admin@ironport.com
 - Default Domain Processing:  No Change
 - Domain Map:  No Change
 - RAT matched on admin@ironport.com, behavior = ACCEPT
 - Alias expansion:  No Change
Message Processing:
 - No Virtual Gateway(tm) Assigned
```

```
 - No Bounce Profile Assigned
Domain Masquerading/LDAP Processing:
 - No Changes.
Processing filter 'always_deliver':
Evaluating Rule:   rcpt-to == "@mail.qa"
    Result = False
Evaluating Rule:   rcpt-to == "ironport.com"
    Result = True
Evaluating Rule:   OR
    Result = True
Executing Action:  deliver()
Footer Stamping:
 - Not Performed
Inbound Recipient Policy Processing: (matched on Management Upgrade policy)
Message going to:  admin@ironport.com
AntiSpam Evaluation:
 - Not Spam
AntiVirus Evaluation:
 - Message Clean.
 - Elapsed Time = '0.000 sec'
Outbreak Filter Evaluation:
 - No threat detected
Message Enqueued for Delivery
Would you like to see the resulting message? [Y]> y
Final text for messages matched on policy Management Upgrade
Final Envelope Sender:  pretend.sender@example.doma
Final Recipients:
 - admin@ironport.com
Final Message Content:
Received: from remotehost.example.com (HELO TEST) (1.2.3.4)
  by stacy.qa with TEST; 19 Oct 2004 00:54:48 -0700
Message-Id: <3i93q9$@Management>
X-IronPort-AV: i="3.86,81,1096873200";
   d="scan'208"; a="0:sNHT0"
Subject: hello
This is a test message.
Run through another debug session? [N]>
```

Note When using trace , you must include both the header and the body of the message pasted into the CLI.

trackingconfig

Description

Configure the tracking system.

Usage

Commit: This command requires a ‘commit’.

Cluster Management: This command can be used in all three machine modes (cluster, group, machine).

Batch Command: This command does not support a batch format.

Example

```
mail.example.com> trackingconfig
Message Tracking service status: Message Tracking is enabled.
Choose the operation you want to perform:
- SETUP - Enable Message Tracking for this appliance.
[]> setup
Would you like to use the Message Tracking Service? [Y]>
Do you want to use Centralized Message Tracking for this appliance? [N]>
Would you like to track rejected connections? [N]>
Message Tracking service status: Local Message Tracking is enabled.
Rejected connections are currently not being tracked.
Choose the operation you want to perform:
- SETUP - Enable Message Tracking for this appliance.
[]>
```

tzupdate

Description

Update timezone rules

Usage

Commit: This command does not require a 'commit'.

Cluster Management: This command is restricted to machine mode. It is further restricted to the login host (i.e., the specific machine you are logged onto).

Batch Command: This command supports a batch format.

Batch Format

The batch format of the tzupdate command forces an update off all time zone rules even if no changes are detected.

```
tzupdate [force]
```

Example

```
mail.example.com> tzupdate
Requesting update of Timezone Rules
```

updateconfig

Description

Configure system update parameters.

Usage

Commit: This command requires a 'commit'.

Cluster Management: This command can be used in all three machine modes (cluster, group, machine).

Batch Command: This command does not support a batch format.

Note The `CLIENTCERTIFICATE` and `VLNID` subcommands do not require a 'commit'.

Note The `VLNID` subcommand is only applicable for SLR or PLR registered virtual devices (that is, SLR or PLR registered device operating in air-gap mode).

Examples

Configure the Email Gateway to Download Updates from Updater Servers

In the following example, the updateconfig command is used to configure the email gateway to download update images from Cisco servers and download the list of available AsyncOS upgrades from a local server.

```
mail.example.com> updateconfig
Service (images):                                   Update URL:
-------------------------------------------------------------------------------
Feature Key updates                                 http://downloads.ironport.com/asyncos
Timezone rules                                      Cisco IronPort Servers
Enrollment Client Updates                           Cisco IronPort Servers
Support Request updates                             Cisco IronPort Servers
Cisco IronPort AsyncOS upgrades                     Cisco IronPort Servers
Service (list):                                     Update URL:
-------------------------------------------------------------------------------
Timezone rules                                      Cisco IronPort Servers
Enrollment Client Updates                           Cisco IronPort Servers
Support Request updates                             Cisco IronPort Servers
Service (list):                                     Update URL:
-------------------------------------------------------------------------------
Cisco IronPort AsyncOS upgrades                     Cisco IronPort Servers
Update interval: 5m
Alert Interval for Disabled Automatic Engine Updates: 30d
Proxy server: not enabled
HTTPS Proxy server: not enabled
Choose the operation you want to perform:
- SETUP - Edit update configuration.
- VALIDATE_CERTIFICATES - Validate update server certificates
- TRUSTED_CERTIFICATES - Manage trusted certificates for updates
[]> setup
For the following services, please select where the system will download updates from:
Service (images):                                    Update URL:
-------------------------------------------------------------------------------
Feature Key updates                                 http://downloads.ironport.com/asyncos
1. Use Cisco IronPort update servers (http://downloads.ironport.com)
2. Use own server
[1]>
For the following services, please select where the system will download updates from
(images):
Service (images):                                   Update URL:
-------------------------------------------------------------------------------
Timezone rules                                      Cisco IronPort Servers
Enrollment Client Updates                           Cisco IronPort Servers
```

```
Support Request updates                              Cisco IronPort Servers
1. Use Cisco IronPort update servers
2. Use own server
[1]>
For the following services, please select where the system will download updates from
(images):
Service (images):                                    Update URL:
-------------------------------------------------------------------------------------
Cisco IronPort AsyncOS upgrades                      Cisco IronPort Servers
1. Use Cisco IronPort update servers
2. Use own server
[1]>
For the following services, please select where the system will download the list of available
updates from:
Service (list):                                      Update URL:
-------------------------------------------------------------------------------------
Timezone rules                                       Cisco IronPort Servers
Enrollment Client Updates                            Cisco IronPort Servers
Support Request updates                              Cisco IronPort Servers
1. Use Cisco IronPort update servers
2. Use own update list
[1]>
For the following services, please select where the system will download the list of available
updates from:
Service (list):                                      Update URL:
-------------------------------------------------------------------------------------
Cisco IronPort AsyncOS upgrades                      Cisco IronPort Servers
1. Use Cisco IronPort update servers
2. Use own update list
[1]>
Enter the time interval between checks for new:
    - Timezone rules
    - Enrollment Client Updates (used to fetch certificates for URL Filtering)
    - Support Request updates
Use a trailing 's' for seconds, 'm' for minutes or 'h' for hours. The minimum
valid update time is 30s or enter '0' to disable automatic updates (manual
updates will still be available for individual services).
[5m]>
When initiating a connection to the update server the originating IP interface
is chosen automatically. If you want to choose a specific interface, please
specify it now.
1. Auto
2. Management (10.76.69.149/24: vm30esa0086.ibqa)
[1]>
Do you want to set up a proxy server for HTTP updates for ALL of the following
services:
    - Feature Key updates
    - Timezone rules
    - Enrollment Client Updates (used to fetch certificates for URL Filtering)
    - Support Request updates
    - Cisco IronPort AsyncOS upgrades
[N]>
Do you want to set up an HTTPS proxy server for HTTPS updates for ALL of the following
services:
    - Feature Key updates
    - Timezone rules
    - Enrollment Client Updates (used to fetch certificates for URL Filtering)
    - Support Request updates
    - Cisco IronPort AsyncOS upgrades

[N]>
Service (images):                                    Update URL:
-------------------------------------------------------------------------------------
Feature Key updates                                  http://downloads.ironport.com/asyncos
```

```
Timezone rules                                      Cisco IronPort Servers
Enrollment Client Updates                           Cisco IronPort Servers
Support Request updates                             Cisco IronPort Servers
Cisco IronPort AsyncOS upgrades                     Cisco IronPort Servers
Service (list):                                     Update URL:
-------------------------------------------------------------------------------------------
Timezone rules                                      Cisco IronPort Servers
Enrollment Client Updates         Cisco IronPort Servers
Support Request updates                             Cisco IronPort Servers
Service (list):                                     Update URL:
-------------------------------------------------------------------------------------------
Cisco IronPort AsyncOS upgrades                     Cisco IronPort Servers
Update interval: 5m
Proxy server: not enabled
HTTPS Proxy server: not enabled
Choose the operation you want to perform:
- SETUP - Edit update configuration.
- VALIDATE_CERTIFICATES - Validate update server certificates
- TRUSTED_CERTIFICATES - Manage trusted certificates for updates
[]>
```

Configure the Email Gateway to Verify the Validity of Updater Server Certificate

If you configure this option, every time the email gateway communicates the Cisco updater server, the validity of the updater server certificate is verified. If the verification fails, updates are not downloaded and the details are logged in Updater Logs. The following example shows how to configure this option:

```
mail.example.com> updateconfig
Service (images):                                   Update URL:
-------------------------------------------------------------------------------------------
Feature Key updates                                 http://downloads.ironport.com/asyncos
Timezone rules                                      Cisco IronPort Servers
Enrollment Client Updates                           Cisco IronPort Servers
Support Request updates                             Cisco IronPort Servers
Cisco IronPort AsyncOS upgrades                     Cisco IronPort Servers
Service (list):                                     Update URL:
-------------------------------------------------------------------------------------------
Timezone rules                                      Cisco IronPort Servers
Enrollment Client Updates                           Cisco IronPort Servers
Support Request updates                             Cisco IronPort Servers
Service (list):                                     Update URL:
-------------------------------------------------------------------------------------------
Cisco IronPort AsyncOS upgrades                     Cisco IronPort Servers
Update interval: 5m
Alert Interval for Disabled Automatic Engine Updates: 30d
Proxy server: not enabled
HTTPS Proxy server: not enabled
Choose the operation you want to perform:
- SETUP - Edit update configuration.
- VALIDATE_CERTIFICATES - Validate update server certificates
- TRUSTED_CERTIFICATES - Manage trusted certificates for updates
[]> validate_certificates
Should server certificates from Cisco update servers be validated?
[Yes]>
Service (images):                                   Update URL:
-------------------------------------------------------------------------------------------
Feature Key updates                                 http://downloads.ironport.com/asyncos
Timezone rules                                      Cisco IronPort Servers
Enrollment Client Updates           Cisco IronPort Servers
Support Request updates                             Cisco IronPort Servers
Cisco IronPort AsyncOS upgrades                     Cisco IronPort Servers
Service (list):                                     Update URL:
-------------------------------------------------------------------------------------------
```

```
Timezone rules                                      Cisco IronPort Servers
Enrollment Client Updates                           Cisco IronPort Servers
Support Request updates                             Cisco IronPort Servers
Service (list):                                     Update URL:
-------------------------------------------------------------------------------
Cisco IronPort AsyncOS upgrades                     Cisco IronPort Servers
Update interval: 5m
Proxy server: not enabled
HTTPS Proxy server: not enabled
Choose the operation you want to perform:
- SETUP - Edit update configuration.
- VALIDATE_CERTIFICATES - Validate update server certificates
- TRUSTED_CERTIFICATES - Manage trusted certificates for updates
[]>
```

Configure the Email Gateway to Trust Proxy Server Communication

If you are using a non-transparent proxy server, you can add the CA certificate used to sign the proxy certificate to the email gateway. By doing so, the email gateway trusts the proxy server communication. The following example shows how to configure this option:

```
...
Choose the operation you want to perform:
- SETUP - Edit update configuration.
- VALIDATE_CERTIFICATES - Validate update server certificates
- TRUSTED_CERTIFICATES - Manage trusted certificates for updates
[]> trusted_certificates
Choose the operation you want to perform:
- ADD - Upload a new trusted certificate for updates.
[]> add
Paste certificates to be trusted for secure updater connections, blank to quit
Trusted Certificate for Updater:
Paste cert in PEM format (end with '.'):
-----BEGIN CERTIFICATE-----
MMIICiDCCAfGgAwIBAgIBATANBgkqhkiG9w0BAQUFADCBgDELMAkGA1UEBhMCSU4x
DDAKBgNVBAgTA0tBUjENM.....................................
-----END CERTIFICATE-----
.
Choose the operation you want to perform:
- ADD - Upload a new trusted certificate for updates.
- LIST - List trusted certificates for updates.
- DELETE - Delete a trusted certificate for updates.
[]>
```

Uploading Cisco Talos Certificate in Email Gateway

In the following example, you can use the `updateconfig > clientcertificate` sub command to upload the Cisco Talos certificate in the email gateway

```
mail1.example.com> updateconfig

Service (images): Update URL:
-------------------------------------------------------------------------------------------------------------
Feature Key updates http://downloads.ironport.com/asyncos
McAfee Anti-Virus definitions Cisco IronPort Servers
DLP Engine Updates Cisco IronPort Servers
PXE Engine Updates Cisco IronPort Servers
Sophos Anti-Virus definitions Cisco IronPort Servers
IronPort Anti-Spam rules Cisco IronPort Servers
Outbreak Filters rules Cisco IronPort Servers
Timezone rules Cisco IronPort Servers
Enrollment Client Updates (used to fetch certificates for URL Filtering) Cisco IronPort
Servers
```

```
Support Request updates Cisco IronPort Servers
Content Scanner Updates Cisco IronPort Servers
Geo Countries Updates Cisco IronPort Servers
SDR Client Updates Cisco IronPort Servers
External Threat Feeds updates Cisco IronPort Servers
How-Tos Updates Cisco IronPort Servers
Notifications component Updates Cisco IronPort Servers
Smart License Agent Updates Cisco IronPort Servers
Mailbox Remediation Updates Cisco IronPort Servers
Talos Updates Cisco IronPort Servers
Easy Demo service Updates Cisco IronPort Servers
Cisco IronPort AsyncOS upgrades Cisco IronPort Servers

Service (list): Update URL:
-----------------------------------------------------------------------------------------------------------------
McAfee Anti-Virus definitions Cisco IronPort Servers
DLP Engine Updates Cisco IronPort Servers
PXE Engine Updates Cisco IronPort Servers
Sophos Anti-Virus definitions Cisco IronPort Servers
IronPort Anti-Spam rules Cisco IronPort Servers
Outbreak Filters rules Cisco IronPort Servers
Timezone rules Cisco IronPort Servers
Enrollment Client Updates (used to fetch certificates for URL Filtering) Cisco IronPort
Servers
Support Request updates Cisco IronPort Servers
Content Scanner Updates Cisco IronPort Servers
Geo Countries Updates Cisco IronPort Servers
SDR Client Updates Cisco IronPort Servers
External Threat Feeds updates Cisco IronPort Servers
How-Tos Updates Cisco IronPort Servers
Notifications component Updates Cisco IronPort Servers
Smart License Agent Updates Cisco IronPort Servers
Mailbox Remediation Updates Cisco IronPort Servers
Talos Updates Cisco IronPort Servers
Easy Demo service Updates Cisco IronPort Servers

Service (list): Update URL:
-----------------------------------------------------------------------------------------------------------------
Cisco IronPort AsyncOS upgrades Cisco IronPort Servers

Update interval: 5m

Alert Interval for Disabled Automatic Engine Updates: 30d

Proxy server: not enabled

HTTPS Proxy server: not enabled

Choose the operation you want to perform:
- SETUP - Edit update configuration.
- VALIDATE_CERTIFICATES - Validate update server certificates
- TRUSTED_CERTIFICATES - Manage trusted certificates for updates
- CLIENTCERTIFICATE - Upload the client certificate and key.
[]>clientcertificate

Do you like to overwrite the existing certificate and key [Y|N] ? []> y

Paste the certificate.
Press CTRL-D on a blank line when done.
-----BEGIN CERTIFICATE-----

fl4wXRnvDRjPWUX8XRHyF8RdLlfz8rh/1xJN6R4V0LlHPAJ5fEyJTmNiT1FcgjrN
Sm57NsyVCoNJ0OiCuwi6Hiw/CYlfms99ObtByIrwt5G1+6E6J6qq9ovT6R+qiS2A
KGNIRJAvZNhiDdezX5O21/xbJ5C39BPqgY0CAwEAAaMaMBgwCQYDVR0TBAIwADAL
```

```
BgNVHQ8EBIDO7O4MA0GCSqGSIb3DQEBCwUAMHwxCzAJBgNVBAYTAlVT
MRMwEQYDVQQIEwpDYWxpZm9ybmlhMREwDwYDVQQHEwhTYW4gSm9zZTEbMBkGA1UE
ChMSQ2lzY28gU3lzdGVtcyBJbmMuMREwDwYDVQQLEwhTZWN1cml0eTEVMBMGA1UE
AxMMS2V5bWFzdGVyIENBMB4XDTIwMTEyNjE5NDEyN1oXDTIxMDUyNDE5NDEyN1ow
SDEZMBcGA1UEAwwQVkxORVNBMTgzODI4MTE2NDErMCkGA1UECgwiSW50ZXJuYWxU
ZXN0RGVtb0FjY291bnQ5LmNpc2NvLmNvbTCCASIwDQYJKoZIhvcNAQEBBQADggEP
ADCCAQoCggEBAODerFpMLiDrHCppbqqlZT+3XgIXFaDNAILMNvnxCv+Cg/8FolhT
mNnefWoKq/CxK9jNfUHalY3BzozOUzFH87gXdNrhfRnMRqRwBQHlImKjmflsogY4
EUC/7+pQ52K8/fulXXMT463BwkXD5R0tr6bTdoUSDfRL3aWhTjdWrX0WolkTp0sR
fl4wXRnvDRjPWUX8XRHyF8RdLlfz8rh/1xJN6R4V0LlHPAJ5fEyJTmNiT1FcgjrN
Sm57NsyVCoNJ0OiCuwi6Hiw/CYlfms99ObtByIrwt5G1+6E6J6qq9ovT6R+qiS2A
KGNIRJAvZNhiDdezX5O21/xbJ5C39BPqgY0CAwEAAaMaMBgwCQYDVR0TBAIwADAL
BgNVHQ8EBAMCB4AwDQYJKoNmX8IWbH7WWxaJKGe9d5P62zBCgZccep4PsH
dt396r7VqCRREgZAMV45X1xrK7VMds9+jCa1EW6VOr5PrTPK4uBqqqQCku3RmgWm
7H/W+oYBkj29ny8ULvTPRT/w6KYsgZiTAsogHK69IYl2We7AiBP+DmNCk9pRBPuk
oWbMf00voF8k2QZF1S3msl7dn7LmOYB+/6e8RRlT+9Y1AkftIm0dLEMxjb32bCh2
4zQQWIXyTxiG5CDuRC+a/P7dZZQnLQfzoscc9w1YSX1T6ns5v4RrL8phX4b0bTA=
-----END CERTIFICATE-----
^D

Paste Private Key.
Press CTRL-D on a blank line when done.
-----BEGIN RSA PRIVATE KEY-----

ZlDbPzJJm57AODTwUJEFGJ/u/x7bRzw/BFH6QUu8WddbqIgtFhwaqAP2uzBl8a38
VvfZXsZff+OvU2hUrznWK5RgsCYILAypn7shh7RXp4QJc6hCcEf0731BVgquKfPC
egytzK0stKvXPcbT0T1BwWu8n1vm5UD0I+UjKqiqIniL3MGY0VMVzo2oZlPFHiVO
JLuMHpI4dvhQoq7UaLoT4NOYeiCC3iykZ0n8BlBzVAY3KVvfazkR7QJwXYSjRqL9
708vImECgYEA/CewuUKZbBrGVGLr+eL34h0uOMgx8+tMFeRnBwMTIHWxcGxJ/bj8
6+LCS9aXfuD0BHDJ+Xy4mfsK0vz5dtpFL5qI7lNvN6VUrPI3tIXdUTxZ9HeJKHjN
MIIEpQIBAAKCAQEA4N6sWjM5TMUfzuBd02uF9GcxGpHAFAeUiYqOZ+Wyi
BjgRQL/v6lDnYrz9+6VdcxPjrcHCRcPlHS2vptN2hRIN9EvdpaFON1atfRaiWROn
SxF+XjBdGe8NGM9ZRfxdEfIXxF0uV/PyuH/XEk3pHhXQuUc8Anl8TIlOY2JPUVyC
Os1Kbns2zJUKg0nQ6IK7CLoeLD8JiV+az305u0HIivC3kbX7oTonqqr2i9PpH6qJ
LYAoY0hEkC9k2GIN1Bae16OAtKWWdKRS13nunfaiFun/XAeF9YPuA24+dc
ZlDbPzJJm57AODTwUJEFGJ/u/x7bRzw/BFH6QUu8WddbqIgtFhwaqAP2uzBl8a38
VvfZXsZff+OvU2hUrznWK5RgsCYILAypn7shh7RXp4QJc6hCcEf0731BVgquKfPC
egytzK0stKvXPcbT0T1BwWu8n1vm5UD0I+UjKqiqIniL3MGY0VMVzo2oZlPFHiVO
JLuMHpI4dvhQoq7UaLoT4NOYeiCC3iykZ0n8BlBzVAY3KVvfazkR7QJwXYSjRqL9
708vImECgYEA/CewuUKZbBrGVGLr+eL34h0uOMgx8+tMFeRnBwMTIHWxcGxJ/bj8
6+LCS9aXfuD0BHDJ+Xy4mfsK0vz5dtpFL5qI7lNvN6VUrPI3tIXdUTxZ9HeJKHjN
r5082sZd0w6WOOqjfklXZowut9isGWJwePMPoY0hWFyxbv7bmFC5OAkCgYEA5Ex4
/gvS/ruvJNvAial8uJD6KEeRkYBaBMdoleLLSqyoFj1x/qBBeSm6pvbxSoyaUJ28
kNht392kc6NEq1fW79zdD4wcnkREOcrKfLsjCxyOnrkg7K+TkcrbRDUDOErAPv3w
sLbnSXTm0DZYUB0xC2utEnkSOHLRrJNaCTs5tmUCgYEA8oZSSb2uxvVxsJR8lxog
hVC/tkmHEi5MPfoyxeHFMcFBavocqHaWfWLasgqyJ4zB5st82AOHokJ9BLXgUtpZ
FRIzhdal8AWKzdUikvT2Cz5a3vFh8JVQcApyD5Ifh/JNtmyn170+3RkTjixOSxQN
Taeqbx3I5q4w0qs6FuP9YdECgYEAgCpOYpDQyyEimlakKKR12EfLqIFFP6IG51fr
ZvoDltCHLLUiIghluVer6cAIhgmZOFjVW5ulU2BiymiGTIrrp40erXPDPTal9qva
MVv9uGc3yfO0gCuxdM+leQ0p2ZhdhP+a+Bo2jg6K5akcux0oQ3kXmJ9Pk1EiVPgE
O9p78+ECgYEArT1OKuEKhy4tYNBOQIeC9X5hCod8nfaoRzfzCC9j2C2pKY8bD6Kz
AOQUeQTEXGqVZQq/5CWQOEUytE6xtkerH8OyN0jvcAmm5d2RpJzQu8W6WfycKfEQ
I85GWuImHH5/duK8kJgzXRiTJVEbDYe7WneMHbmgSQbIvfXb02tSG1c=
-----END RSA PRIVATE KEY-----
^D
Certificate and key are stored successfully
```

Example: Configuring Secure Email Gateway to Add or Update VLNID

```
mail.example.com> updateconfig

Service (images):                                                                    Update URL:
-------------------------------------------------------------------------------------------------------------------
Feature Key updates
```

```
http://downloads.ironport.com/asyncos
McAfee Anti-Virus definitions                                                   Cisco IronPort
Servers
DLP Engine Updates                                                              Cisco IronPort
Servers
PXE Engine Updates                                                              Cisco IronPort
Servers
Sophos Anti-Virus definitions                                                   Cisco IronPort
Servers
IronPort Anti-Spam rules                                                        Cisco IronPort
Servers
Intelligent Multi-Scan rules                                                    Cisco IronPort
Servers
Outbreak Filters rules                                                          Cisco IronPort
Servers
Timezone rules                                                                  Cisco IronPort
Servers
Enrollment Client Updates (used to fetch certificates for URL Filtering)        Cisco IronPort
Servers
Support Request updates                                                         Cisco IronPort
Servers
Content Scanner Updates                                                         Cisco IronPort
Servers
Geo Countries Updates                                                           Cisco IronPort
Servers
External Threat Feeds updates                                                   Cisco IronPort
Servers
How-Tos Updates                                                                 Cisco IronPort
Servers
Notifications component Updates                                                 Cisco IronPort
Servers
Smart License Agent Updates                                                     Cisco IronPort
Servers
Mailbox Remediation Updates                                                     Cisco IronPort
Servers
Talos Updates                                                                   Cisco IronPort
Servers
Easy Demo service Updates                                                       Cisco IronPort
Servers
Cisco IronPort AsyncOS upgrades                                                 Cisco IronPort
Servers

Service (list):                                                                 Update URL:
-------------------------------------------------------------------------------------------------------------------
McAfee Anti-Virus definitions                                                   Cisco IronPort
Servers
DLP Engine Updates                                                              Cisco IronPort
Servers
PXE Engine Updates                                                              Cisco IronPort
Servers
Sophos Anti-Virus definitions                                                   Cisco IronPort
Servers
IronPort Anti-Spam rules                                                        Cisco IronPort
Servers
Intelligent Multi-Scan rules                                                    Cisco IronPort
Servers
Outbreak Filters rules                                                          Cisco IronPort
Servers
Timezone rules                                                                  Cisco IronPort
Servers
Enrollment Client Updates (used to fetch certificates for URL Filtering)        Cisco IronPort
Servers
Support Request updates                                                         Cisco IronPort
Servers
```

```
Content Scanner Updates                                                 Cisco IronPort
Servers
Geo Countries Updates                                                   Cisco IronPort
Servers
External Threat Feeds updates                                           Cisco IronPort
Servers
How-Tos Updates                                                         Cisco IronPort
Servers
Notifications component Updates                                         Cisco IronPort
Servers
Smart License Agent Updates                                             Cisco IronPort
Servers
Mailbox Remediation Updates                                             Cisco IronPort
Servers
Talos Updates                                                           Cisco IronPort
Servers
Easy Demo service Updates                                               Cisco IronPort
Servers

Service (list):                                                         Update URL:
-----------------------------------------------------------------------------------------------------------------
Cisco IronPort AsyncOS upgrades                                         Cisco IronPort
Servers

Update interval: 5m

Alert Interval for Disabled Automatic Engine Updates: 30d

Proxy server: not enabled

HTTPS Proxy server: not enabled

Choose the operation you want to perform:
- SETUP - Edit update configuration.
- VALIDATE_CERTIFICATES - Validate update server certificates
- TRUSTED_CERTIFICATES - Manage trusted certificates for updates
- CLIENTCERTIFICATE - Upload the client certificate and key.
- VLNID - Update the VLN ID.
[]> VLNID

VLN : VLNESA1838282130
Do you like to overwrite the existing VLN[Y|N] ? []> y

Enter the VLN
[VLNESA1838282130]> VLNESA1838282131
......

Choose the operation you want to perform:
- SETUP - Edit update configuration.
- VALIDATE_CERTIFICATES - Validate update server certificates
- TRUSTED_CERTIFICATES - Manage trusted certificates for updates
- CLIENTCERTIFICATE - Upload the client certificate and key.
- VLNID - Update the VLN ID.
[]>
```

updatenow

Description

Requests an update to all system service components.

Usage

Commit: This command does not require a 'commit'.

Cluster Management: This command is restricted to machine mode. It is further restricted to the login host (i.e., the specific machine you are logged onto).

Batch Command: This command does support a batch format.

Batch Format

The batch format of the updatenow command can be used to update all components on the email gateway even if no changes are detected.

```
updatenow [force]
```

Example

```
mail3.example.com> updatenow
Success - All component updates requested
```

version

Description

View system version information

Usage

Commit: This command does not require a 'commit'.

Cluster Management: This command is restricted to machine mode.

Batch Command: This command does not support a batch format.

Example

```
mail3.example.com> version
Current Version
===============
Product: Cisco C100V Email Security Virtual Appliance
Model: C100V
Version: 9.1.0-019
Build Date: 2015-02-17
Install Date: 2015-02-19 05:17:56
Serial #: 421C73B18CFB05784A83-B03A99E71ED8
BIOS: 6.00
CPUs: 2 expected, 2 allocated
Memory: 6144 MB expected, 6144 MB allocated
RAID: NA
RAID Status: Unknown
RAID Type: NA
BMC: NA
```

vlninfo

Description

Display the Virtual License Number (VLN), and Cisco Talos Certificate and Key details.

Usage

Commit: This command does not require a 'commit'.

Cluster Management: This command can be used in all three machine modes (cluster, group, and machine).

Batch Command: This command does not support a batch format.

Note The `vlninfo` command is only applicable for Smart Software Licensing registered and SLR or PLR registered virtual devices.

Example

```
mail.example.com> vlninfo
VLN and Certificate details
VLN         : VLNESA1838282130

Certificate :
-----BEGIN CERTIFICATE-----
MIIDXjCCAkagAwIBAgIEAl0xpjANBgkqhkiG9w0BAQsFADB+MQswCQYDVQQGEwJV
UzETMBEGA1UECAwKQ2FsaWZvcm5pYTERMA8GA1UEBwwIU2FuIEpvc2UxGzAZBgNV
BAoMEkNpc2NvIFN5c3RlbXMgSW5jLjERMA8GA1UECwwIU2VjdXJpdHkxFzAVBgNV
.....
BAoMEkNpc2NvIFN5c3RlbXMgSW5jLjERMA8GA1UECwwIU2VjdXJpdHkxFzAVBgNV
-----END CERTIFICATE-----

Key :
-----BEGIN RSA PRIVATE KEY-----
MIIEpQIBAAKCAQEA8i3rRPLBwjvym8mBly8qedlPgYuZFwYh9HAABdiXGTEn474r
qUTt2J3t44bZ23yBq1k/HhbdhRrucUKeyDBZNM9U5C2upTmbvxJdci3Zq5q0Una3
88LeprotpsS4192EEBKeaUw9OyCne+VfChvGDnC3EBV2WdZT3hKEynJgRof/WfM7
.......
cnkh+5wCPyO4u1P3cw+DTRoLueLFu6YnV5/jUF2iJo1aqqAr3BblmgQ=
-----END RSA PRIVATE KEY-----
```

wipedata

Description

Use the **wipedata** command to wipe the core files or the syslog files on the disk and check the status of the last operation.

Note Depending on the size of the data, wipe action may take a while and can affect the system performance until the action is complete.

Usage

Commit: This command does not require a ‘commit’.

Cluster Management: This command is restricted to machine mode.

Batch Command: This command does not support a batch format.

Example

```
mail.example.com> wipedata

Wiping data may take a while and can affect system performance till it
completes.

Choose the operation you want to perform:
- STATUS - Display status of last command run
- COREDUMP - Wipe core files on disk
- SYSLOG - Wipe syslog files on disk
[]> syslog

   Log File Name                      File Size
-------------------------------------------------------------------------------
1. All
2. antispam                           104859648
3. antivirus                          104859648
4. cloud_connector                    104859648

Enter the number of the syslog file you want to delete.

Notes:
- To specify multiple syslog files, enter the required numbers separated by
commas (for example: 2,3,9)
- To specify a range of syslog files, enter the required range numbers with a
dash (for example: 2-5).
- To specify a combination of single and range, enter the required numbers with
comma and dash (for example: 2,4-6)
[1]> 1

Warning:
Are you sure you want to delete all syslog files?
Do you want to continue? [N]> y

Log file /data/db/syslog/antispam has been deleted successfully

Log file /data/db/syslog/antispam.writer_lock has been deleted successfully

Log file /data/db/syslog/antispam.reader_lock has been deleted successfully

Log file /data/db/syslog/cloud_connector has been deleted successfully

Log file /data/db/syslog/cloud_connector.writer_lock has been deleted
successfully

Log file /data/db/syslog/cloud_connector.reader_lock has been deleted
successfully

Log file /data/db/syslog/antivirus has been deleted successfully

Log file /data/db/syslog/antivirus.writer_lock has been deleted successfully

Log file /data/db/syslog/antivirus.reader_lock has been deleted successfully
```

upgrade

Description

The **upgrade** CLI command displays a list of available upgrades and upgrades the AsyncOS system to the version specified by the user.

Usage

Commit: This command does not require a 'commit'.

Cluster Management: This command is restricted to machine mode.

Batch Command: This command does not support a batch format.

Example

```
mail3.example.com> upgrade
Are you sure you want to proceed with upgrade? [N]> y

Choose the operation you want to perform:
- DOWNLOADINSTALL - Downloads and installs the upgrade image (needs reboot).
- DOWNLOAD - Downloads the upgrade image.
[]> downloadinstall

Upgrades available.
1. AsyncOS 10.0.2 build 020 upgrade For Email, 2017-05-09. This is release for Maintenance
 Deployment.
2. AsyncOS 11.0.0 build 132 upgrade For Management, 2017-12-08.This release is for Maintenance
 Deployment.
..........
Performing an upgrade may require a reboot of the system after the upgrade is applied. You
 can log in to your appliance after the upgrade is done.
Do you want to proceed with the upgrade? [Y]>Y
```

Content Scanning

contentscannerstatus

Display the content scanning engine version information.

Usage

Commit: This command does not require a 'commit'.

Cluster Management: This command is restricted to machine mode.

Batch Command: This command does not support a batch format.

Example

```
mail.example.com> contentscannerstatus
```

```
Component              Version               Last Updated
Content Scanner Tools  11.2.1884.970097       Never updated
```

contentscannerudpate

Request manual update of the content scanning engine. If ‘force’ parameter is used, update is performed even if no changes are detected.

Usage

Commit: This command does not require a ‘commit’.

Cluster Management: This command is restricted to machine mode. It is further restricted to the login host (i.e., the specific machine you are logged onto).

Batch Command: This command does not support a batch format.

Example

```
mail.example.com> contentscannerupdate force
Requesting forced update for Content Scanner.
```

LDAP

This section contains the following CLI commands:

ldapconfig

Description

Configure LDAP servers

Usage

Commit: This command requires a ‘commit’.

Cluster Management: This command can be used in all three machine modes (cluster, group, machine).

Batch Command: This command does not support a batch format.

Example - Creating a New LDAP Server Profile

In the following example, the ldapconfig command is used to define an LDAP server for the email gateway to bind to, and queries for recipient acceptance (ldapaccept subcommand), routing (ldaprouting subcommand), masquerading (masquerade subcommand), end-user authentication for the Spam Quarantine (isqauth subcommand), and alias consolidation for spam notifications (isqalias subcommand) are configured.

First, the nickname of “PublicLDAP” is given for the mldapserver.example.com LDAP server. Queries are directed to port 3268 (the default). The search base of example.com is defined (dc=example,dc=com), and queries for recipient acceptance, mail re-routing, and masquerading are defined. The queries in this example are similar to an OpenLDAP directory configuration which uses the inetLocalMailRecipient auxiliary object

class defined in the expired Internet Draft *draft-lachman-laser-ldap-mail-routing-xx.txt* , also sometimes known as “the Laser spec.” (A version of this draft is included with the OpenLDAP source distribution.) Note that in this example, the alternate mailhost to use for queried recipients in the mail re-routing query is mailForwardingAddress . Remember that query names are case-sensitive and must match exactly in order to return the proper results.

```
mail3.example.com> ldapconfig
No LDAP server configurations.
Choose the operation you want to perform:
- NEW - Create a new server configuration.
- SETUP - Configure LDAP options.
[]> new
Please create a name for this server configuration (Ex: "PublicLDAP"):
[]> PublicLDAP
Please enter the hostname:
[]> myldapserver.example.com
Use SSL to connect to the LDAP server? [N]> n
Select the authentication method to use for this server configuration:
1. Anonymous
2. Passphrase based
[1]> 2
Please enter the bind username:
[cn=Anonymous]>
Please enter the bind passphrase:
[]>
Connect to LDAP server to validate setting? [Y]
Connecting to the LDAP server, please wait...
Select the server type to use for this server configuration:
1. Active Directory
2. OpenLDAP
3. Unknown or Other
[3]> 1

Please enter the port number:
[3268]> 3268
Please enter the base:
[dc=example,dc=com]> dc=example,dc=com
Name: PublicLDAP
Hostname: myldapserver.example.com Port 3268
Server Type: Active Directory
Authentication Type: passphrase
Base: dc=example,dc=com
Choose the operation you want to perform:
- SERVER - Change the server for the query.
- TEST - Test the server configuration.
- LDAPACCEPT - Configure whether a recipient address should be accepted or
bounced/dropped.
- LDAPROUTING - Configure message routing.
- MASQUERADE - Configure domain masquerading.
- LDAPGROUP - Configure whether a sender or recipient is in a specified group.
- SMTPAUTH - Configure SMTP authentication.
- CERTAUTH - Configure certificate authentication.
- EXTERNALAUTH - Configure external authentication queries.
- ISQAUTH - Configure Spam Quarantine End-User Authentication Query.
- ISQALIAS - Configure Spam Quarantine Alias Consolidation Query.
[]> ldapaccept
Please create a name for this query:
[PublicLDAP.ldapaccept]> PublicLDAP.ldapaccept
Enter the LDAP query string:
[(proxyAddresses=smtp:{a})]> (proxyAddresses=smtp:{a})
Do you want to test this query? [Y]> n
Name: PublicLDAP
```

```
Hostname: myldapserver.example.com Port 3268
Server Type: Active Directory
Authentication Type: passphrase
Base: dc=example,dc=com
LDAPACCEPT: PublicLDAP.ldapaccept
Choose the operation you want to perform:
- SERVER - Change the server for the query.
- LDAPACCEPT - Configure whether a recipient address should be accepted or bounced/dropped.
- LDAPROUTING - Configure message routing.
- MASQUERADE - Configure domain masquerading.
- LDAPGROUP - Configure whether a sender or recipient is in a specified group.
- SMTPAUTH - Configure SMTP authentication.
- EXTERNALAUTH - Configure external authentication queries.
- ISQAUTH - Configure Spam Quarantine End-User Authentication Query.
- ISQALIAS - Configure Spam Quarantine Alias Consolidation Query.
[]> ldaprouting
Please create a name for this query:
[PublicLDAP.routing]> PublicLDAP.routing
Enter the LDAP query string:
[(mailLocalAddress={a})]> (mailLocalAddress={a})
The query requires one of the attributes below.  Please make a selection.
  [1] Configure MAILROUTINGADDRESS only - Rewrite the Envelope Recipient (and
leave MAILHOST unconfigured)?
  [2] Configure MAILHOST only - Send the messages to an alternate mail host
(and leave MAILROUTINGADDRESS unconfigured)?
  [3] Configure both attributes
[]> 1
Enter the attribute which contains the full rfc822 email address for the
recipients.
[mailRoutingAddress]> mailRoutingAddress
Do you want to test this query? [Y]> n
Name: PublicLDAP
Hostname: myldapserver.example.com Port 3268
Server Type: Active Directory
Authentication Type: passphrase
Base: dc=example,dc=com
LDAPACCEPT: PublicLDAP.ldapaccept
LDAPROUTING: PublicLDAP.routing
Choose the operation you want to perform:
- SERVER - Change the server for the query.
- LDAPACCEPT - Configure whether a recipient address should be accepted or bounced/dropped.
- LDAPROUTING - Configure message routing.
- MASQUERADE - Configure domain masquerading.
- LDAPGROUP - Configure whether a sender or recipient is in a specified group.
- SMTPAUTH - Configure SMTP authentication.
- EXTERNALAUTH - Configure external authentication queries.
- ISQAUTH - Configure Spam Quarantine End-User Authentication Query.
- ISQALIAS - Configure Spam Quarantine Alias Consolidation Query.
[]> masquerade
Please create a name for this query:
[PublicLDAP.masquerade]> PublicLDAP.masquerade
Enter the LDAP query string:
[(mailRoutingAddress={a})]> (mailRoutingAddress={a})
Enter the attribute which contains the externally visible full rfc822 email address.
[]> mailLocalAddress
Do you want the results of the returned attribute to replace the entire friendly portion
of the original recipient? [N]> n
Do you want to test this query? [Y]> n
Name: PublicLDAP
Hostname: myldapserver.example.com Port 3268
Server Type: Active Directory
Authentication Type: passphrase
Base: dc=example,dc=com
LDAPACCEPT: PublicLDAP.ldapaccept
```

```
LDAPROUTING: PublicLDAP.routing
MASQUERADE: PublicLDAP.masquerade
Choose the operation you want to perform:
- SERVER - Change the server for the query.
- LDAPACCEPT - Configure whether a recipient address should be accepted or bounced/dropped.
- LDAPROUTING - Configure message routing.
- MASQUERADE - Configure domain masquerading.
- LDAPGROUP - Configure whether a sender or recipient is in a specified group.
- SMTPAUTH - Configure SMTP authentication.
- EXTERNALAUTH - Configure external authentication queries.
- ISQAUTH - Configure Spam Quarantine End-User Authentication Query.
- ISQALIAS - Configure Spam Quarantine Alias Consolidation Query.
[]> isqauth
Please create a name for this query:
[PublicLDAP.isqauth]> PublicLDAP.isqauth
Enter the LDAP query string:
[(sAMAccountName={u})]> (sAMAccountName={u})
Enter the list of email attributes.
[]> mail,proxyAddresses
Do you want to activate this query? [Y]> y
Do you want to test this query? [Y]> y
User identity to use in query:
[]> admin@example.com
Passphrase to use in query:
[]> passphrase
LDAP query test results:
LDAP Server: myldapserver.example.com
Query: PublicLDAP.isqauth
User: admin@example.com
Action: match positive
LDAP query test finished.
Name: PublicLDAP
Hostname: myldapserver.example.com Port 3268
Server Type: Active Directory
Authentication Type: passphrase
Base: dc=example,dc=com
LDAPACCEPT: PublicLDAP.ldapaccept
LDAPROUTING: PublicLDAP.routing
MASQUERADE: PublicLDAP.masquerade
ISQAUTH: PublicLDAP.isqauth [active]
Choose the operation you want to perform:
- SERVER - Change the server for the query.
- LDAPACCEPT - Configure whether a recipient address should be accepted or bounced/dropped.
- LDAPROUTING - Configure message routing.
- MASQUERADE - Configure domain masquerading.
- LDAPGROUP - Configure whether a sender or recipient is in a specified group.
- SMTPAUTH - Configure SMTP authentication.
- EXTERNALAUTH - Configure external authentication queries.
- ISQAUTH - Configure Spam Quarantine End-User Authentication Query.
- ISQALIAS - Configure Spam Quarantine Alias Consolidation Query.
[]>
Current LDAP server configurations:
1. PublicLDAP: (myldapserver.example.com:3268)
Choose the operation you want to perform:
- NEW - Create a new server configuration.
- SETUP - Configure LDAP options.
- EDIT - Modify a server configuration.
- DELETE - Remove a server configuration.
[]>
```

Example - Configuring Global Settings

In the following example, the LDAP global settings are configured, including the certificate for TLS connections.

```
mail3.example.com> ldapconfig
No LDAP server configurations.
Choose the operation you want to perform:
- NEW - Create a new server configuration.
- SETUP - Configure LDAP options.
[]> setup
Choose the IP interface for LDAP traffic.
1. Auto
2. Management (10.92.145.175/24: esx16-esa01.qa)
[1]> 1
LDAP will determine the interface automatically.
Should group queries that fail to complete be silently treated as having
negative results? [Y]>
Validate LDAP server certificate? [Y]>
The "Demo" certificate is currently configured. You may use "Demo", but this will not be
secure.
1. partner.com
2. Demo
Please choose the certificate to apply:
[1]> 1
No LDAP server configurations.
Choose the operation you want to perform:
- NEW - Create a new server configuration.
- SETUP - Configure LDAP options.
[]>
```

ldapflush

Description

Flush any cached LDAP results.

Usage

Commit: This command does not require a ‘commit’.

Cluster Management: This command is restricted to machine mode.

Batch Command: This command does not support a batch format

Example

```
mail3.example.com> ldapflush
Are you sure you want to flush any cached LDAP results? [N]> y
Flushing cache
mail3.example.com>
```

ldaptest

Description

Perform a single LDAP query test

Usage

Commit: This command does not require a 'commit'.

Cluster Management: This command is restricted to machine mode.

Batch Command: This command does not support a batch format

Example

In this example, the ldaptest command is used to test the only recipient acceptance query for the configured LDAP server configuration. The recipient address "admin@example.com" passes the test, while the recipient address "bogus@example.com" fails.

```
mail3.example.com> ldaptest
Select which LDAP query to test:
1. PublicLDAP.ldapaccep
[1]> 1
Address to use in query:
[]> admin@example.com
LDAP query test results:
               Query: PublicLDAP.ldapaccept
            Argument: admin@example.com
              Action: pass
LDAP query test finished.
mail3.example.com> ldaptest
Select which LDAP query to test:
1. PublicLDAP.ldapaccep
[1]> 1
Address to use in query:
[]> bogus@example.com
LDAP query test results:
 Query: PublicLDAP.ldapaccept
 Argument: bogus@example.com
 Action: drop or bounce (depending on listener settings)
 Reason: no matching LDAP record was found
LDAP query test finished.
mail3.example.com>
```

sievechar

Description

Sets or disables the character used for Sieve Email Filtering, as described in RFC 3598. Note that the Sieve Character is ONLY recognized in LDAP Accept, LDAP Reroute, and LDAP Reroute queries. Other parts of the system will operate on the complete email address.

Allowable characters are: -_=+/^#

Usage

Commit: This command does not require a ‘commit’.

Cluster Management: This command can be used in all three machine modes (cluster, group, machine).

Batch Command: This command does not support a batch format

Example

In this example, the sievechar command is used to define + as the sieve character recognized in LDAP Accept, LDAP Reroute, and LDAP Group queries.

```
mail3.example.com> sievechar
Sieve Email Filtering is currently disabled.
Choose the operation you want to perform:
- SETUP - Set the separator character.
[]> setup
Enter the Sieve Filter Character, or a space to disable Sieve Filtering.
[]> +
Sieve Email Filter is enabled, using the '+' character as separator.
This applies only to LDAP Accept, LDAP Reroute, and LDAP Group Queries..
Choose the operation you want to perform:
- SETUP - Set the separator character.
[]>
```

Mail Delivery Configuration/Monitoring

This section contains the following CLI commands:

addresslistconfig

Description

Configure address lists.

Usage

Commit: This command requires a ‘commit’.

Cluster Management: This command can be used in all three machine modes (cluster, group, machine).

Batch Command: This command supports a batch format.

Batch Format

The batch format for the `addresslistconfig` command can be used to create a new address list, edit an existing address list, print a list of address lists, delete an address list, or find conflicting addresses within an address list.

- Adding a new address list:

```
addresslistconfig new <name> --descr=<description> --addresses=<address1,address2,...>
```

- Editing an existing address list:

```
addresslistconfig edit <name> --name=<new-name> --descr=<description>
--addresses=<address1,address2,...>
```

- Deleting an address list:

```
addresslistconfig delete <name>
```

- Printing a list of address lists:

```
addresslistconfig print <name>
```

- Finding conflicting addresses within an address list:

```
addresslistconfig conflicts <name>
```

Example

```
mail1.example.com> addresslistconfig

No address lists configured.

Choose the operation you want to perform:
- NEW - Create a new address list.
[]> new

Enter a name for the address list:
> add-list1

Enter a description for the address list:
> This is a sample address list

Enter the type of list:
1. Full Email Addresses only
2. Domains only
3. IP Addresses only
4. All of the above
Enter the type of the address list:
[4]> 1

Enter a comma separated list of addresses:
(e.g.: user@example.com)
> user1@example.com, user2@example.com

Address list "add-list1" added.

Choose the operation you want to perform:
- NEW - Create a new address list.
- EDIT - Modify an address list.
- DELETE - Remove an address list.
- PRINT - Display the contents of an address list.
- CONFLICTS - Find conflicting entries within an address list.
[]>
```

aliasconfig

Description

Configure email aliases.

Usage

Commit: This command requires a ‘commit’.

Cluster Management: This command can be used in all three machine modes (cluster, group, machine).

Batch Command: This command supports a batch format.

Batch Format

The batch format of the aliasconfig command can be used to add a new alias table, edit an existing table, print a list of email aliases, and import/export alias table. To invoke as a batch command, use the following format of the aliasconfig command with the variables listed below:

- Adding a new email alias:

```
aliasconfig new <domain> <alias> [email_address1] [email_address2] ...
```

Note Using the ‘ aliasconfig new ’ command with a non-existant domain causes the domain to be created.

- Editing an existing email alias

```
aliasconfig edit <domain> <alias> <email_address1] [email_address2] ...
```

- Displaying an email alias:

```
aliasconfig print
```

- Importing a local alias listing:

```
aliasconfig import <filename>
```

- Exporting an alias listing on the email gateway:

```
aliasconfig export <filename>
```

Example

```
mail3.example.com> aliasconfig
Enter address(es) for "customercare".
Separate multiple addresses with commas.
[]> bob@example.com, frank@example.com, sally@example.com
Adding alias customercare: bob@example.com,frank@example.com,sally@example.com
Do you want to add another alias?  [N]> n
There are currently 1 mappings defined.
Choose the operation you want to perform:
- NEW - Create a new entry.
- EDIT - Modify an entry.
- DELETE - Remove an entry.
- PRINT - Display the table.
- IMPORT - Import aliases from a file.
- EXPORT - Export table to a file.
- CLEAR - Clear the table.
[]> new
How do you want your aliases to apply?
1. Globally
2. Add a new domain context
3. example.com
[1]> 1
Enter the alias(es) to match on.
Separate multiple aliases with commas.
Allowed aliases:
    - "user@domain" - This email address.
    - "user" - This user for any domain
    - "@domain" - All users in this domain.
    - "@.partialdomain" - All users in this domain, or any of its sub domains.
[]> admin
Enter address(es) for "admin".
Separate multiple addresses with commas.
[]> administrator@example.com
Adding alias admin: administrator@example.com
Do you want to add another alias?  [N]> n
There are currently 2 mappings defined.
Choose the operation you want to perform:
- NEW - Create a new entry.
- EDIT - Modify an entry.
- DELETE - Remove an entry.
- PRINT - Display the table.
- IMPORT - Import aliases from a file.
- EXPORT - Export table to a file.
- CLEAR - Clear the table.
[]> print
admin: administrator@example.com
[ example.com ]
customercare: bob@example.com, frank@example.com, sally@example.com
There are currently 2 mappings defined.
Choose the operation you want to perform:
- NEW - Create a new entry.
- EDIT - Modify an entry.
- DELETE - Remove an entry.
- PRINT - Display the table.
- IMPORT - Import aliases from a file.
- EXPORT - Export table to a file.
- CLEAR - Clear the table.
[]>
```

Table 6: Arguments for Configuring Aliases

Argument	Description
<domain>	The domain context in which an alias is applied. 'Global' specifies the Global Domain Context.
<alias>	The name of the alias to configure Aliases permitted at the Global Comain Context: ' user@domain' — This email address. ' user'— This user for any domain. '@domain— All users in this domain. '@.partialdomain'— All users in this domain or any of its sub-domains. Aliases permitted for specific domain contexts: 'user'— This user in this domain context 'user@domain'— This email address
<email_address>	The email address that an alias mapps to. A single alias can map to multiple email addresses.
<filename>	The filename to use with importing/exporting the alias table.

archivemessage

Description

Archive older messages in your queue.

Usage

Commit: This command does not require a commit.

Cluster Management: This command is restricted to machine mode..

Batch Command: This command does not support a batch format.

Example

In the following example, an older message is archived:

```
mail3.example.com>
archivemessage
Enter the MID to archive.
[0]> 47

MID 47 has been saved in file oldmessage_47.mbox in the configuration
```

altsrchost

Description

Configure Virtual Gateway(tm) mappings.

Usage

Commit: This command requires a 'commit'.

Cluster Management: This command can be used in all three machine modes (cluster, group, machine).

Batch Command: This command does not support a batch format.

Example

In the following example, the altsrchost table is printed to show that there are no existing mappings. Two entries are then created:

- Mail from the groupware server host named @exchange.example.com is mapped to the PublicNet interface.
- Mail from the sender IP address of 192.168.35.35 is mapped to the AnotherPublicNet interface.

Finally, the altsrchost mappings are printed to confirm and the changes are committed.

```
mail3.example.com> altsrchost
There are currently no mappings configured.
Choose the operation you want to perform:
- NEW - Create a new mapping.
- IMPORT - Load new mappings from a file.
[]> new
Enter the Envelope From address or client IP address for which you want to set up a Virtual
 Gateway mapping.
Partial addresses such as "@example.com" or "user@" are allowed.
[]> @exchange.example.com
Which interface do you want to send messages for @exchange.example.com from?
1. AnotherPublicNet (192.168.2.2/24: mail4.example.com)
2. Management (192.168.42.42/24: mail3.example.com)
3. PrivateNet (192.168.1.1/24: mail3.example.com)
4. PublicNet (192.168.2.1/24: mail4.example.com)
[1]> 4
Mapping for @exchange.example.com on interface PublicNet created.
Choose the operation you want to perform:
- NEW - Create a new mapping.
- EDIT - Modify a mapping.
- DELETE - Remove a mapping.
- IMPORT - Load new mappings from a file.
- EXPORT - Export all mappings to a file.
- PRINT - Display all mappings.
- CLEAR - Remove all mappings.
[]> new
Enter the Envelope From address or client IP address for which you want to set up a Virtual
 Gateway mapping.
Partial addresses such as "@example.com" or "user@" are allowed.
[]> 192.168.35.35
Which interface do you want to send messages for 192.168.35.35 from?
1. AnotherPublicNet (192.168.2.2/24: mail4.example.com)
2. Management (192.168.42.42/24: mail3.example.com)
3. PrivateNet (192.168.1.1/24: mail3.example.com)
```

```
4. PublicNet (192.168.2.1/24: mail4.example.com)
[1]> 1
Mapping for 192.168.35.35 on interface AnotherPublicNet created.
Choose the operation you want to perform:
- NEW - Create a new mapping.
- EDIT - Modify a mapping.
- DELETE - Remove a mapping.
- IMPORT - Load new mappings from a file.
- EXPORT - Export all mappings to a file.
- PRINT - Display all mappings.
- CLEAR - Remove all mappings.
[]> print
1. 192.168.35.35 -> AnotherPublicNet
2. @exchange.example.com -> PublicNet
Choose the operation you want to perform:
- NEW - Create a new mapping.
- EDIT - Modify a mapping.
- DELETE - Remove a mapping.
- IMPORT - Load new mappings from a file.
- EXPORT - Export all mappings to a file.
- PRINT - Display all mappings.
- CLEAR - Remove all mappings.
[]>
mail3.example.com> commit
Please enter some comments describing your changes:
[]> Added 2 altsrchost mappings
Do you want to save the current configuration for rollback? [Y]> n
Changes committed: Fri May 23 11:42:12 2014 GMT
```

bounceconfig

Description

Configure the behavior of bounces.

Usage

Commit: This command requires a ‘commit’.

Cluster Management: This command can be used in all three machine modes (cluster, group, machine).

Batch Command: This command supports a batch format. See the inline CLI help for more details. Use the help command to access the inline help for this command.

Example

In the following example, a bounce profile named bounceprofile is created using the **bounceconfig** command. In this profile, all hard bounced messages are sent to the alternate address **bounce-mailbox@example.com** . Delay warnings messages are enabled. One warning message will be sent per recipient, and the default value of 4 hours (14400 seconds) between warning messages is accepted

```
mail3.example.com> bounceconfig
Current bounce profiles:
1. Default
Choose the operation you want to perform:
- NEW - Create a new profile.
- EDIT - Modify a profile.
[]> new
```

```
Please create a name for the profile:
[]> bounceprofile
Please enter the maximum number of retries.
[100]> 100
Please enter the maximum number of seconds a message may stay in the queue before being
hard bounced.
[259200]> 259200
Please enter the initial number of seconds to wait before retrying a message.
[60]> 60
Please enter the maximum number of seconds to wait before retrying a message.
[3600]> 3600
Do you want a message sent for each hard bounce? (Yes/No/Default) [Y]> y
Do you want bounce messages to use the DSN message format? (Yes/No/Default) [Y]> y
Enter the subject to use:
[Delivery Status Notification (Failure)]>
Select default notification template:
1. System Generated
2. bounce_english
3. bounce_russian
[1]>
Do you want to configure language specific templates? [N]>
Do you want to parse the DSN "Status" field received from bounce
responses to include in the DSN generated by the appliance?
(Yes/No/Default) [N]>
If a message is undeliverable after some interval, do you want to send a delay warning
message? (Yes/No/Default) [N]> y
Enter the subject to use:
[Delivery Status Notification (Delay)]>
Select default notification template:
1. System Generated
2. bounce_english
3. bounce_russian
[1]> 1
Do you want to configure language specific templates? [N]>
Please enter the minimum interval in seconds between delay warning messages.
[14400]> 14400
Please enter the maximum number of delay warning messages to send per
recipient.
[1]> 1
Do you want hard bounce and delay warning messages sent to an alternate address, instead
of the sender? [N]> y
Please enter the email address to send hard bounce and delay warning.
[]> bounce-mailbox@example.com
Do you want bounce messages to be signed (Yes/No/Default)?  [N]>
Current bounce profiles:
1. Default
2. bounceprofile
Choose the operation you want to perform:
- NEW - Create a new profile.
- EDIT - Modify a profile.
- DELETE - Remove a profile.
[]>
mail3.example.com>
```

Applying a Bounce Profile to a Listener

After a bounce profile has been configured, you can apply the profile for each listener using the listenerconfig -> bounceconfig command and then committing the changes.

Note Bounce profiles can be applied based upon the listener that a message was received on. However, this listener has nothing to do with how the message is ultimately delivered.

In this example, the OutboundMail private listener is edited and the bounce profile named **bouncepr1** is applied to it.

```
mail3.example.com> listenerconfig
Currently configured listeners:
1. InboundMail (on PublicNet, 192.168.2.1) SMTP Port 25 Public
2. OutboundMail (on PrivateNet, 192.168.1.1) SMTP Port 25 Private
Choose the operation you want to perform:
- NEW - Create a new listener.
- EDIT - Modify a listener.
- DELETE - Remove a listener.
- SETUP - Change global settings.
[]> edit
Enter the name or number of the listener you wish to edit.
[]> 2
Name: OutboundMail
Type: Private
Interface: PrivateNet (192.168.1.1/24) TCP Port 25
Protocol: SMTP
Default Domain:
Max Concurrency: 600 (TCP Queue: 50)
Domain Map: Disabled
TLS: No
SMTP Authentication: Disabled
Bounce Profile: Default
Footer: None
LDAP: Off
Choose the operation you want to perform:
- NAME - Change the name of the listener.
- INTERFACE - Change the interface.
- LIMITS - Change the injection limits.
- SETUP - Configure general options.
- HOSTACCESS - Modify the Host Access Table.
- BOUNCECONFIG - Choose the bounce profile to use for messages injected on this listener.
- MASQUERADE - Configure the Domain Masquerading Table.
- DOMAINMAP - Configure domain mappings.
[]> bounceconfig
Please choose a bounce profile to apply:
1. Default
2. bouncepr1
3. New Profile
[1]> 2
Name: OutboundMail
Type: Private
Interface: PrivateNet (192.168.1.1/24) TCP Port 25
Protocol: SMTP
Default Domain:
Max Concurrency: 600 (TCP Queue: 50)
Domain Map: Disabled
TLS: No
SMTP Authentication: Disabled
Bounce Profile: bouncepr1
Footer: None
LDAP: Off
Choose the operation you want to perform:
- NAME - Change the name of the listener.
```

```
- INTERFACE - Change the interface.
- LIMITS - Change the injection limits.
- SETUP - Configure general options.
- HOSTACCESS - Modify the Host Access Table.
- BOUNCECONFIG - Choose the bounce profile to use for messages injected on this listener.
- MASQUERADE - Configure the Domain Masquerading Table.
- DOMAINMAP - Configure domain mappings.
[]>
Currently configured listeners:
1. InboundMail (on PublicNet, 192.168.2.1) SMTP Port 25 Public
2. OutboundMail (on PrivateNet, 192.168.1.1) SMTP Port 25 Private
Choose the operation you want to perform:
- NEW - Create a new listener.
- EDIT - Modify a listener.
- DELETE - Remove a listener.
- SETUP - Change global settings.
[]>
mail3.example.com> commit
Please enter some comments describing your changes:
[]> Enabled the bouncepr1 profile to the Outbound mail listener
Do you want to save the current configuration for rollback? [Y]> n
Changes committed: Fri May 23 11:42:12 2014 GMT
```

bouncerecipients

Description

Bounce messages from the queue.

Usage

Commit: This command does not require a ‘commit’.

Cluster Management: This command is restricted to machine mode.

Batch Command: This command does not support a batch format

Example

Recipients to be bounced are identified by either the destination recipient host or the message sender identified by the specific address given in the Envelope From line of the message envelope. Alternately, all messages in the delivery queue can be bounced at once.

Bounce by Recipient Host

```
mail3.example.com> bouncerecipients
Please select how you would like to bounce messages:
1. By recipient host.
2. By Envelope From address.
3. All.
[1]> 1
Please enter the hostname for the messages you wish to bounce.
[]> example.com
Are you sure you want to bounce all messages being delivered to "example.com"? [N]> Y
Bouncing messages, please wait.
100 messages bounced.
```

Bounce by Envelope From Address

```
mail3.example.com> bouncerecipients
Please select how you would like to bounce messages:
1. By recipient host.
2. By Envelope From address.
3. All.
[1]> 2
Please enter the Envelope From address for the messages you wish to bounce.
[]> mailadmin@example.com
Are you sure you want to bounce all messages with the Envelope From address of
"mailadmin@example.com"? [N]> Y
Bouncing messages, please wait.
100 messages bounced.
```

Bounce All

```
mail3.example.com> bouncerecipients
Please select how you would like to bounce messages:
1. By recipient host.
2. By Envelope From address.
3. All.
[1]>
Are you sure you want to bounce all messages in the queue? [N]> Y
Bouncing messages, please wait.
1000 messages bounced.
```

bvconfig

Description

Configure settings for Bounce Verification. Use this command to configure keys and invalid bounced emails.

Usage

Commit: This command requires a ‘commit’.

Cluster Management: This command can be used in all three machine modes (cluster, group, machine).

Batch Command: This command does not support a batch format.

Example

The following exampe shows key configuration and settings configured for invalid bounced emails.

```
mail3.example.com> bvconfig
Behavior on invalid bounces: reject
Key for tagging outgoing mail: key
Previously-used keys for verifying incoming mail:
        1. key (current outgoing key)
        2. goodneighbor (last in use Wed May 31 23:21:01 2006 GMT)
Choose the operation you want to perform:
- KEY - Assign a new key for tagging outgoing mail.
- PURGE - Purge keys no longer needed for verifying incoming mail.
- CLEAR - Clear all keys including current key.
- SETUP - Set how invalid bounces will be handled.
[]> key
```

```
Enter the key to tag outgoing mail with (when tagging is enabled in the Good
Neighbor Table)
[]> basic_key
Behavior on invalid bounces: reject
Key for tagging outgoing mail: basic_key
Previously-used keys for verifying incoming mail:
        1. basic_key (current outgoing key)
        2. key (last in use Wed May 31 23:22:49 2006 GMT)
        3. goodneighbor (last in use Wed May 31 23:21:01 2006 GMT)
Choose the operation you want to perform:
- KEY - Assign a new key for tagging outgoing mail.
- PURGE - Purge keys no longer needed for verifying incoming mail.
- CLEAR - Clear all keys including current key.
- SETUP - Set how invalid bounces will be handled.
[]> setup
How do you want bounce messages which are not addressed to a valid tagged
recipient to be handled?
1. Reject.
2. Add a custom header and deliver.
[1]> 1
Behavior on invalid bounces: reject
Key for tagging outgoing mail: basic_key
Previously-used keys for verifying incoming mail:
        1. basic_key (current outgoing key)
        2. key (last in use Wed May 31 23:22:49 2006 GMT)
        3. goodneighbor (last in use Wed May 31 23:21:01 2006 GMT)
Choose the operation you want to perform:
- KEY - Assign a new key for tagging outgoing mail.
- PURGE - Purge keys no longer needed for verifying incoming mail.
- CLEAR - Clear all keys including current key.
- SETUP - Set how invalid bounces will be handled.
[]>
mail3.example.com> commit
Please enter some comments describing your changes:
[]> Configuring a new key and setting reject for invalid email bounces
Do you want to save the current configuration for rollback? [Y]> n
Changes committed: Fri May 23 11:42:12 2014 GMT
```

deleterecipients

Description

Delete messages from the queue

Usage

Commit: This command does not require a ‘commit’.

Cluster Management: This command is restricted to machine mode.

Batch Command: This command does not support a batch format

Example

The email gateway gives you various options to delete recipients depending upon the need. The following example show deleting recipients by recipient host, deleting by Envelope From Address, and deleting all recipients in the queue.

Delete by Recipient Domain

```
mail3.example.com> deleterecipients
Please select how you would like to delete messages:
1. By recipient host.
2. By Envelope From address.
3. All.
[1]> 1
Please enter the hostname for the messages you wish to delete.
[]> example.com
Are you sure you want to delete all messages being delivered to "example.com"? [N]> Y
Deleting messages, please wait.
100 messages deleted.
```

Delete by Envelope From Address

```
mail3.example.com> deleterecipients
Please select how you would like to delete messages:
1. By recipient host.
2. By Envelope From address.
3. All.
[1]> 2
Please enter the Envelope From address for the messages you wish to delete.
[]> mailadmin@example.com
Are you sure you want to delete all messages with the Envelope From address of
"mailadmin@example.com"? [N]> Y
Deleting messages, please wait.
100 messages deleted.
```

Delete All

```
mail3.example.com> deleterecipients
Please select how you would like to delete messages:
1. By recipient host.
2. By Envelope From address.
3. All.
[1]> 1
Are you sure you want to delete all messages in the queue? [N]> Y
Deleting messages, please wait.
1000 messages deleted.
```

deliveryconfig

Description

Configure mail delivery

Usage

Commit: This command requires a ‘commit’.

Cluster Management: This command can be used in all three machine modes (cluster, group, machine).

Batch Command: This command does not support a batch format.

Example

In the following example, the deliveryconfig command is used to set the default interface to “Auto” with “Possible Delivery” enabled. The system-wide maximum outbound message delivery is set to 9000 connections.

```
mail3.example.com> deliveryconfig
Choose the operation you want to perform:
- SETUP - Configure mail delivery.
[]> setup
Choose the default interface to deliver mail.
1. Auto
2. AnotherPublicNet (192.168.3.1/24: mail4.example.com)
3. Management (192.168.42.42/24: mail3.example.com)
4. PrivateNet (192.168.1.1/24: mail3.example.com)
5. PublicNet (192.168.2.1/24: mail3.example.com)
[1]> 1
Enable "Possible Delivery" (recommended)?  [Y]> y
Please enter the default system wide maximum outbound message delivery
concurrency
[10000]> 9000
mail3.example.com>
```

delivernow

Description

Reschedule messages for immediate delivery. Users have the option of selecting a single recipient host, or all messages currently scheduled for delivery.

Usage

Commit: This command does not require a ‘commit’.

Cluster Management: This command is restricted to machine mode.

Batch Command: This command does not support a batch format

Example

```
mail3.example.com> delivernow
Please choose an option for scheduling immediate delivery.
1. By recipient domain
2. All messages
[1]> 1
Please enter the recipient domain to schedule for delivery.
[]>foo.com
Scheduling all messages to foo.com for delivery.
```

destconfig

Formerly the **setgoodtable** command. The table is now called the Destination Control Table. Use this table to configure delivery limits for a specified domain.

Using the destconfig Command

The following commands are available within the destconfig submenu:

Table 7: destconfig Subcommands

Syntax	Description
SETUP	Change global settings.
NEW	Add new limits for a domain.
EDIT	Modify the limits for a domain.
DELETE	Remove the limits for a domain.
DEFAULT	Change the default limits for non-specified domains.
LIST	Display the list of domains and their limits.
DETAIL	Display the details for one destination or all entries.
CLEAR	Remove all entries from the table.
IMPORT	Imports a table of destination control entries from a .INI configuration file.
EXPORT	Exports a table of destination control entries to a .INI configuration file.

The **`destconfig`** command requires the following information for each row in the Destination Controls table.

- Domain (recipient host)
- Maximum simultaneous connections to the domain
- Messages-per-connection limit
- Recipient limit
- System-wide or Virtual Gateway switch
- Enforce limits per domain
- Time period for recipient limit (in minutes)
- Bounce Verification
- Bounce profile to use for the domain

Sample Destination Control Table

The following table shows entries in a destination control table.

Table 8: Example Destination Control Table Entries

Domain	Conn. Limit	Rcpt. Limit	Min. Prd.	Enforce MX/DOM
(default)	500	None	1	Domain

Domain	Conn. Limit	Rcpt. Limit	Min. Prd.	Enforce MX/DOM
Unlisted domains get their own set of 500 connections with unlimited rcpts/hr				
(default)	500	None	1	MXIP
Mail gateways at unlisted domains get up to 500 connections, with unlimited rcpts/hr				
partner.com	10	500	60	Domain
All gateways at partner.com will share 10 connections, with 500 rcpts/minute maximum				
101.202.101.2	500	None	0	MXIP
Specifying an IP address				

Batch Format

The batch format of the destconfig command can be used to perform all the fuctions of the traditional CLI command.

- Creating a new destination control table

```
destconfig new <profile> [options]
```

- Editing an existing destination control table

```
destconfig edit <default|profile> [options]
```

- Deleting an existing destination control table

```
destconfig delete <profile>
```

- Displaying a summary of all destination control entries

```
destconfig list
```

- Displaying details for one destination or all entries

```
destconfig detail <default|profile|all>
```

- Deleting all existing destination control table entries

```
destconfig clear
```

- Import table from a file

```
destconfig import <filename>
```

- Export table to a file

```
destconfig export <filename>
```

For the edit and new batch commands, any or all of the following options may be provided by identifying the value with the variable name and an equals sign. Options not specified will not be modified (if using edit) or will be set to default values (if using new).

concurrency_limit=<int> - The maximum concurrency for a specific host.
concurrency_limit_type=<host|MXIP> - Maximum concurrency is per host or per MX IP.
concurrency_limit_apply=<system|VG> - Apply maximum concurrency is system wide or by Virtual Gateway(tm).
max_messages_per_connection=<int> - The maximum number of messages that will be sent per connection.
recipient_limit_minutes=<int> - The time frame to check for recipient limits in minutes.
recipient_limit=<int> - The number of recipients to limit per unit of time.
use_tls=<off|on|require|on_verify|require_verify> - Whether TLS should be on, off, or required for a given host.
tls_certid="<certificate>" - Certificate used for this destination control.
bounce_profile=<default|profile> - The bounce profile name to use.
bounce_verification=<off|on> - Bounce Verification option.

Example: Creating a new destconfig Entry

In the following example, the current destconfig entries are printed to the screen. Then, a new entry for the domain partner.com is created. The concurrency limit of 100 simultaneous connections and recipient limit of 50 recipients for a 60-minute time period is set for that domain. So, the system will never open more than 100 connections or deliver to more than more than 50 recipients in a given hour to the domain partner.com . No bounce profile is assigned for this specific domain, and no specific TLS setting is configured. Finally, the changes are printed to confirm and then committed

```
mail3.example.com> destconfig
There are currently 2 entries configured.
Choose the operation you want to perform:
```

```
- SETUP - Change global settings.
- NEW - Create a new entry.
- EDIT - Modify an entry.
- DELETE - Remove an entry.
- DEFAULT - Change the default.
- LIST - Display a summary list of all entries.
- DETAIL - Display details for one destination or all entries.
- CLEAR - Remove all entries.
- IMPORT - Import tables from a file.
- EXPORT - Export tables to a file.
[]> list
l
           Rate               Bounce        Bounce
Domain     Limiting  TLS      Verification  Profile
=========  ========  =======  ============  =========
(Default)  On        Off      Off           (Default)
Choose the operation you want to perform:
- SETUP - Change global settings.
- NEW - Create a new entry.
- EDIT - Modify an entry.
- DELETE - Remove an entry.
- DEFAULT - Change the default.
- LIST - Display a summary list of all entries.
- DETAIL - Display details for one destination or all entries.
- CLEAR - Remove all entries.
- IMPORT - Import tables from a file.
- EXPORT - Export tables to a file.
[]> new
Enter the domain you wish to configure.
[]> partner.com
Do you wish to configure a concurrency limit for partner.com? [Y]> y
Enter the max concurrency limit for "partner.com".
[500]> 100
Do you wish to apply a messages-per-connection limit to this domain? [N]> n
Do you wish to apply a recipient limit to this domain? [N]> y
Enter the number of minutes used to measure the recipient limit.
[60]> 60
Enter the max number of recipients per 60 minutes for "partner.com".
[]> 50
Select how you want to apply the limits for partner.com:
1. One limit applies to the entire domain for partner.com
2. Separate limit for each mail exchanger IP address
[1]> 1
Select how the limits will be enforced:
1. System Wide
2. Per Virtual Gateway(tm)
[1]> 1
Do you wish to apply a specific TLS setting for this domain? [N]> n
Do you wish to apply a specific bounce verification address tagging setting for
this domain? [N]> n
Do you wish to apply a specific bounce profile to this domain? [N]> n
There are currently 3 entries configured.
mail3.example.com> commit
Please enter some comments describing your changes:
[]> Throttled delivery to partner.com in the destconfig table
Do you want to save the current configuration for rollback? [Y]> n
Changes committed: Fri May 23 11:42:12 2014 GMT
```

Example: Bounce Profile and TLS Settings

In this example, a new destconfig entry is configured for the domain newpartner.com. TLS connections are required. The example also shows the bounce profile named bouncepr1 (see Applying a Bounce Profile to a Listener, on page 172) configured to be used for all email delivery to the domain newpartner.com .

```
mail3.example.com> destconfig
There is currently 1 entry configured.
Choose the operation you want to perform:
- SETUP - Change global settings.
- NEW - Create a new entry.
- EDIT - Modify an entry.
- DELETE - Remove an entry.
- DEFAULT - Change the default.
- LIST - Display a summary list of all entries.
- DETAIL - Display details for one destination or all entries.
- CLEAR - Remove all entries.
- IMPORT - Import tables from a file.
- EXPORT - Export tables to a file.
[]> new
Enter the domain you wish to configure.
[]> newpartner.com
Do you wish to configure a concurrency limit for newpartner.com? [Y]> n
Do you wish to apply a messages-per-connection limit to this domain? [N]> n
Do you wish to apply a recipient limit to this domain? [N]> n
Do you wish to apply a specific TLS setting for this domain? [N]> y
Do you want to use TLS support?
1. No
2. Preferred
3. Required
4. Preferred(Verify)
5. Required(Verify)
[1]> 3
You have chosen to enable TLS. Please use the 'certconfig' command to ensure that there is
 a valid certificate configured.

Do you wish to configure a specific certificate for connections to this domain? [Y]>
1. example1.com
2. example.com
Please choose the certificate to apply:
[1]>

Do you wish to apply a specific bounce verification address tagging setting for this domain?
 [N]> y
Perform bounce verification address tagging? [N]> y
Do you wish to apply a specific bounce profile to this domain? [N]> y
Please choose a bounce profile to apply:
1. Default
2. New Profile
[1]> 1
There are currently 2 entries configured.
Choose the operation you want to perform:
- SETUP - Change global settings.
- NEW - Create a new entry.
- EDIT - Modify an entry.
- DELETE - Remove an entry.
- DEFAULT - Change the default.
- LIST - Display a summary list of all entries.
- DETAIL - Display details for one destination or all entries.
- CLEAR - Remove all entries.
- IMPORT - Import tables from a file.
- EXPORT - Export tables to a file.
```

```
[]> detail
                  Rate                Bounce        Bounce
Domain            Limiting  TLS       Verification  Profile
================  ========  ========  ============  =========
newpartner.com    Default   Req       On            Default
(Default)         On        Off       Off           (Default)
Enter the domain name to view, or enter DEFAULT to view details for the
default, or enter ALL to view details for all:
[]> all
newpartner.com
 Maximum messages per connection: Default
 Rate Limiting: Default
 TLS: Required
 Bounce Verification Tagging: On
 Bounce Profile: Default
Default
 Rate Limiting:
 500 concurrent connections
 No recipient limit
 Limits applied to entire domain, across all virtual gateways
 TLS: Off
 Bounce Verification Tagging: Off
There are currently 2 entries configured.
[]>
mail3.example.com> commit
Please enter some comments describing your changes:
[]> enabled TLS for delivery to newpartner.com using demo certificate
Do you want to save the current configuration for rollback? [Y]> n
Changes committed: Fri May 23 11:42:12 2014 GMT
```

Example: Inbound "Shock Absorber"

In this example, another **destconfig** entry is created to throttle mail to the internal groupware server exchange.example.com . This "shock absorber" entry for your internal server throttles inbound delivery to your internal groupware servers during periods of especially high volume traffic. In this example, the email gateway will never open more than ten simultaneous connections or deliver to more than 1000 recipients to the internal groupware server exchange.example.com in any given *minute* . No bounce profile or TLS setting is configured:

```
mail3.example.com> destconfig
There are currently 2 entries configured.
Choose the operation you want to perform:
- SETUP - Change global settings.
- NEW - Create a new entry.
- EDIT - Modify an entry.
- DELETE - Remove an entry.
- DEFAULT - Change the default.
- LIST - Display a summary list of all entries.
- DETAIL - Display details for one destination or all entries.
- CLEAR - Remove all entries.
- IMPORT - Import tables from a file.
- CLEAR - Remove all entries.
[]> new
Enter the domain you wish to configure.
[]> exchange.example.com
Do you wish to configure a concurrency limit for exchange.example.com? [Y]> y
Enter the max concurrency limit for "exchange.example.com".
[500]> 10
Do you wish to apply a recipient limit to this domain? [N]> y
Enter the number of minutes used to measure the recipient limit.
[60]> 1
```

```
Enter the max number of recipients per 1 minutes for "exchange.example.com".
[]> 1000
Select how you want to apply the limits for exchange.example.com:
1. One limit applies to the entire domain for exchange.example.com
2. Separate limit for each mail exchanger IP address
[1]> 1
Select how the limits will be enforced:
1. System Wide
2. Per Virtual Gateway(tm)
[1]> 1
Do you wish to apply a specific TLS setting for this domain? [N]> n
Do you wish to apply a specific bounce verification address tagging setting for this domain?
 [N]> n
Do you wish to apply a specific bounce profile to this domain? [N]> n
There are currently 3 entries configured.
Choose the operation you want to perform:
- SETUP - Change global settings.
- NEW - Create a new entry.
- EDIT - Modify an entry.
- DELETE - Remove an entry.
- DEFAULT - Change the default.
- LIST - Display a summary list of all entries.
- DETAIL - Display details for one destination or all entries.
- CLEAR - Remove all entries.
- IMPORT - Import tables from a file.
- CLEAR - Remove all entries.
[]>
mail3.example.com> commit
Please enter some comments describing your changes:
[]> set up shock absorber for inbound mail
Do you want to save the current configuration for rollback? [Y]> n
Changes committed: Fri May 23 11:42:12 2014 GMT
```

Example: Global Settings

In this example, the TLS alert and certificate for TLS connections are configured.

```
mail3.example.com> destconfig
Choose the operation you want to perform:
- SETUP - Change global settings.
- NEW - Create a new entry.
- EDIT - Modify an entry.
- DELETE - Remove an entry.
- DEFAULT - Change the default.
- LIST - Display a summary list of all entries.
- DETAIL - Display details for one destination or all entries.
- CLEAR - Remove all entries.
- IMPORT - Import tables from a file.
- EXPORT - Export tables to a file.
[]> setup
The "Demo" certificate is currently configured. You may use "Demo", but this will not be
secure.
1. partner.com
2. Demo
Please choose the certificate to apply:
[1]> 1
Do you want to send an alert when a required TLS connection fails? [N]> n
```

Example: Enabling TLS Connection with DANE and MTA-STS Support

In this example, a new `destconfig` entry is configured for the domain newpartner.com, where TLS connections are enabled with "Opportunistic" DANE support and MTA-STS is enabled.

Note You must select a TLS support option to enable the DANE and MTA-STS prompt.

```
mail3.example.com> destconfig
There are currently 1 entries configured. Choose the operation you want to perform:

- SETUP - Change global settings.
- NEW - Create a new entry.
- EDIT - Modify an entry.
- DELETE - Remove an entry.
- DEFAULT - Change the default.
- LIST - Display a summary list of all entries.
- DETAIL - Display details for one destination or all entries.
- CLEAR - Remove all entries.
- IMPORT - Import tables from a file.
- EXPORT - Export tables to a file.

[]> new

Enter the domain you wish to configure.[]> newparter.com
Do you want to configure a concurrency limit for newparter.com? [Y]>
Enter the max concurrency limit for "newpartner.com".
[500]>

Do you want to apply a messages-per-connection limit to this domain? [N]>
Do you want to apply a recipient limit to this domain? [N]>
Select how the limits will be enforced:
1. System Wide
2. Per Virtual Gateway(tm)

[1]>
Do you wish to apply a specific TLS setting for this domain? [N]> y
Do you want to use TLS support?
1. No
2. Preferred
3. Required
4. Preferred - Verify
5. Required - Verify
6. Required - Verify Hosted Domains

[2]> 3
You have chosen to enable TLS.
Please use the 'certconfig' command to ensure that there is a valid certificate configured.

Do you wish to configure a specific certificate for connections to this domain? [Y]> N

Do you want to configure DANE Support? [N]> y
Info:
If you configure DANE as 'Opportunistic' and the remote host does not support DANE,
opportunistic TLS is preferred for encrypting SMTP conversations.

If you configure DANE as 'Mandatory' and the remote host does not support DANE,
no connection is established to the destination host.

If you configure DANE as 'Mandatory' or 'Opportunistic' and the remote host supports DANE,
```

```
it is preferred for encrypting SMTP conversations.

Please choose a DANE option:
1. No
2. Opportunistic
3. Mandatory

[2]> 2

DANE will not be enforced for domains that have SMTP Routes configured.

Do you wish to configure MTA-STS support [N] > y

Info: ESA secures TLS connections using MTA-STS to fetch, validate, and
apply the receiving MTA's policy for the destination domain. If DANE is enabled,
the use of MTA-STS also depends on DANE settings and its success.

Do you want to use MTA-STS support?
1. Off
2. On
[1] > 2

MTA-STS will not be enforced for domains that have SMTP Routes configured.

Do you want to apply a specific bounce verification address tagging setting for this domain?
 [N]>
```

hostrate

Description

Monitor activity for a particular host

Usage

Commit: This command does not require a ‘commit’.

Cluster Management: This command is restricted to machine mode.

Batch Command: This command does not support a batch format

Example

```
mail3.example.com> hostrate
Recipient host:
[]> aol.com
Enter the number of seconds between displays.
[10]> 1
    Time      Host  CrtCncOut   ActvRcp ActvRcp  DlvRcp HrdBncRcp SftBncEvt
              Status                        Delta   Delta     Delta     Delta
23:38:23        up          1         0       0       4         0         0
23:38:24        up          1         0       0       4         0         0
23:38:25        up          1         0       0      12         0         0
^C
```

Use Control-C to stop the hostrate command.

hoststatus

Description

Get the status of the given hostname.

Usage

Commit: This command does not require a 'commit'.

Cluster Management: This command is restricted to machine mode.

Batch Command: This command does not support a batch format

Example

```
mail3.example.com> hoststatus

Recipient host:
[]> aol.com
Host mail status for: 'aol.com'
Status as of:         Fri Aug  8 11:12:00 2003
Host up/down:         up
Counters:
  Queue
    Soft Bounced Events                     0
  Completion
    Completed Recipients                    1
      Hard Bounced Recipients               1
        DNS Hard Bounces                    0
        5XX Hard Bounces                    1
        Filter Hard Bounces                 0
        Expired Hard Bounces                0
        Other Hard Bounces                  0
      Delivered Recipients                  0
      Deleted Recipients                    0
Gauges:
  Queue
    Active Recipients                       0
      Unattempted Recipients                0
      Attempted Recipients                  0
    Connections
      Current Outbound Connections          0
      Pending Outbound Connections          0
Oldest Message        No Messages
Last Activity         Fri Aug  8 11:04:24 2003
Ordered IP addresses: (expiring at Fri Aug  8 11:34:24 2003)
    Preference   IPs
    15           64.12.137.121    64.12.138.89     64.12.138.120
    15           64.12.137.89     64.12.138.152    152.163.224.122
    15           64.12.137.184    64.12.137.89     64.12.136.57
    15           64.12.138.57     64.12.136.153    205.188.156.122
    15           64.12.138.57     64.12.137.152    64.12.136.89
    15           64.12.138.89     205.188.156.154  64.12.138.152
    15           64.12.136.121    152.163.224.26   64.12.137.184
    15           64.12.138.120    64.12.137.152    64.12.137.121
MX Records:
    Preference   TTL        Hostname
    15           52m24s     mailin-01.mx.aol.com
    15           52m24s     mailin-02.mx.aol.com
```

```
    15           52m24s     mailin-03.mx.aol.com
    15           52m24s     mailin-04.mx.aol.com
    Last 5XX Error:
    ----------
    550 REQUESTED ACTION NOT TAKEN: DNS FAILURE
    (at Fri Aug  8 11:04:25 2003)
    ----------
Virtual gateway information:
============================================================
example.com (PublicNet_017):
    Host up/down:  up
    Last Activity  Wed Nov 13 13:47:02 2003
    Recipients  0
============================================================
example.com (PublicNet_023):
    Host up/down:  up
    Last Activity  Wed Nov 13 13:45:01 2003
    Recipients
```

imageanalysisconfig

Description

Configure the IronPort Image Analysis settings

Usage

Commit: This command requires a ‘commit’.

Cluster Management: This command can be used in all three machine modes (cluster, group, machine).

Batch Command: This command does not support a batch format

Example

```
mail.example.com>imageanalysisconfig
IronPort Image Analysis: Enabled
Verdict Ranges: Clean (0-49), Suspect(50-74), Inappropriate (75+)
Skip small images with size less than 100 pixels (width or height)

(First time users see the license agreement displayed here.)
Choose the operation you want to perform:
- SETUP - Configure IronPort Image Analysis.
[]> setup
IronPort Image Analysis: Enabled
Would you like to use IronPort Image Analysis? [Y]>
Define the range for a CLEAN verdict. Enter the upper bound of the CLEAN range by entering
 a value between 0 and 98. The default setting of 49 is
recommended.
[49]>
Define the range for a SUSPECT verdict. Enter the upper bound of the SUSPECT range by
entering a value between 50 and 99. The default setting of 74 is
recommended.
[74]>
Would you like to skip scanning of images smaller than a specific size? [Y]>
Please enter minimum image size to scan in pixels, representing either height or width of
a given image.
[100]>
IronPort Image Analysis: Enabled
```

```
Verdict Ranges: Clean (0-49), Suspect(50-74), Inappropriate (75+)
Skip small images with size less than 100 pixels (width or height)
Choose the operation you want to perform:
- SETUP - Configure IronPort Image Analysis.
[]>
```

oldmessage

Description

Displays the mid and headers of the oldest non-quarantine message on the system.

Usage

Commit: This command does not require a commit.

Cluster Management: This command is restricted to machine mode..

Batch Command: This command does not support a batch format.

Example

In the following example, an older messages are displayed:

```
mail3.example.com>
oldmessage
MID 9: 1 hour 5 mins 35 secs old
Received: from test02.com ([172.19.0.109])
by test02.com with SMTP; 14 Feb 2007 22:11:37 -0800
From: user123@test02.com
To: 4031@example.com
Subject: Testing
Message-Id: <20070215061136.68297.16346@test02.com
```

rate

Description

Monitor message throughput

Usage

Commit: This command does not require a ‘commit’.

Cluster Management: This command is restricted to machine mode.

Batch Command: This command does not support a batch format.

Example

```
mail3.example.com> rate

Enter the number of seconds between displays.
[10]> 1
Hit Ctrl-C to return to the main prompt.
```

```
Time     Connections Recipients          Recipients              Queue
            In   Out   Received    Delta  Completed    Delta     K-Used
23:37:13    10     2   41708833        0   40842686        0         64
23:37:14     8     2   41708841        8   40842692        6        105
23:37:15     9     2   41708848        7   40842700        8         76
23:37:16     7     3   41708852        4   40842705        5         64
23:37:17     5     3   41708858        6   40842711        6         64
23:37:18     9     3   41708871       13   40842722       11         67
23:37:19     7     3   41708881       10   40842734       12         64
23:37:21    11     3   41708893       12   40842744       10         79
^C
```

redirectrecipients

Description

Redirect all messages to another relay host.

Danger Redirecting messages to a receiving domain that has /dev/null as its destination results in the loss of messages. The CLI does not display a warning if you redirect mail to such a domain. Check the SMTP route for the receiving domain before redirecting messages.

Danger Redirecting recipients to a host or IP address that is not prepared to accept large volumes of SMTP mail from this host will cause messages to bounce and possibly result in the loss of mail.

Usage

Commit: This command does not require a ‘commit’.

Cluster Management: This command is restricted to machine mode.

Batch Command: This command supports a batch format.

Batch Format

The batch format of the redirectrecipients command can be used to perform all the fuctions of the traditional CLI command.

- Redirects all mail to another host name or IP address

```
redirectrecipients host <hostname>
```

Example

The following example redirects all mail to the example2.com host.

```
mail3.example.com> redirectrecipients
Please enter the hostname or IP address of the machine you want to send all mail to.
[]> example2.com
```

```
WARNING: redirecting recipients to a host or IP address that is not prepared to accept large
 volumes of SMTP mail from this host
will cause messages to bounce and possibly result in the loss of mail.
Are you sure you want to redirect all mail in the queue to "example2.com"? [N]> y
Redirecting messages, please wait.
246 recipients redirected.
```

resetcounters

Description

Reset all of the counters in the system

Usage

Commit: This command does not require a 'commit'.

Cluster Management: This command is restricted to machine mode.

Batch Command: This command does not support a batch format.

Example

```
mail3.example.com> resetcounters
Counters reset: Mon Jan 01 12:00:01 2003
```

removemessage

Description

Attempts to safely remove a message for a given message ID.

The **removemessage** command can only remove messages that are in the work queue, retry queue, or a destination queue. Note that depending on the state of the system, valid and active messages may not be in any of those queues.

Usage

Commit: This command does not require a 'commit'.

Cluster Management: This command is restricted to machine mode.

Batch Command: This command does not support a batch format.

Example

```
example.com>
removemessage
Enter the MID to remove.
[]> 1
MID 1: 19 secs old
Received: from example2.com ([172.16.0.102])
  by test02.com with SMTP; 01 Mar 2007 19:50:41 -0800
From: user123@test02.com
```

```
To: 9526@example.com
Subject: Testing
Message-Id: <20070302035041.67424.53212@test02.com>
Remove this message? [N]> y
```

showmessage

Description

Shows the message and message body for a specified message ID.

Usage

Commit: This command does not require a 'commit'.

Cluster Management: This command is restricted to machine mode.

Batch Command: This command does not support a batch format.

Example

```
example.com> showmessage
MID 9: 1 hour 5 mins 35 secs old
Received: from example2.com([172.19.0.109])
  by test02.com with SMTP; 14 Feb 2007 22:11:37 -0800
From: user123@test02.com
To: 4031@example.com
Subject: Testing
Message-Id: <20070215061136.68297.16346@test02.com>
This is the message body.
```

showrecipients

Description

Show messages from the queue by recipient host, Envelope From address, or all messages.

Usage

Commit: This command does not require a 'commit'.

Cluster Management: This command is restricted to machine mode.

Batch Command: This command does support a batch format.

Batch Format

The batch format of the showrecipients command can be used to perform all the fuctions of the traditional CLI command.

- Find messages by a recipient host name

```
showrecipients host <hostname>
```

- Find messages by an envelope from address

```
showrecipients [sender_options] <sender_email>
```

The following sender_option is available:

--match-case Case-sensitive matching for the username portion of an address.

- Find all messages

```
showrecipients all
```

Example

The following example shows messages in the queue for all recipient hosts.

```
mail3.example.com> showrecipients
Please select how you would like to show messages:
1. By recipient host.
2. By Envelope From address.
3. All.
[1]> 3
Showing messages, please wait.
MID/     Bytes/    Sender/                Subject
[RID]    [Atmps]   Recipient
1527     1230      user123456@ironport.com Testing
[0]      [0]       9554@example.com
1522     1230      user123456@ironport.com Testing
[0]      [0]       3059@example.com
1529     1230      user123456@ironport.com Testing
[0]      [0]       7284@example.com
1530     1230      user123456@ironport.com Testing
[0]      [0]       8243@example.com
1532     1230      user123456@ironport.com Testing
[0]      [0]       1820@example.com
1531     1230      user123456@ironport.com Testing
[0]      [0]       9595@example.com
1518     1230      user123456@ironport.com Testing
[0]      [0]       8778@example.com
1535     1230      user123456@ironport.com Testing
[0]      [0]       1703@example.com
1533     1230      user123456@ironport.com Testing
[0]      [0]       3052@example.com
1536     1230      user123456@ironport.com Testing
[0]      [0]       511@example.com
```

status

Usage

Commit: This command does not require a ‘commit’.

Cluster Management: This command can be used in all three machine modes (cluster, group, machine).

Batch Command: This command does not support a batch format.

Example

mail.example.com> status detail

```
Status as of:                  Mon Sep 08 00:01:44 2014 GMT
Up since:                      Tue Aug 26 17:24:16 2014 GMT
(12d 6h 37m 28s)
Last counter reset:            Never
System status:                 Online
Oldest Message:                No Messages
Feature - IronPort Anti-Spam:  1459 days
Feature - Incoming Mail Handling: Perpetual
Feature - Outbreak Filters:    1459 days
Counters:                                Reset          Uptime        Lifetime
  Receiving
    Messages Received                        2               2               2
    Recipients Received                      2               2               2
  Rejection
    Rejected Recipients                      0               0               0
    Dropped Messages                         0               0               0
  Queue
    Soft Bounced Events                      0               0               0
  Completion
    Completed Recipients                     0               0               0
  Current IDs
    Message ID (MID)                                                         2
    Injection Conn. ID (ICID)                                                0
    Delivery Conn. ID (DCID)                                                13
Gauges:                                   Current
  Connections
    Current Inbound Conn.                       0
    Current Outbound Conn.                      0
  Queue
    Active Recipients                           2
    Messages In Work Queue                      0
    Kilobytes Used                            184
    Kilobytes Free                      8,388,424
  Quarantine
    Messages In Quarantine
      Policy, Virus and Outbreak                0
    Kilobytes In Quarantine
      Policy, Virus and Outbreak                0
```

tophosts

Description

To get immediate information about the email queue and determine if a particular recipient host has delivery problems — such as a queue buildup — use the tophosts command. The tophosts command returns a list of the top 20 recipient hosts in the queue. The list can be sorted by a number of different statistics, including active recipients, connections out, delivered recipients, soft bounced events, and hard bounced recipients.

When Threat Defense Connector is enabled, you can view the delivery status of emails to the message intake address under the **the.tdc.queue** destination domain.

Usage

Commit: This command does not require a ‘commit’.

Cluster Management: This command is restricted to machine mode.

Batch Command: This command does not support a batch format.

Example

```
mail3.example.com> tophosts
Sort results by:
1. Active Recipients
2. Connections Out
3. Delivered Recipients
4. Hard Bounced Recipients
5. Soft Bounced Events
[1]> 1
Status as of:                  Fri Mar 13 06:09:18 2015 GMT
Hosts marked with '*' were down as of the last delivery attempt.
                                Active  Conn.     Deliv.       Soft       Hard
#   Recipient Host               Recip.    Out     Recip.    Bounced    Bounced
1*  example.com                       2      0          0          0          0
2   the.encryption.queue              0      0          0          0          0
3   the.euq.queue                     0      0          0          0          0
4   the.euq.release.queue             0      0          0          0          0

5   the.tdc.queue                     0      0          5          0          0
```

topin

Description

Display the top hosts by number of incoming connections

Usage

Commit: This command does not require a ‘commit’.

Cluster Management: This command is restricted to machine mode.

Batch Command: This command does not support a batch format.

Example

```
mail3.example.com> topin

Status as of:                  Sat Aug 23 21:50:54 2003
# Remote hostname            Remote IP addr.   listener        Conn. In
1mail.remotedomain01.com    172.16.0.2        Incoming01            10
2 mail.remotedomain01.com    172.16.0.2        Incoming02            10
3 mail.remotedomain03.com    172.16.0.4        Incoming01             5
4 mail.remotedomain04.com    172.16.0.5        Incoming02             4
5 mail.remotedomain05.com    172.16.0.6        Incoming01             3
6 mail.remotedomain06.com    172.16.0.7        Incoming02             3
7 mail.remotedomain07.com    172.16.0.8        Incoming01             3
8 mail.remotedomain08.com    172.16.0.9        Incoming01             3
9 mail.remotedomain09.com    172.16.0.10       Incoming01             3
10 mail.remotedomain10.com    172.16.0.11       Incoming01             2
11 mail.remotedomain11.com    172.16.0.12       Incoming01             2
12 mail.remotedomain12.com    172.16.0.13       Incoming02             2
13 mail.remotedomain13.com    172.16.0.14       Incoming01             2
```

```
14 mail.remotedomain14.com    172.16.0.15       Incoming01            2
15 mail.remotedomain15.com    172.16.0.16       Incoming01            2
16 mail.remotedomain16.com    172.16.0.17       Incoming01            2
17 mail.remotedomain17.com    172.16.0.18       Incoming01            1
18 mail.remotedomain18.com    172.16.0.19       Incoming02            1
19 mail.remotedomain19.com    172.16.0.20       Incoming01            1
20 mail.remotedomain20.com    172.16.0.21       Incoming01            1
```

unsubscribe

Description

Update the global unsubscribe list

Usage

Commit: This command requires a 'commit'.

Cluster Management: This command can be used in all three machine modes (cluster, group, machine).

Batch Command: This command does not support a batch format.

Example

In this example, the address user@example.net is added to the Global Unsubscribe list, and the feature is configured to hard bounce messages. Messages sent to this address will be bounced; the email gateway will bounce the message immediately prior to delivery.

```
mail3.example.com> unsubscribe
Global Unsubscribe is enabled. Action: drop.
Choose the operation you want to perform:
- NEW - Create a new entry.
- IMPORT - Import entries from a file.
- SETUP - Configure general settings.
[]> new
Enter the unsubscribe key to add.  Partial addresses such as "@example.com"
or "user@" are allowed, as are IP addresses. Partial hostnames such as "@.example.com" are
 allowed.
[]> user@example.net
Email Address 'user@example.net' added.
Global Unsubscribe is enabled. Action: drop.
Choose the operation you want to perform:
- NEW - Create a new entry.
- DELETE - Remove an entry.
- PRINT - Display all entries.
- IMPORT - Import entries from a file.
- EXPORT - Export all entries to a file.
- SETUP - Configure general settings.
- CLEAR - Remove all entries.
[]> setup
Do you want to enable the Global Unsubscribe feature? [Y]> y
Would you like matching messages to be dropped or bounced?
1. Drop
2. Bounce
[1]> 2
Global Unsubscribe is enabled. Action: bounce.
Choose the operation you want to perform:
- NEW - Create a new entry.
- DELETE - Remove an entry.
```

```
- PRINT - Display all entries.
- IMPORT - Import entries from a file.
- EXPORT - Export all entries to a file.
- SETUP - Configure general settings.
- CLEAR - Remove all entries.
[]>
mail3.example.com> commit
Please enter some comments describing your changes:
[]> Added username "user@example.net" to global unsubscribe
Do you want to save the current configuration for rollback? [Y]> n
Changes committed: Fri May 23 11:42:12 2014 GMT
```

workqueue

Description

Display and/or alter work queue pause status

Usage

Commit: This command does not require a 'commit'.

Cluster Management: This command is restricted to machine mode.

Batch Command: This command does not support a batch format.

Example

```
mail3.example.com> workqueue
Status:   Operational
Messages: 1243
Manually pause work queue?  This will only affect unprocessed messages.  [N]> y
Reason for pausing work queue:
[]> checking LDAP server
Status:   Paused by admin: checking LDAP server
Messages: 1243
```

Note Entering a reason is optional. If you do not enter a reason, the system logs the reason as " operator paused ."

In this example, the work queue is resumed:

```
mail3.example.com> workqueue
Status:   Paused by admin: checking LDAP server
Messages: 1243
Resume the work queue?   [Y]> y
Status:   Operational
Messages: 1243
```

Networking Configuration / Network Tools

This section contains the following CLI commands:

etherconfig

Description

Configure Ethernet settings, including media settings, NIC pairing, VLAN configuration, and DSR configuration.

Usage

Commit: This command requires a 'commit'.

Cluster Management: This command is restricted to machine mode.

Batch Command: This command does not support a batch format.

Example

```
mail3.example.com> etherconfig
Choose the operation you want to perform:
- MEDIA - View and edit ethernet media settings.
- VLAN - View and configure VLANs.
- LOOPBACK - View and configure Loopback.
- MTU - View and configure MTU.
- MULTICAST - Accept or reject ARP replies with a multicast address.
[]> vlan
VLAN interfaces:
Choose the operation you want to perform:
- NEW - Create a new VLAN.
[]> new
VLAN tag ID for the interface (Ex: "34"):
[]> 12
Enter the name or number of the ethernet interface you wish bind to:
1. Data 1
2. Data 2
3. Management
[1]> 1
VLAN interfaces:
1. VLAN   12 (Data 1)
Choose the operation you want to perform:
- NEW - Create a new VLAN.
- EDIT - Edit a VLAN.
- DELETE - Delete a VLAN.
[]>
Choose the operation you want to perform:
- MEDIA - View and edit ethernet media settings.
- VLAN - View and configure VLANs.
- LOOPBACK - View and configure Loopback.
- MTU - View and configure MTU.
- MULTICAST - Accept or reject ARP replies with a multicast address.
[]> loopback
Currently configured loopback interface:
Choose the operation you want to perform:
- ENABLE - Enable Loopback Interface.
[]>
Choose the operation you want to perform:
- MEDIA - View and edit ethernet media settings.
- VLAN - View and configure VLANs.
- LOOPBACK - View and configure Loopback.
- MTU - View and configure MTU.
- MULTICAST - Accept or reject ARP replies with a multicast address.
```

```
[]> mtu
Ethernet interfaces:
1. Data 1 default mtu 1500
2. Data 2 default mtu 1500
3. Management default mtu 1500
4. VLAN   12 default mtu 1500
Choose the operation you want to perform:
- EDIT - Edit an ethernet interface.
[]> edit
Enter the name or number of the ethernet interface you wish to edit.
[]> pair1
That value is not valid.
Enter the name or number of the ethernet interface you wish to edit.
[]> 12
That value is not valid.
Enter the name or number of the ethernet interface you wish to edit.
[]> 2
Please enter a non-default (1500) MTU value for the Data 2 interface.
[]> 1200
Ethernet interfaces:
1. Data 1 default mtu 1500
2. Data 2 mtu 1200
3. Management default mtu 1500
4. VLAN   12 default mtu 1500
Choose the operation you want to perform:
- EDIT - Edit an ethernet interface.
[]>
```

interfaceconfig

Description

Configure the interface. You can create, edit, or delete interfaces. You can enable FTP, change an IP address, and configure Ethernet IP addresses.

Usage

Commit: This command requires a ‘commit’.

Cluster Management: This command is restricted to machine mode.

Batch Command: This command supports a batch format.

Batch Format

The batch format of the interfaceconfig command can be used to perform all the fuctions of the traditional CLI command.

- Creating a new interface

`interfaceconfig new <name>`
`<ethernet interface>`
`<hostname>`

--ip=IPv4 Address/Netmask
--ip6=IPv6 Address/Prefix Lenght
[--ftp[=<port>]]
[--telnet[=<port>]]
[--ssh[=<port>]]
[--http][=<port>]
[--https[=<port>]]
[--euq_http[=<port>]]
[--euq_https][=<port>]
[--ccs[=<port>]].
FTP is available only on IPv4 .

- Deleting an interface

interfaceconfig delete <name>

Example: Configuring an Interface

```
mail.example.com> interfaceconfig
Currently configured interfaces:
1. Management (10.76.69.149/24 on Management: mail.example.com)
Choose the operation you want to perform:
- NEW - Create a new interface.
- EDIT - Modify an interface.
- GROUPS - Define interface groups.
- DELETE - Remove an interface.
[]> edit
Enter the number of the interface you wish to edit.
[]> 1
IP interface name (Ex: "InternalNet"):
[Management]>
Would you like to configure an IPv4 address for this interface (y/n)? [Y]>
IPv4 Address (Ex: 192.168.1.2 ):
[1.1.1.1]>
Netmask (Ex: "24", "255.255.255.0" or "0xffffff00"):
[0xffffffff]>
Would you like to configure an IPv6 address for this interface (y/n)? [N]> n
Ethernet interface:
1. Data 1
```

```
2. Data 2
3. Management
[3]>
Hostname:
[mail.example.com]>
Do you want to configure custom SMTP Helo to use in the SMTP conversation? [N]>
Do you want to enable SSH on this interface? [Y]>
Which port do you want to use for SSH?
[22]>
Do you want to enable FTP on this interface? [N]>
Do you want to enable Cluster Communication Service on this interface? [N]>
Do you want to enable HTTP on this interface? [Y]>
Which port do you want to use for HTTP?
[80]>
Do you want to enable HTTPS on this interface? [Y]>
Which port do you want to use for HTTPS?
[443]>
Do you want to enable Spam Quarantine HTTP on this interface? [N]>
Do you want to enable Spam Quarantine HTTPS on this interface? [N]>
Do you want to enable AsyncOS API (Monitoring) HTTP on this interface? [N]> y
Which port do you want to use for AsyncOS API (Monitoring) HTTP?
[6080]>
Do you want to enable AsyncOS API (Monitoring) HTTPS on this interface? [N]> y
Which port do you want to use for AsyncOS API (Monitoring) HTTPS?
[6443]>
The "Demo" certificate is currently configured. You may use "Demo", but this will not be
secure. To assure privacy, run "certconfig" first.
Both HTTP and HTTPS are enabled for this interface, should HTTP requests redirect to the
secure service? [Y]>
You have edited the interface you are currently logged into. Are you sure you want to
change it? [Y]>
Currently configured interfaces:
1. Management (10.76.69.149/24 on Management: mail.example.com)
Choose the operation you want to perform:
- NEW - Create a new interface.
- EDIT - Modify an interface.
- GROUPS - Define interface groups.
- DELETE - Remove an interface.
[]>
```

nslookup

Description

Use the **nslookup** command to check the DNS functionality.

The **nslookup** command can confirm that the email gateway is able to reach and resolve hostnames and IP addresses from a working DNS (domain name service) server.

Table 9: nslookup Command Query Types

Query Type	Description
	the host's Internet address
CNAME	the canonical name for an alias
MX	the mail exchanger
NS	the name server for the named zone

Query Type	Description
PTR	the hostname if the query is an Internet address, otherwise the pointer to other information
SOA	the domain's “start-of-authority” information
TXT	the text information

Usage

Commit: This command does not require a ‘commit’.

Cluster Management: This command can be used in all three machine modes (cluster, group, machine).

Batch Command: This command does not support a batch format

Example

```
mail.example.com> nslookup
Please enter the host or IP address to resolve.
[]> vm30esa0086.ibqa
Choose the query type:
1. A       the host's IP address
2. AAAA    the host's IPv6 address
3. CNAME   the canonical name for an alias
4. MX      the mail exchanger
5. NS      the name server for the named zone
6. PTR     the hostname if the query is an Internet address,
otherwise the pointer to other information
7. SOA     the domain's "start-of-authority" information
8. TXT     the text information
[1]> 2
AAAA=2001:420:54ff:ff06::95 TTL=30m
```

netstat

Description

Use the netstat command to displays network connections (both incoming and outgoing), routing tables, and a number of network interface statistics. Note that this version will not support all arguments. Specifically, you cannot use -a, -A, -g, -m, -M, -N, -s. The command was designed to be run in interactive mode, so that you may enter netstat, then choose from five options to report on. You can also specify the interface to listen on and the interval for display.

Usage

Commit: This command does not require a ‘commit’.

Cluster Management: This command is restricted to machine mode.

Batch Command: This command does not support a batch format

Example

```
example.com> netstat
Choose the information you want to display:
1. List of active sockets.
2. State of network interfaces.
3. Contents of routing tables.
4. Size of the listen queues.
5. Packet traffic information.
[1]> 2
Select the ethernet interface whose state you wish to display:
1. Data 1
2. Data 2
3. Management
4. ALL
[]> 1
Show the number of bytes in and out? [N]>
Show the number of dropped packets? [N]> y
Name    Mtu Network       Address              Ipkts Ierrs    Opkts
Oerrs  Coll Drop
Data 1 1500 197.19.1/24   example.com       30536     -        5     -
-    -
example.com>
```

packetcapture

Description

Use the **netstat** command to displays network connections (both incoming and outgoing), routing tables, and a number of network interface statistics. Note that this version will not support all arguments. Specifically, you cannot use -a, -A, -g, -m, -M, -N, -s. The command was designed to be run in interactive mode, so that you may enter netstat, then choose from five options to report on. You can also specify the interface to listen on and the interval for display.

Usage

Commit: This command does not require a 'commit'.

Cluster Management: This command can be used in all three machine modes (cluster, group, machine).

Batch Command: This command does not support a batch format

Example

```
mail.example.com> packetcapture
Capture Information:
  Status:             No capture running
Current Settings:
  Maximum File Size:  200 MB
  Limit:              None (Run Indefinitely)
  Interface(s):       ALL
  Filter:             (tcp port 25)
Choose the operation you want to perform:
- START - Start packet capture.
- SETUP - Change packet capture settings.
[]> start
Success - Packet Capture has started
```

```
Capture Information:
  File Name:          C100V-421C73B18CFB05784A83-B03A99E71ED8-20150312-105256.cap
  File Size:          0 of 200M
  Duration:           0s
  Limit:              None (Run Indefinitely)
  Interface(s):       ALL
  Filter:             (tcp port 25)
Choose the operation you want to perform:
- STOP - Stop packet capture.
- STATUS - Display current capture status.
- SETUP - Change packet capture settings.
[]> stop
Success - Packet Capture has stopped
Capture Information:
  File Name:          C100V-421C73B18CFB05784A83-B03A99E71ED8-20150312-105256.cap
  File Size:          24 of 200M
  Duration:           10s
  Limit:              None (Run Indefinitely)
  Interface(s):       ALL
  Filter:             (tcp port 25)
Choose the operation you want to perform:
- START - Start packet capture.
- SETUP - Change packet capture settings.
[]> setup
Enter maximum allowable size for the capture file (in MB)
[200]>
Do you want to stop the capture when the file size is reached? (If not, a new file will be
 started and the older capture data will be discarded.)
[N]>
The following interfaces are configured:
1. Management
2. ALL
Enter the name or number of one or more interfaces to capture packets from, separated by
commas (enter ALL to use all interfaces):
[2]>
Select an operation. Press enter to continue with the existing filter.
- PREDEFINED - PREDEFINED filter.
- CUSTOM - CUSTOM filter.
- CLEAR - CLEAR filter.
[]>
Capture settings successfully saved.
Current Settings:
  Maximum File Size:  200 MB
  Limit:              None (Run Indefinitely)
  Interface(s):       ALL
  Filter:             (tcp port 25)
Choose the operation you want to perform:
- START - Start packet capture.
- SETUP - Change packet capture settings.
[]>
```

ping

Description

The ping command allows you to test connectivity to a network host from the email gateway.

Usage

Commit: This command does not require a ‘commit’.

Cluster Management: This command is restricted to machine mode. It is further restricted to the login host (i.e., the specific machine you are logged onto). This command requires access to the local file system.

Batch Command: This command does not support a batch format.

Example

```
mail3.example.com> ping
Which interface do you want to send the pings from?
1. Auto
2. Management (192.168.42.42/24: mail3.example.com)
3. PrivateNet (192.168.1.1/24: mail3.example.com)
4. PublicNet (192.168.2.1/24: mail3.example.com)
[1]> 1
Please enter the host you wish to ping.
[]> anotherhost.example.com
Press Ctrl-C to stop.
PING anotherhost.example.com (
x.x.x.x
): 56 data bytes
64 bytes from 10.19.0.31: icmp_seq=0 ttl=64 time=1.421 ms
64 bytes from 10.19.0.31: icmp_seq=1 ttl=64 time=0.126 ms
64 bytes from 10.19.0.31: icmp_seq=2 ttl=64 time=0.118 ms
64 bytes from 10.19.0.31: icmp_seq=3 ttl=64 time=0.115 ms
64 bytes from 10.19.0.31: icmp_seq=4 ttl=64 time=0.139 ms
64 bytes from 10.19.0.31: icmp_seq=5 ttl=64 time=0.125 ms
64 bytes from 10.19.0.31: icmp_seq=6 ttl=64 time=0.124 ms
64 bytes from 10.19.0.31: icmp_seq=7 ttl=64 time=0.122 ms
64 bytes from 10.19.0.31: icmp_seq=8 ttl=64 time=0.126 ms
64 bytes from 10.19.0.31: icmp_seq=9 ttl=64 time=0.133 ms
64 bytes from 10.19.0.31: icmp_seq=10 ttl=64 time=0.115 ms
^C
--- anotherhost.example.com ping statistics ---
11 packets transmitted, 11 packets received, 0% packet loss
round-trip min/avg/max/stddev = 0.115/0.242/1.421/0.373 ms
^C
```

Note You must use Control-C to end the ping command.

ping6

Description

Ping a network host using IPv6

Usage

Commit: This command does not require a ‘commit’.

Cluster Management: This command is restricted to machine mode. It is further restricted to the login host (i.e., the specific machine you are logged onto). This command requires access to the local file system.

Batch Command: This command does not support a batch format.

Example

```
mail.example.com> ping6
Which interface do you want to send the pings from?
1. Auto
2. Management (192.168.42.42/24: mail3.example.com)
[1]> 1
Please enter the host you wish to ping.
[]> anotherhost.example.com
Press Ctrl-C to stop.
```

Note You must use Control-C to end the **ping6** command.

routeconfig

Description

The routeconfig command allows you to create, edit, and delete static routes for TCP/IP traffic. By default, traffic is routed through the default gateway set with the setgateway command. However, AsyncOS allows specific routing based on destination.

Routes consist of a nickname (for future reference), a destination, and a gateway. A gateway (the next hop) is an IP address such as 10.1.1.2 . The destination can be one of two things:

- an IP address, such as 192.168.14.32
- a subnet using CIDR notation. For example, 192.168.5.0/24 means the entire class C network from 192.168.5.0 to 192.168.5.255 .

For IPv6 addresses, you can use the following formats:

- 2620:101:2004:4202::0-2620:101:2004:4202::ff
- 2620:101:2004:4202::
- 2620:101:2004:4202::23
- 2620:101:2004:4202::/64

The command presents a list of all currently configured TCP/IP routes for you to select from using the edit and delete subcommands.

Usage

Commit: This command requires a ‘commit’.

Cluster Management: This command is restricted to machine mode.

Batch Command: This command supports a batch format.

Batch Format

The batch format of the smtproutes command can be used to perform all the fuctions of the traditional CLI command. You can choose whether to use IPv4 or IPv6 addresses for the route.

- Creating a static route:

```
routeconfig new 4|6 <name> <destination_address> <gateway_ip>
```

Table 10: routeconfig Arguments

Argument	Description
4 | 6	The IP version (IPv4 or IPv6) to apply this command to. For clear and print this option can be omitted and the command applies to both versions.
name	The name of the route.
destination_address	The IP or CIDR address to match on for outgoing IP traffic.
gateway_ip	The IP address to send this traffic to.

- Editing a static route:

```
routeconfig edit 4|6 <name> <new_name> <destination_address> <gateway_ip>
```

- Deleting a static route:

```
routeconfig delete 4|6 <name>
```

- Deleting all static routes:

```
routeconfig clear [4|6]
```

- Printing a list of static routes:

```
routeconfig print [4|6]
```

Example

```
mail3.example.com> routeconfig
Configure routes for:
1. IPv4
2. IPv6
[1]>
Currently configured routes:
Choose the operation you want to perform:
- NEW - Create a new route.
[]> new
Please create a name for the route:
[]> EuropeNet
Please enter the destination IPv4 address to match on.
CIDR addresses such as 192.168.42.0/24 are also allowed.
[]> 192.168.12.0/24
Please enter the gateway IP address for traffic to 192.168.12.0/24:
[]> 192.168.14.4
Currently configured routes:
1. EuropeNet Destination: 192.168.12.0/24 Gateway: 192.168.14.4
```

```
Choose the operation you want to perform:
- NEW - Create a new route.
- EDIT - Modify a route.
- DELETE - Remove a route.
- CLEAR - Clear all entries.
[]>
mail3.example.com> routeconfig
Configure routes for:
1. IPv4
2. IPv6
[1]> 2
Currently configured routes:
Choose the operation you want to perform:
- NEW - Create a new route.
[]> new
Please create a name for the route:
[]> EuropeIPv6Net
Please enter the destination IPv6 address to match on.
CIDR addresses such as 2001:db8::/32 are also allowed.
[]>  2620:101:2004:4202::/6
Please enter the gateway IP address for traffic to 2620:101:2004:4202::/6:
[]> 2620:101:2004:4202::23
Currently configured routes:
1. EuropeIPv6Net Destination: 2620:101:2004:4202::/6 Gateway:
2620:101:2004:4202::23
Choose the operation you want to perform:
- NEW - Create a new route.
- EDIT - Modify a route.
- DELETE - Remove a route.
- CLEAR - Clear all entries.
[]>
```

setgateway

Description

The setgateway command configures the default next-hop intermediary through which packets should be routed. Alternate (non-default) gateways are configured using the routeconfig command.

Usage

Commit: This command requires a ‘commit’.

Cluster Management: This command can be used in all three machine modes (cluster, group, machine).

Batch Command: This command does not support a batch format.

Example

```
mail3.example.com> setgateway
Warning: setting an incorrect default gateway may cause the current connection to be
interrupted when the changes are committed.
Enter new default gateway:
[10.1.1.1]> 192.168.20.1
mail3.example.com> commit
Please enter some comments describing your changes:
[]> changed default gateway to 192.168.20.1
Do you want to save the current configuration for rollback? [Y]> n
Changes committed: Fri May 23 11:42:12 2014 GMT
```

sethostname

Description

The hostname is used to identify the system at the CLI prompt. You must enter a fully-qualified hostname. The sethostname command sets the name of the email gateway. The new hostname does not take effect until you issue the commit command.

Usage

Commit: This command requires a 'commit'.

Cluster Management: This command can be used in all three machine modes (cluster, group, machine).

Batch Command: This command does not support a batch format.

Example

```
oldname.example.com> sethostname
[oldname.example.com]> mail3.example.com
oldname.example.com>
```

For the hostname change to take effect, you must enter the commit command. After you have successfully committed the hostname change, the new name appears in the CLI prompt:

```
oldname.example.com> commit
Please enter some comments describing your changes:
[]> Changed System Hostname
Do you want to save the current configuration for rollback? [Y]> n
Changes committed: Fri May 23 11:42:12 2014 GMT
```

The new hostname appears in the prompt as follows:

```
mail3.example.com>
```

smtproutes

Description

Set up permanent domain redirections.

Usage

Commit: This command requires a 'commit'.

Cluster Management: This command can be used in all three machine modes (cluster, group, machine).

Batch Command: This command supports a batch format.

Batch Format

The batch format of the smtproutes command can be used to perform all the fuctions of the traditional CLI command.

- Creating a new SMTP route

```
smtproutes new <source> <destination> [destination] [destination] [...]
```

- Deleting an existing SMTP route

```
smtproutes delete <source>
```

- Clear a listing of SMTP routes

```
smtproutes clear
```

- Print a listing of SMTP routes

```
smtproutes print
```

- Import a listing of SMTP routes

```
smtproutes import <filenames>
```

- Export a listing of SMTP routes

```
smtproutes export <filenames>
```

Example

In the following example, the smptroutes command is used to construct a route (mapping) for the domain example.com to relay1.example.com , relay2.example.com , and backup-relay.example.com . Use /pri=# to specify a destination priority. THE # should be from 0-65535, with larger numbers indicating decreasing priority. If unspecified, the priority defaults to 0.

(Note that you may have constructed the same mapping during the systemsetup command when you configured the InboundMail public listener.)

```
mail3.example.com> smtproutes
There are no routes configured.
Choose the operation you want to perform:
- NEW - Create a new route.
- IMPORT - Import new routes from a file.
[]> new
Enter the domain for which you want to set up a permanent route.
Partial hostnames such as ".example.com" are allowed.
Use "ALL" for the default route.
[]> example.com
Enter the destination hosts, separated by commas, which you want mail
for example.com to be delivered.
Enter USEDNS by itself to use normal DNS resolution for this route.
Enter /dev/null by itself if you wish to discard the mail.
Enclose in square brackets to force resolution via address (A)
records, ignoring any MX records.
[]> relay1.example.com/pri=10, relay2.example.com, backup-relay.example.com
```

```
Mapping for example.com to relay1.example.com, relay2.example.com,
backup-relay.example.com/pri=10 created.
There are currently 1 routes configured.
Choose the operation you want to perform:
- NEW - Create a new route.
- EDIT - Edit destinations of an existing route.
- DELETE - Remove a route.
- PRINT - Display all routes.
- IMPORT - Import new routes from a file.
- EXPORT - Export all routes to a file.
- CLEAR - Remove all routes.
[]>
```

sslconfig

Description

Configure SSL settings for the email gateway.

Note You cannot change server and client methods in the FIPS 140-2 compliance mode.

Note The email gateway only supports the following TLS ciphers when you configure TLS 1.3 for the “GUI HTTPS,” “Inbound SMTP,” and “Outbound SMTP” TLS services:

- `TLS_AES_128_GCM_SHA256`
- `TLS_AES_256_GCM_SHA384`
- `TLS_CHACHA20_POLY1305_SHA256`

Note The email gateway does not allow you to modify the ciphers used for TLS 1.3.

After you configure TLS 1.3, you can use it for TLS communication across the legacy or new web interfaces of your email gateway and the API services.

Usage

Commit: This command requires a ‘commit’.

Cluster Management: This command can be used in all three machine modes (cluster, group, machine).

Batch Command: This command does not support a batch format.

Example

```
mail1.example.com1> sslconfig
sslconfig settings:
```

```
GUI HTTPS method:  tlsv1_1sv1_2
GUI HTTPS ciphers:
      AES128
      AES256
      !SRP
      !AESGCM+DH+aRSA
      !AESGCM+RSA
      !aNULL
      !kRSA
      @STRENGTH
      -aNULL
      -EXPORT
      -IDEA
      !DHE-RSA-AES256-SHA
      !DHE-RSA-AES128-CCM
      !DHE-RSA-AES256-CCM
GUI HTTPS TLS Renegotiation: Enabled
Inbound SMTP method:  tlsv1_1tlsv1_2
Inbound SMTP ciphers:
      AES128
      AES256
      !SRP
      !AESGCM+DH+aRSA
      !AESGCM+RSA
      !aNULL
      !kRSA
      @STRENGTH
      -aNULL
      -EXPORT
      -IDEA
      !DHE-RSA-AES256-SHA
      !DHE-RSA-AES128-CCM
      !DHE-RSA-AES256-CCM
Inbound SMTP TLS Renegotiation: Enabled
Outbound SMTP method:  tlsv1_1tlsv1_2
Outbound SMTP ciphers:
      ECDH+aRSA
      ECDH+ECDSA
      DHE+DSS+AES
      AES128
      AES256
      !3DES
      !IDEA
      !SRP
      !AESGCM+DH+aRSA
      !AESGCM+RSA
      !aNULL
      !eNULL
      !kRSA
      @STRENGTH
      -aNULL
      -EXPORT
      -IDEA
      !DHE-RSA-AES256-SHA
      !DHE-RSA-AES128-CCM
      !DHE-RSA-AES256-CCM
      !ECDHE-ECDSA-CAMELLIA128-SHA256
      !ECDHE-RSA-CAMELLIA128-SHA256
      !ECDHE-ECDSA-CAMELLIA256-SHA384
      !ECDHE-RSA-CAMELLIA256-SHA384
      !ECDHE-ECDSA-AES128-CCM
      !ECDHE-ECDSA-AES256-CCM
Other TLS Client Services: TLS v1.2, TLS v1.1 are being used as default
Peer Certificate FQDN Validation: Disabled
```

```
  Peer Certificate X509 Validation: Disabled

Choose the operation you want to perform:
- GUI - Edit GUI HTTPS ssl settings.
- INBOUND - Edit Inbound SMTP ssl settings.
- OUTBOUND - Edit Outbound SMTP ssl settings.
- VERIFY - Verify and show ssl cipher list.
- OTHER_CLIENT_TLSV10 - Edit TLS v1.0 for other client services.
- PEER_CERT_FQDN - Validate peer certificate FQDN compliance for Alert Over TLS, Outbound
  SMTP, updater and LDAP.
- PEER_CERT_X509 - Validate peer certificate X509 compliance for Alert Over TLS, Outbound
  SMTP, updater and LDAP.
[]> gui

The configured SSL Cipher(s) do not apply to TLS 1.3. The TLS 1.3 protocol uses default
ciphers.

Enter the GUI HTTPS ssl method you want to use.
1. TLS v1.3
2. TLS v1.2
3. TLS v1.1
4. TLS v1.0
[2, 3]> 3

Enter the GUI HTTPS ssl cipher you want to use.
[AES128:AES256:!SRP:!AESGCM+DH+aRSA:!AESGCM+RSA:!aNULL:!kRSA:@STRENGTH:-aNULL:-EXPORT:-IDEA:!DHE-RSA-AES256-SHA:!DHE-RSA-AES128
-CCM:!DHE-RSA-AES256-CCM]>

Would you like to Enable/Disable TLS Renegotiation for GUI HTTPS? [Y]>

sslconfig settings:
  GUI HTTPS method:  tlsv1_1
  GUI HTTPS ciphers:
        AES128
        AES256
        !SRP
        !AESGCM+DH+aRSA
        !AESGCM+RSA
        !aNULL
        !kRSA
        @STRENGTH
        -aNULL
        -EXPORT
        -IDEA
        !DHE-RSA-AES256-SHA
        !DHE-RSA-AES128-CCM
        !DHE-RSA-AES256-CCM
  GUI HTTPS TLS Renegotiation: Enabled
  Inbound SMTP method:  tlsv1_1tlsv1_2
  Inbound SMTP ciphers:
        AES128
        AES256
        !SRP
        !AESGCM+DH+aRSA
        !AESGCM+RSA
        !aNULL
        !kRSA
        @STRENGTH
        -aNULL
        -EXPORT
        -IDEA
        !DHE-RSA-AES256-SHA
        !DHE-RSA-AES128-CCM
        !DHE-RSA-AES256-CCM
```

```
  Inbound SMTP TLS Renegotiation: Enabled
  Outbound SMTP method:  tlsv1_1tlsv1_2
  Outbound SMTP ciphers:
        ECDH+aRSA
        ECDH+ECDSA
        DHE+DSS+AES
        AES128
        AES256
        !3DES
        !IDEA
        !SRP
        !AESGCM+DH+aRSA
        !AESGCM+RSA
        !aNULL
        !eNULL
        !kRSA
        @STRENGTH
        -aNULL
        -EXPORT
        -IDEA
        !DHE-RSA-AES256-SHA
        !DHE-RSA-AES128-CCM
        !DHE-RSA-AES256-CCM
        !ECDHE-ECDSA-CAMELLIA128-SHA256
        !ECDHE-RSA-CAMELLIA128-SHA256
        !ECDHE-ECDSA-CAMELLIA256-SHA384
        !ECDHE-RSA-CAMELLIA256-SHA384
        !ECDHE-ECDSA-AES128-CCM
        !ECDHE-ECDSA-AES256-CCM
  Other TLS Client Services: TLS v1.2, TLS v1.1 are being used as default
  Peer Certificate FQDN Validation: Disabled
  Peer Certificate X509 Validation: Disabled

Choose the operation you want to perform:
- GUI - Edit GUI HTTPS ssl settings.
- INBOUND - Edit Inbound SMTP ssl settings.
- OUTBOUND - Edit Outbound SMTP ssl settings.
- VERIFY - Verify and show ssl cipher list.
- OTHER_CLIENT_TLSV10 - Edit TLS v1.0 for other client services.
- PEER_CERT_FQDN - Validate peer certificate FQDN compliance for Alert Over TLS, Outbound
  SMTP, updater and LDAP.
- PEER_CERT_X509 - Validate peer certificate X509 compliance for Alert Over TLS, Outbound
  SMTP, updater and LDAP.
[]> inbound

The configured SSL Cipher(s) do not apply to TLS 1.3. The TLS 1.3 protocol uses default
ciphers.

Enter the inbound SMTP ssl method you want to use.
1. TLS v1.3
2. TLS v1.2
3. TLS v1.1
4. TLS v1.0
[2, 3]> 1

Enter the inbound SMTP ssl cipher you want to use.
[AES128:AES256:!SRP:!AESGCM+DH+aRSA:!AESGCM+RSA:!aNULL:!kRSA:@STRENGTH:-aNULL:-EXPORT:-IDEA:!DHE-RSA-AES256-SHA:!DHE-RSA-AES128
-CCM:!DHE-RSA-AES256-CCM]>

Would you like to Enable/Disable TLS Renegotiation for inbound SMTP? [Y]>

sslconfig settings:
  GUI HTTPS method:  tlsv1_1
  GUI HTTPS ciphers:
```

```
      AES128
      AES256
      !SRP
      !AESGCM+DH+aRSA
      !AESGCM+RSA
      !aNULL
      !kRSA
      @STRENGTH
      -aNULL
      -EXPORT
      -IDEA
      !DHE-RSA-AES256-SHA
      !DHE-RSA-AES128-CCM
      !DHE-RSA-AES256-CCM
GUI HTTPS TLS Renegotiation: Enabled
Inbound SMTP method:  tlsv1_3
Inbound SMTP ciphers:
      AES128
      AES256
      !SRP
      !AESGCM+DH+aRSA
      !AESGCM+RSA
      !aNULL
      !kRSA
      @STRENGTH
      -aNULL
      -EXPORT
      -IDEA
      !DHE-RSA-AES256-SHA
      !DHE-RSA-AES128-CCM
      !DHE-RSA-AES256-CCM
Inbound SMTP TLS Renegotiation: Enabled
Outbound SMTP method:  tlsv1_1tlsv1_2
Outbound SMTP ciphers:
      ECDH+aRSA
      ECDH+ECDSA
      DHE+DSS+AES
      AES128
      AES256
      !3DES
      !IDEA
      !SRP
      !AESGCM+DH+aRSA
      !AESGCM+RSA
      !aNULL
      !eNULL
      !kRSA
      @STRENGTH
      -aNULL
      -EXPORT
      -IDEA
      !DHE-RSA-AES256-SHA
      !DHE-RSA-AES128-CCM
      !DHE-RSA-AES256-CCM
      !ECDHE-ECDSA-CAMELLIA128-SHA256
      !ECDHE-RSA-CAMELLIA128-SHA256
      !ECDHE-ECDSA-CAMELLIA256-SHA384
      !ECDHE-RSA-CAMELLIA256-SHA384
      !ECDHE-ECDSA-AES128-CCM
      !ECDHE-ECDSA-AES256-CCM
Other TLS Client Services: TLS v1.2, TLS v1.1 are being used as default
Peer Certificate FQDN Validation: Disabled
Peer Certificate X509 Validation: Disabled
```

```
Choose the operation you want to perform:
- GUI - Edit GUI HTTPS ssl settings.
- INBOUND - Edit Inbound SMTP ssl settings.
- OUTBOUND - Edit Outbound SMTP ssl settings.
- VERIFY - Verify and show ssl cipher list.
- OTHER_CLIENT_TLSV10 - Edit TLS v1.0 for other client services.
- PEER_CERT_FQDN - Validate peer certificate FQDN compliance for Alert Over TLS, Outbound
  SMTP, updater and LDAP.
- PEER_CERT_X509 - Validate peer certificate X509 compliance for Alert Over TLS, Outbound
  SMTP, updater and LDAP.
[]> outbound

The configured SSL Cipher(s) do not apply to TLS 1.3. The TLS 1.3 protocol uses default
ciphers.

Enter the outbound SMTP ssl method you want to use.
1. TLS v1.3
2. TLS v1.2
3. TLS v1.1
4. TLS v1.0
[2, ]>

Enter the outbound SMTP ssl cipher you want to use.
[ECDH+aRSA:ECDH+ECDSA:DHE+DSS+AES:AES128:AES256:!3DES:!IDEA:!SRP:!AESGCM+DH+aRSA:!AESGCM+RSA:!aNULL:!eNULL:!kRSA:@STRENGTH:-
aNULL:-EXPORT:-IDEA:!DHE-RSA-AES256-SHA:!DHE-RSA-AES128-CCM:!DHE-RSA-AES256-CCM:!ECDHE-ECDSA-CAMELLIA128-SHA256:!ECDHE-RSA-CAMEL
LIA128-SHA256:!ECDHE-ECDSA-CAMELLIA256-SHA384:!ECDHE-RSA-CAMELLIA256-SHA384:!ECDHE-ECDSA-AES128-CCM:!ECDHE-ECDSA-AES256-CCM]>

sslconfig settings:
  GUI HTTPS method:  tlsv1_1
  GUI HTTPS ciphers:
        AES128
        AES256
        !SRP
        !AESGCM+DH+aRSA
        !AESGCM+RSA
        !aNULL
        !kRSA
        @STRENGTH
        -aNULL
        -EXPORT
        -IDEA
        !DHE-RSA-AES256-SHA
        !DHE-RSA-AES128-CCM
        !DHE-RSA-AES256-CCM
  GUI HTTPS TLS Renegotiation: Enabled
  Inbound SMTP method:  tlsv1_3
  Inbound SMTP ciphers:
        AES128
        AES256
        !SRP
        !AESGCM+DH+aRSA
        !AESGCM+RSA
        !aNULL
        !kRSA
        @STRENGTH
        -aNULL
        -EXPORT
        -IDEA
        !DHE-RSA-AES256-SHA
        !DHE-RSA-AES128-CCM
        !DHE-RSA-AES256-CCM
  Inbound SMTP TLS Renegotiation: Enabled
  Outbound SMTP method:  tlsv1_1tlsv1_2
  Outbound SMTP ciphers:
```

```
        ECDH+aRSA
        ECDH+ECDSA
        DHE+DSS+AES
        AES128
        AES256
        !3DES
        !IDEA
        !SRP
        !AESGCM+DH+aRSA
        !AESGCM+RSA
        !aNULL
        !eNULL
        !kRSA
        @STRENGTH
        -aNULL
        -EXPORT
        -IDEA
        !DHE-RSA-AES256-SHA
        !DHE-RSA-AES128-CCM
        !DHE-RSA-AES256-CCM
        !ECDHE-ECDSA-CAMELLIA128-SHA256
        !ECDHE-RSA-CAMELLIA128-SHA256
        !ECDHE-ECDSA-CAMELLIA256-SHA384
        !ECDHE-RSA-CAMELLIA256-SHA384
        !ECDHE-ECDSA-AES128-CCM
        !ECDHE-ECDSA-AES256-CCM
  Other TLS Client Services: TLS v1.2, TLS v1.1 are being used as default
  Peer Certificate FQDN Validation: Disabled
  Peer Certificate X509 Validation: Disabled

Choose the operation you want to perform:
- GUI - Edit GUI HTTPS ssl settings.
- INBOUND - Edit Inbound SMTP ssl settings.
- OUTBOUND - Edit Outbound SMTP ssl settings.
- VERIFY - Verify and show ssl cipher list.
- OTHER_CLIENT_TLSV10 - Edit TLS v1.0 for other client services.
- PEER_CERT_FQDN - Validate peer certificate FQDN compliance for Alert Over TLS, Outbound
  SMTP, updater and LDAP.
- PEER_CERT_X509 - Validate peer certificate X509 compliance for Alert Over TLS, Outbound
  SMTP, updater and LDAP.
[]>

mail1.example.com> sslconfig

sslconfig settings:
  GUI HTTPS method:  tlsv1_1
  GUI HTTPS ciphers:
        AES128
        AES256
        !SRP
        !AESGCM+DH+aRSA
        !AESGCM+RSA
        !aNULL
        !kRSA
        @STRENGTH
        -aNULL
        -EXPORT
        -IDEA
        !DHE-RSA-AES256-SHA
        !DHE-RSA-AES128-CCM
        !DHE-RSA-AES256-CCM
  GUI HTTPS TLS Renegotiation: Enabled
  Inbound SMTP method:  tlsv1_3
  Inbound SMTP ciphers:
```

```
        AES128
        AES256
        !SRP
        !AESGCM+DH+aRSA
        !AESGCM+RSA
        !aNULL
        !kRSA
        @STRENGTH
        -aNULL
        -EXPORT
        -IDEA
        !DHE-RSA-AES256-SHA
        !DHE-RSA-AES128-CCM
        !DHE-RSA-AES256-CCM
  Inbound SMTP TLS Renegotiation: Enabled
  Outbound SMTP method:  tlsv1_1tlsv1_2
  Outbound SMTP ciphers:
        ECDH+aRSA
        ECDH+ECDSA
        DHE+DSS+AES
        AES128
        AES256
        !3DES
        !IDEA
        !SRP
        !AESGCM+DH+aRSA
        !AESGCM+RSA
        !aNULL
        !eNULL
        !kRSA
        @STRENGTH
        -aNULL
        -EXPORT
        -IDEA
        !DHE-RSA-AES256-SHA
        !DHE-RSA-AES128-CCM
        !DHE-RSA-AES256-CCM
        !ECDHE-ECDSA-CAMELLIA128-SHA256
        !ECDHE-RSA-CAMELLIA128-SHA256
        !ECDHE-ECDSA-CAMELLIA256-SHA384
        !ECDHE-RSA-CAMELLIA256-SHA384
        !ECDHE-ECDSA-AES128-CCM
        !ECDHE-ECDSA-AES256-CCM
  Other TLS Client Services: TLS v1.2, TLS v1.1 are being used as default
  Peer Certificate FQDN Validation: Disabled
  Peer Certificate X509 Validation: Disabled

Choose the operation you want to perform:
- GUI - Edit GUI HTTPS ssl settings.
- INBOUND - Edit Inbound SMTP ssl settings.
- OUTBOUND - Edit Outbound SMTP ssl settings.
- VERIFY - Verify and show ssl cipher list.
- OTHER_CLIENT_TLSV10 - Edit TLS v1.0 for other client services.
- PEER_CERT_FQDN - Validate peer certificate FQDN compliance for Alert Over TLS, Outbound
  SMTP, updater and LDAP.
- PEER_CERT_X509 - Validate peer certificate X509 compliance for Alert Over TLS, Outbound
  SMTP, updater and LDAP.
[]> gui

The configured SSL Cipher(s) do not apply to TLS 1.3. The TLS 1.3 protocol uses default
ciphers.

Enter the GUI HTTPS ssl method you want to use.
1. TLS v1.3
```

Example

```
2. TLS v1.2
3. TLS v1.1
4. TLS v1.0
[3]> 2

Enter the GUI HTTPS ssl cipher you want to use.
[AES128:AES256:!SRP:!AESGCM+DH+aRSA:!AESGCM+RSA:!aNULL:!kRSA:@STRENGTH:-aNULL:-EXPORT:-IDEA:!DHE-RSA-AES256-SHA:!DHE-RSA-AES128
-CCM:!DHE-RSA-AES256-CCM]>

Would you like to Enable/Disable TLS Renegotiation for GUI HTTPS? [Y]>

sslconfig settings:
  GUI HTTPS method:  tlsv1_2
  GUI HTTPS ciphers:
        AES128
        AES256
        !SRP
        !AESGCM+DH+aRSA
        !AESGCM+RSA
        !aNULL
        !kRSA
        @STRENGTH
        -aNULL
        -EXPORT
        -IDEA
        !DHE-RSA-AES256-SHA
        !DHE-RSA-AES128-CCM
        !DHE-RSA-AES256-CCM
  GUI HTTPS TLS Renegotiation: Enabled
  Inbound SMTP method:  tlsv1_3
  Inbound SMTP ciphers:
        AES128
        AES256
        !SRP
        !AESGCM+DH+aRSA
        !AESGCM+RSA
        !aNULL
        !kRSA
        @STRENGTH
        -aNULL
        -EXPORT
        -IDEA
        !DHE-RSA-AES256-SHA
        !DHE-RSA-AES128-CCM
        !DHE-RSA-AES256-CCM
  Inbound SMTP TLS Renegotiation: Enabled
  Outbound SMTP method:  tlsv1_1tlsv1_2
  Outbound SMTP ciphers:
        ECDH+aRSA
        ECDH+ECDSA
        DHE+DSS+AES
        AES128
        AES256
        !3DES
        !IDEA
        !SRP
        !AESGCM+DH+aRSA
        !AESGCM+RSA
        !aNULL
        !eNULL
        !kRSA
        @STRENGTH
        -aNULL
        -EXPORT
```

```
        -IDEA
        !DHE-RSA-AES256-SHA
        !DHE-RSA-AES128-CCM
        !DHE-RSA-AES256-CCM
        !ECDHE-ECDSA-CAMELLIA128-SHA256
        !ECDHE-RSA-CAMELLIA128-SHA256
        !ECDHE-ECDSA-CAMELLIA256-SHA384
        !ECDHE-RSA-CAMELLIA256-SHA384
        !ECDHE-ECDSA-AES128-CCM
        !ECDHE-ECDSA-AES256-CCM
  Other TLS Client Services: TLS v1.2, TLS v1.1 are being used as default

  Peer Certificate FQDN Validation: Disabled
  Peer Certificate X509 Validation: Disabled

Choose the operation you want to perform:
- GUI - Edit GUI HTTPS ssl settings.
- INBOUND - Edit Inbound SMTP ssl settings.
- OUTBOUND - Edit Outbound SMTP ssl settings.
- VERIFY - Verify and show ssl cipher list.
- OTHER_CLIENT_TLSV10 - Edit TLS v1.0 for other client services.

- PEER_CERT_FQDN - Validate peer certificate FQDN compliance for Alert Over TLS, Outbound
  SMTP, updater and LDAP.
- PEER_CERT_X509 - Validate peer certificate X509 compliance for Alert Over TLS, Outbound
  SMTP, updater and LDAP.
[]>
mail1.example.com>
```

telnet

Description

Connect to a remote host

Usage

Commit: This command does not require a ‘commit’.

Cluster Management: This command is restricted to machine mode. It is further restricted to the login host (i.e., the specific machine you are logged onto). This command requires access to the local file system.

Batch Command: This command does not support a batch format.

Example

```
mail3.example.com> telnet
Please select which interface you want to telnet from.
1. Auto
2. Management (192.168.42.42/24: mail3.example.com)
3. PrivateNet (192.168.1.1/24: mail3.example.com)
4. PublicNet (192.168.2.1/24: mail3.example.com)
[1]> 3
Enter the remote hostname or IP.
[]> 193.168.1.1
Enter the remote port.
[25]> 25
Trying 193.168.1.1...
```

```
Connected to 193.168.1.1.
Escape character is '^]'.
```

traceroute

Description

Use the traceroute command to test connectivity to a network host using IPV4 from the email gateway and debug routing issues with network hops.

Usage

Commit: This command does not require a 'commit'.

Cluster Management: This command is restricted to machine mode. It is further restricted to the login host (i.e., the specific machine you are logged onto). This command requires access to the local file system.

Batch Command: This command does not support a batch format.

Example

```
mail3.example.com> traceroute
Which interface do you want to trace from?
1. Auto
2. Management (192.168.42.42/24: mail3.example.com)
3. PrivateNet (192.168.1.1/24: mail3.example.com)
4. PublicNet (192.168.2.1/24: mail3.example.com)
[1]> 1
Please enter the host to which you want to trace the route.
[]> 10.1.1.1
Press Ctrl-C to stop.
traceroute to 10.1.1.1 (10.1.1.1), 64 hops max, 44 byte packets
 1  gateway
 (192.168.0.1)  0.202 ms  0.173 ms  0.161 ms
 2  hostname
 (10.1.1.1)  0.298 ms  0.302 ms  0.291 ms
mail3.example.com>
```

traceroute6

Description

Use the **traceroute6** command to test connectivity to a network host using IPV6 from the email gateway and debug routing issues with network hops.

Usage

Commit: This command does not require a 'commit'.

Cluster Management: This command is restricted to machine mode. It is further restricted to the login host (i.e., the specific machine you are logged onto). This command requires access to the local file system.

Batch Command: This command does not support a batch format.

Example

```
mail.example.com> traceroute6
Which interface do you want to trace from?
1. Auto
2. D1 (2001:db8::/32: example.com)
[1]> 1
Please enter the host to which you want to trace the route.
[]> example.com
Press Ctrl-C to stop.
connect: No route to host
vm10esa0031.qa> traceroute6
Which interface do you want to trace from?
1. Auto
2. D1 (2001:db8::/32: example.com)
[1]> 2
Please enter the host to which you want to trace the route.
[]> example.com
Press Ctrl-C to stop.
traceroute6 to example.com (2606:2800:220:1:248:1893:25c8:1946) from 2001:db8::, 64 hops
max, 12 byte packets
sendto: No route to host
 1 traceroute6: wrote example.com 12 chars, ret=-1
 *sendto: No route to host
traceroute6: wrote example.com 12 chars, ret=-1
 *sendto: No route to host
traceroute6: wrote example.com 12 chars, ret=-1
```

trailblazerconfig

- Description, on page 223
- Usage, on page 224
- Example, on page 224

Description

The `trailblazerconfig` command is used to route your incoming and outgoing connections through HTTP and HTTPS ports on the new web interface.

You can see the inline help by using the following command on the CLI: `help trailblazerconfig`.

Note By default, `trailblazerconfig` CLI command is enabled on your email gateway. Make sure that the HTTPS ports are opened on the firewall. Also, ensure that your DNS server can resolve the hostname that you specified for accessing the email gateway.

The trailblazerconfig command helps you to avoid the following issues:

- Requiring to add multiple certificates for API ports in certain browsers.
- Redirecting to the legacy web interface when you refresh the Spam Quarantine, Safelist or Blocklist page.
- Metrics bar on the Advanced Malware Protection report page does not contain any data.

Important

When you enable `trailblazerconfig` command on the email gateway, the requested URL will contain the trailblazerconfig HTTPS port number appended to the hostname.

The syntax is as follows:

`trailblazerconfig enable <https_port> <http_port>`- runs the trailblazer configuration on the default ports (HTTPS: 4431).

`trailblazerconfig disable`- disables the trailblazer configuration

`trailblazerconfig status`- checks the status of the trailblazer configuration

Usage

Commit: This command does not require a 'commit'.

Cluster Management: This command is restricted to machine mode.

Batch Command: This command does not support a batch format.

Example

The following example shows how to enable and view status of `trailblazerconfig` command.

```
mail1.example.com> trailblazerconfig enable 4431

trailblazer is enabled.
To access the Next Generation web interface, use the port 4419 for HTTPS.
mail1.example.com> trailblazerconfig status
trailblazer is running with https on 4419 port.
mail1.example.com> trailblazerconfig disable
trailblazer is disabled.
[]>
```

Outbreak Filters

This section contains the following CLI commands:

outbreakconfig

Description

Use the **outbreakconfig** command to configure the Outbreak Filter feature. You perform the following actions using this command:

- Enable Outbreak Filters globally
- Enable Adaptive Rules scanning
- Set a maximum size for files to scan (note that you are entering the size in *bytes*)
- Enable alerts for the Outbreak Filter

Usage

Commit: This command requires a 'commit'.

Cluster Management: This command can be used in all three machine modes (cluster, group, machine).

Batch Command: This command does not support a batch format.

Example

```
mail.example.com> outbreakconfig
Outbreak Filters: Enabled
Choose the operation you want to perform:
- SETUP - Change Outbreak Filters settings.
[]> setup
Outbreak Filters: Enabled
Would you like to use Outbreak Filters? [Y]>
Outbreak Filters enabled.
Outbreak Filter alerts are sent when outbreak rules cross the threshold (go above or back
down below), meaning that new messages of
certain types could be quarantined or will no longer be quarantined, respectively.
Would you like to receive Outbreak Filter alerts? [N]>
What is the largest size message Outbreak Filters should scan?
[524288]>
Do you want to use adaptive rules to compute the threat level of messages? [Y]>

The Outbreak Filters feature is now globally enabled on the system.  You must use the
'policyconfig' command in the CLI or the Email
Security Manager in the GUI to enable Outbreak Filters for the desired Incoming and Outgoing
 Mail Policies.
Choose the operation you want to perform:
- SETUP - Change Outbreak Filters settings.
[]>
```

outbreakflush

Description

Clear the cached Outbreak Rules.

Usage

Commit: This command does not require a 'commit'.

Cluster Management: This command is restricted to machine mode.

Batch Command: This command does not support a batch format.

Example

```
mail3.example.com> outbreakflush
Warning - This command removes the current set of Outbreak Filter Rules, leaving your network
 exposed until the next rule download.
Run "outbreakupdate force" command to immediately download Outbreak Filter Rules.
Are you sure that you want to clear the current rules? [N]> y
Cleared the current rules.
mail3.example.com>
```

outbreakstatus

Description

The **outbreakstatus** command shows the current Outbreak Filters feature settings, including whether the Outbreak Filters feature is enabled, any Outbreak Rules, and the current threshold.

Usage

Commit: This command does not require a 'commit'.

Cluster Management: This command is restricted to machine mode.

Batch Command: This command does not support a batch format.

Example

```
mail3.example.com> outbreakstatus
Outbreak Filters: Enabled

Component              Last Update                       Version
CASE Core Files        26 Jan 2014 06:45 (GMT +00:00)    3.3.1-005
CASE Utilities         26 Jan 2014 06:45 (GMT +00:00)    3.3.1-005
Outbreak Rules         26 Jan 2014 07:00 (GMT +00:00)    20140126_063240

   Threat Outbreak         Outbreak
   Level  Rule Name        Rule Description
   ------------------------------------------------------------------
   5   OUTBREAK_0002187_03  A reported a MyDoom.BB outbreak.
   5   OUTBREAK_0005678_00  This configuration file was generated by...
   3   OUTBREAK_0000578_00  This virus is distributed in pictures of...

Outbreak Filter Rules with higher threat levels pose greater risks.
(5 = highest threat, 1 = lowest threat)

Last update: Mon Jan 27 04:36:27 2014

mail3.example.com>
```

outbreakupdate

Description

Requests an immediate update of CASE rules and engine core.

Usage

Commit: This command does not require a 'commit'.

Cluster Management: This command is restricted to machine mode. It is further restricted to the login host (i.e., the specific machine you are logged onto).

Batch Command: This command does not support a batch format.

Example

```
elroy.run> outbreakupdate
Requesting updates for Outbreak Filter Rules.
```

Policy Enforcement

This section contains the following CLI commands:

dictionaryconfig

Description

Configure content dictionaries

Usage

Commit: This command requires a 'commit'.

Cluster Management: This command can be used in all three machine modes (cluster, group, machine).

Batch Command: This command does not support a batch format.

Example

Use **dictionaryconfig -> new** to create dictionaries, and **dictionaryconfig -> delete** to remove dictionaries.

Creating a Dictionary

```
example.com> dictionaryconfig
No content dictionaries have been defined.
Choose the operation you want to perform:
- NEW - Create a new content dictionary.
- DICTIONARYLIMITS - Configure maximum number of content dictionaries that you
can create in your email gateway.
```

```
[]> new
Enter a name for this content dictionary.
[]> HRWords
Do you wish to specify a file for import? [N]>
Enter new words or regular expressions, enter a blank line to finish.
<list of words typed here>
Currently configured content dictionaries:
1. HRWords
Choose the operation you want to perform:
- NEW - Create a new content dictionary.
- EDIT - Modify a content dictionary.
- DELETE - Remove a content dictionary.
- DICTIONARYLIMITS - Configure maximum number of content dictionaries that you
can create in your email gateway.
- RENAME - Change the name of a content dictionary.
[]> delete
Enter the number of the dictionary you want to delete:
1. HRWords
[]> 1
Content dictionary "HRWords" deleted.
No content dictionaries have been defined.
Choose the operation you want to perform:
- NEW - Create a new content dictionary.
- DICTIONARYLIMITS - Configure maximum number of content dictionaries that you
can create in your email gateway.
[]>
```

Creating a Dictionary 2

In this example, a new dictionary named “secret_words” is created to contain the term “codename.” Once the dictionary has been entered, the edit -> settings subcommand is used to define the case-sensitivity and word boundary detection for words in the dictionary.

```
mail3.example.com> dictionaryconfig
No content dictionaries have been defined.
Choose the operation you want to perform:
- NEW - Create a new content dictionary.
- DICTIONARYLIMITS - Configure maximum number of content dictionaries that you
can create in your email gateway.
[]> new
Enter a name for this content dictionary.
[]> secret_words
Do you wish to specify a file for import? [N]>
Enter new words or regular expressions, enter a blank line to finish.
codename
Currently configured content dictionaries:
1. secret_words
Choose the operation you want to perform:
- NEW - Create a new content dictionary.
- EDIT - Modify a content dictionary.
- DELETE - Remove a content dictionary.
- DICTIONARYLIMITS - Configure maximum number of content dictionaries that you
can create in your email gateway.
- RENAME - Change the name of a content dictionary.
[]> edit
Enter the number of the dictionary you want to edit:
1. secret_words
[]> 1
Choose the operation you want to perform on dictionary 'secret_words':
- NEW - Create new entries in this dictionary.
- IMPORT - Replace all of the words in this dictionary.
- EXPORT - Export the words in this dictionary.
```

```
- DELETE - Remove an entry in this dictionary.
- PRINT - List the entries in this dictionary.
- SETTINGS - Change settings for this dictionary.
[]> settings
Do you want to ignore case when matching using this dictionary? [Y]>
Do you want strings in this dictionary to only match complete words? [Y]>
Enter the default encoding to be used for exporting this dictionary:
1. US-ASCII
2. Unicode (UTF-8)
3. Unicode (UTF-16)
4. Western European/Latin-1 (ISO 8859-1)
5. Western European/Latin-1 (Windows CP1252)
6. Traditional Chinese (Big 5)
7. Simplified Chinese (GB 2312)
8. Simplified Chinese (HZ GB 2312)
9. Korean (ISO 2022-KR)
10. Korean (KS-C-5601/EUC-KR)
11. Japanese (Shift-JIS (X0123))
12. Japanese (ISO-2022-JP)
13. Japanese (EUC)
[2]>
Choose the operation you want to perform on dictionary 'secret_words':
- NEW - Create new entries in this dictionary.
- IMPORT - Replace all of the words in this dictionary.
- EXPORT - Export the words in this dictionary.
- DELETE - Remove an entry in this dictionary.
- PRINT - List the entries in this dictionary.
- SETTINGS - Change settings for this dictionary.
[]>
Currently configured content dictionaries:
1. secret_words
Choose the operation you want to perform:
- NEW - Create a new content dictionary.
- EDIT - Modify a content dictionary.
- DELETE - Remove a content dictionary.
- DICTIONARYLIMITS - Configure maximum number of content dictionaries that you
can create in your email gateway.
- RENAME - Change the name of a content dictionary.
[]>
mail3.example.com> commit
Please enter some comments describing your changes:
[]> Added new dictionary: secret_words
Do you want to save the current configuration for rollback? [Y]> n
Changes committed: Fri May 23 11:42:12 2014 GMT
```

Importing Dictionaries

In the example below, using the **dictionaryconfig** command, 84 terms in the profanity.txt text file are imported as Unicode (UTF-8) into a dictionary named profanity .

```
mail3.example.com> dictionaryconfig
No content dictionaries have been defined.
Choose the operation you want to perform:
- NEW - Create a new content dictionary.
- DICTIONARYLIMITS - Configure maximum number of content dictionaries that you
can create in your email gateway.
[]> new
Enter a name for this content dictionary.
[]> profanity
Do you wish to specify a file for import?  [N]> y
Enter the name of the file to import:
[]> profanity.txt
Enter the encoding to use for the imported file:
```

```
1. US-ASCII
2. Unicode (UTF-8)
3. Unicode (UTF-16)
4. Western European/Latin-1 (ISO 8859-1)
5. Western European/Latin-1 (Windows CP1252)
6. Traditional Chinese (Big 5)
7. Simplified Chinese (GB 2312)
8. Simplified Chinese (HZ GB 2312)
9. Korean (ISO 2022-KR)
10. Korean (KS-C-5601/EUC-KR)
11. Japanese (Shift-JIS (X0123))
12. Japanese (ISO-2022-JP)
13. Japanese (EUC)
[2]>
84 entries imported successfully.
Currently configured content dictionaries:
1. profanity
Choose the operation you want to perform:
- NEW - Create a new content dictionary.
- EDIT - Modify a content dictionary.
- DELETE - Remove a content dictionary.
- DICTIONARYLIMITS - Configure maximum number of content dictionaries that you
can create in your email gateway.
- RENAME - Change the name of a content dictionary.
```

Exporting Dictionaries

In the example below, using the **dictionaryconfig** command, the secret_words dictionary is exported to a text file named secret_words_export.txt

```
mail3.example.com> dictionaryconfig
Currently configured content dictionaries:
1. secret_words
Choose the operation you want to perform:
- NEW - Create a new content dictionary.
- EDIT - Modify a content dictionary.
- DELETE - Remove a content dictionary.
- DICTIONARYLIMITS - Configure maximum number of content dictionaries that you
can create in your email gateway.
- RENAME - Change the name of a content dictionary.
[]> edit
Enter the number of the dictionary you want to edit:
1. secret_words
[]> 1
Choose the operation you want to perform on dictionary 'secret_words':
- NEW - Create new entries in this dictionary.
- IMPORT - Replace all of the words in this dictionary.
- EXPORT - Export the words in this dictionary.
- DELETE - Remove an entry in this dictionary.
- PRINT - List the entries in this dictionary.
- SETTINGS - Change settings for this dictionary.
[]> export
Enter a name for the exported file:
[]> secret_words_export.txt
mail3.example.com> dictionaryconfig
Currently configured content dictionaries:
1. secret_words
Choose the operation you want to perform:
- NEW - Create a new content dictionary.
- EDIT - Modify a content dictionary.
- DELETE - Remove a content dictionary.
- DICTIONARYLIMITS - Configure maximum number of content dictionaries that you
can create in your email gateway.
```

```
- RENAME - Change the name of a content dictionary.
[]> edit
Enter the number of the dictionary you want to edit:
1. secret_words
[]> 1
Choose the operation you want to perform on dictionary 'secret_words':
- NEW - Create new entries in this dictionary.
- IMPORT - Replace all of the words in this dictionary.
- EXPORT - Export the words in this dictionary.
- DELETE - Remove an entry in this dictionary.
- PRINT - List the entries in this dictionary.
- SETTINGS - Change settings for this dictionary.
[]> export
Enter a name for the exported file:
[]> secret_words_export.txt
```

Example - Configuring Maximum Number of Content Dictionaries in Email Gateway

In the following example, you can use the `dictionaryconfig > dictionarylimits` sub command to configure a maximum number of 150 content dictionaries in your email gateway.

Note By default, you can configure a maximum of 100 content dictionaries in your email gateway.

Note When you use content dictionaries extensively with ‘Message Body or Attachments’ content filter condition or ‘Body Scanning’ or ‘Attachment Scanning’ message filter rules, it may degrade system performance.

```
mail1.example.com>> dictionaryconfig

Currently configured content dictionaries:
1. secret_words

Choose the operation you want to perform:
- NEW - Create a new content dictionary.
- EDIT - Modify a content dictionary.
- DELETE - Remove a content dictionary.
- DICTIONARYLIMITS - Configure maximum number of content dictionaries that you
can create in your email gateway.
- RENAME - Change the name of a content dictionary.
[]> dictionarylimits

Enter the maximum number of content dictionaries that you want to create in
your email gateway.
When you use content dictionaries extensively with 'Message Body or
Attachments' content filter condition or 'Body Scanning' or 'Attachment
Scanning' message filter rules, it may degrade system performance.
[100]> 150

The maximum number of content dictionaries that you can configure in your email
gateway is 150.
Currently configured content dictionaries:
1. secret_words

Choose the operation you want to perform:
- NEW - Create a new content dictionary.
- EDIT - Modify a content dictionary.
- DELETE - Remove a content dictionary.
```

```
- DICTIONARYLIMITS - Configure maximum number of content dictionaries that you
can create in your email gateway.
- RENAME - Change the name of a content dictionary.
[]>
mail1.example.com> commit

Please enter some comments describing your changes:
[]> Committed the new changes

Do you want to save the current configuration for rollback? [Y]>

Changes committed: Thu Aug 05 10:35:10 2021 GMT
mail1.example.com>>
```

exceptionconfig

Description

Use the **exceptionconfig** command in the CLI to create the domain exception table. In this example, the email address “admin@zzzaaazzz.com” is added to the domain exception table with a policy of “Allow.”

Usage

Commit: This command requires a ‘commit’.

Cluster Management: This command can be used in all three machine modes (cluster, group, machine)..

Batch Command: This command does not support a batch format.

Example

```
mail3.example.com> exceptionconfig
Choose the operation you want to perform:
- NEW - Create a new domain exception table entry
[]> new
Enter a domain, sub-domain, user, or email address for which you wish to
provide an exception:
[]> mail.partner.com
Any of the following passes:
- @[IP address]
  Matches any email address with this IP address.
- @domain
  Matches any email address with this domain.
- @.partial.domain
  Matches any email address domain ending in this domain.
- user@
  Matches any email address beginning with user@.
- user@domain
  Matches entire email address.
Enter a domain, sub-domain, user, or email address for which you wish to
provide an exception:
[]> admin@zzzaaazzz.com
Choose a policy for this domain exception:
1. Allow
2. Reject
[1]> 1
Choose the operation you want to perform:
- NEW - Create a new domain exception table entry
- EDIT - Edit a domain exception table entry
```

```
- DELETE - Delete a domain exception table entry
- PRINT - Print all domain exception table entries
- SEARCH - Search domain exception table
- CLEAR - Clear all domain exception entries
[]>
```

filters

Description

Configure message processing options.

Usage

Commit: This command requires a 'commit'.

Cluster Management: This command is restricted to machine mode.

Batch Command: This command does not support a batch format

Example

In this example, the filter command is used to create three new filters:

- The first filter is named **big_messages**. It uses the body-size rule to drop messages larger than 10 megabytes.
- The second filter is named **no_mp3s**. It uses the attachment-filename rule to drop messages that contain attachments with the filename extension of .mp3 .
- The third filter is named **mailfrompm**. It uses mail-from rule examines all mail from postmaster@example.com and blind-carbon copies administrator@example.com .

Using the **`filter -> list`** subcommand, the filters are listed to confirm that they are active and valid, and then the first and last filters are switched in position using the move subcommand. Finally, the changes are committed so that the filters take effect.

```
mail3.example.com> filters
Choose the operation you want to perform:
- NEW - Create a new filter.
- IMPORT - Import a filter script from a file.
[]> new
Enter filter script.  Enter '.' on its own line to end.
big_messages:
    if (body-size >= 10M) {
       drop();
    }
.
1 filters added.
Choose the operation you want to perform:
- NEW - Create a new filter.
- DELETE - Remove a filter.
- IMPORT - Import a filter script from a file.
- EXPORT - Export filters to a file
- MOVE - Move a filter to a different position.
- SET - Set a filter attribute.
- LIST - List the filters.
- DETAIL - Get detailed information on the filters.
- LOGCONFIG - Configure log subscriptions used by filters.
```

```
- ROLLOVERNOW - Roll over a filter log file.
[]> new
Enter filter script.  Enter '.' on its own line to end.
no_mp3s:
    if (attachment-filename == '\\.mp3$') {
        drop();
     }
.
1 filters added.
Choose the operation you want to perform:
- NEW - Create a new filter.
- DELETE - Remove a filter.
- IMPORT - Import a filter script from a file.
- EXPORT - Export filters to a file
- MOVE - Move a filter to a different position.
- SET - Set a filter attribute.
- LIST - List the filters.
- DETAIL - Get detailed information on the filters.
- LOGCONFIG - Configure log subscriptions used by filters.
- ROLLOVERNOW - Roll over a filter log file.
[]> new
Enter filter script.  Enter '.' on its own line to end.
mailfrompm:
    if (mail-from == "^postmaster$")
     { bcc ("administrator@example.com");}
.
1 filters added.
Choose the operation you want to perform:
- NEW - Create a new filter.
- DELETE - Remove a filter.
- IMPORT - Import a filter script from a file.
- EXPORT - Export filters to a file
- MOVE - Move a filter to a different position.
- SET - Set a filter attribute.
- LIST - List the filters.
- DETAIL - Get detailed information on the filters.
- LOGCONFIG - Configure log subscriptions used by filters.
- ROLLOVERNOW - Roll over a filter log file.
[]> list
```

policyconfig

Description

Configure per recipient or sender based policies.

Usage

Commit: This command requires a ‘commit’.

Cluster Management: This command can be used in all three machine modes (cluster, group, machine).

Batch Command: This command does not support a batch format.

Examples

Creating an Incoming Mail Policy to Drop Spam Messages and Archive Suspected Spam Messages

In this example, the policyconfig -> edit -> antispam subcommand is used to edit the Anti-Spam settings for the default incoming mail policy. (Note that this same configuration is available in the GUI from the Email Security Manager feature.)

- First, messages *positively* identified as spam are chosen not to be archived; they will be dropped.
- Messages that are *suspected* to be spam are chosen to be archived. They will also be sent to the Spam Quarantine installed on the server named quarantine.example.com . The text [quarantined: possible spam] is prepended to the subject line and a special header of X-quarantined: true is configured to be added to these suspect messages. In this scenario, Administrators and end-users can check the quarantine for false positives, and an administrator can adjust, if necessary, the suspected spam threshold.

Finally, the changes are committed.

```
mail3.example.com> policyconfig
Would you like to configure Incoming or Outgoing Mail Policies?
1. Incoming
2. Outgoing
[1]> 1
Incoming Mail Policy Configuration
```

Name:	Anti-Spam:	Anti-Virus:	Advanced Malware Protection:	Graymail:	Content Filter:	Outbreak Filters:
DEFAULT	Ironport	Mcafee	N/A	Off	Off	Enabled

```
Choose the operation you want to perform:
- NEW - Create a new policy
- EDIT - Edit an existing policy
- PRINT - Print all policies
- FILTERS - Edit content filters
[]> edit
```

	Name:	Anti-Spam:	Anti-Virus:	Advanced Malware Protection:	Graymail:	Content Filter:	Outbreak Filters:
1.	DEFAULT	Ironport	Mcafee	N/A	N/A	Off	Enabled

```
Enter the name or number of the entry you wish to edit:
[]> 1
Policy Summaries:
Anti-Spam: IronPort - Deliver, Prepend "[SPAM] " to Subject
Suspect-Spam: IronPort - Deliver, Prepend "[SUSPECTED SPAM] " to Subject
Anti-Virus: Off
Content Filters: Off (No content filters have been created)
Choose the operation you want to perform:
- ANTISPAM - Modify Anti-Spam policy
- ANTIVIRUS - Modify Anti-Virus policy
- OUTBREAK - Modify Outbreak Filters policy
```

```
[]> antispam
Choose the operation you want to perform:
- EDIT - Edit Anti-Spam policy
- DISABLE - Disable Anti-Spam policy (Disables all policy-related actions)
[]> edit
Begin Anti-Spam configuration
Some messages will be positively identified as spam.  Some messages will be
identified as suspected spam. You can set the IronPort Anti-Spam Suspected Spam Threshold
below.
The following configuration options apply to messages POSITIVELY identified as spam:
What score would you like to set for the IronPort Anti-Spam spam threshold?
[90]> 90
1. DELIVER
2. DROP
3. BOUNCE
4. IRONPORT QUARANTINE
What do you want to do with messages identified as spam?
[1]> 2
Do you want to archive messages identified as spam? [N]>
Do you want to enable special treatment of suspected spam? [Y]> y
What score would you like to set for the IronPort Anti-Spam suspect spam threshold?
[50]> 50
The following configuration options apply to messages identified as SUSPECTED spam:
1. DELIVER
2. DROP
3. BOUNCE
4. IRONPORT QUARANTINE
What do you want to do with messages identified as SUSPECTED spam?
[1]> 4
Do you want to archive messages identified as SUSPECTED spam? [N]> y
1. PREPEND
2. APPEND
3. NONE
Do you want to add text to the subject of messages identified as SUSPECTED spam?
[1]> 1
What text do you want to prepend to the subject?
[[SUSPECTED SPAM] ]> [quarantined: possible spam]
Do you want to add a custom header to messages identified as SUSPECTED spam? [N]> y
Enter the name of the header:
[]> X-quarantined
Enter the text for the content of the header:
[]> true
Anti-Spam configuration complete
Policy Summaries:
Anti-Spam: IronPort - Drop
Suspect-Spam: IronPort - Quarantine - Archiving copies of the original message.
Anti-Virus: McAfee - Scan and Clean
Content Filters: Off (No content filters have been created)
Outbreak Filters: Enabled. No bypass extensions.
Choose the operation you want to perform:
- ANTISPAM - Modify Anti-Spam policy
- ANTIVIRUS - Modify Anti-Virus policy
- OUTBREAK - Modify Outbreak Filters policy
[]>
```

Name:	Anti-Spam:	Anti-Virus:	Advanced Malware Protection:	Graymail:	Content Filter:	Outbreak Filters:
DEFAULT	Ironport	Mcafee	N/A	N/A	Off	Enabled

```
Choose the operation you want to perform:
- NEW - Create a new policy
- EDIT - Edit an existing policy
- PRINT - Print all policies
- FILTERS - Edit content filters
[]>
mail3.example.com> commit
Please enter some comments describing your changes:
[]> configured anti-spam for Incoming Default Policy
Do you want to save the current configuration for rollback? [Y]> n
Changes committed: Fri May 23 11:42:12 2014 GMT
```

Creating a Policy for the Sales Team

```
Incoming Mail Policy Configuration
```

Name:	Anti-Spam:	Anti-Virus:	Advanced Malware Protection:	Graymail:	Content Filter:	Outbreak Filters:
DEFAULT	Ironport	Mcafee	N/A	N/A	Off	Enabled

```
Choose the operation you want to perform:
- NEW - Create a new policy
- EDIT - Edit an existing policy
- PRINT - Print all policies
- FILTERS - Edit content filters
[]> new
Enter the name for this policy:
[]> sales_team
Begin entering policy members. The following types of entries are allowed:
Username entries such as joe@, domain entries such as @example.com, sub-domain
entries such as @.example.com, LDAP group memberships such as ldap(Engineers)
Enter a member for this policy:
[]> ldap(sales)
Please select an LDAP group query:
1. PublicLDAP.ldapgroup
[1]> 1
Is this entry a recipient or a sender?
1. Recipient
2. Sender
[1]> 1
Add another member? [Y]> n
Would you like to enable Anti-Spam support? [Y]> y
Use the policy table default? [Y]> n
Begin Anti-Spam configuration
Some messages will be positively identified as spam.  Some messages will be
identified as suspected spam. You can set the IronPort Anti-Spam Suspected Spam Threshold
below.
The following configuration options apply to messages POSITIVELY identified as spam:
What score would you like to set for the IronPort Anti-Spam spam threshold?
[90]> 90
1. DELIVER
2. DROP
3. BOUNCE
4. IRONPORT QUARANTINE
What do you want to do with messages identified as spam?
[1]> 2
```

```
Do you want to archive messages identified as spam? [N]> n
Do you want to enable special treatment of suspected spam? [Y]> y
What score would you like to set for the IronPort Anti-Spam suspect spam
threshold?
[50]> 50
The following configuration options apply to messages identified as SUSPECTED
spam:
1. DELIVER
2. DROP
3. BOUNCE
4. IRONPORT QUARANTINE
What do you want to do with messages identified as SUSPECTED spam?
[1]> 4
Do you want to archive messages identified as SUSPECTED spam? [N]> n
1. PREPEND
2. APPEND
3. NONE
Do you want to add text to the subject of messages identified as SUSPECTED
spam?
[1]> 3
Do you want to add a custom header to messages identified as SUSPECTED spam? [N]> n
Anti-Spam configuration complete
Would you like to enable Anti-Virus support? [Y]> y
Use the policy table default? [Y]> y
Would you like to enable Outbreak Filters for this policy? [Y]> y
Use the policy table default? [Y]> y
Incoming Mail Policy Configuration
```

Name:	Anti-Spam:	Anti-Virus:	Advanced Malware Protection:	Graymail:	Content Filter:	Outbreak Filters:
sales_team	IronPort	Default	Default	Default	Default	Default
DEFAULT	Ironport	Mcafee	N/A	Off	Off	Enabled

```
Choose the operation you want to perform:
- NEW - Create a new policy
- EDIT - Edit an existing policy
- DELETE - Remove a policy
- PRINT - Print all policies
- SEARCH - Search for a policy by member
- FILTERS - Edit content filters
- CLEAR - Clear all policies
[]>
```

Then, create the policy for the engineering team (three individual email recipients), specifying that .dwg files are exempt from Outbreak Filter scanning.

Creating a Policy for the Engineering Team

```
Incoming Mail Policy Configuration
```

Name:	Anti-Spam:	Anti-Virus:	Advanced Malware Protection:	Graymail:	Content Filter:	Outbreak Filters:

sales_team	IronPort	Default	Default	Default	Default	Default
DEFAULT	Ironport	Mcafee	N/A	Off	Off	Enabled

```
Choose the operation you want to perform:
- NEW - Create a new policy
- EDIT - Edit an existing policy
- DELETE - Remove a policy
- PRINT - Print all policies
- SEARCH - Search for a policy by member
- FILTERS - Edit content filters
- CLEAR - Clear all policies
[]> new
Enter the name for this policy:
[]> engineering
Begin entering policy members. The following types of entries are allowed:
Username entries such as joe@, domain entries such as @example.com, sub-domain entries such
 as @.example.com,
LDAP group memberships such as ldap(Engineers)
Enter a member for this policy:
[]> bob@example.com
Is this entry a recipient or a sender?
1. Recipient
2. Sender
[1]> 1
Add another member? [Y]> y
Enter a member for this policy:
[]> fred@example.com
Is this entry a recipient or a sender?
1. Recipient
2. Sender
[1]> 1
Add another member? [Y]> y
Enter a member for this policy:
[]> joe@example.com
Is this entry a recipient or a sender?
1. Recipient
2. Sender
[1]> 1
Add another member? [Y]> n
Would you like to enable Anti-Spam support? [Y]> y
Use the policy table default? [Y]> y
Would you like to enable Anti-Virus support? [Y]> y
Use the policy table default? [Y]> y
Would you like to enable Outbreak Filters for this policy? [Y]> y
Use the policy table default? [Y]> n
Would you like to modify the list of file extensions that bypass
Outbreak Filters? [N]> y
Choose the operation you want to perform:
- NEW - Add a file extension
[]> new
Enter a file extension:
[]> dwg
Choose the operation you want to perform:
- NEW - Add a file extension
- DELETE - Delete a file extension
- PRINT - Display all file extensions
- CLEAR - Clear all file extensions
[]> print
The following file extensions will bypass Outbreak Filter processing:
```

```
dwg
Choose the operation you want to perform:
- NEW - Add a file extension
- DELETE - Delete a file extension
- PRINT - Display all file extensions
- CLEAR - Clear all file extensions
[]>
Incoming Mail Policy Configuration
```

Name:	Anti-Spam:	Anti-Virus:	Advanced Malware Protection:	Graymail:	Content Filter:	Outbreak Filters:
sales_team	IronPort	Default	Default	Default	Default	Default
engineering	Default	Default	Default	Default	Default	Enabled
DEFAULT	Ironport	Mcafee	N/A	Off	Off	Enabled

```
Choose the operation you want to perform:
- NEW - Create a new policy
- EDIT - Edit an existing policy
- DELETE - Remove a policy
- PRINT - Print all policies
- SEARCH - Search for a policy by member
- MOVE - Move the position of a policy
- FILTERS - Edit content filters
- CLEAR - Clear all policies
[]>
```

Next, create three new content filters to be used in the Incoming Mail Overview policy table.

In the CLI, the filters subcommand of the policyconfig command is the equivalent of the Incoming Content Filters GUI page. When you create content filters in the CLI, you must use the save subcommand to save the filter and return to the policyconfig command.

First, create the scan_for_confidential content filter:

Creating the scan_for_confidential Content Filter

```
Incoming Mail Policy Configuration
```

Name:	Anti-Spam:	Anti-Virus:	Advanced Malware Protection:	Graymail:	Content Filter:	Outbreak Filters:
sales_team	IronPort	Default	Default	Default	Default	Default
engineering	Default	Default	Default	Default	Default	Enabled
DEFAULT	Ironport	Mcafee	N/A	Off	Off	Enabled

```
Choose the operation you want to perform:
```

```
- NEW - Create a new policy
- EDIT - Edit an existing policy
- DELETE - Remove a policy
- PRINT - Print all policies
- SEARCH - Search for a policy by member
- MOVE - Move the position of a policy
- FILTERS - Edit content filters
- CLEAR - Clear all policies
[]> filters
No filters defined.
Choose the operation you want to perform:
- NEW - Create a new filter
[]> new
Enter a name for this filter:
[]> scan_for_confidential
Enter a description or comment for this filter (optional):
[]> scan all incoming mail for the string 'confidential'
Filter Name:  scan_for_confidential
Conditions:
Always Run
Actions:
No actions defined yet.
Description:
scan all incoming mail for the string 'confidential'
Choose the operation you want to perform:
- RENAME - Rename this filter
- DESC - Edit filter description
- ADD - Add condition or action
[]> add
1. Condition
2. Action
[1]> 1
1. Message Body Contains
2. Only Body Contains (Attachments are not scanned)
3. Message Body Size
4. Subject Header
5. Other Header
6. Attachment Contains
7. Attachment File Type
8. Attachment Name
9. Attachment MIME Type
10. Attachment Protected
11. Attachment Unprotected
12. Attachment Corrupt
13. Envelope Recipient Address
14. Envelope Recipient in LDAP Group
15. Envelope Sender Address
16. Envelope Sender in LDAP Group
17. Reputation Score
18. Remote IP
19. DKIM authentication result
20. SPF verification result
[1]> 1
Enter regular expression or smart identifier to search message contents for:
[]> confidential
Threshold required for match:
[1]> 1
Filter Name:  scan_for_confidential
Conditions:
body-contains("confidential", 1)
Actions:
No actions defined yet.
Description:
scan all incoming mail for the string 'confidential'
```

```
Choose the operation you want to perform:
- RENAME - Rename this filter
- DESC - Edit filter description
- ADD - Add condition or action
- DELETE - Delete condition or action
[]> add
1. Condition
2. Action
[1]> 2
1. Bcc
2. Notify
3. Redirect To Alternate Email Address
4. Redirect To Alternate Host
5. Insert A Custom Header
6. Insert A Message Tag
7. Strip A Header
8. Send From Specific IP Interface
9. Drop Attachments By Content
10. Drop Attachments By Name
11. Drop Attachments By MIME Type
12. Drop Attachments By File Type
13. Drop Attachments By Size
14. Send To System Quarantine
15. Duplicate And Send To System Quarantine
16. Add Log Entry
17. Drop (Final Action)
18. Bounce (Final Action)
19. Skip Remaining Content Filters (Final Action)
20. Encrypt (Final Action)
21. Encrypt on Delivery
22. Skip Outbreak Filters check
[1]> 1
Enter the email address(es) to send the Bcc message to:
[]> hr@example.com
Do you want to edit the subject line used on the Bcc message? [N]> y
Enter the subject to use:
[$Subject]> [message matched confidential filter]
Do you want to edit the return path of the Bcc message? [N]> n
Filter Name:  scan_for_confidential
Conditions:
body-contains("confidential", 1)
Actions:
bcc ("hr@example.com", "[message matched confidential filter]")
Description:
scan all incoming mail for the string 'confidential'
Choose the operation you want to perform:
- RENAME - Rename this filter
- DESC - Edit filter description
- ADD - Add condition or action
- DELETE - Delete condition or action
- SAVE - Save filter
[]> add
1. Condition
2. Action
[1]> 2
1. Bcc
2. Notify
3. Redirect To Alternate Email Address
4. Redirect To Alternate Host
5. Insert A Custom Header
6. Insert A Message Tag
7. Strip A Header
8. Send From Specific IP Interface
9. Drop Attachments By Content
```

```
10. Drop Attachments By Name
11. Drop Attachments By MIME Type
12. Drop Attachments By File Type
13. Drop Attachments By Size
14. Send To System Quarantine
15. Duplicate And Send To System Quarantine
16. Add Log Entry
17. Drop (Final Action)
18. Bounce (Final Action)
19. Skip Remaining Content Filters (Final Action)
20. Encrypt (Final Action)
21. Encrypt on Delivery
22. Skip Outbreak Filters check
[1]> 14
1. Policy
[1]> 1
Filter Name:  scan_for_confidential
Conditions:
body-contains("confidential", 1)
Actions:
bcc ("hr@example.com", "[message matched confidential filter]")
quarantine ("Policy")
Description:
scan all incoming mail for the string 'confidential'
Choose the operation you want to perform:
- RENAME - Rename this filter
- DESC - Edit filter description
- ADD - Add condition or action
- DELETE - Delete condition or action
- MOVE - Reorder the conditions or actions
- SAVE - Save filter
[]> save
Defined filters:
1. scan_for_confidential: scan all incoming mail for the string 'confidential'
Choose the operation you want to perform:
- NEW - Create a new filter
- EDIT - Edit an existing filter
- DELETE - Delete a filter
- PRINT - Print all filters
- RENAME - Rename a filter
[]>
```

Creating the no_mp3s and ex_employee Content Filters

```
Choose the operation you want to perform:
- NEW - Create a new filter
- EDIT - Edit an existing filter
- DELETE - Delete a filter
- PRINT - Print all filters
- RENAME - Rename a filter
[]> new
Enter a name for this filter:
[]> no_mp3s
Enter a description or comment for this filter (optional):
[]> strip all MP3 attachments
Filter Name:  no_mp3s
Conditions:
Always Run
Actions:
No actions defined yet.
Description:
strip all MP3 attachments
Choose the operation you want to perform:
```

```
- RENAME - Rename this filter
- DESC - Edit filter description
- ADD - Add condition or action
[]> add
1. Condition
2. Action
[1]> 2
1. Bcc
2. Notify
3. Redirect To Alternate Email Address
4. Redirect To Alternate Host
5. Insert A Custom Header
6. Insert A Message Tag
7. Strip A Header
8. Send From Specific IP Interface
9. Drop Attachments By Content
10. Drop Attachments By Name
11. Drop Attachments By MIME Type
12. Drop Attachments By File Type
13. Drop Attachments By Size
14. Send To System Quarantine
15. Duplicate And Send To System Quarantine
16. Add Log Entry
17. Drop (Final Action)
18. Bounce (Final Action)
19. Skip Remaining Content Filters (Final Action)
20. Encrypt (Final Action)
21. Encrypt on Delivery
22. Skip Outbreak Filters check
[1]> 12
Enter the file type to strip:
[]> mp3
Do you want to enter specific text to use in place of any stripped attachments?[N]> n
Filter Name:  no_mp3s
Conditions:
Always Run
Actions:
drop-attachments-by-filetype("mp3")
Description:
strip all MP3 attachments
Choose the operation you want to perform:
- RENAME - Rename this filter
- DESC - Edit filter description
- ADD - Add condition or action
- SAVE - Save filter
[]> save
Defined filters:
1. scan_for_confidential: scan all incoming mail for the string 'confidential'
2. no_mp3s: strip all MP3 attachments
Choose the operation you want to perform:
- NEW - Create a new filter
- EDIT - Edit an existing filter
- DELETE - Delete a filter
- PRINT - Print all filters
- MOVE - Reorder a filter
- RENAME - Rename a filter
[]> new
Enter a name for this filter:
[]> ex_employee
Enter a description or comment for this filter (optional):
[]> bounce messages intended for Doug
Filter Name:  ex_employee
Conditions:
Always Run
```

```
Actions:
No actions defined yet.
Description:
bounce messages intended for Doug
Choose the operation you want to perform:
- RENAME - Rename this filter
- DESC - Edit filter description
- ADD - Add condition or action
[]> add
1. Condition
2. Action
[1]> 1
1. Message Body Contains
2. Only Body Contains (Attachments are not scanned)
3. Message Body Size
4. Subject Header
5. Other Header
6. Attachment Contains
7. Attachment File Type
8. Attachment File Hash
9. Attachment Name
10. Attachment MIME Type
11. Attachment Protected
12. Attachment Unprotected
13. Attachment Corrupt
14. Envelope Recipient Address
15. Envelope Recipient in LDAP Group
16. Envelope Sender Address
17. Envelope Sender in LDAP Group
18. Reputation Score
19. Remote IP
20. DKIM authentication result
21 SPF verification result
[1]> 13
Enter regular expression to search Recipient address for:
[]> doug
Filter Name:  ex_employee
Conditions:
rcpt-to == "doug"
Actions:
No actions defined yet.
Description:
bounce messages intended for Doug
Choose the operation you want to perform:
- RENAME - Rename this filter
- DESC - Edit filter description
- ADD - Add condition or action
- DELETE - Delete condition or action
[]> add
1. Condition
2. Action
[1]> 2
1. Bcc
2. Notify
3. Redirect To Alternate Email Address
4. Redirect To Alternate Host
5. Insert A Custom Header
6. Insert A Message Tag
7. Strip A Header
8. Send From Specific IP Interface
9. Drop Attachments By Content
10. Drop Attachments By Name
11. Drop Attachments By MIME Type
12. Drop Attachments By File Type
```

```
13. Drop Attachments By Size
14. Drop Attachments By Hash
15. Send To System Quarantine
16. Duplicate And Send To System Quarantine
17. Add Log Entry
18. Drop (Final Action)
19. Bounce (Final Action)
20. Skip Remaining Content Filters (Final Action)
21. Encrypt (Final Action)
22. Encrypt on Delivery
23. Skip Outbreak Filters check
[1]> 2
Enter the email address(es) to send the notification to:
[]> joe@example.com
Do you want to edit the subject line used on the notification? [N]> y
Enter the subject to use:
[]> message bounced for ex-employee of example.com
Do you want to edit the return path of the notification? [N]> n
Do you want to include a copy of the original message as an attachment to the
notification? [N]> y
Filter Name:  ex_employee
Conditions:
rcpt-to == "doug"
Actions:
notify-copy ("joe@example.com", "message bounced for ex-employee of
example.com")
Description:
bounce messages intended for Doug
Choose the operation you want to perform:
- RENAME - Rename this filter
- DESC - Edit filter description
- ADD - Add condition or action
- DELETE - Delete condition or action
- SAVE - Save filter
[]> add
1. Condition
2. Action
[1]> 2
1. Bcc
2. Notify
3. Redirect To Alternate Email Address
4. Redirect To Alternate Host
5. Insert A Custom Header
6. Insert A Message Tag
7. Strip A Header
8. Send From Specific IP Interface
9. Drop Attachments By Content
10. Drop Attachments By Name
11. Drop Attachments By MIME Type
12. Drop Attachments By File Type
13. Drop Attachments By Size
14. Drop Attachments By Hash
15. Send To System Quarantine
16. Duplicate And Send To System Quarantine
17. Add Log Entry
18. Drop (Final Action)
19. Bounce (Final Action)
20. Skip Remaining Content Filters (Final Action)
21. Encrypt (Final Action)
22. Encrypt on Delivery
23. Skip Outbreak Filters check
[1]> 18
Filter Name:  ex_employee
Conditions:
```

```
rcpt-to == "doug"
Actions:
notify-copy ("joe@example.com", "message bounced for ex-employee of
example.com")
bounce()
Description:
bounce messages intended for Doug
Choose the operation you want to perform:
- RENAME - Rename this filter
- DESC - Edit filter description
- ADD - Add condition or action
- DELETE - Delete condition or action
- SAVE - Save filter
[]> save
Defined filters:
1. scan_for_confidential: scan all incoming mail for the string 'confidential'
2. no_mp3s: strip all MP3 attachments
3. ex_employee: bounce messages intended for Doug
Choose the operation you want to perform:
- NEW - Create a new filter
- EDIT - Edit an existing filter
- DELETE - Delete a filter
- PRINT - Print all filters
- MOVE - Reorder a filter
- RENAME - Rename a filter
[]>
Incoming Mail Policy Configuration
```

Name:	Anti-Spam:	Anti-Virus:	Advanced Malware Protection:	Graymail:	Content Filter:	Outbreak Filters:
sales_team	IronPort	Default	Default	Default	Default	Default
engineering	Default	Default	Default	Default	Default	Enabled
DEFAULT	Ironport	Mcafee	N/A	Off	Off	Enabled

```
Choose the operation you want to perform:
- NEW - Create a new policy
- EDIT - Edit an existing policy
- DELETE - Remove a policy
- PRINT - Print all policies
- SEARCH - Search for a policy by member
- MOVE - Move the position of a policy
- FILTERS - Edit content filters
- CLEAR - Clear all policies
[]>
```

Enabling Content Filters for Specific Policies

The following illustrates how to enable the policies once again to enable the content filters for some policies, but not for others.

```
Incoming Mail Policy Configuration
```

Name:	Anti-Spam:	Anti-Virus:	Advanced Malware Protection:	Graymail:	Content Filter:	Outbreak Filters:
sales_team	IronPort	Default	Default	Default	Default	Default
engineering	Default	Default	Default	Default	Default	Enabled
DEFAULT	Ironport	Mcafee	N/A	Off	Off	Enabled

```
Choose the operation you want to perform:
- NEW - Create a new policy
- EDIT - Edit an existing policy
- DELETE - Remove a policy
- PRINT - Print all policies
- SEARCH - Search for a policy by member
- MOVE - Move the position of a policy
- FILTERS - Edit content filters
- CLEAR - Clear all policies
[]> edit
```

	Name:	Anti-Spam:	Anti-Virus:	Advanced Malware Protection:	Graymail:	Content Filter:	Outbreak Filters:
1.	sales_team	IronPort	Default	Default	Default	Default	Default
2.	engineering	Default	Default	Default	Default	Default	Enabled
3.	DEFAULT	Ironport	Mcafee	N/A	Off	Off	Enabled

```
Enter the name or number of the entry you wish to edit:
[]> 3
Policy Summaries:
Anti-Spam: IronPort - Drop
Suspect-Spam: IronPort - Quarantine - Archiving copies of the original message.
Anti-Virus: McAfee - Scan and Clean
Graymail Detection:  Unsubscribe - Disabled
Content Filters: Off
Outbreak Filters: Enabled. No bypass extensions.
Choose the operation you want to perform:
- ANTISPAM - Modify Anti-Spam policy
- ANTIVIRUS - Modify Anti-Virus policy
- GRAYMAIL - Modify Graymail policy
- OUTBREAK - Modify Outbreak Filters policy
- FILTERS - Modify filters
[]> filters
Choose the operation you want to perform:
- ENABLE - Enable Content Filters policy
[]> enable
1.        scan_for_confidential
2.        no_mp3s
3.        ex_employee
```

```
Enter the filter to toggle on/off, or press enter to finish:
[]> 1
1. Active scan_for_confidential
2.        no_mp3s
3.        ex_employee
Enter the filter to toggle on/off, or press enter to finish:
[]> 2
1. Active scan_for_confidential
2. Active no_mp3s
3.        ex_employee
Enter the filter to toggle on/off, or press enter to finish:
[]> 3
1. Active scan_for_confidential
2. Active no_mp3s
3. Active ex_employee
Enter the filter to toggle on/off, or press enter to finish:
[]>
Policy Summaries:
Anti-Spam: IronPort - Drop
Suspect-Spam: IronPort - Quarantine - Archiving copies of the original message.
Anti-Virus: McAfee - Scan and Clean
Graymail Detection:  Unsubscribe - Disabled
Content Filters: Enabled. Filters: scan_for_confidential, no_mp3s, ex_employee
Outbreak Filters: Enabled. No bypass extensions.
Choose the operation you want to perform:
- ANTISPAM - Modify Anti-Spam policy
- ANTIVIRUS - Modify Anti-Virus policy
- GRAYMAIL - Modify Graymail policy
- OUTBREAK - Modify Outbreak Filters policy
- FILTERS - Modify filters
[]>
Incoming Mail Policy Configuration
```

Name:	Anti-Spam:	Anti-Virus:	Advanced Malware Protection:	Graymail:	Content Filter:	Outbreak Filters:
sales_team	IronPort	Default	Default	Default	Default	Default
engineering	Default	Default	Default	Default	Default	Enabled
DEFAULT	Ironport	Mcafee	N/A	Off	Enabled	Enabled

```
Choose the operation you want to perform:
- NEW - Create a new policy
- EDIT - Edit an existing policy
- DELETE - Remove a policy
- PRINT - Print all policies
- SEARCH - Search for a policy by member
- MOVE - Move the position of a policy
- FILTERS - Edit content filters
- CLEAR - Clear all policies
[]> edit
```

	Name:	Anti-Spam:	Anti-Virus:	Advanced Malware Protection:	Graymail:	Content Filter:	Outbreak Filters:

1.	sales_team	IronPort	Default	Default	Default	Default	Default
2.	engineering	Default	Default	Default	Default	Default	Enabled
3.	DEFAULT	Ironport	Mcafee	N/A	Off	Off	Enabled

```
Enter the name or number of the entry you wish to edit:
[]> 2
Policy Summaries:
Anti-Spam: Default
Anti-Virus: Default
Graymail Detection:  Unsubscribe - Default
Content Filters: Default
Outbreak Filters: Enabled. Bypass extensions: dwg
Choose the operation you want to perform:
- NAME - Change name of policy
- NEW - Add a new member
- DELETE - Remove a member
- PRINT - Print policy members
- ANTISPAM - Modify Anti-Spam policy
- ANTIVIRUS - Modify Anti-Virus policy
- GRAYMAIL - Modify Graymail policy
- OUTBREAK - Modify Outbreak Filters policy
- FILTERS - Modify filters
[]> filters
Choose the operation you want to perform:
- DISABLE - Disable Content Filters policy (Disables all policy-related
actions)
- ENABLE - Enable Content Filters policy
[]> enable
1.        scan_for_confidential
2.        no_mp3s
3.        ex_employee
Enter the filter to toggle on/off, or press enter to finish:
[]> 1
1. Active scan_for_confidential
2.        no_mp3s
3.        ex_employee
Enter the filter to toggle on/off, or press enter to finish:
[]> 3
1. Active scan_for_confidential
2.        no_mp3s
3. Active ex_employee
Enter the filter to toggle on/off, or press enter to finish:
[]>
Policy Summaries:
Anti-Spam: Default
Anti-Virus: Default
Graymail Detection:  Unsubscribe - Default
Content Filters: Enabled. Filters: scan_for_confidential, ex_employee
Outbreak Filters: Enabled. Bypass extensions: dwg
Choose the operation you want to perform:
- NAME - Change name of policy
- NEW - Add a new member
- DELETE - Remove a member
- PRINT - Print policy members
- ANTISPAM - Modify Anti-Spam policy
- ANTIVIRUS - Modify Anti-Virus policy
- GRAYMAIL - Modify Graymail policy
- OUTBREAK - Modify Outbreak Filters policy
```

```
- FILTERS - Modify filters
[]>
Incoming Mail Policy Configuration
```

Name:	Anti-Spam:	Anti-Virus:	Advanced Malware Protection:	Graymail:	Content Filter:	Outbreak Filters:
sales_team	IronPort	Default	Default	Default	Default	Default
engineering	Default	Default	Default	Default	Enabled	Enabled
DEFAULT	Ironport	Mcafee	N/A	Off	Enabled	Enabled

```
Choose the operation you want to perform:
- NEW - Create a new policy
- EDIT - Edit an existing policy
- DELETE - Remove a policy
- PRINT - Print all policies
- SEARCH - Search for a policy by member
- MOVE - Move the position of a policy
- FILTERS - Edit content filters
- CLEAR - Clear all policies
[]>
```

Note The CLI does not contain the notion of adding a new content filter within an individual policy. Rather, the filters subcommand forces you to manage all content filters from within one subsection of the policyconfig command. For that reason, adding the drop_large_attachments has been omitted from this example.

Configuring Threat Defense Connector for Individual Mail Policies

Prerequisite: You must have enabled Threat Defense Connector in your Secure Email Gateway before enabling it for individual mail policies. See Integrating Email Cloud Gateway with Cisco Secure Email Threat Defense, on page 402 for more information.

The following example illustrates how to configure Threat Defense Connector for each incoming mail policy. You can enable, use the global message intake address, use a custom message intake address (with the same domain as that of the global message intake address), or disable Threat Defense Connector for individual mail policies.

Enabling Threat Defense Connector for an incoming mail policy

```
Incoming Mail Policy Configuration
```

Name:	Anti-Spam:	Anti-Virus:	Advanced Malware Protection:	Graymail:	Content Filter:	Outbreak Filters:	Advanced Phishing Protection:	Threat Defense Connector:
sales_team	IronPort	Default	Default	Default	Default	Default	N/A	Default

engineering	Default	Default	Default	Default	Default	Enabled	N/A	Default
DEFAULT	Ironport	Mcafee	N/A	Off	Off	Enabled	N/A	Off

```
Choose the operation you want to perform:
- NEW - Create a new policy
- EDIT - Edit an existing policy
- DELETE - Remove a policy
- PRINT - Print all policies
- SEARCH - Search for a policy by member
- MOVE - Move the position of a policy
- FILTERS - Edit content filters
- CLEAR - Clear all policies
[]> edit
```

Name:	Anti-Spam:	Anti-Virus:	Advanced Malware Protection:	Graymail:	Content Filter:	Outbreak Filters:	Advanced Phishing Protection:	Threat Defense Connector:
sales_team	IronPort	Default	Default	Default	Default	Default	N/A	Default
engineering	Default	Default	Default	Default	Default	Enabled	N/A	Default
DEFAULT	Ironport	Mcafee	N/A	Off	Off	Enabled	N/A	Off

```
Enter the name or number of the entry you wish to edit:
[]> 3
Policy Summaries:

Anti-Spam: Off
Anti-Virus: Off
Advanced Malware Protection: Off
Graymail Detection: Off
Content Filters: Off (No content filters have been created)
Outbreak Filters: Off
Threat Defense Connector: Off

Choose the operation you want to perform:
- ANTISPAM - Modify Anti-Spam policy
- ANTIVIRUS - Modify Anti-Virus policy
- OUTBREAK - Modify Outbreak Filters policy
- ADVANCEDMALWARE - Modify Advanced Malware Protection policy
- GRAYMAIL - Modify Graymail policy
- THREATDEFENSECONNECTOR - Modify Threat Defense Connector
- FILTERS - Modify filters
[]> threatdefenseconnector

Choose the operation you want to perform:
- ENABLE - Enable Threat Defense Connector policy
[]> enable

1. Use Global Settings (asd@asd1.co)
2. Use Custom Message Intake Address
Select the message intake address that you want to use for this mail policy.
```

```
[1]> 1

Policy Summaries:

Anti-Spam: Off
Anti-Virus: Off
Advanced Malware Protection: Off
Graymail Detection: Off
Content Filters: Off (No content filters have been created)
Outbreak Filters: Off
Threat Defense Connector: Enabled

Choose the operation you want to perform:
- ANTISPAM - Modify Anti-Spam policy
- ANTIVIRUS - Modify Anti-Virus policy
- OUTBREAK - Modify Outbreak Filters policy
- ADVANCEDMALWARE - Modify Advanced Malware Protection policy
- GRAYMAIL - Modify Graymail policy
- THREATDEFENSECONNECTOR - Modify Threat Defense Connector
- FILTERS - Modify filters
[]>
```

Name:	Anti-Spam:	Anti-Virus:	Advanced Malware Protection:	Graymail:	Content Filter:	Outbreak Filters:	Advanced Phishing Protection:	Threat Defense Connector:
sales_team	IronPort	Default	Default	Default	Default	Default	N/A	Default
engineering	Default	Default	Default	Default	Default	Enabled	N/A	Default
DEFAULT	Ironport	Mcafee	N/A	Off	Off	Enabled	N/A	Enabled

Configuring custom message intake address for an incoming mail policy

Name:	Anti-Spam:	Anti-Virus:	Advanced Malware Protection:	Graymail:	Content Filter:	Outbreak Filters:	Advanced Phishing Protection:	Threat Defense Connector:
sales_team	IronPort	Default	Default	Default	Default	Default	N/A	Default
engineering	Default	Default	Default	Default	Default	Enabled	N/A	Default
DEFAULT	Ironport	Mcafee	N/A	Off	Off	Enabled	N/A	Enabled

```
Choose the operation you want to perform:
- NEW - Create a new policy
- EDIT - Edit an existing policy
- DELETE - Remove a policy
- PRINT - Print all policies
- SEARCH - Search for a policy by member
- MOVE - Move the position of a policy
- FILTERS - Edit content filters
```

```
- CLEAR - Clear all policies
[]> edit
```

Name:	Anti-Spam:	Anti-Virus:	Advanced Malware Protection:	Graymail:	Content Filter:	Outbreak Filters:	Advanced Phishing Protection:	Threat Defense Connector:
sales_team	IronPort	Default	Default	Default	Default	Default	N/A	Default
engineering	Default	Default	Default	Default	Default	Enabled	N/A	Default
DEFAULT	Ironport	Mcafee	N/A	Off	Off	Enabled	N/A	Enabled

```
Enter the name or number of the entry you wish to edit:
[]> 2

Policy Summaries:

Anti-Spam: Default
Anti-Virus: Default
Advanced Malware Protection: Default
Graymail Detection: Default
Content Filters: Default (No content filters have been created)
Outbreak Filters: Default
Threat Defense Connector: Default

Choose the operation you want to perform:
- NAME - Change name of policy
- NEW - Add a new policy member row
- DELETE - Remove a policy member row
- PRINT - Print policy member rows
- ANTISPAM - Modify Anti-Spam policy
- ANTIVIRUS - Modify Anti-Virus policy
- OUTBREAK - Modify Outbreak Filters policy
- ADVANCEDMALWARE - Modify Advanced Malware Protection policy
- GRAYMAIL - Modify Graymail policy
- THREATDEFENSECONNECTOR - Modify Threat Defense Connector
- FILTERS - Modify filters
[]> threatdefenseconnector


Choose the operation you want to perform:
- DISABLE - Disable Threat Defense Connector policy (Disables all policy-related actions)
- ENABLE - Enable Threat Defense Connector policy
[]> enable

Enter the custom message intake address:
[None]> asdco@asd1.co

Policy Summaries:

Anti-Spam: Default
Anti-Virus: Default
Advanced Malware Protection: Default
Graymail Detection: Default
Content Filters: Default (No content filters have been created)
Outbreak Filters: Default
Threat Defense Connector: Enabled
```

```
Choose the operation you want to perform:
- NAME - Change name of policy
- NEW - Add a new policy member row
- DELETE - Remove a policy member row
- PRINT - Print policy member rows
- ANTISPAM - Modify Anti-Spam policy
- ANTIVIRUS - Modify Anti-Virus policy
- OUTBREAK - Modify Outbreak Filters policy
- ADVANCEDMALWARE - Modify Advanced Malware Protection policy
- GRAYMAIL - Modify Graymail policy
- THREATDEFENSECONNECTOR - Modify Threat Defense Connector
- FILTERS - Modify filters
[]>
```

Name:	Anti-Spam:	Anti-Virus:	Advanced Malware Protection:	Graymail:	Content Filter:	Outbreak Filters:	Advanced Phishing Protection:	Threat Defense Connector:
sales_team	IronPort	Default	Default	Default	Default	Default	N/A	Default
engineering	Default	Default	Default	Default	Default	Enabled	N/A	Enabled
DEFAULT	Ironport	Mcafee	N/A	Off	Off	Enabled	N/A	Enabled

Disabling Threat Defense Connector for an incoming mail policy

Name:	Anti-Spam:	Anti-Virus:	Advanced Malware Protection:	Graymail:	Content Filter:	Outbreak Filters:	Advanced Phishing Protection:	Threat Defense Connector:
sales_team	IronPort	Default	Default	Default	Default	Default	N/A	Default
engineering	Default	Default	Default	Default	Default	Enabled	N/A	Enabled
DEFAULT	Ironport	Mcafee	N/A	Off	Off	Enabled	N/A	Enabled

```
Enter the name or number of the entry you wish to edit:
[]> 1

Policy Summaries:

Anti-Spam: Default
Anti-Virus: Default
Advanced Malware Protection: Default
Graymail Detection: Default
Content Filters: Default (No content filters have been created)
Outbreak Filters: Default
Threat Defense Connector: Default

Choose the operation you want to perform:
- NAME - Change name of policy
- NEW - Add a new policy member row
- DELETE - Remove a policy member row
- PRINT - Print policy member rows
```

```
- ANTISPAM - Modify Anti-Spam policy
- ANTIVIRUS - Modify Anti-Virus policy
- OUTBREAK - Modify Outbreak Filters policy
- ADVANCEDMALWARE - Modify Advanced Malware Protection policy
- GRAYMAIL - Modify Graymail policy
- THREATDEFENSECONNECTOR - Modify Threat Defense Connector
- FILTERS - Modify filters
[]> threatdefenseconnector


Choose the operation you want to perform:
- DISABLE - Disable Threat Defense Connector policy (Disables all policy-related actions)
- ENABLE - Enable Threat Defense Connector policy
[]> disable

Policy Summaries:

Anti-Spam: Default
Anti-Virus: Default
Advanced Malware Protection: Default
Graymail Detection: Default
Content Filters: Default (No content filters have been created)
Outbreak Filters: Default
Threat Defense Connector: Off

Choose the operation you want to perform:
- NAME - Change name of policy
- NEW - Add a new policy member row
- DELETE - Remove a policy member row
- PRINT - Print policy member rows
- ANTISPAM - Modify Anti-Spam policy
- ANTIVIRUS - Modify Anti-Virus policy
- OUTBREAK - Modify Outbreak Filters policy
- ADVANCEDMALWARE - Modify Advanced Malware Protection policy
- GRAYMAIL - Modify Graymail policy
- THREATDEFENSECONNECTOR - Modify Threat Defense Connector
- FILTERS - Modify filters
[]>
```

Name:	Anti-Spam:	Anti-Virus:	Advanced Malware Protection:	Graymail:	Content Filter:	Outbreak Filters:	Advanced Phishing Protection:	Threat Defense Connector:
sales_team	IronPort	Default	Default	Default	Default	Default	N/A	Off
engineering	Default	Default	Default	Default	Default	Enabled	N/A	Enabled
DEFAULT	Ironport	Mcafee	N/A	Off	Off	Enabled	N/A	Enabled

DLP Policies for Default Outgoing Policy

This illustrates how to enable DLP policies on the default outgoing policy.

```
mail3.example.com> policyconfig
Would you like to configure Incoming or Outgoing Mail Policies?
1. Incoming
2. Outgoing
```

```
[1]> 2
Outgoing Mail Policy Configuration
```

Name:	Anti-Spam:	Anti-Virus:	Advanced Malware Protection:	Graymail:	Content Filter:	Outbreak Filters:	DLP:
DEFAULT	N/A	N/A	N/A	Off	Off	Off	Off

```
Choose the operation you want to perform:
- NEW - Create a new policy
- EDIT - Edit an existing policy
- PRINT - Print all policies
- FILTERS - Edit content filters
[]> edit
```

	Name:	Anti-Spam:	Anti-Virus:	Advanced Malware Protection:	Graymail:	Content Filter:	Outbreak Filters:	DLP:
1.	DEFAULT	N/A	N/A	N/A	Off	Off	Off	Off

```
Enter the name or number of the entry you wish to edit:
[]> 1
Policy Summaries:
Anti-Spam: Off
Anti-Virus: Off
Graymail Detection:  Unsubscribe - Disabled
Content Filters: Off (No content filters have been created)
Outbreak Filters: Off
DLP: Off
Choose the operation you want to perform:
- ANTISPAM - Modify Anti-Spam policy
- ANTIVIRUS - Modify Anti-Virus policy
- GRAYMAIL - Modify Graymail policy
- OUTBREAK - Modify Outbreak Filters policy
- DLP - Modify DLP policy
[]> dlp
Choose the operation you want to perform:
- ENABLE - Enable DLP policy
[]> enable
1.        California AB-1298
2.        Suspicious Transmission - Zip Files
3.        Restricted Files
Enter the policy to toggle on/off, or press enter to finish:
[]> 1
1. Active California AB-1298
2. Suspicious Transmission - Zip Files
3. Restricted Files
Enter the policy to toggle on/off, or press enter to finish:
[]> 2
1. Active California AB-1298
2. Active Suspicious Transmission - Zip Files
3.        Restricted Files
Enter the policy to toggle on/off, or press enter to finish:
[]> 3
1. Active California AB-1298
2. Active Suspicious Transmission - Zip Files
```

```
3. Active Restricted Files
Enter the policy to toggle on/off, or press enter to finish:
[]>
Policy Summaries:
Anti-Spam: Off
Anti-Virus: Off
Graymail Detection:  Unsubscribe - Disabled
Content Filters: Off (No content filters have been created)
Outbreak Filters: Off
DLP: Enabled. Policies: California AB-1298, Suspicious Transmission - Zip
Files, Restricted Files
Choose the operation you want to perform:
- ANTISPAM - Modify Anti-Spam policy
- ANTIVIRUS - Modify Anti-Virus policy
- GRAYMAIL - Modify Graymail policy
- OUTBREAK - Modify Outbreak Filters policy
- DLP - Modify DLP policy
[]>
```

Create an Incoming Policy to Drop the Messages Identified as Bulk Email or Social Network Email

```
mail.example.com> policyconfig
Would you like to configure Incoming or Outgoing Mail Policies?
1. Incoming
2. Outgoing
[1]> 1
Incoming Mail Policy Configuration
```

Name:	Anti-Spam:	Anti-Virus:	Advanced Malware Protection:	Graymail:	Content Filter:	Outbreak Filters:
DEFAULT	Off	N/A	N/A	Off	Off	N/A

```
Choose the operation you want to perform:
- NEW - Create a new policy
- EDIT - Edit an existing policy
- PRINT - Print all policies
- FILTERS - Edit content filters
[]> edit
```

	Name:	Anti-Spam:	Anti-Virus:	Advanced Malware Protection:	Graymail:	Content Filter:	Outbreak Filters:
1.	DEFAULT	Off	N/A	N/A	Off	Off	N/A

```
Enter the name or number of the entry you wish to edit:
[]> 1
Policy Summaries:
Anti-Spam: Off
Graymail Detection: Off
Content Filters: Off (No content filters have been created)
Choose the operation you want to perform:
- ANTISPAM - Modify Anti-Spam policy
- GRAYMAIL - Modify Graymail policy
- FILTERS - Modify filters
```

```
[]> graymail
Choose the operation you want to perform:
- ENABLE - Enable Graymail policy
[]> enable
Begin Graymail configuration
Do you want to enable Safe Unsubscribe? [N]> y
Do you want to perform Safe Unsubscribe action only for unsigned messages (recommended)?
[Y]>
Do you want to enable actions on messages identified as Marketing Email? [N]>
Do you want to enable actions on messages identified as Social Networking Email? [N]> y
1. DELIVER
2. DROP
3. BOUNCE
What do you want to do with messages identified as Social Networking Email?
[1]> 2
Do you want to archive messages identified as Social Networking Email? [N]>
Do you want to enable actions on messages identified as Bulk Email? [N]> y
1. DELIVER
2. DROP
3. BOUNCE
What do you want to do with messages identified as Bulk Email?
[1]> 2
Do you want to archive messages identified as Bulk Email? [N]>
Graymail configuration complete.
Policy Summaries:
Anti-Spam: Off
Graymail Detection:  Unsubscribe - Enabled
    Social Networking mails : Drop
    Bulk mails : Drop
Content Filters: Off (No content filters have been created)
Choose the operation you want to perform:
- ANTISPAM - Modify Anti-Spam policy
- GRAYMAIL - Modify Graymail policy
- FILTERS - Modify filters
[]>
```

Configure an Incoming Policy to Handle Messages Marked as Unscannable by AMP Engine

```
mail.example.com> policyconfig
Would you like to configure Incoming or Outgoing Mail Policies?
1. Incoming
2. Outgoing
[1]> 1
Incoming Mail Policy Configuration
```

Name:	Anti-Spam:	Anti-Virus:	Advanced Malware Protection:	Graymail:	Content Filter:	Outbreak Filters:
DEFAULT	Off	N/A	N/A	Off	Off	N/A

```
Choose the operation you want to perform:
- NEW - Create a new policy
- EDIT - Edit an existing policy
- PRINT - Print all policies
- FILTERS - Edit content filters
[]> edit
```

	Name:	Anti-Spam:	Anti-Virus:	Advanced Malware Protection:	Graymail:	Content Filter:	Outbreak Filters:
1.	DEFAULT	Off	N/A	N/A	Off	Off	N/A

```
Enter the name or number of the entry you wish to edit:
[]> 1
Policy Summaries:
Advanced Malware Protection: Malware Action - drop , Message Error Unscannable Action -
deliver , Rate Limit Unscannable Action - deliver , AMP Service Not
Available Unscannable Action - deliver , File Analysis Action - Deliver , Mailbox Auto
Remediation (MAR) - Disabled
Content Filters: Off
Outbreak Filters: Off

Choose the operation you want to perform:
- OUTBREAK - Modify Outbreak Filters policy
- ADVANCEDMALWARE - Modify Advanced Malware Protection policy
- FILTERS - Modify filters
[]> advancedmalware

Choose the operation you want to perform:
- EDIT - Edit Advanced-Malware protection policy
- DISABLE - Disable Advanced-Malware protection policy (Disables all policy-related actions)
[]> edit

Begin AMP configuration

Do you want to enable File Analysis? [Y]>

Do you like the system to automatically insert an X-header with the anti-malware scanning
results? (Recommended for trouble-shooting) [Y]>

Unscannable Message Handling

Current actions to take if any of the attachments could not be scanned due to message errors:

 - WARNING:  Delivering Unscannable due to Message Errors messages normally
 - Prepending subjects with "[WARNING: ATTACHMENT UNSCANNED]"
 - Archiving copies of the original message.
Do you want to edit the actions for Unscannable Message due to message errors? [N]> yes

Current actions to take if any of the attachments could not be scanned due to rate limit
hit:
 - WARNING:  Delivering Unscannable due to Rate Limit messages normally
 - Prepending subjects with "[WARNING: ATTACHMENT UNSCANNED]"
 - Archiving copies of the original message.
Do you want to edit the actions for Unscannable Message due to rate limit hit? [N]> yes

Current actions to take if any of the attachments could not be scanned due to AMP Service
not available:
 - WARNING:  Delivering Unscannable due to AMP Service Not Available messages normally
 - Prepending subjects with "[WARNING: ATTACHMENT UNSCANNED]"
 - Archiving copies of the original message.
Do you want to edit the actions for Unscannable Message due to AMP Service not available?
[N]> yes
```

Example: Setting Priority for “From” Header

In the following example, the `policyconfig > match headers` priority sub command is used to set the priority for the “From” message header, to match the incoming and outgoing messages in your email gateway.

```
mail1.example.com > policyconfig

Would you like to configure Incoming Mail Policy or Outgoing Mail Policies or
Match Headers Priority?

1. Incoming Mail Policies
2. Outgoing Mail Policies
3. Match Headers Priority
[1]> 3

Match Headers Priority Configuration
Priority:    Headers:
---------    ---------
P1           Envelope Sender

Choose the operation you want to perform:
- ADD - Add match priority for headers
- EDIT - Edit an existing match priority for headers
- REMOVE - Remove an existing match priority for headers
[]> add

Choose headers for priority 2
Add header "From" Header:
1. Yes
2. No
[1]> 1

Add header "Reply-To" Header:
1. Yes
2. No
[1]> 2

Add header "Sender" Header:
1. Yes
2. No
[1]> 2

Match Headers Priority Configuration
Priority:    Headers:
---------    ---------
P1           Envelope Sender
P2           "From" Header
```

Modify Incoming Policy to Enable Forwarding of Message Metadata to the Cisco Advanced Phishing Protection Cloud Service

In the following example, you can create an incoming mail policy to enable forwarding of metadata of messages to the Cisco Advanced Phishing Protection cloud service.

```
mail.example.com> policyconfig

Would you like to configure Incoming Mail Policy or Outgoing Mail Policies or
Match Headers Priority?

1. Incoming Mail Policies
2. Outgoing Mail Policies
3. Match Headers Priority

[1]> 1
```

```
Incoming Mail Policy Configuration
```

Name:	Anti-Spam:	Anti-Virus:	Advanced Malware Protection:	Graymail:	Content Filter:	Outbreak Filters:	Advanced Phishing Protection:
DEFAULT	Ironport	Mcafee	N/A	Off	Off	Enabled	Off

```
Choose the operation you want to perform:

- NEW - Create a new policy
- EDIT - Edit an existing policy
- PRINT - Print all policies
- FILTERS - Edit content filters

[]> edit
```

Name:	Anti-Spam:	Anti-Virus:	Advanced Malware Protection:	Graymail:	Content Filter:	Outbreak Filters:	Advanced Phishing Protection:
DEFAULT	Ironport	Mcafee	N/A	Off	Off	Enabled	Off

```
Enter the name or number of the entry you wish to edit:[]> 1

Policy Summaries:

Content Filters: Off (No content filters have been created)
Advanced Phishing Protection: Off
Choose the operation you want to perform:

- ADVANCEDPHISHING - Modify Advanced Phishing Protection Policy
- FILTERS - Modify filters

[]> advancedphishing

Choose the operation you want to perform:
- ENABLE - Enable Advanced Phishing Protection Policy

[]> enable

Do you want to perform email forwarding [N]> Y

Policy Summaries:
Content Filters: Off (No content filters have been created)
Advanced Phishing Protection: Email Forwarding - enabled

Choose the operation you want to perform:
- ADVANCEDPHISHING - Modify Advanced Phishing Protection Policy
```

Modify Incoming Policy to Drop Message Attachments with File Analysis Verdict Pending

In the following example, you can modify an incoming mail policy to drop message attachments with file analysis verdict still pending.

```
mail1.example.com> policyconfig
Would you like to configure Incoming Mail Policy or Outgoing Mail Policies or Match Headers
 Priority?
1. Incoming Mail Polices
2. Outgoing Mail Policies
3. Match Headers Priority
[1]> 1
Incoming Mail Policy Configuration
```

Name:	Anti-Spam:	Anti-Virus:	Advanced Malware Protection:	Graymail:	Content Filter:	Outbreak Filters:
DEFAULT	Off	N/A	Enabled	Off	Off	N/A

```
Choose the operation you want to perform:
- NEW - Create a new policy
- EDIT - Edit an existing policy
- PRINT - Print all policies
- FILTERS - Edit content filters
[]> edit
```

	Name:	Anti-Spam:	Anti-Virus:	Advanced Malware Protection:	Graymail:	Content Filter:	Outbreak Filters:
1.	DEFAULT	Off	N/A	Enable	Off	Off	N/A

```
Enter the name or number of the entry you wish to edit:
[]> 1
Policy Summaries:
Advanced Malware Protection: Malware Action - drop , Message Error Unscannable
Action - deliver , Rate Limit Unscannable Action - deliver , AMP Service Not
Available Unscannable Action - deliver , File Analysis Action - Deliver ,
Mailbox Auto Remediation (MAR) - Disabled
Content Filters: Off (No content filters have been created)

Choose the operation you want to perform:
- ADVANCEDMALWARE - Modify Advanced Malware Protection policy
- FILTERS - Modify filters
[]> advancedmalware

Choose the operation you want to perform:
- EDIT - Edit Advanced-Malware protection policy
- DISABLE - Disable Advanced-Malware protection policy (Disables all policy-related actions)
[]> edit

Begin AMP configuration

Do you want to enable File Analysis? [Y]>

Do you like the system to automatically insert an X-header with the anti-malware scanning
results? (Recommended for trouble-shooting) [Y]>

Unscannable Message Handling

Current actions to take if any of the attachments could not be scanned due to
```

```
message errors:
 - WARNING:  Delivering Unscannable due to Message Errors messages normally
 - Prepending subjects with "[WARNING: ATTACHMENT UNSCANNED]"
 - Archiving copies of the original message.
Do you want to edit the actions for Unscannable Message due to message errors? [N]>

Current actions to take if any of the attachments could not be scanned due to
rate limit hit:
 - WARNING:  Delivering Unscannable due to Rate Limit messages normally
 - Prepending subjects with "[WARNING: ATTACHMENT UNSCANNED]"
 - Archiving copies of the original message.
Do you want to edit the actions for Unscannable Message due to rate limit hit? [N]>
Current actions to take if any of the attachments could not be scanned due to
AMP Service not available:
 - WARNING:  Delivering Unscannable due to AMP Service Not Available messages
normally
 - Prepending subjects with "[WARNING: ATTACHMENT UNSCANNED]"
 - Archiving copies of the original message.
Do you want to edit the actions for Unscannable Message due to AMP Service not
available? [N]>
Malware Infected Message Handling
Current actions to take if any of the file contains malware and cannot be
repaired:
 - Dropping Infected Messages
 - Archiving copies of the original message.
Do you want to edit the actions for Malware Infected Message Handling? [N]>

Do you want to edit the actions for Messages with File Analysis Pending? [Y]>

1. Quarantine
2. Deliver As Is
Action applied to the original message:
[2]>

Do you want to deliver mail to an alternate mailhost? [N]>

Do you want to redirect mail to an alternate email address? [N]>

Do you want to add a custom header? [N]>

Do you want to modify the subject? [Y]>

1. Prepend
2. Append
Select position of text:
[1]>

Enter the text to add:
[[WARNING: ATTACHMENT(S) MAY CONTAIN MALWARE]]>

Do you want to archive the original message? [Y]>

Do you want to drop attachments with the file analysis verdict still pending? [N]> yes
Messages with File Analysis Pending
Current actions to take if any of the attachments uploaded for file analysis :
 - WARNING:  Delivering File Analysis Pending messages normally
 - Prepending subjects with "[WARNING: ATTACHMENT(S) MAY CONTAIN MALWARE]"
 - Archiving copies of the original message.
 - Dropping Attachments with File Analysis Pending.

Mailbox Auto Remediation (MAR) - Disabled
Do you want to disable Mailbox Auto Remediation action? [N]>

Do you want to edit Mailbox Auto Remediation action? [N]>
```

```
Advanced-Malware configuration complete

Policy Summaries:

Advanced Malware Protection: Malware Action - drop , Message Error Unscannable
Action - deliver , Rate Limit Unscannable Action - deliver , AMP Service Not
Available Unscannable Action - deliver , File Analysis Action - Deliver ,
Mailbox Auto Remediation (MAR) - Disabled
Content Filters: Off (No content filters have been created)

Choose the operation you want to perform:
- ADVANCEDMALWARE - Modify Advanced Malware Protection policy
- FILTERS - Modify filters
[]>
```

Creating Content Filter Action to Add Custom Log Entry for Consolidated Event Logs

In the following example, you can use the `Add CEF Log Entry` content filter action to add a custom log entry for Consolidated Event Logs.

```
mail1.example.com> policyconfig

Would you like to configure Incoming Mail Policy or Outgoing Mail Policies or Match Headers
 Priority?
1. Incoming Mail Policies
2. Outgoing Mail Policies
3. Match Headers Priority
[1]>


Incoming Mail Policy Configuration
Name:           Anti-Spam:     Anti-Virus: Advanced Malware Protection: Graymail:
Content Filter:    Outbreak Filters:
Advanced Phishing Protection
-----           -------------  ----------- ---------------------------- -------------
-----------------  ----------------
----------------------------
DEFAULT         N/A            N/A         N/A                          N/A
Enabled            Off
N/A


Choose the operation you want to perform:
- NEW - Create a new policy
- EDIT - Edit an existing policy
- PRINT - Print all policies
- FILTERS - Edit content filters
[]> filters

Choose the operation you want to perform:
- NEW - Create a new filter
- EDIT - Edit an existing filter
- DELETE - Delete a filter
- PRINT - Print all filters
- RENAME - Rename a filter
[]> new

Enter a name for this filter:
[]> custom-headers-cel

Enter a description or comment for this filter (optional):
[]> logging custom headers to Consolidated Event Logs
```

```
Filter Name:  custom-headers-cel

Conditions:
Always Run

Actions:
No actions defined yet.

Description:
logging custom headers to Consolidated Event Logs

Choose the operation you want to perform:
- RENAME - Rename this filter
- DESC - Edit filter description
- ADD - Add condition or action
[]> add

1. Condition
2. Action
[1]> 2

1. Bcc
2. Notify
3. Redirect To Alternate Email Address
4. Redirect To Alternate Host
5. Insert A Custom Header
6. Insert A Message Tag
7. Strip A Header
8. Edit Header Text
9. FED Action
10. Add CEF Log Entry
11. Send From Specific IP Interface
12. Drop Attachments By Content
13. Drop Attachments By Name
14. Drop Attachments By MIME Type
15. Drop Attachments By File Type
16. Drop Macro-Enabled Attachments
17. Drop Attachments By Size
18. Safe Print Attachments
19. Drop Attachments By Image Analysis Verdict
20. Send To System Quarantine
21. Duplicate And Send To System Quarantine
22. Add Log Entry
23. Drop (Final Action)
24. Bounce (Final Action)
25. Skip Remaining Content Filters (Final Action)
26. Encrypt (Final Action)
27. Encrypt on Delivery
28. Skip Outbreak Filters check
29. Replace URLs within message body based on category
30. Defang URLs within message body based on category
31. Redirect URLs within message body to Cisco Security proxy
32. Redirect URLs within message body to Remote Browser Isolation
33. Strip attachments containing URLs based on category
34. Replace URLs within message body and strip attachments (optional) containing URLs based
 on reputation
35. Defang URLs within message body and strip attachments (optional) based on reputation
36. Redirect URLs within message body to Cisco Security Proxy and strip attachments (optional)
 containing URLs based on reputation
37. Redirect URLs within message body to Remote Browser Isolation and strip attachments
(optional) containing URLs based on reputation
38. Strip attachments containing URLs based on reputation
39. Skip DomainKeys/DKIM Signing
```

```
40. S/MIME Gateway sign/encrypt (Final Action)
41. S/MIME Gateway sign/encrypt on Delivery
[1]> 10

Enter a label for the CEF log entry:
[]> mylabel

Enter a value for the CEF log entry:
[]> myvalue

Filter Name:  custom-headers-cel

Conditions:
Always Run

Actions:
cef-log-entry("mylabel", "myvalue")

Description:
logging custom headers to cef log

Choose the operation you want to perform:
- RENAME - Rename this filter
- DESC - Edit filter description
- ADD - Add condition or action
- SAVE - Save filter
[]> save

Defined filters:
1. custom-headers-cel: logging custom headers to Consolidated Event Logs
```

Configuring Threat Scanner Per Policy

```
mail3.example.com> policyconfig
Would you like to configure Incoming Mail Policy or Outgoing Mail Policies or Match Headers
 Priority?
1. Incoming Mail Policies
2. Outgoing Mail Policies
3. Match Headers Priority
[1]> 1

Incoming Mail Policy Configuration

Name:           Anti-Spam:     Anti-Virus: Advanced Malware Protection: Graymail:
Content Filter:    Outbreak Filters: Advanced Phishing Protection   Threat Defense Connector:

--------------          -------------  ----------- ---------------------------- -------------
  -----------------  ----------------  ---------------------------- ------------------------

        DEFAULT         Off              N/A         N/A                            Off
       Off                N/A               N/A                              N/A


Choose the operation you want to perform:
- NEW - Create a new policy
- EDIT - Edit an existing policy
- PRINT - Print all policies
- FILTERS - Edit content filters
[]> edit

Name:           Anti-Spam:     Anti-Virus: Advanced Malware Protection: Graymail:
Content Filter:    Outbreak Filters: Advanced Phishing Protection   Threat Defense Connector:

--------------          -------------  ----------- ---------------------------- -------------
```

```
----------------  ---------------  --------------------------- ------------------------

       DEFAULT         Off              N/A         N/A                            Off
      Off                N/A               N/A                              N/A

Enter the name or number of the entry you wish to edit:
[]> 1
Policy Summaries:
Anti-Spam: Off
Graymail Detection: Off
Content Filters: Off (No content filters have been created)

Choose the operation you want to perform:
- ANTISPAM - Modify Anti-Spam policy
- GRAYMAIL - Modify Graymail policy
- FILTERS - Modify filters

[]> antispam
Choose the operation you want to perform:
- ENABLE - Enable Anti-Spam policy

[]> enable
Begin Anti-Spam configuration

Would you like to use Intelligent Multi-Scan on this policy? [N]>

Would you like to use IronPort Anti-Spam on this policy? [Y]> y

Some messages will be positively identified as spam.  Some messages will be identified as
suspected spam. You can set the IronPort Anti-Spam Suspected Spam Threshold
below.
The following configuration options apply to messages POSITIVELY identified as spam:
Do you want to enable special treatment for Threat Scanner verdict? [N]> y
```

quarantineconfig

Description

Configure system quarantines.

Usage

Commit: This command requires a ‘commit’.

Cluster Management: This command is restricted to machine mode.

Batch Command: This command does not support a batch format.

Example

```
mail3.example.com> quarantineconfig
Currently configured quarantines:
 #  Quarantine Name    Size (MB)  % full  Messages  Retention  Policy
 1  Outbreak           3,072      0.0          1        12h    Release
 2  Policy             1,024      0.1        497        10d    Delete
 3  Virus              2,048      empty        0        30d    Delete
2,048 MB available for quarantine allocation.
Choose the operation you want to perform:
- NEW - Create a new quarantine.
```

```
- EDIT - Modify a quarantine.
- DELETE - Remove a quarantine.
- OUTBREAKMANAGE - Manage the Outbreak Filters quarantine.
[]> new
Please enter the name for this quarantine:
[]> HRQuarantine
Retention period for this quarantine. (Use 'd' for days or 'h' for hours or 'm' for
'minutes'.):
[]> 15d
1. Delete
2. Release
Enter default action for quarantine:
[1]> 2
Do you want to modify the subject of messages that are released because
"HRQuarantine" overflows? [N]>
Do you want add a custom header to messages that are released because
"HRQuarantine" overflows? [N]>
Do you want to strip all attachments from messages that are released
because "HRQuarantine" overflows? [N]>
Do you want default action to apply automatically when quarantine space fills up? [Y]>
Currently configured quarantines:
 #  Quarantine Name     Size (MB) % full  Messages  Retention  Policy
 1  HRQuarantine        1,024      N/A        N/A        15d   Release
 2  Outbreak            3,072      0.0          1        12h   Release
 3  Policy              1,024      0.1        497        10d   Delete
 4  Virus               2,048      empty        0        30d   Delete
(N/A: Quarantine contents is not available at this time.)
1,024 MB available for quarantine allocation.
Choose the operation you want to perform:
- NEW - Create a new quarantine.
- EDIT - Modify a quarantine.
- DELETE - Remove a quarantine.
- OUTBREAKMANAGE - Manage the Outbreak Filters quarantine.
```

Users and Quarantines

Once you answer “y” or yes to the question about adding users, you begin user management, where you can manage the user list. This lets you add or remove multiple users to the quarantine without having to go through the other quarantine configuration questions. Press Return (Enter) at an empty prompt ([]>) to exit the user management section and continue with configuring the quarantine.

Note You will only be prompted to give users access to the quarantine if guest or operator users have already been created on the system.

A quarantine's user list only contains users belonging to the Operators or Guests groups. Users in the Administrators group always have full access to the quarantine. When managing the user list, the NEW command is suppressed if all the Operator/Guest users are already on the quarantine's user list. Similarly, DELETE is suppressed if there are no users to delete.

scanconfig

Description

Configure attachment scanning policy

Usage

Commit: This command requires a ‘commit’.

Cluster Management: This command can be used in all three machine modes (cluster, group, machine).

Batch Command: This command supports a batch format.

Example

In this example, the scanconfig command sets these parameters:

- MIME types of video/*, audio/*, image/* are skipped (not scanned for content).
- Nested (recursive) archive attachments up to 10 levels are scanned. (The default is 5 levels.)
- The maximum size for attachments to be scanned is 25 megabytes; anything larger will be skipped. (The default is 5 megabytes.)
- The document metadata is scannned.
- Attachment scanning timeout is set at 180 seconds.
- Attachments that were not scanned are assumed to not match the search pattern. (This is the default behavior.)
- ASCII encoding is configured for use when none is specified for plain body text or anything with MIME type plain/text or plain/html.

Note When setting the assume the attachment matches the search pattern to Y, messages that cannot be scanned will cause the message filter rule to evaluate to true. This could result in unexpected behavior, such as the quarantining of messages that do not match a dictionary, but were quarantined because their content could not be correctly scanned. This setting does not apply to DLP scanning.

```
mail3.example.com> scanconfig
There are currently 5 attachment type mappings configured to be SKIPPED.
Choose the operation you want to perform:
- NEW - Add a new entry.
- DELETE - Remove an entry.
- SETUP - Configure scanning behavior.
- IMPORT - Load mappings from a file.
- EXPORT - Save mappings to a file.
- PRINT - Display the list.
- CLEAR - Remove all entries.
- SMIME - Configure S/MIME unpacking.
[]> setup
1. Scan only attachments with MIME types or fingerprints in the list.
2. Skip attachments with MIME types or fingerprints in the list.
Choose one:
[2]> 2
Enter the maximum depth of attachment recursion to scan:
[5]> 10
Enter the maximum size of attachment to scan:
[5242880]> 10m
Do you want to scan attachment metadata? [Y]> y
Enter the attachment scanning timeout (in seconds):
[30]> 180
If a message has attachments that were not scanned for any reason (e.g.
because of size, depth limits, or scanning timeout), assume the attachment matches the
search pattern? [N]> n
If a message could not be deconstructed into its component parts in order to remove specified
```

```
 attachments, the system should:
1. Deliver
2. Bounce
3. Drop
[1]>
Configure encoding to use when none is specified for plain body text or
anything with MIME type plain/text or plain/html.
1. US-ASCII
2. Unicode (UTF-8)
3. Unicode (UTF-16)
4. Western European/Latin-1 (ISO 8859-1)
5. Western European/Latin-1 (Windows CP1252)
6. Traditional Chinese (Big 5)
7. Simplified Chinese (GB 2312)
8. Simplified Chinese (HZ GB 2312)
9. Korean (ISO 2022-KR)
10. Korean (KS-C-5601/EUC-KR)
11. Japanese (Shift-JIS (X0123))
12. Japanese (ISO-2022-JP)
13. Japanese (EUC)
[1]> 1
Scan behavior changed.
There are currently 5 attachment type mappings configured to be SKIPPED.
Choose the operation you want to perform:
- NEW - Add a new entry.
- DELETE - Remove an entry.
- SETUP - Configure scanning behavior.
- IMPORT - Load mappings from a file.
- EXPORT - Save mappings to a file.
- PRINT - Display the list.
- CLEAR - Remove all entries.
- SMIME - Configure S/MIME unpacking.
[]> print
1. Fingerprint   Image
2. Fingerprint   Media
3. MIME Type     audio/*
4. MIME Type     image/*
5. MIME Type     video/*
```

Example: Configuring Message Handling Actions for Unscannable Messages

In the following example, the `scanconfig > setup` command is used to enable and configure message handling actions for messages that are not scanned by the Content Scanner because of an attachment extraction failure.

```
mail3.example.com> scanconfig
There are currently 5 attachment type mappings configured to be SKIPPED. Choose the operation
 you want to perform:
- NEW - Add a new entry.
- DELETE - Remove an entry.
- SETUP - Configure scanning behavior.
- IMPORT - Load mappings from a file.
- EXPORT - Save mappings to a file.
- PRINT - Display the list.
- CLEAR - Remove all entries.
-[]>SMIMEsetup-  Configure S/MIME unpacking.
[] > setup

1. Scan only attachments with MIME types or fingerprints in the list.
2. Skip attachments with MIME types or fingerprints in the list.

Choose one: [2]>

Enter the maximum depth of attachment recursion to scan: [5]>
```

```
Enter the maximum size of attachment to scan: [5242880]>

Do you want to scan attachment metadata? [Y]>

Enter the attachment scanning timeout (in seconds): [30]>

If a message has attachments that were not scanned for any reason (e.g.
because of size, depth limits, or scanning timeout), assume the attachment matches the
search pattern? [N]>

In case of a content or message filter error, should all filters be bypassed? [Y]>

Assume zip file to be unscannable if files in the archive cannot be read? [0]>

If a message could not be deconstructed into its component parts in order
to remove specified attachments, the system should:
1. Deliver
2. Bounce
3. Drop
[1]>

Configure encoding to use when none is specified for
plain body text or anything with MIME type plain/text or plain/html.

1. US-ASCII
2. Unicode (UTF-8)
3. Unicode (UTF-16)
4. Western European/Latin-1 (ISO 8859-1)
5. Western European/Latin-1 (Windows CP1252)
6. Traditional Chinese (Big 5)
7. Simplified Chinese (GB 2312)
8. Simplified Chinese (HZ GB 2312)
9. Korean (ISO 2022-KR)
10. Korean (KS-C-5601/EUC-KR)
11. Japanese (Shift-JIS (X0123))
12. Japanese (ISO-2022-JP)
13. Japanese (EUC)

[]> Do you want to enable actions on unscannable messages due to an extraction failure? y/n
 [Y]> Yes

1. Drop Message
2. Deliver As Is
3. Quarantine

Action applied to original message: [2]> 2

Do you want to deliver mail to an alternate mailhost ? [N]> yes

Enter the mailhost to deliver to: []> mail.example.com

Do you want to redirect mail to an alternate email address ? [N]> yes

Enter the address to deliver to:
[]> user@mail.example.com

Do you want to add a custom header? [N]> yes

Enter the header name: []> Unscannable Messages

Enter the header content:
[]> Actions taken on Unscannable Messages
```

```
Do you want to modify the subject? [N]> yes

1. Prepend
2. Append

Select position of text: [1]> 1

Enter the text to add:
[[WARNING: UNSCANNABLE EXTRACTION FAILED]]> [WARNING: UNSCANNABLE FILE EXTRACTION FAILURE]
```

stripheaders

Description

Define a list of message headers to remove.

Usage

Commit: This command requires a 'commit'.

Cluster Management: This command can be used in all three machine modes (cluster, group, machine).

Batch Command: This command does not support a batch format.

Example

```
mail3.example.com> stripheaders
Not currently stripping any headers.
Choose the operation you want to perform:
- SETUP - Set message headers to remove.
[]> setup
Enter the list of headers you wish to strip from the messages before they are delivered.
Separate multiple headers with commas.
[]> Delivered-To
Currently stripping headers: Delivered-To
Choose the operation you want to perform:
- SETUP - Set message headers to remove.
[]>
mail3.example.com>
```

textconfig

Description

Configure text resources such as anti-virus alert templates, message disclaimers, and notification templates, including DLP, bounce, and encryption notifications.

Usage

Commit: This command requires a 'commit'.

Cluster Management: This command can be used in all three machine modes (cluster, group, machine).

Batch Command: This command does not support a batch format.

Example

Use **textconfig -> NEW** to create text resources, and **textconfig > delete** to remove them.

```
mail3.example.com> textconfig
Choose the operation you want to perform:
- NEW - Create a new text resource.
- IMPORT - Import a text resource from a file.
[]> new
What kind of text resource would you like to create?
1. Anti-Virus Container Template
2. Anti-Virus Notification Template
3. DLP Notification Template
4. Bounce and Encryption Failure Notification Template
5. Message Disclaimer
6. Encryption Notification Template (HTML)
7. Encryption Notification Template (text)
8. Notification Template
[1]> 5
Please create a name for the message disclaimer:
[]> disclaimer 1
Enter the encoding for the message disclaimer:
1. US-ASCII
2. Unicode (UTF-8)
3. Unicode (UTF-16)
4. Western European/Latin-1 (ISO 8859-1)
5. Western European/Latin-1 (Windows CP1252)
6. Traditional Chinese (Big 5)
7. Simplified Chinese (GB 2312)
8. Simplified Chinese (HZ GB 2312)
9. Korean (ISO 2022-KR)
10. Korean (KS-C-5601/EUC-KR)
11. Japanese (Shift-JIS (X0123))
12. Japanese (ISO-2022-JP)
13. Japanese (EUC)
[1]>
Enter or paste the message disclaimer here.  Enter '.' on a blank line to end.
This message was sent from an IronPort(tm) Email Security appliance.
.
Message disclaimer "disclaimer 1" created.
Choose the operation you want to perform:
- NEW - Create a new text resource.
- IMPORT - Import a text resource from a file.
- EXPORT - Export text resource to a file.
- PRINT - Display the content of a resource.
- EDIT - Modify a resource.
- DELETE - Remove a resource from the system.
- LIST - List configured resources.
[]> delete
Please enter the name or number of the resource to delete:
[]> 1
Message disclaimer "disclaimer 1" has been deleted.
Choose the operation you want to perform:
- NEW - Create a new text resource.
- IMPORT - Import a text resource from a file.
[]>
```

Use **textconfig -> EDIT** to modify an existing text resource. You can change the encoding or replace the text of the selected text resource.

Importing Text Resources

Use **textconfig -> IMPORT** to import a text file as a text resource. The text file must be present in the configuration directory on the email gateway.

```
mail3.example.com> textconfig
Current Text Resources:
1. footer.2.message (Message Footer)
Choose the operation you want to perform:
- NEW - Create a new text resource.
- IMPORT - Import a text resource from a file.
- EXPORT - Export text resource to a file.
- PRINT - Display the content of a resource.
- EDIT - Modify a resource.
- DELETE - Remove a resource from the system.
- LIST - List configured resources.
[]> import
What kind of text resource would you like to create?
1. Anti-Virus Container Template
2. Anti-Virus Notification Template
3. DLP Notification Template
4. Bounce and Encryption Failure Notification Template
5. Message Disclaimer
6. Encryption Notification Template (HTML)
7. Encryption Notification Template (text)
8. Notification Template
[1]> 8
Please create a name for the notification template:
[]> strip.mp3files
Enter the name of the file to import:
[]> strip.mp3.txt
Enter the encoding to use for the imported file:
1. US-ASCII
[ list of encodings ]
[1]>
Notification template "strip.mp3files" created.
Current Text Resources:
1. disclaimer.2.message (Message Disclaimer)
2. strip.mp3files (Notification Template)
Choose the operation you want to perform:
- NEW - Create a new text resource.
- IMPORT - Import a text resource from a file.
- EXPORT - Export text resource to a file.
- PRINT - Display the content of a resource.
- EDIT - Modify a resource.
- DELETE - Remove a resource from the system.
- LIST - List configured resources.
[]>
```

Exporting Text Resources

Use **textconfig -> EXPORT** to export a text resource as a text file. The text file will be created in the configuration directory on the email gateway.

```
mail3.example.com> textconfig
Current Text Resources:
1. footer.2.message (Message Footer)
2. strip.mp3 (Notification Template)
Choose the operation you want to perform:
- NEW - Create a new text resource.
- IMPORT - Import a text resource from a file.
```

```
- EXPORT - Export text resource to a file.
- PRINT - Display the content of a resource.
- EDIT - Modify a resource.
- DELETE - Remove a resource from the system.
- LIST - List configured resources.
[]> export
Please enter the name or number of the resource to export:
[]> 2
Enter the name of the file to export:
[strip.mp3]> strip.mp3.txt
Enter the encoding to use for the exported file:
1. US-ASCII
[ list of encoding types ]
[1]>
File written on machine "mail3.example.com" using us-ascii encoding.
Current Text Resources:
1. footer.2.message (Message Footer)
2. strip.mp3 (Notification Template)
Choose the operation you want to perform:
- NEW - Create a new text resource.
- IMPORT - Import a text resource from a file.
- EXPORT - Export text resource to a file.
- PRINT - Display the content of a resource.
- EDIT - Modify a resource.
- DELETE - Remove a resource from the system.
- LIST - List configured resources.
[]>
```

Logging and Alerts

This section contains the following CLI commands:

alertconfig

Description

Configure email alerts.

Usage

Commit: This command requires a ‘commit’.

Cluster Management: This command can be used in all three machine modes (cluster, group, machine).

Batch Command: This command does not support a batch format.

Example: Creating a New Alert

In this example, a new alert recipient (alertadmin@example.com) is created and set to receive critical system, hardware, and directory harvest attack alerts.

```
mail1.example.com> alertconfig
Not sending alerts (no configured addresses)
Alerts will be sent using the system-default From Address.
Cisco IronPort AutoSupport: Disabled
Choose the operation you want to perform:
```

```
- NEW - Add a new email address to send alerts.
- SETUP - Configure alert settings.
- FROM - Configure the From Address of alert emails.
[]> new
Please enter a new email address to send alerts.
(Ex: "administrator@example.com")
[]> alertadmin@example.com
Choose the Alert Classes.  Separate multiple choices with commas.
1. All
2. System
3. Hardware
4. Updater
5. Outbreak Filters
6. Anti-Virus
7. Anti-Spam
8. Directory Harvest Attack Prevention
9. Release and Support Notifications
[1]> 2,3,8
Select a Severity Level.  Separate multiple choices with commas.
1. All
2. Critical
3. Warning
4. Information
[1]> 2
Sending alerts to:
  alertadmin@example.com
      Class: Hardware - Severities: Critical
      Class: Directory Harvest Attack Prevention - Severities: Critical
      Class: System - Severities: Critical
Initial number of seconds to wait before sending a duplicate alert: 300
Maximum number of seconds to wait before sending a duplicate alert: 3600
Maximum number of alerts stored in the system are: 50
Alerts will be sent using the system-default From Address.
Cisco IronPort AutoSupport: Disabled
Choose the operation you want to perform:
- NEW - Add a new email address to send alerts.
- EDIT - Modify alert subscription for an email address.
- DELETE - Remove an email address.
- CLEAR - Remove all email addresses (disable alerts).
- SETUP - Configure alert settings.
- FROM - Configure the From Address of alert emails.
[]>
```

Example: Sending Alerts over TLS

In this example, you can use the `alertconfig` > `setup` sub command to configure your email gateway to send alerts over TLS.

```
mail1.example.com> alertconfig
Sending alerts to:
  admin@company.com
      Class: Outbreak Filters - Severities: All
      Class: Threatfeeds - Severities: All
      Class: SAML - Severities: All
      Class: Message Delivery - Severities: All
      Class: System - Severities: All
      Class: Anti-Virus - Severities: All
      Class: Hardware - Severities: All
      Class: Updater - Severities: All
      Class: AMP - Severities: All
      Class: Anti-Spam - Severities: All
      Class: Release and Support Notifications - Enabled

Initial number of seconds to wait before sending a duplicate alert: 300
```

```
Maximum number of seconds to wait before sending a duplicate alert: 3600
Maximum number of alerts stored in the system are: 50

Alerts will be sent using the system-default From Address.

Cisco IronPort AutoSupport: Enabled
You will receive a copy of the weekly AutoSupport reports.

Alert messages are sent using a TLS connection.

Choose the operation you want to perform:
- NEW - Add a new email address to send alerts.
- EDIT - Modify alert subscription for an email address.
- DELETE - Remove an email address.
- CLEAR - Remove all email addresses (disable alerts).
- SETUP - Configure alert settings.
- FROM - Configure the From Address of alert emails.
[]> setup

Initial number of seconds to wait before sending a duplicate alert.
Enter a value of 0 to disable duplicate alert summaries.
[300]>

Maximum number of seconds to wait before sending a duplicate alert:
[3600]>

Would you like to enable Cisco IronPort AutoSupport, which automatically
emails system alerts and weekly status reports directly to Cisco IronPort
Customer
Support?  (Enabling AutoSupport is recommended.) [Y]>

Would you like to receive a copy of the weekly AutoSupport reports? [Y]>

Maximum number of alerts to save:
[50]>

Choose the default interface to be used to deliver alerts
1. Auto
2. Management (10.8.159.11/24: mail1.example.com)
[1]>

Do you want to enable TLS support to send alert messages? [Y]> yes

Sending alerts to:
  admin@company.com
      Class: Outbreak Filters - Severities: All
      Class: Threatfeeds - Severities: All
      Class: SAML - Severities: All
      Class: Message Delivery - Severities: All
      Class: System - Severities: All
      Class: Anti-Virus - Severities: All
      Class: Hardware - Severities: All
      Class: Updater - Severities: All
      Class: AMP - Severities: All
      Class: Anti-Spam - Severities: All
      Class: Release and Support Notifications - Enabled

Initial number of seconds to wait before sending a duplicate alert: 300
Maximum number of seconds to wait before sending a duplicate alert: 3600
Maximum number of alerts stored in the system are: 50

Alerts will be sent using the system-default From Address.

Cisco IronPort AutoSupport: Enabled
```

```
You will receive a copy of the weekly AutoSupport reports.

Alert messages are sent using a TLS connection.

Choose the operation you want to perform:
- NEW - Add a new email address to send alerts.
- EDIT - Modify alert subscription for an email address.
- DELETE - Remove an email address.
- CLEAR - Remove all email addresses (disable alerts).
- SETUP - Configure alert settings.
- FROM - Configure the From Address of alert emails.
[]>
```

displayalerts

Description

Display the last n alerts sent by the email gateway.

Usage

Commit: This command does not require a 'commit'.

Cluster Management: This command can be used in all three machine modes (cluster, group, machine).

Batch Command: This command does not support a batch format.

Example

```
> displayalerts
Date and Time Stamp           Description
--------------------------------------------------------------------------------
10 Mar 2015 11:33:36 +0000    The updater could not validate the server certificate.  Server
 certificate not validated - unable to get local issuer
certificate
Last message occurred 28 times between Tue Mar 10 10:34:57 2015 and Tue Mar 10 11:32:24
2015.
10 Mar 2015 11:23:39 +0000    The updater has been unable to communicate with the update
server for at least 1h.
Last message occurred 8 times between Tue Mar 10 10:29:57 2015 and Tue Mar 10 11:18:24 2015.
10 Mar 2015 10:33:36 +0000    The updater could not validate the server certificate.  Server
 certificate not validated - unable to get local issuer
certificate
Last message occurred 26 times between Tue Mar 10 09:33:55 2015 and Tue Mar 10 10:29:57
2015.
10 Mar 2015 10:23:39 +0000    The updater has been unable to communicate with the update
server for at least 1h.
Last message occurred 9 times between Tue Mar 10 09:26:54 2015 and Tue Mar 10 10:22:56 2015.
```

findevent

Description

Find events in mail log files

Usage

Commit: This command does not require a 'commit'.

Cluster Management: This command can be used in all three machine modes (cluster, group, machine).

Batch Command: This command does not support a batch format.

Example: Search by envelope FROM

```
mail.example.com> findevent
Please choose which type of search you want to perform:
1. Search by envelope FROM
2. Search by Message ID
3. Search by Subject
4. Search by envelope TO
[1]> 1
Enter the regular expression to search for.
[]> "
Currently configured logs:
    Log Name            Log Type                      Retrieval           Interval
 -------------------------------------------------------------------------------
 1. mail_logs           IronPort Text Mail Logs       Manual Download     None
Enter the number of the log you wish to use for message tracking.
[1]> 1
Please choose which set of logs to search:
1. All available log files
2. Select log files by date list
3. Current log file
[3]> 3
No matching message IDs were found
```

Example: Search by Message ID

```
mail.example.com> findevent
Please choose which type of search you want to perform:
1. Search by envelope FROM
2. Search by Message ID
3. Search by Subject
4. Search by envelope TO
[1]> 2
Enter the Message ID (MID) to search for.
[]> 1
Currently configured logs:
    Log Name            Log Type                      Retrieval           Interval
 -------------------------------------------------------------------------------
 1. mail_logs           IronPort Text Mail Logs       Manual Download     None
Enter the number of the log you wish to use for message tracking.
[1]> 1
Please choose which set of logs to search:
1. All available log files
2. Select log files by date list
3. Current log file
[3]> 1
```

Example: Search by Subject

```
mail.example.com> findevent
Please choose which type of search you want to perform:
```

```
1. Search by envelope FROM
2. Search by Message ID
3. Search by Subject
4. Search by envelope TO
[1]> 3
Enter the regular expression to search for.
[]> "
Currently configured logs:
    Log Name            Log Type                      Retrieval           Interval
 -------------------------------------------------------------------------------
 1. mail_logs           IronPort Text Mail Logs       Manual Download     None
Enter the number of the log you wish to use for message tracking.
[1]> 1
Please choose which set of logs to search:
1. All available log files
2. Select log files by date list
3. Current log file
[3]> 2
Available mail log files, listed by log file start time.
Specify multiple log files by separating with commas or specify a range with a dash:
1. Thu Feb 19 05:18:02 2015
[1]>
No matching message IDs were found
```

Example: Search by envelope TO

```
mail.example.com> findevent
Please choose which type of search you want to perform:
1. Search by envelope FROM
2. Search by Message ID
3. Search by Subject
4. Search by envelope TO
[1]> 4
Enter the regular expression to search for.
[]> '
Currently configured logs:
    Log Name            Log Type                      Retrieval           Interval
 -------------------------------------------------------------------------------
 1. mail_logs           IronPort Text Mail Logs       Manual Download     None
Enter the number of the log you wish to use for message tracking.
[1]> 1
Please choose which set of logs to search:
1. All available log files
2. Select log files by date list
3. Current log file
[3]> 3
No matching message IDs were found
```

grep

Description

Searches for text in a log file.

Usage

Commit: This command does not require a ‘commit’.

Cluster Management: This command is restricted to machine mode. It is further restricted to the login host (i.e., the specific machine you are logged onto). This command requires access to the local file system.

Batch Command: This command does not support a batch format.

The grep command can be used to search for text strings within logs. Use the following syntax when you run the grep command:

```
grep [-C count] [-e regex] [-i] [-p] [-t] [regex] log_name
```

Note You must enter either -e regex or regex to return results.

Use the following options when you run the grep command:

Table 11: grep Command Options

Option	Description
`-C`	Provides lines of context around the grep pattern found. Enter a value to specify the number of lines to include.
`-e`	Enter a regular expression.
`-i`	Ignores case sensitivities.
`-p`	Paginates the output.
`-t`	Runs the grep command over the tail of the log file.
`regex`	Enter a regular expression.

Example of grep

The following example shows a search for the text string ‘clean’ or ‘viral’ within the antivirus logs. The **`grep`** command includes a regex expression:

```
mail3.example.com> grep "CLEAN\\|VIRAL" antivirus
Fri Jun  9 21:50:25 2006 Info: sophos antivirus - MID 1 - Result 'CLEAN' ()
Fri Jun  9 21:53:15 2006 Info: sophos antivirus - MID 2 - Result 'CLEAN' ()
Fri Jun  9 22:47:41 2006 Info: sophos antivirus - MID 3 - Result 'CLEAN' ()
Fri Jun  9 22:47:41 2006 Info: sophos antivirus - MID 4 - Result 'CLEAN' ()
Fri Jun  9 22:47:41 2006 Info: sophos antivirus - MID 5 - Result 'CLEAN' ()
Fri Jun  9 22:47:41 2006 Info: sophos antivirus - MID 6 - Result 'CLEAN' ()
Fri Jun  9 22:47:42 2006 Info: sophos antivirus - MID 12 - Result 'CLEAN' ()
Fri Jun  9 22:53:04 2006 Info: sophos antivirus - MID 18 - Result 'VIRAL' ()
Fri Jun  9 22:53:05 2006 Info: sophos antivirus - MID 16 - Result 'VIRAL' ()
Fri Jun  9 22:53:06 2006 Info: sophos antivirus - MID 19 - Result 'VIRAL' ()
Fri Jun  9 22:53:07 2006 Info: sophos antivirus - MID 21 - Result 'VIRAL' ()
Fri Jun  9 22:53:08 2006 Info: sophos antivirus - MID 20 - Result 'VIRAL' ()
```

```
Fri Jun  9 22:53:08 2006 Info: sophos antivirus - MID 22 - Result 'VIRAL' ()
mail3.example.com>
```

logconfig

Description

Configure access to log files.

Usage

Commit: This command requires a ‘commit’.

Cluster Management: This command can be used in all three machine modes (cluster, group, machine).

Batch Command: This command does not support a batch format.

Example of FTP Push Log Subscription

In the following example, the **logconfig** command is used to configure a new delivery log called myDeliveryLogs . The log is then configured to be pushed via FTP to a remote host

```
mail3.example.com> logconfig
Currently configured logs:
1. "antispam" Type: "Anti-Spam Logs" Retrieval: FTP Poll
2. "antivirus" Type: "Anti-Virus Logs" Retrieval: FTP Poll
3. "asarchive" Type: "Anti-Spam Archive" Retrieval: FTP Poll
4. "authentication" Type: "Authentication Logs" Retrieval: FTP Poll
5. "avarchive" Type: "Anti-Virus Archive" Retrieval: FTP Poll
6. "bounces" Type: "Bounce Logs" Retrieval: FTP Poll
7. "cli_logs" Type: "CLI Audit Logs" Retrieval: FTP Poll
8. "encryption" Type: "Encryption Logs" Retrieval: FTP Poll
9. "error_logs" Type: "IronPort Text Mail Logs" Retrieval: FTP Poll
10. "euq_logs" Type: "IronPort Spam Quarantine Logs" Retrieval: FTP Poll
11. "euqgui_logs" Type: "IronPort Spam Quarantine GUI Logs" Retrieval: FTP Poll
12. "ftpd_logs" Type: "FTP Server Logs" Retrieval: FTP Poll
13. "gui_logs" Type: "HTTP Logs" Retrieval: FTP Poll
14. "mail_logs" Type: "IronPort Text Mail Logs" Retrieval: FTP Poll
15. "reportd_logs" Type: "Reporting Logs" Retrieval: FTP Poll
16. "reportqueryd_logs" Type: "Reporting Query Logs" Retrieval: FTP Poll
17. "scanning" Type: "Scanning Logs" Retrieval: FTP Poll
18. "slbld_logs" Type: "Safe/Block Lists Logs" Retrieval: FTP Poll
19. "sntpd_logs" Type: "NTP logs" Retrieval: FTP Poll
20. "status" Type: "Status Logs" Retrieval: FTP Poll
21. "system_logs" Type: "System Logs" Retrieval: FTP Poll
22. "trackerd_logs" Type: "Tracking Logs" Retrieval: FTP Poll
23. "updater_logs" Type: "Updater Logs" Retrieval: FTP Poll
Choose the operation you want to perform:
- NEW - Create a new log.
- EDIT - Modify a log subscription.
- DELETE - Remove a log subscription.
- SETUP - General settings.
- LOGHEADERS - Configure headers to log.
- HOSTKEYCONFIG - Configure SSH host keys.
[]> new
Choose the log file type for this subscription:
1. IronPort Text Mail Logs
2. qmail Format Mail Logs
3. Delivery Logs
```

```
4. Bounce Logs
5. Status Logs
6. Domain Debug Logs
7. Injection Debug Logs
8. SMTP Conversation Logs
9. System Logs
10. CLI Audit Logs
11. FTP Server Logs
12. HTTP Logs
13. NTP logs
14. LDAP Debug Logs
15. Anti-Spam Logs
16. Anti-Spam Archive
17. Anti-Virus Logs
18. Anti-Virus Archive
19. Scanning Logs
20. IronPort Spam Quarantine Logs
21. IronPort Spam Quarantine GUI Logs
22. Reporting Logs
23. Reporting Query Logs
24. Updater Logs
25. Tracking Logs
26. Safe/Block Lists Logs
27. Authentication Logs
[1]> 8
Please enter the name for the log:
[]> myDeliveryLogs
Choose the method to retrieve the logs.
1. FTP Poll
2. FTP Push
3. SCP Push
4. Syslog Push
[1]> 2
Hostname to deliver the logs:
[]> yourhost.example.com
Username on the remote host:
[]> yourusername
Passphrase for your user:
[]> thepassphrase
Directory on remote host to place logs:
[]> /logs
Filename to use for log files:
[conversation.text]>
Maximum time to wait before transferring:
[3600]>
Maximum filesize before transferring:
[10485760]>
Currently configured logs:
1. "antispam" Type: "Anti-Spam Logs" Retrieval: FTP Poll
2. "antivirus" Type: "Anti-Virus Logs" Retrieval: FTP Poll
3. "asarchive" Type: "Anti-Spam Archive" Retrieval: FTP Poll
4. "authentication" Type: "Authentication Logs" Retrieval: FTP Poll
5. "avarchive" Type: "Anti-Virus Archive" Retrieval: FTP Poll
6. "bounces" Type: "Bounce Logs" Retrieval: FTP Poll
7. "cli_logs" Type: "CLI Audit Logs" Retrieval: FTP Poll
8. "encryption" Type: "Encryption Logs" Retrieval: FTP Poll
9. "error_logs" Type: "IronPort Text Mail Logs" Retrieval: FTP Poll
10. "euq_logs" Type: "IronPort Spam Quarantine Logs" Retrieval: FTP Poll
11. "euqgui_logs" Type: "IronPort Spam Quarantine GUI Logs" Retrieval: FTP Poll
12. "ftpd_logs" Type: "FTP Server Logs" Retrieval: FTP Poll
13. "gui_logs" Type: "HTTP Logs" Retrieval: FTP Poll
14. "mail_logs" Type: "IronPort Text Mail Logs" Retrieval: FTP Poll
15. "myDeliveryLogs" Type: "SMTP Conversation Logs" Retrieval: FTP Push - Host
yourhost.example.com
```

```
16. "reportd_logs" Type: "Reporting Logs" Retrieval: FTP Poll
17. "reportqueryd_logs" Type: "Reporting Query Logs" Retrieval: FTP Poll
18. "scanning" Type: "Scanning Logs" Retrieval: FTP Poll
19. "slbld_logs" Type: "Safe/Block Lists Logs" Retrieval: FTP Poll
20. "sntpd_logs" Type: "NTP logs" Retrieval: FTP Poll
21. "status" Type: "Status Logs" Retrieval: FTP Poll
22. "system_logs" Type: "System Logs" Retrieval: FTP Poll
23. "trackerd_logs" Type: "Tracking Logs" Retrieval: FTP Poll
24. "updater_logs" Type: "Updater Logs" Retrieval: FTP Poll
```

Example of SCP Push Log Subscription

In the following example, the **logconfig** command is used to configure a new delivery log called LogPush . The log is configured to be pushed via SCP to a remote host with the IP address of 10.1.1.1, as the user logger , and stored in the directory /tmp . Note that the **sshconfig** command is automatically called from within the **logconfig** command when the log retrieval method is SCP push. (See "Configuring Host Keys" for information about Host keys, and "Managing Secure Shell (SSH) Keys" for more information about User keys, in the *User Guide for AsyncOS for Cisco Secure Email Gateway* .) Also note that an IP address can be used at the hostname prompt.

```
mail3.example.com> logconfig
Currently configured logs:
1. "antispam" Type: "Anti-Spam Logs" Retrieval: FTP Poll
2. "antivirus" Type: "Anti-Virus Logs" Retrieval: FTP Poll
3. "asarchive" Type: "Anti-Spam Archive" Retrieval: FTP Poll
4. "authentication" Type: "Authentication Logs" Retrieval: FTP Poll
5. "avarchive" Type: "Anti-Virus Archive" Retrieval: FTP Poll
6. "bounces" Type: "Bounce Logs" Retrieval: FTP Poll
7. "cli_logs" Type: "CLI Audit Logs" Retrieval: FTP Poll
8. "encryption" Type: "Encryption Logs" Retrieval: FTP Poll
9. "error_logs" Type: "IronPort Text Mail Logs" Retrieval: FTP Poll
10. "euq_logs" Type: "IronPort Spam Quarantine Logs" Retrieval: FTP Poll
11. "euqgui_logs" Type: "IronPort Spam Quarantine GUI Logs" Retrieval: FTP Poll
12. "ftpd_logs" Type: "FTP Server Logs" Retrieval: FTP Poll
13. "gui_logs" Type: "HTTP Logs" Retrieval: FTP Poll
14. "mail_logs" Type: "IronPort Text Mail Logs" Retrieval: FTP Poll
15. "reportd_logs" Type: "Reporting Logs" Retrieval: FTP Poll
16. "reportqueryd_logs" Type: "Reporting Query Logs" Retrieval: FTP Poll
17. "scanning" Type: "Scanning Logs" Retrieval: FTP Poll
18. "slbld_logs" Type: "Safe/Block Lists Logs" Retrieval: FTP Poll
19. "sntpd_logs" Type: "NTP logs" Retrieval: FTP Poll
20. "status" Type: "Status Logs" Retrieval: FTP Poll
21. "system_logs" Type: "System Logs" Retrieval: FTP Poll
22. "trackerd_logs" Type: "Tracking Logs" Retrieval: FTP Poll
23. "updater_logs" Type: "Updater Logs" Retrieval: FTP Poll
Choose the operation you want to perform:
- NEW - Create a new log.
- EDIT - Modify a log subscription.
- DELETE - Remove a log subscription.
- SETUP - General settings.
- LOGHEADERS - Configure headers to log.
- HOSTKEYCONFIG - Configure SSH host keys.
[]> new
Choose the log file type for this subscription:
1. IronPort Text Mail Logs
2. qmail Format Mail Logs
3. Delivery Logs
4. Bounce Logs
5. Status Logs
6. Domain Debug Logs
7. Injection Debug Logs
```

```
8. SMTP Conversation Logs
9. System Logs
10. CLI Audit Logs
11. FTP Server Logs
12. HTTP Logs
13. NTP logs
14. LDAP Debug Logs
15. Anti-Spam Logs
16. Anti-Spam Archive
17. Anti-Virus Logs
18. Anti-Virus Archive
19. Scanning Logs
20. IronPort Spam Quarantine Logs
21. IronPort Spam Quarantine GUI Logs
22. Reporting Logs
23. Reporting Query Logs
24. Updater Logs
25. Tracking Logs
26. Safe/Block Lists Logs
27. Authentication Logs
[1]> 3
Please enter the name for the log:
[]> LogPush
Choose the method to retrieve the logs.
1. FTP Poll
2. FTP Push
3. SCP Push
[1]> 3
Hostname to deliver the logs:
[]> 10.1.1.1
Port to connect to on the remote host:
[22]>
Username on the remote host:
[]> logger
Directory on remote host to place logs:
[]> /tmp
Filename to use for log files:
[delivery.log]>
Maximum time to wait before transferring:
[3600]>
Maximum filesize before transferring:
[10485760]>
Protocol:
1. SSH1
2. SSH2
[2]> 2
Do you want to enable host key checking?  [N]> y
Do you want to automatically scan the host for its SSH key, or enter it
manually?
1. Automatically scan.
2. Enter manually.
[1]> 1
SSH2:dsa
10.1.1.1 ssh-dss
AAAAB3NzaC1kc3MAAACBALwGi4IlWLDVndbIwEsArt9LVE2ts5yE9JBTSdUwLvoq0G3FRqifrce92zgyHtc/
ZWyXavUTIM3Xd1bpiEcscMp2XKpSnPPx21y8bqkpJsSCQcM8zZMDjnOPm8ghiwHXYh7oNEUJCCPnPxAy44rlJ5Yz4x9eIoALp0dHU0GR
+j1NAAAAFQDQi5GY/X9PlDM3fPMvEx7wc0edlwAAAIB9cgMTEFP1WTAGrlRtbowZP5zWZtVDTxLhdXzjlo4+bB4hBR7DKuc80+naAFnThyH/
J8R3WlJVF79M5geKJbXzuJGDK3Zwl3UYefPqBqXp2OlzLRQSJYx1WhwYz/rooqpNlBnF4sh12mtq3tde1176bQgtwaQA4wKO15k3zOWsPwAAAIAicRYat3y+Blv/
V6wdE6BBk+oULv3eK38gafuip4WMBxkG9GO6EQi8nss82oznwWBy/pITRQfh4MBmlxTF4VEY00sARrlZtuUJC1QGQvCgh7Nd3YNais2CSbEKBEaIOTF6+
SX2RNpcUF3Wg5ygw92xtqQPKMcZeLtK2ZJRkhC+Vw==
Add the preceding host key(s) for 10.1.1.1?  [Y]> y
Currently installed host keys:
1. 10.1.1.1 1024 35 122606420764474441178474079962066753 25...3520565607
2. 10.1.1.1 ssh-dss AAAAB3NzaC1kc3MAAACBALwGi4IlWLDVndbIwE...JRkhC+Vw==
```

```
Choose the operation you want to perform:
- NEW - Add a new key.
- EDIT - Modify a key.
- DELETE - Remove a key.
- SCAN - Automatically download a host key.
- PRINT - Display a key.
- HOST - Display this machine's host keys.
[]>
Maximum filesize before transferring:
[10485760]>
Protocol:
1. SSH1
2. SSH2
[2]> 2
Do you want to enable host key checking?  [N]> y
Currently installed host keys:
Choose the operation you want to perform:
- NEW - Add a new key.
- SCAN - Automatically download a host key.
- HOST - Display this machine's host keys.
[]> scan
Choose the ssh protocol type:
1. SSH1:rsa
2. SSH2:rsa
3. SSH2:dsa
4. All
[4]> 4
SSH1:rsa
10.1.1.1 1024 35
122606420764474441178474079962066753259278682648965870690129496065430424463013457294798980627829828033793152226
448694514316218272814453986931612508282328008815740072109975632356478532128816187806830746328234327778100131128176672666244511191
178374796589800085594702248469207946669770737394887155457517352056560 7
```

Example of Syslog Push Log Subscription

In the following example, the **logconfig** command is used to configure a new delivery log called MailLog SyslogPush . The log is configured to be pushed to a remote syslog server with the IP address of 10.1.1.2, using TCP, with a ‘mail’ facility and stored in the directory.

```
mail3.example.com> logconfig
Currently configured logs:
1. "antispam" Type: "Anti-Spam Logs" Retrieval: FTP Poll
2. "antivirus" Type: "Anti-Virus Logs" Retrieval: FTP Poll
3. "asarchive" Type: "Anti-Spam Archive" Retrieval: FTP Poll
4. "authentication" Type: "Authentication Logs" Retrieval: FTP Poll
5. "avarchive" Type: "Anti-Virus Archive" Retrieval: FTP Poll
6. "bounces" Type: "Bounce Logs" Retrieval: FTP Poll
7. "cli_logs" Type: "CLI Audit Logs" Retrieval: FTP Poll
8. "encryption" Type: "Encryption Logs" Retrieval: FTP Poll
9. "error_logs" Type: "IronPort Text Mail Logs" Retrieval: FTP Poll
10. "euq_logs" Type: "IronPort Spam Quarantine Logs" Retrieval: FTP Poll
11. "euqgui_logs" Type: "IronPort Spam Quarantine GUI Logs" Retrieval: FTP Poll
12. "ftpd_logs" Type: "FTP Server Logs" Retrieval: FTP Poll
13. "gui_logs" Type: "HTTP Logs" Retrieval: FTP Poll
14. "mail_logs" Type: "IronPort Text Mail Logs" Retrieval: FTP Poll
15. "reportd_logs" Type: "Reporting Logs" Retrieval: FTP Poll
16. "reportqueryd_logs" Type: "Reporting Query Logs" Retrieval: FTP Poll
17. "scanning" Type: "Scanning Logs" Retrieval: FTP Poll
18. "slbld_logs" Type: "Safe/Block Lists Logs" Retrieval: FTP Poll
19. "sntpd_logs" Type: "NTP logs" Retrieval: FTP Poll
20. "status" Type: "Status Logs" Retrieval: FTP Poll
21. "system_logs" Type: "System Logs" Retrieval: FTP Poll
```

```
22. "trackerd_logs" Type: "Tracking Logs" Retrieval: FTP Poll
23. "updater_logs" Type: "Updater Logs" Retrieval: FTP Poll
Choose the operation you want to perform:
- NEW - Create a new log.
- EDIT - Modify a log subscription.
- DELETE - Remove a log subscription.
- SETUP - General settings.
- LOGHEADERS - Configure headers to log.
- HOSTKEYCONFIG - Configure SSH host keys.
[]> new
Choose the log file type for this subscription:
1. IronPort Text Mail Logs
2. qmail Format Mail Logs
3. Delivery Logs
4. Bounce Logs
5. Status Logs
6. Domain Debug Logs
7. Injection Debug Logs
8. SMTP Conversation Logs
9. System Logs
10. CLI Audit Logs
11. FTP Server Logs
12. HTTP Logs
13. NTP logs
14. LDAP Debug Logs
15. Anti-Spam Logs
16. Anti-Spam Archive
17. Anti-Virus Logs
18. Anti-Virus Archive
19. Scanning Logs
20. IronPort Spam Quarantine Logs
21. IronPort Spam Quarantine GUI Logs
22. Reporting Logs
23. Reporting Query Logs
24. Updater Logs
25. Tracking Logs
26. Safe/Block Lists Logs
27. Authentication Logs
[1]> 1
Please enter the name for the log:
[]> MailLogSyslogPush
Log level:
1. Critical
2. Warning
3. Information
4. Debug
5. Trace
[3]> 2
Choose the method to retrieve the logs.
1. FTP Poll
2. FTP Push
3. SCP Push
4. Syslog Push
[1]> 4
Hostname to deliver the logs:
[]> 10.1.1.2

Port to connect to the remote host:
[514]> 514

Which protocol do you want to use to transfer the log data?
1. UDP
2. TCP
[1]>  2
```

```
Maximum message size for syslog push:
[1024]> 1024

Which facility do you want the log data to be sent as?
1. auth
2. authpriv
3. console
4. daemon
5. ftp
6. local0
7. local1
8. local2
9. local3
10. local4
11. local5
12. local6
13. local7
14. mail
15. ntp
16. security
17. user
[14]> 14
Do you want to transfer the log data from your email gateway
 to the syslog server via TLS? [N]> yes
Do you want to enable syslog disk buffer? [N]> yes
Maximum disk buffer size (in bytes) for syslog push:
[100M]>10G
Currently configured logs:
1. "MailLogSyslogPush" Type: "IronPort Text Mail Logs" Retrieval: Syslog Push -
Host 10.1.1.2
```

Example: Adding a Custom Log Header to Consolidated Event Logs

In the following example, you can use the `logconfig > ceflogheaders` sub command to add a custom log header to Consolidated Event Logs.

```
mail1.example.com> logconfig

Currently configured logs:
    Log Name            Log Type                          Retrieval           Interval
 ------------------------------------------------------------------------------------
 1. amp                 AMP Engine Logs                   Manual Download     None
 2. amparchive          AMP Archive                       Manual Download     None
 3. antispam            Anti-Spam Logs                    Manual Download     None
 4. antivirus           Anti-Virus Logs                   Manual Download     None
 5. asarchive           Anti-Spam Archive                 Manual Download     None
 6. authentication      Authentication Logs               Manual Download     None
 7. avarchive           Anti-Virus Archive                Manual Download     None
 8. bounces             Bounce Logs                       Manual Download     None
 9. cli_logs            CLI Audit Logs                    Manual Download     None
10. cloud_connector     Cloud Connector Logs              Manual Download     None
11. content_scanner     Content Scanner Logs              Manual Download     None
12. csa                 Cisco Security Awareness Logs     Manual Download     None
13. csn_logs            CSN Logs                          Manual Download     None
14. ctr_logs            CTR Logs                          Manual Download     None
15. dlp                 DLP Logs                          Manual Download     None
16. eaas                Advanced Phishing Protection Logs Manual Download     None
17. ecs                 ESA Cloud Scanner Logs            Manual Download     None
18. encryption          Encryption Logs                   Manual Download     None
19. error_logs          IronPort Text Mail Logs           Manual Download     None
20. euq_logs            Spam Quarantine Logs              Manual Download     None
21. euqgui_logs         Spam Quarantine GUI Logs          Manual Download     None
```

```
22. ftpd_logs           FTP Server Logs                     Manual Download     None
23. gmarchive           Graymail Archive                    Manual Download     None
24. graymail            Graymail Engine Logs                Manual Download     None
25. gui_logs            HTTP Logs                           Manual Download     None
26. ipr_client          IP Reputation Logs                  Manual Download     None
27. mail_logs           IronPort Text Mail Logs             Manual Download     None
28. remediation         Remediation Logs                    Manual Download     None
29. reportd_logs        Reporting Logs                      Manual Download     None
30. reportqueryd_logs   Reporting Query Logs                Manual Download     None
31. s3_client           S3 Client Logs                      Manual Download     None
32. scanning            Scanning Logs                       Manual Download     None
33. sdr_client          Sender Domain Reputation Logs       Manual Download     None
34. service_logs        Service Logs                        Manual Download     None
35. slbld_logs          Safe/Block Lists Logs               Manual Download     None
36. smartlicense        Smartlicense Logs                   Manual Download     None
37. snmp_logs           SNMP Logs                           Manual Download     None
38. sntpd_logs          NTP logs                            Manual Download     None
39. status              Status Logs                         Manual Download     None
40. system_logs         System Logs                         Manual Download     None
41. threatfeeds         Threat Feeds Logs                   Manual Download     None
42. trackerd_logs       Tracking Logs                       Manual Download     None
43. updater_logs        Updater Logs                        Manual Download     None
44. upgrade_logs        Upgrade Logs                        Manual Download     None
45. url_rep_client      URL Reputation Logs                 Manual Download     None

Choose the operation you want to perform:
- NEW - Create a new log.
- EDIT - Modify a log subscription.
- DELETE - Remove a log subscription.
- SETUP - General settings.
- LOGHEADERS - Configure headers to log.
- CEFLOGHEADERS - Configure list of headers to add in CEF log files.
- HOSTKEYCONFIG - Configure SSH host keys.
[]> ceflogheaders

Enter the list of headers to add in the CEF log files.
You can add multiple headers separated by commas.
[]> mail-id, mail-id1, mail-id, mail-id2
```

Example: Deleting Log Files

In the following example, you can use the `logconfig` > `deletelogfile` sub command to delete log files that belong to a log subscription.

```
mail1.example.com> logconfig

Currently configured logs:

    Log Name            Log Type                            Retrieval           Interval
 ------------------------------------------------------------------------------------
 1. amp                 AMP Engine Logs                     Manual Download     None
 2. amparchive          AMP Archive                         Manual Download     None
 3. antispam            Anti-Spam Logs                      Manual Download     None
 4. antivirus           Anti-Virus Logs                     Manual Download     None
 5. asarchive           Anti-Spam Archive                   Manual Download     None
 .  .  .  . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . .
41. threatfeeds         Threat Feeds Logs                   Manual Download     None
42. trackerd_logs       Tracking Logs                       Manual Download     None
43. updater_logs        Updater Logs                        Manual Download     None
44. upgrade_logs        Upgrade Logs                        Manual Download     None
45. url_rep_client      URL Reputation Logs                 Manual Download     None

Choose the operation you want to perform:
- NEW - Create a new log.
```

```
- EDIT - Modify a log subscription.
- DELETE - Remove a log subscription.
- DELETELOGFILE - Delete log files
- SETUP - General settings.
- LOGHEADERS - Configure headers to log.
- CEFLOGHEADERS - Configure list of headers to add in CEF log files.
- HOSTKEYCONFIG - Configure SSH host keys.
[]> deletelogfile

Currently configured logs:
    Log Name            No of Log Files
 -------------------------------------------------------------------------------
 1. amp                 8
 2. amparchive          9
 3. antispam            9
 4. antivirus           9
 5. asarchive           9
 6. authentication      9
 7. avarchive           9
 8. bounces             9
 9. cli_logs            9
10. cloud_connector     9
11. content_scanner     9
12. csa                 8
13. dlp                 9
14. eaas                9
15. ecs                 9
16. error_logs          9
17. euq_logs            9
18. euqgui_logs         9
19. ftpd_logs           9
20. gmarchive           9
21. graymail            8
22. gui_logs            7
23. ipr_client          9
24. mail_logs           9
25. remediation         9
26. reportd_logs        6
27. reportqueryd_logs   9
28. s3_client           8
29. scanning            8
30. sdr_client          9
31. service_logs        6
32. smartlicense        9
33. sntpd_logs          5
34. status              7
35. system_logs         8
36. threatfeeds         8
37. trackerd_logs       7
38. updater_logs        3
39. upgrade_logs        8
40. Other Logs

Enter the number of the log you wish to delete.
[]> 37

   Log File Name                File Size      File Created At
 -------------------------------------------------------------------------------
1. trackerd.@20220929T206351.s       292       Mon Sep 19 20:13:51 2022
2. trackerd.@20220929T207138.s       292       Mon Sep 19 20:31:38 2022
3. trackerd.@20220956T174828.s       292       Mon Sep 26 17:48:28 2022
4. trackerd.@20220956T174831.s       292       Mon Sep 26 17:48:31 2022
5. trackerd.@20220956T191457.s       292       Mon Sep 26 19:13:57 2022
6. trackerd.@20220976T191502.s       292       Mon Sep 26 19:14:02 2022
```

```
7. trackerd.@20221016T210701.s       292       Wed Oct 12 21:01:01 2022

Enter the number of the log file you want to delete.

Notes:
- To specify multiple log files, enter the required numbers separated by commas (for example:
 2,3,9)
- To specify a range of log files, enter the required range numbers with a dash (for example:
 2-5)
- To specify a combination of single and range, enter the required numbers with comma and
dash (for example: 2,4-6)

[]> 3

Warning:
The following log files - ['trackerd.@20220956T174828.s'] will be removed from the email
gateway immediately without a commit

Do you want to continue? [N]> Y

Log file /data/pub/trackerd_logs/trackerd.@20220956T174828.s has been deleted successfully
```

rollovernow

Description

Roll over a log file.

Usage

Commit: This command does not require a ‘commit’.

Cluster Management: This command is restricted to machine mode.

Batch Command: This command does not support a batch format.

Example

```
mail3.example.com> rollovernow
Currently configured logs:
1. "antispam" Type: "Anti-Spam Logs" Retrieval: FTP Poll
2. "antivirus" Type: "Anti-Virus Logs" Retrieval: FTP Poll
3. "asarchive" Type: "Anti-Spam Archive" Retrieval: FTP Poll
4. "authentication" Type: "Authentication Logs" Retrieval: FTP Poll
5. "avarchive" Type: "Anti-Virus Archive" Retrieval: FTP Poll
6. "bounces" Type: "Bounce Logs" Retrieval: FTP Poll
7. "cli_logs" Type: "CLI Audit Logs" Retrieval: FTP Poll
8. "encryption" Type: "Encryption Logs" Retrieval: FTP Poll
9. "error_logs" Type: "IronPort Text Mail Logs" Retrieval: FTP Poll
10. "euq_logs" Type: "IronPort Spam Quarantine Logs" Retrieval: FTP Poll
11. "euqgui_logs" Type: "IronPort Spam Quarantine GUI Logs" Retrieval: FTP Poll
12. "ftpd_logs" Type: "FTP Server Logs" Retrieval: FTP Poll
13. "gui_logs" Type: "HTTP Logs" Retrieval: FTP Poll
14. "mail_logs" Type: "IronPort Text Mail Logs" Retrieval: FTP Poll
15. "reportd_logs" Type: "Reporting Logs" Retrieval: FTP Poll
16. "reportqueryd_logs" Type: "Reporting Query Logs" Retrieval: FTP Poll
17. "scanning" Type: "Scanning Logs" Retrieval: FTP Poll
18. "slbld_logs" Type: "Safe/Block Lists Logs" Retrieval: FTP Poll
19. "sntpd_logs" Type: "NTP logs" Retrieval: FTP Poll
```

```
20. "status" Type: "Status Logs" Retrieval: FTP Poll
21. "system_logs" Type: "System Logs" Retrieval: FTP Poll
22. "trackerd_logs" Type: "Tracking Logs" Retrieval: FTP Poll
23. "updater_logs" Type: "Updater Logs" Retrieval: FTP Poll
24. All Logs
Which log would you like to roll over?
[]> 2
Log files successfully rolled over.
mail3.example.com>
```

snmpconfig

Description

Configure SNMP.

Usage

Commit: This command requires a 'commit'.

Cluster Management: This command can be used in all three machine modes (cluster, group, machine).

Batch Command: This command does not support a batch format.

Example

In the following example, the snmpconfig command is used to enable SNMP on the "PublicNet" interface on port 161. A passphrase for version 3 is entered and then re-entered for confirmation. The system is configured to service version 1 and 2 requests, and the community string public is entered for GET requests from those versions 1 and 2. The trap target of snmp-monitor.example.com is entered. Finally, system location and contact information is entered.

```
mail1.example.com> snmpconfig

Current SNMP settings:
SNMP Disabled.

Choose the operation you want to perform:
- SETUP - Configure SNMP.
[]> setup

Do you want to enable SNMP? [Y]>
SNMP default version is V3

Choose an IP interface for SNMP requests.
1. Management (10.10.4.5/27: mail1.example.com) [1]>

Which port shall the SNMP daemon listen on?
[161]>

Select SNMPv3 security level:
1. noAuthNoPriv - Authentication is done using the SNMPv3 username, and no privacy is
activated.
2. authNoPriv - Authentication is done using the SNMPv3 authentication passphrase, and no
privacy is activated.
3. authPriv - Authentication is done using the SNMPv3 authentication passphrase, and privacy
 is activated using the SNMPv3 privacy passphrase.
[3]>
```

Example

```
Select SNMPv3 authentication type:
1. SHA
[1]>

Select SNMPv3 privacy protocol:
1. AES
[1]>


Enter the SNMPv3 authentication passphrase.
[]>

The SNMPv3 passphrase must be at least 8 characters.

Enter the SNMPv3 authentication passphrase.
[]>

Enter the SNMPv3 authentication passphrase again to confirm.
[]>

Enter the SNMPv3 privacy passphrase.
[]>

Enter the SNMPv3 privacy passphrase again to confirm.
[]>
Warning: The same authentication and privacy passwords reduce the security of the system.

Do you want to set other passwords? [Y]> n

Service SNMP V1/V2c requests? [N]> Y

Enter the SNMP V1/V2c community string.
[ironport]>

Shall SNMP V2c requests be serviced from IPv4 addresses? [Y]>

From which IPv4 networks shall SNMP V1/V2c requests be allowed? Separate multiple networks
 with commas.
[127.0.0.1/32]>

Select the version for SNMP traps:
1. 2c
2. 3
[2]>

Enter the Trap target as a host name, IP address or list of IP addresses separated by commas
 (IP address preferred). Enter "None" to disable traps.
[127.0.0.1]> 10.10.0.28


Enterprise Trap Status
1. CPUUtilizationExceeded Disabled
2. FIPSModeDisableFailure Enabled
3. FIPSModeEnableFailure Enabled
4. FailoverHealthy Enabled
5. FailoverUnhealthy Enabled
6. connectivityFailure Disabled
7. keyExpiration Enabled
8. linkUpDown Enabled
9. memoryUtilizationExceeded Disabled
10. resourceConservationMode Enabled
11. updateFailure Enabled

Do you want to change any of these settings? [N]>
```

```
Enter the System Location string.
[Unknown: Not Yet Configured]>

Enter the System Contact string.
[snmp@localhost]>

Current SNMP settings:
Listening on interface "Management" 10.10.4.5/27 port 161.
SNMP v3: Enabled. Security level: authPriv
Authentication Protocol: SHA
Encryption Protocol: AES
SNMP v1/v2: Enabled, accepting requests from subnet 127.0.0.1/32,fe::1/64.
SNMP v1/v2 Community String: ironport
Trap version: V3
Trap target: 10.10.0.28

Location: Unknown: Not Yet Configured
System Contact: snmp@localhost

Choose the operation you want to perform:
- SETUP - Configure SNMP.
[]>
mail1.example.com > commit
```

tail

Description

Continuously display the end of a log file. The tail command also accepts the name or number of a log to view as a parameter: tail 9 or tail mail_logs.

Usage

Commit: This command does not require a ‘commit’.

Cluster Management: This command is restricted to machine mode. It is further restricted to the login host (i.e., the specific machine you are logged onto). This command requires access to the local file system.

Batch Command: This command does not support a batch format.

Example

```
mail3.example.com> tail
Currently configured logs:
1. "antispam" Type: "Anti-Spam Logs" Retrieval: FTP Poll
2. "antivirus" Type: "Anti-Virus Logs" Retrieval: FTP Poll
3. "asarchive" Type: "Anti-Spam Archive" Retrieval: FTP Poll
4. "authentication" Type: "Authentication Logs" Retrieval: FTP Poll
5. "avarchive" Type: "Anti-Virus Archive" Retrieval: FTP Poll
6. "bounces" Type: "Bounce Logs" Retrieval: FTP Poll
7. "cli_logs" Type: "CLI Audit Logs" Retrieval: FTP Poll
8. "encryption" Type: "Encryption Logs" Retrieval: FTP Poll
9. "error_logs" Type: "IronPort Text Mail Logs" Retrieval: FTP Poll
10. "euq_logs" Type: "IronPort Spam Quarantine Logs" Retrieval: FTP Poll
11. "euqgui_logs" Type: "IronPort Spam Quarantine GUI Logs" Retrieval: FTP Poll
12. "ftpd_logs" Type: "FTP Server Logs" Retrieval: FTP Poll
13. "gui_logs" Type: "HTTP Logs" Retrieval: FTP Poll
14. "mail_logs" Type: "IronPort Text Mail Logs" Retrieval: FTP Poll
```

```
15. "reportd_logs" Type: "Reporting Logs" Retrieval: FTP Poll
16. "reportqueryd_logs" Type: "Reporting Query Logs" Retrieval: FTP Poll
17. "scanning" Type: "Scanning Logs" Retrieval: FTP Poll
18. "slbld_logs" Type: "Safe/Block Lists Logs" Retrieval: FTP Poll
19. "sntpd_logs" Type: "NTP logs" Retrieval: FTP Poll
20. "status" Type: "Status Logs" Retrieval: FTP Poll
21. "system_logs" Type: "System Logs" Retrieval: FTP Poll
22. "trackerd_logs" Type: "Tracking Logs" Retrieval: FTP Poll
23. "updater_logs" Type: "Updater Logs" Retrieval: FTP Poll
Enter the number of the log you wish to tail.
[]> 19
Press Ctrl-C to stop.
Sat May 15 12:25:10 2008 Info: PID 274: User system commit changes: Automated Update for
Quarantine Delivery Host
Sat May 15 23:18:10 2008 Info: PID 19626: User admin commit changes:
Sat May 15 23:18:10 2008 Info: PID 274: User system commit changes: Updated filter logs
config
Sat May 15 23:46:06 2008 Info: PID 25696: User admin commit changes: Receiving suspended.
Sat May 15 23:46:06 2008 Info: PID 25696: User admin commit changes: Suspended receiving.
Sat May 15 23:46:35 2008 Info: PID 25696: User admin commit changes: Receiving resumed.
Sat May 15 23:46:35 2008 Info: PID 25696: User admin commit changes: Receiving resumed.
Sat May 15 23:48:17 2008 Info: PID 25696: User admin commit changes:
Sun May 16 00:00:00 2008 Info: Generated report: name b, start time Sun May 16 00:00:00
2004, size 2154 bytes
^C
mail3.example.com>
```

Reporting

This section contains the following CLI commands:

reportingconfig

Using the reportingconfig command

The following subcommands are available within the reportingconfig submenu:

Table 12: reportingconfig Subcommands

Syntax	Description	Availability
filters	Configure filters for the Cisco Secure Email Gateway.	M-Series only
alert_timeout	Configure when you will be alerted due to failing to get reporting data.	M-Series only
domain	Configure domain report settings.	M-Series only
mode	Enable centralized reporting on the Cisco Secure Email Gateway. Enable centralized or local reporting for the email gateway.	C-, M-Series
mailsetup	Configure reporting for the email gateway.	C-Series only

Usage

Commit: This command requires a ‘commit’.

Example: Enabling Reporting Filters (M-Series only)

```
mail3.example.com> reportingconfig
Choose the operation you want to perform:
- FILTERS - Configure filtering for the SMA.
- ALERT_TIMEOUT - Configure when you will be alerted due to failing to get reporting data
- DOMAIN - Configure domain report settings.
- MODE - Enable/disable centralized reporting.
[]> filters
Filters remove specific sets of centralized reporting data from the "last year" reports.
Data from the reporting groups selected below will not be recorded.
All filtering has been disabled.
1. No Filtering enabled
2. IP Connection Level Detail.
3. User Detail.
4. Mail Traffic Detail.
Choose which groups to filter, you can specify multiple filters by entering a comma separated
 list:
[]> 2, 3
Choose the operation you want to perform:
- FILTERS - Configure filtering for the SMA.
- ALERT_TIMEOUT - Configure when you will be alerted due to failing to get
reporting data
- DOMAIN - Configure domain report settings.
- MODE - Enable/disable centralized reporting.
[]>
```

Enabling HAT REJECT Information for Domain Reports (M-Series only)

```
mail3.example.com> reportingconfig
Choose the operation you want to perform:
- FILTERS - Configure filtering for the SMA.
- ALERT_TIMEOUT - Configure when you will be alerted due to failing to get reporting data
- DOMAIN - Configure domain report settings.
- MODE - Enable/disable centralized reporting.
[]> domain
If you have configured HAT REJECT policy on all remote appliances providing reporting data
 to this appliance to occur at the message
recipient level then of domain reports.
Use message recipient HAT REJECT information for domain reports? [N]> y
Choose the operation you want to perform:
- FILTERS - Configure filtering for the SMA.
- ALERT_TIMEOUT - Configure when you will be alerted due to failing to get reporting data
- DOMAIN - Configure domain report settings.
- MODE - Enable/disable centralized reporting.
[]>
```

Enabling Timeout Alerts (M-Series only)

```
mail3.example.com> reportingconfig
Choose the operation you want to perform:
- FILTERS - Configure filtering for the SMA.
- ALERT_TIMEOUT - Configure when you will be alerted due to failing to get reporting data
- DOMAIN - Configure domain report settings.
- MODE - Enable/disable centralized reporting.
```

```
[]> alert_timeout
An alert will be sent if reporting data has not been fetched from an appliance after 360
minutes.
Would you like timeout alerts to be enabled? [Y]> y
After how many minutes should an alert be sent?
[360]> 240
Choose the operation you want to perform:
- FILTERS - Configure filtering for the SMA.
- ALERT_TIMEOUT - Configure when you will be alerted due to failing to get reporting data
- DOMAIN - Configure domain report settings.
- MODE - Enable/disable centralized reporting.
[]>
```

Enabling Centralized Reporting for an Email Gateway

```
mail3.example.com> reportingconfig
Choose the operation you want to perform:
- MAILSETUP - Configure reporting for the ESA.
- MODE - Enable centralized or local reporting for the ESA.
[]> mode
Centralized reporting: Local reporting only.
Do you want to enable centralized reporting? [N]> y
Choose the operation you want to perform:
- MAILSETUP - Configure reporting for the ESA.
- MODE - Enable centralized or local reporting for the ESA.
[]>
```

Configure Storage Limit for Reporting Data (C-Series only)

```
mail.example.com> reportingconfig
Choose the operation you want to perform:
- MAILSETUP - Configure reporting for the ESA.
- MODE - Enable centralized or local reporting for the ESA.
[]> mailsetup
SenderBase timeout used by the web interface: 5 seconds
Sender Reputation Multiplier: 3
The current level of reporting data recording is: unlimited
No custom second level domains are defined.
Legacy mailflow report: Disabled
Choose the operation you want to perform:
- SENDERBASE - Configure SenderBase timeout for the web interface.
- MULTIPLIER - Configure Sender Reputation Multiplier.
- COUNTERS - Limit counters recorded by the reporting system.
- THROTTLING - Limit unique hosts tracked for rejected connection reporting.
- TLD - Add customer specific domains for reporting rollup.
- STORAGE - How long centralized reporting data will be stored on the C-series before being
 overwritten.
- LEGACY - Configure legacy mailflow report.
[]> storage
While in centralized mode the C-series will store reporting data for the M-series to collect.

If the M-series does not collect that data then eventually the C-series will begin to
overwrite the oldest data with new data.
A maximum of 24 hours of reporting data will be stored.
How many hours of reporting data should be stored before data loss?
[24]> 48
SenderBase timeout used by the web interface: 5 seconds
Sender Reputation Multiplier: 3
The current level of reporting data recording is: unlimited
No custom second level domains are defined.
Legacy mailflow report: Disabled
```

```
Choose the operation you want to perform:
- SENDERBASE - Configure SenderBase timeout for the web interface.
- MULTIPLIER - Configure Sender Reputation Multiplier.
- COUNTERS - Limit counters recorded by the reporting system.
- THROTTLING - Limit unique hosts tracked for rejected connection reporting.
- TLD - Add customer specific domains for reporting rollup.
- STORAGE - How long centralized reporting data will be stored on the C-series
before being overwritten.
- LEGACY - Configure legacy mailflow report.
[]>
```

Improving Phishing Detection using Service Logs

This section contains the following CLI command:

- servicelogsconfig, on page 299

servicelogsconfig

- Description, on page 299
- Usage, on page 299
- Example - Enabling Service Logs on Email Gateway, on page 299
- Example - Disabling Service Logs on Email Gateway, on page 300

Description

The `servicelogsconfig` command is used to enable or disable Service Logs on your email gateway.

Usage

Commit: This command requires a 'commit'.

Cluster Management: This command can be used in all three machine modes (cluster, group, machine).

Batch Command: This command supports a batch format.

Example - Enabling Service Logs on Email Gateway

In the following example, you can use the `servicelogsconfig` command to enable Service Logs on your email gateway.

```
mail1.example.com> servicelogsconfig

Share limited data with Service Logs Information Service: Disabled.

Choose the operation you want to perform:
- SETUP - Configure Service Logs settings
[]> setup

Do you want to share data with the Service Logs Information Service (recommended)? [N]>
 yes

Share limited data with Service Logs Information Service: Enabled
```

```
Choose the operation you want to perform:
- SETUP - Configure Service Logs settings
[]>
```

Example - Disabling Service Logs on Email Gateway

In the following example, you can use the `servicelogsconfig` command to disable Service Logs on your email gateway.

```
mail1.example.com> servicelogsconfig

Share limited data with Service Logs Information Service: Enabled.

Choose the operation you want to perform:
- SETUP - Configure Service Logs settings
[]> setup

Do you want to share data with the Service Logs Information Service (recommended)? [N]>
 no

The system will no longer share data with Service Logs.
Are you sure you want to disable (not recommended)? [N]> yes

Share limited data with Service Logs Information Service: Disabled

Choose the operation you want to perform:
- SETUP - Configure Service Logs settings
[]>
```

Sender Domain Reputation Filtering

This section contains the following CLI commands:

- sdrconfig, on page 300
- sdradvancedconfig, on page 302
- sdrdiagnostics, on page 303

sdrconfig

- Description, on page 300
- Usage, on page 301
- Example, on page 301
- Example – Blocking Messages based on SDR Verdicts at SMTP Conversation Level, on page 301

Description

The `sdrconfig` command is used to enable SDR filtering on your email gateway.

Usage

Commit: This command requires a 'commit'.

Cluster Management: This command can be used in all three machine modes (cluster, group, machine).

Batch Command: This command supports a batch format. For more details, see the inline help by typing the command: `help sdrconfig`.

Example

In the following example, you can use the `sdrconfig` command to enable SDR filtering on your email gateway.

```
mail.example.com > sdrconfig

Would you like to enable sender domain reputation check? [N]> yes

SDR uses headers such as 'Envelope-From:', 'From:' and 'Reply-to' to determine the reputation
 of the message.
In addition, it also uses the results of the email authentication mechanisms such as SPF,
DKIM, and DMARC
to decide the reputation.
The following additional attributes of the message can also be included in the Sender Domain
 Reputation
check to improve the efficacy:

- Username part of the email address present in the 'Envelope-From:', 'From:' and 'Reply-To:'
 headers.
- Display name in the 'From:' and 'Reply-To:' headers.

Do you want to include these additional attributes of the message for the Sender Domain
Reputation check? [N]> yes

Sender Domain Reputation (SDR) is a new feature in AsyncOS 12.0 that sends certain telemetry
 data to Cisco.
If you choose to enable the 'Additional Attributes' function in SDR, that telemetry data
will include
the processing of personal data as described in the Cisco ESA Privacy Data Sheet
(https://www.cisco.com/c/en/us/about/trust-center/solutions-privacy-data-sheets.html) and
the
Cisco Online Privacy Statement (https://www.cisco.com/c/en_in/about/legal/privacy-full.html).

To enable the "Additional Attributes" feature in SDR, you must agree to the Cisco Content
Security Supplemental
End User License Agreement
(https://www.cisco.com/c/en/us/about/legal/cloud-and-software/software-terms.html).
By selecting Yes, you agree to be bound to the Cisco Content Security Supplemental End User
 License Agreement
(https://www.cisco.com/c/en/us/about/legal/cloud-and-software/software-terms.html).

I accept the Cisco Content Security Supplemental End User License Agreement. [N]> yes
```

Example – Blocking Messages based on SDR Verdicts at SMTP Conversation Level

In the following example, you can use the `sdrconfig` command to block messages based on the SDR verdicts (for example, ‘Untrusted,' 'Questionable,' and 'Unknown’) at the SMTP conversation level.

```
mail.example.com > sdrconfig

Would you like to disable the Sender Domain Reputation check? [N]> no
```

```
SDR uses headers such as 'Envelope-From:', 'From:' and 'Reply-to' to determine the reputation
 of the message. In addition, it also uses the results of
the email authentication mechanisms such as SPF, DKIM, and DMARC to decide the reputation.

The following additional attributes of the message can also be included in the Sender Domain
 Reputation check to improve the efficacy:
- Username part of the email address present in the 'Envelope-From:', 'From:' and 'Reply-To:'
 headers.
- Display name in the 'From:' and 'Reply-To:' headers.

Do you want to include these additional attributes of the message for the Sender Domain
Reputation check? [N]>

Do you want to block messages based on Sender Domain Reputation threat level? [Y]> yes

Threat levels configured to be blocked currently:
"Untrusted"

Sender Domain Reputation Threat Levels:
1. Untrusted
2. Questionable
3. Neutral
4. Favorable
Choose the sender domain reputation threat level upto which email should be blocked. Enter
 0 to select none of the threat levels:[1]> 2

Do you want to block messages for threat level Unknown verdict? [N]> yes

Email with the following Sender Domain Reputation threat levels will be blocked:
"Untrusted Questionable Unknown"

NOTE: Email with the Sender Domain Reputation threat level as 'Trusted' will always be
allowed.

mail1.example.com> commit

Please enter some comments describing your changes:
[]> Changes committed

Do you want to save the current configuration for rollback? [Y]>

Changes committed: Tue Nov 23 09:46:31 2021 GMT
mail1.example.com>
```

sdradvancedconfig

- Description, on page 302
- Usage, on page 302
- Example, on page 303

Description

The `sdradvancedconfig` command is used to configure advanced parameters when connecting your email gateway to the SDR service.

Usage

Commit: This command requires a 'commit'.

Cluster Management: This command can be used in all three machine modes (cluster, group, machine).

Batch Command: This command supports a batch format. For more details, see the inline help by typing the command: `help sdradvancedconfig`.

Example

In the following example, you can use the `sdradvancedconfig` command to configure advanced parameters when connecting your email gateway to the SDR service.

```
mail.example.com > sdradvancedconfig

Enter SDR query timeout in seconds [5]> 3


Do you want exception list matches based on envelope-from domain only? [Y]>
```

sdrdiagnostics

- Description, on page 303
- Usage, on page 303
- Example, on page 303

Description

The `sdrdiagnostics` command is used to check if your email gateway is connected to the SDR service.

Usage

Commit: This command does not require a 'commit'.

Cluster Management: This command is restricted to the machine mode.

Batch Command: This command does not support a batch format.

Example

In the following example, you can use the `sdrdiagnostics` command to check if your email gateway is connected to the SDR service.

```
mail.example.com > sdrdiagnostics

1. Show status of the domain reputation service
[1]> 1
Connection Status: Connected
```

Mailbox Auto Remediation

This section contains the following CLI commands:

- marstatus, on page 304
- marupdate, on page 304

marstatus

- Description, on page 304
- Usage, on page 304
- Example, on page 304

Description

The `marstatus` command is used to display the current version of the MAR component.

Usage

Commit: This command does not require a 'commit'.

Cluster Management: This command is restricted to the machine mode.

Batch Command: This command does not support a batch format.

Example

In the following example, you can use the `marstatus` command to view the current version of the Mailbox Auto Remediation component.

```
mail.example.com> marstatus

Component               Version        Last Updated
Mailbox Remediation      1.0            29 Jun 2019 04:22 (GMT +00:00)
```

marupdate

- Description, on page 304
- Usage, on page 304
- Example, on page 304

Description

The `marupdate` command is used to manually update the MAR component.

Usage

Commit: This command does not require a 'commit'.

Cluster Management: This command is restricted to the machine mode.

Batch Command: This command does not support a batch format.

Example

In the following example, you can use the `marupdate` command to manually update the Mailbox Auto Remediation component.

```
mail.example.com > marupdate

Requesting update of Mailbox Remediation component.
```

Smart Software Licensing

This section contains the following CLI commands:

- license_smart, on page 305
- showlicense_smart, on page 315
- smartaccountinfo, on page 316

license_smart

- Description, on page 306
- Usage, on page 306
- Example: Configuring Port for Smart Agent Service, on page 306
- Example: Enabling Smart Licensing, on page 306
- Example: Registering the Email Gateway with the Smart Software Manager, on page 307
- Example: Status of Smart Licensing, on page 307
- Example: Status Summary of Smart Licensing, on page 307
- Example: Setting the Smart Transport URL, on page 307
- Example: Requesting Licenses, on page 308
- Example: Releasing Licenses, on page 308
- Example - Enabling Smart Software Licensing for all Machines in Cluster , on page 309
- Example - Registering all Machines in Cluster with Cisco Smart Software Manager , on page 309
- Example - Enabling and Registering License Reservation, on page 310
- Example - Updating License Reservation, on page 311
- Example - Removing License Reservation, on page 312
- Example - Disabling License Reservation, on page 313
- Example - Enabling License Reservation in Cluster Mode, on page 313
- Example - Disabling License Reservation in Cluster Mode, on page 314
- Example - Enabling Device Led Conversion Process Manually, on page 314
- Example - Switching to Relay Mode, on page 315

Description

Configure smart software licensing feature.

Usage

Commit: This command requires a 'commit'.

Cluster Management: This command can be used only in machine mode. This command does not support cluster and group mode.

Batch Command: This command supports a batch format. For details, see the inline help by typing the command: `help license_smart`

Example: Configuring Port for Smart Agent Service

```
mail.example.com> license_smart
Choose the operation you want to perform:
- ENABLE - Enables Smart Licensing on the product.
- SETAGENTPORT - Set port to run Smart Agent service.
[]> setagentport

Enter the port to run smart agent service.
[65501]>
```

Example: Enabling Smart Licensing

```
mail.example.com> license_smart
Choose the operation you want to perform:
- ENABLE - Enables Smart Licensing on the product.
- SETAGENTPORT - Set port to run Smart Agent service.
[]> enable
After enabling Smart Licensing on your appliance, follow below steps to activate the feature
 keys (licenses):
Option-1
---------
a) Register the product with Smart Software Manager using license_smart > register command
 in the CLI.
b) Activate the feature keys using license_smart > requestsmart_license command in the CLI.
Option-2
---------
You can reserve feature licenses for your Email Gateway without connecting to the Cisco
Smart Software Manager (CSSM)
portal.
Note: If you are using a virtual appliance, and if none of the features are available in
the Classic Licensing mode;
you will not be able to activate the licenses after you switch to the Smart Licensing mode.
 You need to register your
appliance first, and then you can activate the licenses (features) in the Smart Licensing
mode.
You cannot roll back from Smart License to Classic License, after you enable Smart License
 feature on your appliance.

Commit your changes to enable the Smart Licensing mode on your appliance. All the features
 available in the Classic
Licensing mode will be available in the Evaluation period.
Type "Y" if you want to continue, or type "N" if you want to use the classic licensing mode
 [Y/N] []>
```

Example: Registering the Email Gateway with the Smart Software Manager

```
mail.example.com> license_smart
To start using the licenses, please register the product.
Choose the operation you want to perform:
- REGISTER - Register the product for Smart Licensing.
- URL - Set the Smart Transport URL.
- STATUS - Show overall Smart Licensing status.
- SUMMARY - Show Smart Licensing status summary.
[]> register
Reregister this product instance if it is already registered [N]> n
Enter token to register the product:
[]> ODRlOTM5MjItOTQzOS00YjY0LWExZTUtZTdmMmY3OGNlNDZmLTE1MzM3Mzgw%0AMDEzNTR
8WlpCQ1lMbGVMQWRxOXhuenN4OWZDdktFckJLQzF5V3VIbzkyTFgx%0AQWcvaz0%3D%0A
Product Registration is in progress. Use license_smart > status command to check status of
 registration.
```

Example: Status of Smart Licensing

```
mail.example.com> license_smart
To start using the licenses, please register the product.
Choose the operation you want to perform:
- REQUESTSMART_LICENSE - Request licenses for the product.
- RELEASESMART_LICENSE - Release licenses of the product.
- REGISTER - Register the product for Smart Licensing.
- URL - Set the Smart Transport URL.
- STATUS - Show overall Smart Licensing status.
- SUMMARY - Show Smart Licensing status summary.
[]> status
Smart Licensing is: Enabled
Evaluation Period: In Use
Evaluation Period Remaining: 89 days 23 hours 53 minutes
Registration Status: Unregistered
Virtual Account: Not Available
Smart Account: Not Available
License Authorization Status: Evaluation Mode
Last Authorization Renewal Attempt Status: No Communication Attempted
Product Instance Name: mail.example.com
Transport Settings: Direct (https://smartreceiver.cisco.com/licservice/license)
```

Example: Status Summary of Smart Licensing

```
mail.example.com> license_smart
To start using the licenses, please register the product.
Choose the operation you want to perform:
- REGISTER - Register the product for Smart Licensing.
- URL - Set the Smart Transport URL.
- STATUS - Show overall Smart Licensing status.
- SUMMARY - Show Smart Licensing status summary.
[]> summary
FeatureName                                         LicenseAuthorizationStatus
Mail Handling                                       Eval
Email Security Appliance Bounce Verification        Eval
Email Security Appliance Outbreak Filters           Eval
```

Example: Setting the Smart Transport URL

```
mail.example.com> license_smart
Choose the operation you want to perform:
- REQUESTSMART_LICENSE - Request licenses for the product.
- RELEASESMART_LICENSE - Release licenses of the product.
- REGISTER - Register the product for Smart Licensing.
```

```
- URL - Set the Smart Transport URL.
- STATUS - Show overall Smart Licensing status.
- SUMMARY - Show Smart Licensing status summary.
[]> url
1. DIRECT - Product communicates directly with the cisco license servers
2. TRANSPORT_GATEWAY - Product communicates via transport gateway or smart software manager
 satellite.
Choose from the following menu options:
[1]> direct
You must enter a value from 1 to 2.
1. DIRECT - Product communicates directly with the cisco license servers
2. TRANSPORT_GATEWAY - Product communicates via transport gateway or smart software manager
 satellite.
Choose from the following menu options:
[1]> 1
Note: The appliance uses the Direct URL
(https://smartreceiver.cisco.com/licservice/license) to communicate with Cisco
Smart Software Manager (CSSM) via the proxy server configured using the updateconfig command.
Transport settings will be updated after commit.
```

Example: Requesting Licenses

Note Users of virtual email gateway must register their email gateway to request for or release the licenses.

```
mail.example.com> license_smart
Choose the operation you want to perform:
- REQUESTSMART_LICENSE - Request licenses for the product.
- RELEASESMART_LICENSE - Release licenses of the product.
- REGISTER - Register the product for Smart Licensing.
- URL - Set the Smart Transport URL.
- STATUS - Show overall Smart Licensing status.
- SUMMARY - Show Smart Licensing status summary.
[]> requestsmart_license
Feature Name                                        License Authorization Status
1. Email Security Appliance Sophos Anti-Malware        Not Requested
2. Email Security Appliance PXE Encryption             Not requested

Enter the appropriate license number(s) for activation.
Separate multiple license with comma or enter range:
[]> 1
Activation is in progress for following features:
Email Security Appliance Sophos Anti-Malware
Use license_smart > summary command to check status of licenses.
```

Example: Releasing Licenses

```
mail.example.com> license_smart
Choose the operation you want to perform:
- REQUESTSMART_LICENSE - Request licenses for the product.
- RELEASESMART_LICENSE - Release licenses of the product.
- REGISTER - Register the product for Smart Licensing.
- URL - Set the Smart Transport URL.
- STATUS - Show overall Smart Licensing status.
- SUMMARY - Show Smart Licensing status summary.
[]> releasesmart_license
Feature Name                                          License Authorization Status
1. Email Security Appliance Anti-Spam License         Eval
2. Email Security Appliance Outbreak Filters          Eval
3. Email Security Appliance Graymail Safe-unsubscribe Eval
```

```
5. Mail Handling                                          Eval
6. Email Security Appliance Sophos Anti-Malware           Eval
7. Email Security Appliance PXE Encryption                Eval
8. Email Security Appliance Advanced Malware Protection   Eval

Enter the appropriate license number(s) for deactivation.
Separate multiple license with comma or enter range:
[]>
```

Example - Enabling Smart Software Licensing for all Machines in Cluster

In this example, you can use the `license_smart > enable` sub command to enable smart software licensing for all the machines in the cluster.

```
(Machine mail1.example.com)> license_smart



Choose the operation you want to perform:
- ENABLE - Enables Smart Licensing on the product.
- SETAGENTPORT - Set port to run Smart Agent service.
[]> enable



After enabling Smart Licensing on your appliance, follow below steps to activate the feature
 keys (licenses):
a) Register the product with Smart Software Manager using license_smart > register command
 in the CLI.
b) Activate the feature keys using license_smart > requestsmart_license command in the CLI.

Note: If you are using a virtual appliance, and if none of the features are available in
the classic licensing mode; you will not be able to activate the licenses, after you switch
 to the smart licensing mode. You need to first register your appliance, and then you can
activate the licenses (features) in the smart licensing mode.

Commit your changes to enable the Smart Licensing mode on your appliance. All the features
 available in the Classic Licensing mode will be available in the Evaluation period.

Do you want to enable Smart Software Licensing for all machines in cluster[Y/N]? []> yes

Type "Y" if you want to continue, or type "N" if you want to use the classic licensing mode
 [Y/N] []> yes

Choose the operation you want to perform:
- ENABLE - Enables Smart Licensing on the product.
- SETAGENTPORT - Set port to run Smart Agent service.
[]>
(Machine mail1.example.com)> commit
Please enter some comments describing your changes:
[]>
Changes committed: Mon Jan 04 14:10:26 2021 GMT
(Machine mail1.example.com)>
```

Example - Registering all Machines in Cluster with Cisco Smart Software Manager

In this example, you can use the `license_smart > register` sub command to register all the machines in the cluster with Cisco Smart Software Manager.

```
(Machine mail1.example.com)> license_smart
```

```
To start using the licenses, please register the product.

Choose the operation you want to perform:
- REGISTER - Register the product for Smart Licensing.
- URL - Set the Smart Transport URL.
- STATUS - Show overall Smart Licensing status.
- SUMMARY - Show Smart Licensing status summary.
[]> register



Reregister this product instance if it is already registered [N]> y

Enter token to register the product:
[]> YTFmZWTMtOTU…….

Do you want to register Smart Software Licensing across machines in cluster[Y/N]? []> yes

The registration is in progress for the following machines:
maill.example.com

You need to switch to the machine mode to view the Smart Software Licensing details for the
 particular machine.
(Machine maill.example.com)>
```

Example - Enabling and Registering License Reservation

In this example, you can use the `license_smart > enable_reservation` sub command to enable and register the license reservation in your email gateway.

```
mail.example.com > license_smart

Choose the operation you want to perform:
- REQUESTSMART_LICENSE - Request licenses for the product.
- RELEASESMART_LICENSE - Release licenses of the product.
- REGISTER - Register the product for Smart Licensing.
- URL - Set the Smart Transport URL.
- STATUS - Show overall Smart Licensing status.
- SUMMARY - Show Smart Licensing status summary.
- ENABLE_RESERVATION - Enable specific or permanent license reservations on your email
gateway.
[]> enable_reservation

Would you like to reserve license, then type "Y" else type "N" [Y/N] []> yes


License Reservation is enabled for the following machines:
mail1.example.com

License Reservation is enabled

Choose the operation you want to perform:
- STATUS - Show overall Smart Licensing status.
- SUMMARY - Show Smart Licensing status summary.
- DISABLE_RESERVATION - Disable specific or permanent license reservations on your email
gateway.
- REQUEST_CODE - Provide the request code generated on your email gateway.
[]> request_code


The generation of the request code is initiated...
```

```
Copy the request code obtained on your email gateway and paste it in the Cisco Smart Software
 Manager portal to select the required license

Request code: CD-ZESA:BD20B624E904-B7HCL9scQ-DD

Choose the operation you want to perform:
- STATUS - Show overall Smart Licensing status.
- SUMMARY - Show Smart Licensing status summary.
- DISABLE_RESERVATION - Disable specific or permanent license reservations on your email
gateway.
- REQUEST_CODE - Provide the request code generated on your email gateway.
- INSTALL_AUTHORIZATION_CODE - Install the authorization code for specific or permanent
license reservations on your email gateway.
- CANCEL_REQUEST_CODE - Cancel the request code generated on your email gateway.
[]> install_authorization_code
1. Paste via CLI
2. Import the Authorization Code from a file

How would you like to install Authorization Code?
[1]>
Paste the Authorization code now.
Press CTRL-D on a blank line when done.
<specificPLR><authorizationCode><flag>A</flag><version>C</version>
<piid>7b654af6-9d60-46f5-a79-.....PS/o+6</signature><udi>P:ESA,
S:BE30B124E904</udi></specificPLR>
^D
The SPECIFIC license reservation is successfully installed on your email gateway
Choose the operation you want to perform:
- STATUS - Show overall Smart Licensing status.
- SUMMARY - Show Smart Licensing status summary.
- DISABLE_RESERVATION - Disable specific or permanent license reservations on your email
gateway.
- REAUTHORIZE - Install the authorization code to update specific or permanent license
reservations on your email gateway.
- CONFIRM_CODE - Provide the confirmation code generated on your email gateway.
- RETURN_RESERVATION - Remove the specific or permanent license reservations on your email
 gateway.
[]>
```

Example - Updating License Reservation

In this example, you can use the `license_smart` > `reauthorize` sub command to reserve license for a new feature or modify the existing license reservation for a feature.

```
mail.example.com > license_smart

Choose the operation you want to perform:
- STATUS - Show overall Smart Licensing status.
- SUMMARY - Show Smart Licensing status summary.
- DISABLE_RESERVATION - Disable specific or permanent license reservations on your email
gateway.
- REAUTHORIZE - Install the authorization code to update specific or permanent license
reservations on your email gateway.
- CONFIRM_CODE - Provide the confirmation code generated on your Secure email gateway.
- RETURN_RESERVATION - Remove the specific or permanent license reservations on your email
 gateway.
[]> reauthorize

1. Paste via CLI
2. Import the Authorization Code from a file
How would you like to install Authorization Code?
[1]>
Paste the Authorization code now.
```

```
Press CTRL-D on a blank line when done.
<specificPLR><authorizationCode><flag>A</flag><version>
C</version><piid>6b684af8-4d20-42f5-ab89-……..</authorizationCode>
<signature>MEYCIDS7IZQuLvMMmiXMH2eZOwf7cy6rjgc7kxBIja</signature><udi>P:ESA,
S:BD660B174E904</udi></specificPLR>
^D

The SPECIFIC license reservation is successfully installed on your email gateway.

Copy the confirmation code obtained from Smart Agent and add it to the Cisco Smart Software
 Manager portal to update the specific reservation.

Confirmation code: 1f87b235

Choose the operation you want to perform:
- STATUS - Show overall Smart Licensing status.
- SUMMARY - Show Smart Licensing status summary.
- DISABLE_RESERVATION - Disable specific or permanent license reservations on your email
gateway.
- REAUTHORIZE - Install the authorization code to update specific or permanent license
reservations on your email gateway.
- CONFIRM_CODE - Provide the confirmation code generated on your email gateway.
- RETURN_RESERVATION - Remove the specific or permanent license reservations on your email
 gateway.
[]>
```

Example - Removing License Reservation

In this example, you can use the `license_smart` > `return_reservation` sub command to remove the specific or permanent license reservation for the features enabled in your email gateway.

```
mail.example.com > license_smart

Choose the operation you want to perform:
- STATUS - Show overall Smart Licensing status.
- SUMMARY - Show Smart Licensing status summary.
- DISABLE_RESERVATION - Disable specific or permanent license reservations on your email
gateway.
- REAUTHORIZE - Install the authorization code to update specific or permanent license
reservations on your email gateway.
- CONFIRM_CODE - Provide the confirmation code generated on your email gateway.
- RETURN_RESERVATION - Remove the specific or permanent license reservations on your email
 gateway.
[]> return_reservation

After you return the license reservation, you cannot use any of the product features, if
the evaluation period has exceeded 90 days. After the 90 days
evaluation period, you must register your product with Cisco Smart Software Manager to
continue to use the product features. [N]> yes

The generation of the return code is initiated...

Copy the return code obtained on your email gateway and paste it in the Cisco Smart Software
 Manager portal.

Return Code: C97xKY-otSY8D-ertAf-v-fbEu5q-APo

Choose the operation you want to perform:
- STATUS - Show overall Smart Licensing status.
- SUMMARY - Show Smart Licensing status summary.
- DISABLE_RESERVATION - Disable specific or permanent license reservations on your email
gateway.
- REQUEST_CODE - Provide the request code generated on your email gateway.
```

```
[]>

mail1.example.com>
```

Example - Disabling License Reservation

In this example, you can use the `license_smart > disable_reservation` sub command to disable the license reservation on your email gateway.

```
mail.example.com > license_smart

Choose the operation you want to perform:
- STATUS - Show overall Smart Licensing status.
- SUMMARY - Show Smart Licensing status summary.
- DISABLE_RESERVATION - Disable specific or permanent license reservations on your email
gateway.
- REQUEST_CODE - Provide the request code generated on your email gateway.
- INSTALL_AUTHORIZATION_CODE - Install the authorization code for specific or permanent
license reservations on your email gateway.
- CANCEL_REQUEST_CODE - Cancel the request code generated on your email gateway.
[]> disable_reservation


A request code for the specific or permanent reservation is generated on your email gateway.
 If you want to disable the reservation, it cancels the request code.

Do you want to disable the specific or permanent reservation? [Y/N] []> yes

License Reservation is disabled for the following machines:
mail1.example.com

License Reservation is disabled

Choose the operation you want to perform:
- REQUESTSMART_LICENSE - Request licenses for the product.
- RELEASESMART_LICENSE - Release licenses of the product.
- REGISTER - Register the product for Smart Licensing.
- URL - Set the Smart Transport URL.
- STATUS - Show overall Smart Licensing status.
- SUMMARY - Show Smart Licensing status summary.
- ENABLE_RESERVATION - Enable specific or permanent license reservations on your email
gateway.
[]>
```

Example - Enabling License Reservation in Cluster Mode

In this example, you can use the `license_smart > enable_reservation` sub command to enable the license reservation for all machines in the cluster.

```
(Machine mail1.example.com)> license_smart

To start using the licenses, please register the product.

 Choose the operation you want to perform:
- REGISTER - Register the product for Smart Licensing.
 - URL - Set the Smart Transport URL.
 - STATUS - Show overall Smart Licensing status.
 - SUMMARY - Show Smart Licensing status summary.
 - ENABLE_RESERVATION - Enable specific or permanent license reservations on your Email
Gateway.
[]> enable_reservation

Would you like to reserve license, then type "Y" else type "N" [Y/N] []> yes
```

```
Do you want to enable License Reservation for all machines in cluster[Y/N]? []> yes

License Reservation is enabled for the following machines:
mail1.example.com, mail2.example.com

Choose the operation you want to perform:
- STATUS - Show overall Smart Licensing status.
 - SUMMARY - Show Smart Licensing status summary.
 - DISABLE_RESERVATION - Disable specific or permanent license reservations on your Email
Gateway.
- REQUEST_CODE - Provide the request code generated on your Email Gateway.
[]>
```

Example - Disabling License Reservation in Cluster Mode

In this example, you can use the `license_smart > disable_reservation` sub command to disable the license reservation for all machines in the cluster.

```
Machine mail1.example.com)> license_smart

Choose the operation you want to perform:
- STATUS - Show overall Smart Licensing status.
 - SUMMARY - Show Smart Licensing status summary.
 - DISABLE_RESERVATION - Disable specific or permanent license reservations on your Email
Gateway.
 - REQUEST_CODE - Provide the request code generated on your Email Gateway.
 []> disable_reservation

Do you want to disable License Reservation for all machines in cluster[Y/N]? []> yes

License Reservation is disabled for the following machines:

mail1.example.com, mail2.example.com

To start using the licenses, please register the product.

Choose the operation you want to perform:
 - REGISTER - Register the product for Smart Licensing.
- URL - Set the Smart Transport URL.
 - STATUS - Show overall Smart Licensing status.
- SUMMARY - Show Smart Licensing status summary.
- ENABLE_RESERVATION - Enable specific or permanent license reservations on your Email
Gateway.
 []>
```

Example - Enabling Device Led Conversion Process Manually

In this example, you can use the `license_smart > conversion_start` sub command to enable the Device Led Conversion (DLC) process manually on your email gateway.

```
mail.example.com > license_smart

Deregister your email gateway from the Cisco Smart Software Manager portal to
enable the license reservation

Choose the operation you want to perform:
- URL - Set the Smart Transport URL.
- REQUESTSMART_LICENSE - Request licenses for the product.
- RELEASESMART_LICENSE - Release licenses of the product.
- DEREGISTER - Deregister the product from Smart Licensing.
- REREGISTER - Reregister the product for Smart Licensing.
- RENEW_AUTH - Renew authorization of Smart Licenses in use.
```

```
- RENEW_ID - Renew registration with Smart Licensing.
- STATUS - Show overall Smart Licensing status.
- SUMMARY - Show Smart Licensing status summary.
- CONVERSION_START - To manually convert the classic license keys to smart Licensing
[]> conversion_start


Do you want to start the process of converting your classic license keys to smart software
 licensing[Y/N]? []> yes
```

Example - Switching to Relay Mode

In this example, you can use the `license_smart > switch_to_relay_mode` sub command to switch your email gateway to Relay Mode.

```
mail.example.com > license_smart

Deregister your email gateway from the Cisco Smart Software Manager portal to
enable the license reservation

Choose the operation you want to perform:
- URL - Set the Smart Transport URL.
- REQUESTSMART_LICENSE - Request licenses for the product.
- RELEASESMART_LICENSE - Release licenses of the product.
- DEREGISTER - Deregister the product from Smart Licensing.
- REREGISTER - Reregister the product for Smart Licensing.
- RENEW_AUTH - Renew authorization of Smart Licenses in use.
- RENEW_ID - Renew registration with Smart Licensing.
- STATUS - Show overall Smart Licensing status.
- SUMMARY - Show Smart Licensing status summary.
- CONVERSION_START - To manually convert the classic license keys to smart Licensing
- SWITCH_TO_RELAY_MODE - Switching to relay mode.
[]> switch_to_relay_mode

Important!
 If you switch to Relay mode, you will not be able to revert to normal mode, and all the
licenses associated with the normal mode will be released.
Are you sure you wish to continue?  [N]> y
Switching to relay mode is in progress.

Use the license_smart > summary subcommand to view the Secure Email Relay licenses.
```

showlicense_smart

- Description, on page 315
- Example: Status of Smart Licensing, on page 315
- Example: Status Summary of Smart Licensing, on page 316

Description

Show Smart Licensing status and summary of status.

Example: Status of Smart Licensing

```
mail.example.com> showlicense_smart
Choose the operation you want to perform:
- STATUS- Show overall Smart Licensing status.
```

```
- SUMMARY - Show Smart Licensing summary.
[]> status
Smart Licensing is: Enabled
Evaluation Period: In Use
Evaluation Period Remaining: 89 days 23 hours 53 minutes
Registration Status: Unregistered
Virtual Account: Not Available
Smart Account: Not Available
License Authorization Status: Evaluation Mode
Last Authorization Renewal Attempt Status: No Communication Attempted
Product Instance Name: mail.example.com
Transport Settings: Direct (https://smartreceiver.cisco.com/licservice/license)
```

Example: Status Summary of Smart Licensing

```
mail.example.com> showlicense_smart
Choose the operation you want to perform:
- STATUS- Show overall Smart Licensing status.
- SUMMARY - Show Smart Licensing summary.

[]> summary

FeatureName                          LicenseAuthorizationStatus
Mail Handling                                              Eval
Email Security Appliance Bounce Verification               Eval
Email Security Appliance Outbreak Filters                  Eval
```

smartaccountinfo

- Description, on page 316
- Usage, on page 316
- Example: Viewing Smart Account Details, on page 316

Description

The `smartaccountinfo` command is used to view details of the smart account created in the Cisco Smart Software Manager portal

Usage

Commit: This command requires a 'commit.'

Cluster Management: This command can be used in all three machine modes (cluster, group, and machine).

Batch Command: This command supports a batch format.

Example: Viewing Smart Account Details

In this example, you can use the `smartaccountinfo` command to view details of the smart account created in the Cisco Smart Software Manager portal:

```
mail1.example.com> smartaccountinfo

Smart Account details
---------------------

Product Instance ID: b56r42423-5sdf-5fsf-7823-r24gf32ad334s
```

```
Smart Account Domain: exampleaccount.cisco.com
Smart Account ID: 111111
Smart Account Name : exampleaccount.cisco.com
VLN: VLNESA111111
Virtual Account Domain: ESA
Virtual Account ID: 333333
mail1.example.com>
```

SMTP Services Configuration

This section contains the following CLI commands:

callaheadconfig

Description

Add, edit, and remove SMTP Call-Ahead profiles

Usage

Commit: This command requires a 'commit'.

Cluster Management: This command can be used in all three machine modes (cluster, group, machine).

Batch Command: This command does not support a batch format.

Example

In the following example you can create a new SMTP call-ahead profile for delivery host.

```
> callaheadconfig
No SMTP Call-Ahead profiles are configured on the system.
Choose the operation you want to perform:
- NEW - Create a new profile.
[]> new
Select the type of profile you want to create:
1. Delivery Host
2. Static Call-Ahead Servers
[1]> 1
Please enter a name for the profile:
[]> delhost01
Advanced Settings:
  MAIL FROM Address: <>
  Interface: Auto
  Timeout Value: 30
  TLS support for recipient validation: disabled
  Validation Failure Action: ACCEPT
  Temporary Failure Action: REJECT with same code
  Maximum number of connections: 5
  Maximum number of validation queries: 1000
  Cache size: 10000
  Cache TTL: 900
Do you want to change advanced settings? [N]> n
Currently configured SMTP Call-Ahead profiles:
1. delhost01 (Delivery Host)
Choose the operation you want to perform:
```

```
- NEW - Create a new profile.
- EDIT - Modify a profile.
- DELETE - Delete a profile.
- PRINT - Display profile information.
- TEST - Test profile.
- FLUSHCACHE - Flush SMTP Call-Ahead cache.
[]>
```

In the following example you can create a new SMTP call-ahead profile for call ahead server.

```
> callaheadconfig
Currently configured SMTP Call-Ahead profiles:
1. delhost01 (Delivery Host)
Choose the operation you want to perform:
- NEW - Create a new profile.
- EDIT - Modify a profile.
- DELETE - Delete a profile.
- PRINT - Display profile information.
- TEST - Test profile.
- FLUSHCACHE - Flush SMTP Call-Ahead cache.
[]> new
Select the type of profile you want to create:
1. Delivery Host
2. Static Call-Ahead Servers
[1]> 2
Please enter a name for the profile:
[]> Static
Enter one or more Call-Ahead servers hostname separated by commas.
[]> 192.168.1.2
Advanced Settings:
  MAIL FROM Address: <>
  Interface: Auto
  Timeout Value: 30
TLS support for recipient validation: disabled
  Validation Failure Action: ACCEPT
  Temporary Failure Action: REJECT with same code
  Maximum number of connections: 5
  Maximum number of validation queries: 1000
  Cache size: 10000
  Cache TTL: 900
Do you want to change advanced settings? [N]> n
Currently configured SMTP Call-Ahead profiles:
1. Static (Static Call-Ahead Servers)
2. delhost01 (Delivery Host)
Choose the operation you want to perform:
- NEW - Create a new profile.
- EDIT - Modify a profile.
- DELETE - Delete a profile.
- PRINT - Display profile information.
- TEST - Test profile.
- FLUSHCACHE - Flush SMTP Call-Ahead cache.
[]> print
Select the profile you want to print:
1. Static (Static Call-Ahead Servers)
2. delhost01 (Delivery Host)
[1]>
```

Example – Enabling TLS Support for SMTP Call-ahead Recipient Validation

In the following example, you can use the `callaheadconfig` command to enable TLS support for recipient validation in an existing SMTP call-ahead profile.

```
mail1.example.com> callaheadconfig

Currently configured SMTP Call-Ahead profiles:
1. call-ahead-1 (Static Call-Ahead Servers)
2. call-ahead-2 (Delivery Host)

Choose the operation you want to perform:
- NEW - Create a new profile.
- EDIT - Modify a profile.
- DELETE - Delete a profile.
- PRINT - Display profile information.
- TEST - Test profile.
- FLUSHCACHE - Flush SMTP Call-Ahead cache.
[]> edit

Select the profile you want to edit:
1. call-ahead-1 (Static Call-Ahead Servers)
2. call-ahead-2 (Delivery Host)
[1]> 1

Please enter a name for the profile:
[call-ahead-1]>

Select the type of profile you want to create:
1. Delivery Host
2. Static Call-Ahead Servers
[2]>

Enter one or more Call-Ahead servers hostname separated by commas.
[[10.12.2.40]:25]>

Advanced Settings:
  MAIL FROM Address: <>
  Interface: Auto
  TLS support for recipient validation: disabled
  Timeout Value: 30
  Validation Failure Action: Reject
  Temporary Failure Action: REJECT with same code
  Maximum number of connections: 5
  Maximum number of validation queries: 1000
  Cache size: 10000
  Cache TTL: 900

Do you want to change advanced settings? [N]> yes

TLS support for SMTP call-ahead recipient validation is: disabled

Do you want to enable TLS support for SMTP call-ahead recipient
validation? y/n [Y]> yes

Enter MAIL FROM address (Enter NONE to set it to blank string)
[]>

Please choose an IP interface for this profile:
1. Auto
2. Management (10.12.2.3/24: mail1.example.com)
[1]>

Specify the validation request timeout (in seconds):
[30]>

Specify the default action for non-verifiable recipients:
1. REJECT
2. REJECT with custom code
```

```
3. ACCEPT
[1]>

Specify the default action for temporary failure (4xx error):
1. REJECT with same code
2. REJECT with custom code
3. ACCEPT
[1]>

Enter maximum number of recipients to validate per SMTP session:
[1000]>

Enter maximum number of simultaneous
connections to Call-Ahead server:
[5]>

Enter cache entries:
[10000]>

Enter cache TTL (in seconds):
[900]>

Currently configured SMTP Call-Ahead profiles:
1. call-ahead-1 (Static Call-Ahead Servers)
2. call-ahead-2 (Delivery Host)

Choose the operation you want to perform:
- NEW - Create a new profile.
- EDIT - Modify a profile.
- DELETE - Delete a profile.
- PRINT - Display profile information.
- TEST - Test profile.
- FLUSHCACHE - Flush SMTP Call-Ahead cache.
[]>

mail1.example.com> commit

Please enter some comments describing your changes:
[]> changes committed

Do you want to save the current configuration for rollback? [Y]>

Changes committed: Mon June 21 18:37:42 2021 GMT
mail1.example.com>
```

listenerconfig

Description

The `listenerconfig` command allows you to create, edit, and delete a listener. AsyncOS requires that you specify criteria that messages must meet in order to be accepted and then relayed to recipient hosts — either internal to your network or to external recipients on the Internet.

These qualifying criteria are defined in listeners; collectively, they define and enforce your mail flow policies. Listeners also define how the email gateway communicates with the system that is injecting email.

Table 13: listenerconfig Commands

Name	Unique nickname you supply for the listener, for future reference. The names you define for listeners are case-sensitive. AsyncOS does not allow you to create two identical listener names.
IP Interface	Listeners are assigned to IP interfaces. All IP interfaces must be configured using the systemstartup command or the interfaceconfig command before you create and assign a listener to it.
Mail protocol	The mail protocol is used for email receiving: either ESMTP or QMQP
IP Port	The specific IP port used for connections to the listener. by default SMTP uses port 25 and QMQP uses port 628.
Listener Type: Public Private Sink hole	Public and private listeners are used for most configurations. By convention, private listeners are intended to be used for private (internal) networks, while public listeners contain default characteristics for receiving email from the Internet. "Sink hole" listeners can be used for testing or troubleshooting purposes. When you create a sink hole listener, you choose whether messages are written to disk or not before they are deleted. (See the "Testing and Troubleshooting" chapter of the *User Guide for AsyncOS for Cisco Secure Email Gateway* for more information.

Usage

Commit: This command requires a 'commit'.

Cluster Management: This command can be used in all three machine modes (cluster, group, machine).

Batch Command: This command supports a batch format.

Batch Format - General listenerconfig

The batch format of the **listenerconfig** command can be used to add and delete listeners on a particular interface. The batch format of the listenerconfig command also allows you to configure a listener's HAT and RAT.

- Adding a new listener:

```
listenerconfig new <name> <public|private|sinkhole|sinkholequeueing>
<interface_name> <smtp|qmqp>
```

- Deleting a listener:

```
listenerconfig delete <name>
```

Batch Format - HAT

The following examples demonstrate the use of the batch format of listenerconfig to perform various HAT-related tasks. For more information about arguments, consult *Table - listenerconfig Argument Values -HAT* below:

- Adding a new sendergroup to the HAT

```
listenerconfig edit <name> hostaccess new sendergroup <name> <host_list> <behavior>
[options [--comments]
```

- Add a new policy to the HAT

```
listenerconfig edit <name> hostaccess new policy <name> <behavior> [options]
```

- Add a new host list to a sendergroup

```
listenerconfig edit <name> hostaccess edit sendergroup <name> new <host_list>
```

- Delete a host from a sendergroup

```
listenerconfig edit <name> hostaccess edit sendergroup <name> delete <host>
```

- Move a host in a sendergroup's list order

```
listenerconfig edit <name> hostaccess edit sendergroup <name> move <host>
<host-to-insert-before>
```

- Modify a sendergroup's policy

```
listenerconfig edit <name> hostaccess edit sendergroup <name> policy <behavior> [options]
```

- Print a sendergroup listing

```
listenerconfig edit <name> hostaccess edit sendergroup <name> print
```

- Rename a sendergroup

```
listenerconfig edit <name> hostaccess edit sendergroup <name> rename <name>
```

- Editing a HAT's policy

```
listenerconfig edit <name> hostaccess edit policy <name> <behavior> [options]
```

- Deleting a sendergroup from a HAT

```
listenerconfig edit <name> hostaccess delete sendergroup <name>
```

- Deleting a policy

```
listenerconfig edit <name> hostaccess delete policy <name>
```

- Moving a sendergroup's position in the HAT

```
listenerconfig edit <name> hostaccess move <group> <group-to-insert-before>
```

- Changing a HAT default option

```
listenerconfig edit <name> hostaccess default [options]
```

- Printing the hostaccess table

```
listenerconfig edit <name> hostaccess print
```

- Import a local copy of a HAT

```
listenerconfig edit <name> hostaccess import <filename>
```

- Exporting a copy of the HAT from the email gateway

```
listenerconfig edit <name> hostaccess export <filename>
```

- Deleting all user defined sendergroups and policies from the HAT

```
listenerconfig edit <name> hostaccess clear
```

- Adding the sender's country of origin for a particular sender group.

```
listenerconfig edit incoming hostaccess edit sendergroup ALLOWED_LIST
country add India Nepal Cyprus
```

- Deleting the sender's country of origin for a particular sender group.

```
listenerconfig edit incoming hostaccess edit sendergroup ALLOWED_LIST
country delete Cyprus
```

- Printing the sender's country of origin for a particular sender group.

```
listenerconfig edit incoming hostaccess edit sendergroup ALLOWED_LIST
country print
```

Table 14: listenerconfig Argument Values -HAT

Argument	Description
<behavior>	"Accept", "Relay", "Reject", "TCP Refuse", or "Continue". When selecting a behavior for use with a sendergroup, additional behaviors of the form "Policy: FOO" are available (where "FOO" is the name of policy).
<filename>	The filename to use with importing and exporting the hostaccess tables.
<group>	A sendergroup <name>.
<host>	A single entity of a <host_list>
<host_list>	Enter the hosts to add. Hosts can be formatted as follows: CIDR addresses (10.1.1.0/24) IP address ranges (10.1.1.10-20) IP Subnets (10.2.3) Hostname (crm.example.com) Partial Hostname (.example.com) Sender Base Reputation Score range (7.5:10.0) Senderbase Network Owner IDS (SBO:12345) Remote blocked_list queries (dnslist[query.blocked_list.example] **Note** Separate multiple hosts with commas
<name>	The name of the sendergroup or policy. HAT labels must start with a letter or underscore, followed by any number of letters, numbers, underscores or hyphens.
[options]	
--max_size	Maximum message size. Add a trailing k for kilobytes, M for megabytes, or no letters for bytes.
--max_conn	Maximum number of connections allowed from a single host.
--max_msgs	Maximum number of messages per connection.
--max_rcpt	Maximum number of recipients per message.
--override	Override the hostname in the SMTP banner. "No" or SMTP banner string.
--cust_acc	Specify a custom SMTP acceptance response. "No" or SMTP acceptance response string.
--acc_code	Custom SMTP acceptance response code. Default is 220.
--cust_rej	Specify a custom SMTP rejection response. "No" or SMTP rejection response string.

Argument	Description
--rej_code	Custom SMTP rejection response code. Default is 554.
--rate_lim	Enable rate limiting per host. “No”, “default” or maximum number of recipients per hour per host.
--cust_lim	Specify a custom SMTP limit exceeded response message. “No” or SMTP rejection response string. Default is “No”.
--lim_code	Custom SMTP limit exceeded response code. Default is 452.
--use_sb	Use SenderBase for flow control by default. “Yes”, “No”, or “default”.
--as_scan	Enable anti-spam scanning. “Yes”, “No”, “Default”.
--av_scan	Enable anti-virus scanning. “Yes”, “No”, “Default”.
-sdr_scan	Enable Sender Domain Reputation scanning. "Yes," "No," "Default."
--dhap	Directory Harvest Attack Prevention. “No”, “default”, or maximum number of invalid recipients per hour from a remote host.
--tls	Not supported; use menuing system to configure TLS.
--sig_bits	Number of bits of IP address to treat as significant. From 0 to 32, “No” or “default”.
--dkim_signing	Enable DKIM signing. “Yes”, “No”, “Default.”
--dkim_verification	Enable DKIM verification. “Yes”, “No”, “Default.”
--dkim_verification_profile <name>	The name of DKIM verification profile. This option is only applicable if --dkim_verification value is set to “Yes.”
--spf	Enable SPF verification. “Yes”, “No”, “Default.”
--spf_conf_level	SPF conformance level. Used with “--spf Yes” only. “spf_only”, “sidf_compatible”, “sidf_strict.”
--spf_downgrade_pra	Downgrade SPF PRA verification result. Used with “--spf Yes” and “--spf_conf_level sidf_compatible” only. “Yes”, “No.”
--spf_helo_test	SPF HELO test. Used with “--spf Yes” and “--spf_conf_level sidf_compatible,” or “--spf_conf_level spf_only.” “Yes”, “No”.
--dmarc_verification	Enable DMARC verification. “Yes”, “No”, “Default.”
--dmarc_verification_profile <name>	The name of DMARC verification profile. This option is only applicable if --dmarc_verification value is set to “Yes.”
--dmarc_agg_reports	Enable DMARC aggregate reports. “Yes”, “No”, “Default.” This option is only applicable if --dmarc_verification value is set to “Yes.”

Batch Format - RAT

The following examples demonstrate the use of the batch format of listenerconfig to perform various RAT-related tasks. For more information about arguments, consult *Table - listenerconfig Argument Values - RAT* below:

- Adding a new recipient to the RAT

```
listenerconfig edit <name> rcptacess new <rat_addr> [options]
```

- Editing a recipient in the RAT

```
listenerconfig edit <name> rcptacess edit <rat_addr> [options]
```

- Deleting a recipient from the RAT

```
listenerconfig edit <name> rcptacess delete <rat_addr>
```

- Printing a copy of the RAT

```
listenerconfig edit <name> rcptacess print
```

- Importing a local RAT to your email gateway

```
listenerconfig edit <name> rcptacess import <filename>
```

- Exporting a RAT

```
listenerconfig edit <name> rcptacess export <filename>
```

- Clearing the default access

```
listenerconfig edit <name> rcptacess clear <default_access>
```

Table 15: listenerconfig Argument Values - RAT

Argument	Description
<rat_addr>	Enter the hosts to add. Hosts can be formatted as follows: CIDR addresses (10.1.1.0/24) Hostname (crm.example.com) Partial Hostname (.example.com) Usernames (postmaster@) Full email addresses (joe@example.com, joe@[1.2.3.4] **Note** Separate multiple hosts with commas
<options>	
--action	Action to apply to address(es). Either “Accept” or “Reject”. Default is “Accept”.
--cust_resp	Specify a custom SMTP response. “No” or SMTP acceptance response string.
--resp_code	Custom SMTP response code. Default is 250 for “Accept” actions, 550 for “Reject”.
--bypass_rc	Bypass receiving control. Default is “No”.
--bypass_la	Bypass LDAP Accept query. Either “Yes” or “No.”
--bypass_ca	Bypass SMTP Call-Ahead. Default is "No".

Example - Adding a listener

In the following example, the listenerconfig command is used to create a new private listener called OutboundMail that can be used for the B listener needed in the Enterprise Gateway configuration. (Note: you also had the option to add this private listener during the GUI’s System Setup Wizard CLI **`systemsetup`** command.)

A private listener type is chosen and named OutboundMail. It is specified to run on the PrivateNet IP interface, using the SMTP protocol over port 25. The default values for the Host Access Policy for this listener are then accepted.

```
mail3.example.com> listenerconfig
Currently configured listeners:
1. InboundMail (on PublicNet, 192.168.2.1) SMTP TCP Port 25 Public
Choose the operation you want to perform:
- NEW - Create a new listener.
- EDIT - Modify a listener.
- DELETE - Remove a listener.
- SETUP - Change global settings.
[]> new
Please select the type of listener you want to create.
1. Private
2. Public
3. Sinkhole
[2]> 1
```

```
Please create a name for this listener (Ex: "OutboundMail"):
[]> OutboundMail
Please choose an IP interface for this Listener.
1. Management (192.168.42.42/24: mail3.example.com)
2. PrivateNet (192.168.1.1/24: mail3.example.com)
3. PublicNet (192.168.2.1/24: mail3.example.com)
[1]> 2
Choose a protocol.
1. SMTP
2. QMQP
[1]> 1
Please enter the TCP port for this listener.
[25]> 25
Please specify the systems allowed to relay email through the IronPort C60.
Hostnames such as "example.com" are allowed.
Partial hostnames such as ".example.com" are allowed.
IP addresses, IP address ranges, and partial IP addresses are allowed.
Separate multiple entries with commas.
[]> .example.com
Do you want to enable rate limiting for this listener? (Rate limiting defines the maximum
number of recipients per hour you are
willing to receive from a remote domain.)    [N]> n
Default Policy Parameters
==========================
Maximum Message Size: 100M
Maximum Number Of Connections From A Single IP: 600
Maximum Number Of Messages Per Connection: 10,000
Maximum Number Of Recipients Per Message: 100,000
Maximum Number Of Recipients Per Hour: Disabled
Use SenderBase for Flow Control:  No
Spam Detection Enabled:  No
Virus Detection Enabled:  Yes
Allow TLS Connections: No
Allow SMTP Authentication: No
Require TLS To Offer SMTP authentication: No
Would you like to change the default host access policy? [N]> n
Listener OutboundMail created.
Defaults have been set for a Private listener.
Use the listenerconfig->EDIT command to customize the listener.
Currently configured listeners:
1. InboundMail (on PublicNet, 192.168.2.1) SMTP TCP Port 25 Public
2. OutboundMail (on PrivateNet, 192.168.1.1) SMTP TCP Port 25 Private
Choose the operation you want to perform:
- NEW - Create a new listener.
- EDIT - Modify a listener.
- DELETE - Remove a listener.
- SETUP - Change global settings.
[]>
```

Example - Adding a Sender's Country of Origin to a Sender Group

In the following example, the listenerconfig command is used to modify a listener to add the sender's country of origin for a particular sender group.

```
mail3.example.com> listenerconfig


Currently configured listeners:

1. InboundMail (on PublicNet, 192.168.2.1) SMTP TCP Port 25 Public

2. OutboundMail (on PrivateNet, 192.168.1.1) SMTP TCP Port 25 Private
```

```
Choose the operation you want to perform:
- NEW - Create a new listener.
- EDIT - Modify a listener.
- DELETE - Remove a listener.
- SETUP - Change global settings.
[]> edit
Enter the name or number of the listener you wish to edit.
[]> 1
Name: InboundMailhostacce
Type: Public
Interface: PublicNet (192.168.2.1/24) TCP Port 25
Protocol: SMTP
Default Domain:
Max Concurrency: 1000 (TCP Queue: 50)
Domain map: disabled
TLS: No
SMTP Authentication: Disabled
Bounce Profile: Default
Use SenderBase For Reputation Filters and IP Profiling: Yes
Footer: None
LDAP: off
Choose the operation you want to perform:
- NAME - Change the name of the listener.
- INTERFACE - Change the interface.
- LIMITS - Change the injection limits.
- SETUP - Configure general options.
- HOSTACCESS - Modify the Host Access Table.
- RCPTACCESS - Modify the Recipient Access Table.
- BOUNCECONFIG - Choose the bounce profile to use for messages injected on this listener.
- MASQUERADE - Configure the Domain Masquerading Table.
- DOMAINMAP - Configure domain mappings.
[]> hostaccess
```

```
Default Policy Parameters

================

Maximum Message Size: 10M

Maximum Number Of Concurrent Connections From A Single IP: 10

Maximum Number Of Messages Per Connection: 10

Maximum Number Of Recipients Per Message: 50

Directory Harvest Attack Prevention: Enabled

Maximum Number Of Invalid Recipients Per Hour: 25

Maximum Number Of Recipients Per Hour: Disabled

Use SenderBase for Flow Control: Yes

Spam Detection Enabled: Yes

Virus Detection Enabled: Yes

Allow TLS Connections: No

Allow SMTP Authentication: No

Require TLS To Offer SMTP authentication: No

DKIM/DomainKeys Signing Enabled: No

DKIM Verification Enabled: No

SPF/SIDF Verification Enabled: No

DMARC Verification Enabled: No

Envelope Sender DNS Verification Enabled: No

Domain Exception Table Enabled: No

Accept untagged bounces: No

There are currently 4 policies defined.

There are currently 5 sender groups.

Choose the operation you want to perform:

- NEW - Create a new entry.

- EDIT - Modify an entry.

- DELETE - Remove an entry.

- MOVE - Move an entry.

- DEFAULT - Set the defaults.

- PRINT - Display the table.

- IMPORT - Import a table from a file.
```

```
- EXPORT - Export the table to a file.

- CLEAR - Remove all entries.

[]> edit

1. Edit Sender Group

2. Edit Policy

[1]>1

Currently configured HAT sender groups:

1. ALLOWED_LIST (My trusted senders have no anti-spam scanning or rate limiting)

2. BLOCKED_LIST (Spammers are rejected)

3. SUSPECTLIST (Suspicious senders are throttled)

4. UNKNOWNLIST (Reviewed but undecided, continue normal acceptance)

5. MyList

6. (no name, first host = ALL) (Everyone else)

Enter the sender group number or name you wish to edit.

[]> 1

Choose the operation you want to perform:

- NEW - Add a new host.

- DELETE - Remove a host.

- COUNTRY - Add and delete countries.

- POLICY - Change the policy settings and options.

- PRINT - Display the current definition.

- RENAME - Rename this sender group.

[]> country

Choose the operation you want to perform:

- ADD - Add countries

[]>ADD

1. Afghanistan [af]

2. Aland Islands [ax]

3. Albania [al]

4. Algeria [dz]

5. American Samoa [as]

6. Andorra [ad]
```

```
7. Angola [ao]

8. Anguilla [ai]

9. ...

Enter the indices separated by commas or specify the range.

[]>1,4,8

Choose the operation you want to perform:

- NEW - Add a new host.

- DELETE - Remove a host.

- MOVE - Reorder the hosts.

- COUNTRY - Add and delete countries.

- POLICY - Change the policy settings and options.

- PRINT - Display the current definition.

- RENAME - Rename this sender group.

[]> country

Choose the operation you want to perform:

- ADD - Add countries

- DELETE - Delete countries

- PRINT - Print countries

[]> print

Afghanistan [af]

Algeria [dz]

Anguilla [ai]
```

Example - Customizing the Host Access Table (HAT) for a listener via Export and Import

Many of the subcommands within the listenerconfig command allow you to import and export data in order to make large configuration changes without having to enter data piecemeal in the CLI.

These steps use the CLI to modify the Host Access Table (HAT) of a listener by exporting, modifying, and importing a file. You can also use the HAT CLI editor or the GUI to customize the HAT for a listener. For more information, see the “Configuring the Gateway to Receive Mail” and “Using Mail Flow Monitor” chapters in the *User Guide for AsyncOS for Cisco Secure Email Gateway* .

To customize a HAT for a listener you have defined via export and import:

Procedure

Step 1 Use the hostaccess -> export subcommands of listenerconfig to export the default HAT to a file.

In the following example, the HAT for the public listener InboundMail is printed, and then exported to a file named inbound.HAT.txt

Example:

```
mail3.example.com> listenerconfig
Currently configured listeners:
1. InboundMail (on PublicNet, 192.168.2.1) SMTP TCP Port 25 Public
2. OutboundMail (on PrivateNet, 192.168.1.1) SMTP TCP Port 25 Private
Choose the operation you want to perform:
- NEW - Create a new listener.
- EDIT - Modify a listener.
- DELETE - Remove a listener.
- SETUP - Change global settings.
[]> edit
Enter the name or number of the listener you wish to edit.
[]> 1
Name: InboundMail
Type: Public
Interface: PublicNet (192.168.2.1/24) TCP Port 25
Protocol: SMTP
Default Domain:
Max Concurrency: 1000 (TCP Queue: 50)
Domain map: disabled
TLS: No
SMTP Authentication: Disabled
Bounce Profile: Default
Use SenderBase For Reputation Filters and IP Profiling: Yes
Footer: None
LDAP: off
Choose the operation you want to perform:
- NAME - Change the name of the listener.
- INTERFACE - Change the interface.
- LIMITS - Change the injection limits.
- SETUP - Configure general options.
- HOSTACCESS - Modify the Host Access Table.
- RCPTACCESS - Modify the Recipient Access Table.
- BOUNCECONFIG - Choose the bounce profile to use for messages injected on this listener.
- MASQUERADE - Configure the Domain Masquerading Table.
- DOMAINMAP - Configure domain mappings.
[]> hostaccess
Default Policy Parameters
=================
Maximum Message Size: 10M
Maximum Number Of Concurrent Connections From A Single IP: 10
Maximum Number Of Messages Per Connection: 10
Maximum Number Of Recipients Per Message: 50
Directory Harvest Attack Prevention: Enabled
Maximum Number Of Invalid Recipients Per Hour: 25
Maximum Number Of Recipients Per Hour: Disabled
Use SenderBase for Flow Control:  Yes
Spam Detection Enabled:  Yes
Virus Detection Enabled:  Yes
Allow TLS Connections: No
Allow SMTP Authentication: No
Require TLS To Offer SMTP authentication: No
```

```
DKIM/DomainKeys Signing Enabled: No
DKIM Verification Enabled: No
SPF/SIDF Verification Enabled: No
DMARC Verification Enabled: No
Envelope Sender DNS Verification Enabled: No
Domain Exception Table Enabled: No
Accept untagged bounces:  No
There are currently 4 policies defined.
There are currently 5 sender groups.
Choose the operation you want to perform:
- NEW - Create a new entry.
- EDIT - Modify an entry.
- DELETE - Remove an entry.
- MOVE - Move an entry.
- DEFAULT - Set the defaults.
- PRINT - Display the table.
- IMPORT - Import a table from a file.
- EXPORT - Export the table to a file.
- CLEAR - Remove all entries.
[]> print
$BLOCKED
    REJECT {}
$TRUSTED
    ACCEPT {
        tls = "off"
        dhap_limit = 0
        max_rcpts_per_hour = -1
        virus_check = "on"
        max_msgs_per_session = 5000
        spam_check = "off"
        use_sb = "off"
        max_message_size = 104857600
        max_rcpts_per_msg = 5000
        max_concurrency = 600
    }
$ACCEPTED
    ACCEPT {}
$THROTTLED
    ACCEPT {
        tls = "off"
        dhap_limit = 0
        max_rcpts_per_hour = 1
        virus_check = "on"
        max_msgs_per_session = 10
        spam_check = "on"
        use_sb = "on"
        max_message_size = 1048576
        max_rcpts_per_msg = 25
        max_concurrency = 10
    }
ALLOWED_LIST:
        $TRUSTED (My trusted senders have no anti-spam or rate limiting)
BLOCKED_LIST:
        $BLOCKED (Spammers are rejected)
SUSPECTLIST:
        $THROTTLED (Suspicious senders are throttled)
UNKNOWNLIST:
        $ACCEPTED (Reviewed but undecided, continue normal acceptance)
ALL
    $ACCEPTED (Everyone else)
Default Policy Parameters
==========================
Allow TLS Connections: No
Allow SMTP Authentication: No
```

```
Require TLS To Offer SMTP authentication: No
Maximum Concurrency Per IP: 1,000
Maximum Message Size: 100M
Maximum Messages Per Connection: 1,000
Maximum Recipients Per Message: 1,000
Maximum Recipients Per Hour: Disabled
Use SenderBase For Flow Control: Yes
Spam Detection Enabled: Yes
Virus Detection Enabled: Yes
There are currently 4 policies defined.
There are currently 5 sender groups.
Choose the operation you want to perform:
- NEW - Create a new entry.
- EDIT - Modify an entry.
- DELETE - Remove an entry.
- MOVE - Move an entry.
- DEFAULT - Set the defaults.
- PRINT - Display the table.
- IMPORT - Import a table from a file.
- EXPORT - Export the table to a file.
- CLEAR - Remove all entries.
[]> export
Enter a name for the exported file:
[]> inbound.HAT.txt
File written on machine "mail3.example.com".
```

Example:

Step 2 Outside of the Command Line Interface (CLI), get the file inbound.HAT.txt .

Step 3 With a text editor, create new HAT entries in the file.

In this example, the following entries are added to the HAT above the ALL entry:

```
spamdomain.com    REJECT
.spamdomain.com   REJECT
251.192.1.       TCPREFUSE
169.254.10.10     RELAY
```

- The first two entries reject all connections from the remote hosts in the domain spamdomain.com and any subdomain of spamdomain.com .
- The third line refuses connections from any host with an IP address of 251.192.1. *x* .
- The fourth line allows the remote host with the IP address of 169.254.10.10 to use the email gateway as an SMTP relay for all of its outbound email to the Internet

Note
The order that rules appear in the HAT is important. The HAT is read from top to bottom for each host that attempts to connect to the listener. If a rule matches a connecting host, the action is taken for that connection immediately. You should place all custom entries in the HAT above an ALL host definition. You can also use the HAT CLI editor or the GUI to customize the HAT for a listener. For more information, see the "Configuring the Gateway to Receive Mail" and "Using Mail Flow Monitor" chapters in the *User Guide for AsyncOS for Cisco Secure Email Gateway* .

Step 4 Save the file and place it in the configuration directory for the interface so that it can be imported. (See Appendix B, "Accessing the Email Gateway," for more information.)

Step 5 Use the hostaccess -> import subcommand of listenerconfig to import the edited Host Access Table file.

In the following example, the edited file named inbound.HAT.txt is imported into the HAT for the InboundMail listener. The new entries are printed using the print subcommand.

Example:

```
mail3.example.com> listenerconfig
Currently configured listeners:
1. InboundMail (on PublicNet, 192.168.2.1) SMTP TCP Port 25 Public
2. OutboundMail (on PrivateNet, 192.168.1.1) SMTP TCP Port 25 Private
Choose the operation you want to perform:
- NEW - Create a new listener.
- EDIT - Modify a listener.
- DELETE - Remove a listener.
- SETUP - Change global settings.
[]> edit
Enter the name or number of the listener you wish to edit.
[]> 1
Name: InboundMail
Type: Public
Interface: PublicNet (192.168.2.1/24) TCP Port 25
Protocol: SMTP
Default Domain:
Max Concurrency: 1000 (TCP Queue: 50)
Domain Map: Disabled
TLS: No
SMTP Authentication: Disabled
Bounce Profile: Default
Use SenderBase For Reputation Filters and IP Profiling: Yes
Footer: None
LDAP: Off
Choose the operation you want to perform:
- NAME - Change the name of the listener.
- INTERFACE - Change the interface.
- LIMITS - Change the injection limits.
- SETUP - Configure general options.
- HOSTACCESS - Modify the Host Access Table.
- RCPTACCESS - Modify the Recipient Access Table.
- BOUNCECONFIG - Choose the bounce profile to use for messages injected on this listener.
- MASQUERADE - Configure the Domain Masquerading Table.
- DOMAINMAP - Configure domain mappings.
[]> hostaccess
Default Policy Parameters
=========================
Allow TLS Connections: No
Allow SMTP Authentication: No
Require TLS To Offer SMTP authentication: No
Maximum Concurrency Per IP: 1,000
Maximum Message Size: 100M
Maximum Messages Per Connection: 1,000
Maximum Recipients Per Message: 1,000
Maximum Recipients Per Hour: Disabled
Use SenderBase For Flow Control: Yes
Spam Detection Enabled: Yes
Virus Detection Enabled: Yes
There are currently 4 policies defined.
There are currently 5 sender groups.
Choose the operation you want to perform:
- NEW - Create a new entry.
- EDIT - Modify an entry.
- DELETE - Remove an entry.
- MOVE - Move an entry.
- DEFAULT - Set the defaults.
- PRINT - Display the table.
```

```
- IMPORT - Import a table from a file.
- EXPORT - Export the table to a file.
- CLEAR - Remove all entries.
[]> import
Enter the name of the file to import:
[]> inbound.HAT.txt
9 entries imported successfully.
Default Policy Parameters
=========================
Allow TLS Connections: No
Allow SMTP Authentication: No
Require TLS To Offer SMTP authentication: No
Maximum Concurrency Per IP: 1,000
Maximum Message Size: 100M
Maximum Messages Per Connection: 1,000
Maximum Recipients Per Message: 1,000
Maximum Recipients Per Hour: Disabled
Use SenderBase For Flow Control: Yes
Spam Detection Enabled: Yes
Virus Detection Enabled: Yes
There are currently 4 policies defined.
There are currently 5 sender groups.
Choose the operation you want to perform:
- NEW - Create a new entry.
- EDIT - Modify an entry.
- DELETE - Remove an entry.
- MOVE - Move an entry.
- DEFAULT - Set the defaults.
- PRINT - Display the table.
- IMPORT - Import a table from a file.
- EXPORT - Export the table to a file.
- CLEAR - Remove all entries.
[]> print
$ACCEPTED
    ACCEPT
$THROTTLED
    ACCEPT {
        spam_check = "on"
        max_msgs_per_session = 10
        max_concurrency = 10
        max_rcpts_per_msg = 25
        max_rcpts_per_hour = 1
        dhap_limit = 0
        virus_check = "on"
        max_message_size = 1048576
        use_sb = "on"
        tls = "off"
    }
$TRUSTED
    ACCEPT {
        spam_check = "off"
        max_msgs_per_session = 5000
        max_concurrency = 600
        max_rcpts_per_msg = 5000
        max_rcpts_per_hour = -1
        dhap_limit = 0
        virus_check = "on"
        max_message_size = 104857600
        use_sb = "off"
        tls = "off"
    }
$BLOCKED
    REJECT
ALLOWED_LIST:
```

```
        $TRUSTED (My trusted senders have no anti-spam scanning or rate limiting)
BLOCKED_LIST:
        $BLOCKED (Spammers are rejected)
SUSPECTLIST:
        $THROTTLED (Suspicious senders are throttled)
UNKNOWNLIST:
        $ACCEPTED (Reviewed but undecided, continue normal acceptance)
spamdomain.com
    REJECT (reject the domain "spamdomain.com")
.spamdomain.com
    REJECT (reject all subdomains of ".spamdomain.com")
251.192.1.
    TCPREFUSE (TCPREFUSE the IP addresses in "251.192.1")
169.254.10.10
    RELAY (RELAY the address 169.254.10.10)
ALL
    $ACCEPTED (Everyone else)
Default Policy Parameters
=========================
Allow TLS Connections: No
Allow SMTP Authentication: No
Require TLS To Offer SMTP authentication: No
Maximum Concurrency Per IP: 1,000
Maximum Message Size: 100M
Maximum Messages Per Connection: 1,000
Maximum Recipients Per Message: 1,000
Maximum Recipients Per Hour: Disabled
Use SenderBase For Flow Control: Yes
Spam Detection Enabled: Yes
Virus Detection Enabled: Yes
There are currently 4 policies defined.
There are currently 5 sender groups.
Choose the operation you want to perform:
- NEW - Create a new entry.
- EDIT - Modify an entry.
- DELETE - Remove an entry.
- MOVE - Move an entry.
- DEFAULT - Set the defaults.
- PRINT - Display the table.
- IMPORT - Import a table from a file.
- EXPORT - Export the table to a file.
- CLEAR - Remove all entries.
[]>
```

Remember to issue the commit command after you import so that the configuration change takes effect.

Example - Enabling Public Key Harvesting and S/MIME Decryption and Verification

The following example shows how to:

- Retrieve (harvest) public key from the incoming S/MIME signed messages
- Enable S/MIME decryption and verification

```
mail.example.com> listenerconfig
Currently configured listeners:
1. MyListener (on Management, 172.29.181.70) SMTP TCP Port 25 Public
Choose the operation you want to perform:
- NEW - Create a new listener.
- EDIT - Modify a listener.
- DELETE - Remove a listener.
```

```
- SETUP - Change global settings.
[]> edit
Enter the name or number of the listener you wish to edit.
[]> 1
Name: MyListener
Type: Public
Interface: Management (172.29.181.70/24) TCP Port 25
Protocol: SMTP
Default Domain: <none configured>
Max Concurrent Connections: 50 (TCP Queue: 50)
Domain Map: Disabled
TLS: No
SMTP Authentication: Disabled
Bounce Profile: Default
Use SenderBase For Reputation Filters and IP Profiling: Yes
Footer: None
Heading: None
SMTP Call-Ahead: Disabled
LDAP: Off
Choose the operation you want to perform:
- NAME - Change the name of the listener.
- INTERFACE - Change the interface.
- CERTIFICATE - Choose the certificate.
- LIMITS - Change the injection limits.
- SETUP - Configure general options.
- HOSTACCESS - Modify the Host Access Table.
- RCPTACCESS - Modify the Recipient Access Table.
- BOUNCECONFIG - Choose the bounce profile to use for messages injected on this listener.
- MASQUERADE - Configure the Domain Masquerading Table.
- DOMAINMAP - Configure domain mappings.
[]> hostaccess

Default Policy Parameters
==========================
Maximum Message Size: 10M
Maximum Number Of Concurrent Connections From A Single IP: 10
Maximum Number Of Messages Per Connection: 10
Maximum Number Of Recipients Per Message: 50
Directory Harvest Attack Prevention: Enabled
Maximum Number Of Invalid Recipients Per Hour: 25
Maximum Number Of Recipients Per Hour: Disabled
Maximum Number of Recipients per Envelope Sender: Disabled
Use SenderBase for Flow Control:  Yes
Spam Detection Enabled:  Yes
Virus Detection Enabled:  Yes
Allow TLS Connections: No
Allow SMTP Authentication: No
Require TLS To Offer SMTP authentication: No
DKIM/DomainKeys Signing Enabled: No
DKIM Verification Enabled: No
S/MIME Public Key Harvesting Enabled: No
S/MIME Decryption/Verification Enabled: No
SPF/SIDF Verification Enabled: No
DMARC Verification Enabled: No
Envelope Sender DNS Verification Enabled: No
Domain Exception Table Enabled: No
Accept untagged bounces:  No
There are currently 4 policies defined.
There are currently 5 sender groups.
Choose the operation you want to perform:
- NEW - Create a new entry.
- EDIT - Modify an entry.
- DELETE - Remove an entry.
- MOVE - Move an entry.
```

```
- DEFAULT - Set the defaults.
- PRINT - Display the table.
- IMPORT - Import a table from a file.
- EXPORT - Export the table to a file.
- RESET - Remove senders and set policies to system default.
[]> default
Enter the default maximum message size. Add a trailing k for kilobytes, M for megabytes,
or no letter for b
[10M]>
Enter the maximum number of concurrent connections allowed from a single IP address.
[10]>
Enter the maximum number of messages per connection.
[10]>
Enter the maximum number of recipients per message.
[50]>
Do you want to override the hostname in the SMTP banner?  [N]>
Would you like to specify a custom SMTP acceptance response? [N]>
Would you like to specify a custom SMTP rejection response? [N]>
Do you want to enable rate limiting per host?  [N]>
Do you want to enable rate limiting per envelope sender?  [N]>
Do you want to enable Directory Harvest Attack Prevention per host?  [Y]>
Enter the maximum number of invalid recipients per hour from a remote host.
[25]>
Select an action to apply when a recipient is rejected due to DHAP:
1. Drop
2. Code
[1]>
Would you like to specify a custom SMTP DHAP response? [Y]>
Enter the SMTP code to use in the response. 550 is the standard code.
[550]>
Enter your custom SMTP response.  Press Enter on a blank line to finish.
custom_response
Would you like to use SenderBase for flow control by default?  [Y]>
Would you like to enable anti-spam scanning?  [Y]>
Would you like to enable anti-virus scanning?  [Y]>
Do you want to allow encrypted TLS connections?
1. No
2. Preferred
3. Required
4. Preferred - Verify
5. Required - Verify
[1]>
Would you like to enable DKIM/DomainKeys signing?  [N]>
Would you like to enable DKIM verification?  [N]>
Would you like to enable S/MIME Public Key Harvesting?  [N]> y

Would you like to harvest certificate on verification failure?  [N]>

Would you like to harvest updated certificate?  [Y]>

Would you like to enable S/MIME gateway decryption/verification?  [N]> y

Select the appropriate operation for the S/MIME signature processing:
1. Preserve
2. Remove
[1]>
Would you like to change SPF/SIDF settings?  [N]>
Would you like to enable DMARC verification?  [N]>
Would you like to enable envelope sender verification?  [N]>
Would you like to enable use of the domain exception table?  [N]>
Do you wish to accept untagged bounces?  [N]>
Default Policy Parameters
==========================
Maximum Message Size: 10M
```

```
Maximum Number Of Concurrent Connections From A Single IP: 10
Maximum Number Of Messages Per Connection: 10
Maximum Number Of Recipients Per Message: 50
Directory Harvest Attack Prevention: Enabled
Maximum Number Of Invalid Recipients Per Hour: 25
Maximum Number Of Recipients Per Hour: Disabled
Maximum Number of Recipients per Envelope Sender: Disabled
Use SenderBase for Flow Control:  Yes
Spam Detection Enabled:  Yes
Virus Detection Enabled:  Yes
Allow TLS Connections: No
Allow SMTP Authentication: No
Require TLS To Offer SMTP authentication: No
DKIM/DomainKeys Signing Enabled: No
DKIM Verification Enabled: No
S/MIME Public Key Harvesting Enabled: Yes
S/MIME Decryption/Verification Enabled: Yes
SPF/SIDF Verification Enabled: No
DMARC Verification Enabled: No
Envelope Sender DNS Verification Enabled: No
Domain Exception Table Enabled: No
Accept untagged bounces:  No
There are currently 4 policies defined.
There are currently 5 sender groups.
Choose the operation you want to perform:
- NEW - Create a new entry.
- EDIT - Modify an entry.
- DELETE - Remove an entry.
- MOVE - Move an entry.
- DEFAULT - Set the defaults.
- PRINT - Display the table.
- IMPORT - Import a table from a file.
- EXPORT - Export the table to a file.
- RESET - Remove senders and set policies to system default.
[]>
```

Example - Advanced HAT Parameters

The following table defines the syntax of advanced HAT parameters. Note that for the values below which are numbers, you can add a trailing **k** to denote kilobytes or a trailing **M** to denote megabytes. Values with no letters are considered bytes. Parameters marked with an asterisk support the variable syntax shown in the following table.

Table 16: Advanced HAT Parameter Syntax

Parameter	Syntax	Values	Example Values
Maximum messages per connection	`max_msgs_per_session`	Number	`1000`
Maximum recipients per message	`max_rcpts_per_msg`	Number	`10000` `1k`
Maximum message size	`max_message_size`	Number	`1048576` `20M`
Maximum concurrent connections allowed to this listener	`max_concurrency`	Number	`1000`

Parameter	Syntax	Values	Example Values
SMTP Banner Code	`smtp_banner_code`	Number	`220`
SMTP Banner Text (*)	`smtp_banner_text`	String	`Accepted`
SMTP Reject Banner Code	`smtp_banner_code`	Number	`550`
SMTP Reject Banner Text (*)	`smtp_banner_text`	String	`Rejected`
Override SMTP Banner Hostname	`use_override_hostname`	on | off | default	`default`
	`override_hostname`	String	`newhostname`
Use TLS	`tls`	on | off | required	`on`
Use anti-spam scanning	`spam_check`	on | off	`off`
Use Sophos virus scanning	`virus_check`	on | off	`off`
Maximum Recipients per Hour	`max_rcpts_per_hour`	Number	`5k`
Maximum Recipients per Hour Error Code	`max_rcpts_per_hour_code`	Number	`452`
Maximum Recipients per Hour Text (*)	`max_rcpts_per_hour_text`	String	`Too manyrecipients`
Use SenderBase	`use_sb`	on | off	`on`
Define SenderBase Reputation Score	`sbrs[`*`value1`*`:`*`value2`*`]`	-10.0- 10.0	`sbrs[-10:-7.5]`
Directory Harvest Attack Prevention: Maximum Invalid Recipients Per Hour	`dhap_limit`	Number	`150`

Adding bypass_ca Argument to listenerconfig

The following example shows how to add the `bypass_ca` argument to `listenerconfig`:

```
esa.example.com (SERVICE)> help listenerconfig.

    rcptaccess_options are the following:
        new <rat_addr> [options]
        edit <rat_addr> [options]
        delete <rat_addr>
        print
```

```
import <filename>
export <filename>
clear <default_access>

default_access - Default access for empty RAT.  Either "ACCEPT"
                 or "REJECT".
rat_addr - Hostnames such as "example.com" and "[1.2.3.4]" are
           allowed. Partial hostnames such as ".example.com"
           are allowed. Usernames such as "postmaster@" are
           allowed. Full email addresses such as
           "joe@example.com" or "joe@[1.2.3.4]" are allowed.
           Separate multiple entries with commas.
options - Various options to modify a host access policy:
    --action     Action to apply to address(es).  Either
                 "Accept" or "Reject".  Default is "Accept".
    --cust_resp  Specify a custom SMTP response.  "No" or SMTP
                 acceptance response string.
    --resp_code  Custom SMTP response code.  Default is 250 for
                 "Accept" actions, 550 for "Reject".
    --bypass_rc  Bypass receiving control.  Default is "No".
    --bypass_la  Bypass LDAP Accept queries for this Recipient.  Default is "No".
    --bypass_ca  Bypass SMTP Call-Ahead.  Default is "No".
```

Example - Configuring SPF and SIDF

When configuring the default settings for a listener's Host Access Table, you can choose the listener's SPF/SIDF conformance level and the SMTP actions (ACCEPT or REJECT) that the email gateway performs, based on the SPF/SIDF verification results. You can also define the SMTP response that the email gateway sends when it rejects a message.

Depending on the conformance level, the appliance performs a check against the HELO identity, MAIL FROM identity, or PRA identity. You can specify whether the email gateway proceeds with the session (ACCEPT) or terminates the session (REJECT) for each of the following SPF/SIDF verification results for each identity check:

- **None**. No verification can be performed due to the lack of information.
- **Neutral**. The domain owner does not assert whether the client is authorized to use the given identity.
- **SoftFail**. The domain owner believes the host is not authorized to use the given identity but is not willing to make a definitive statement.
- **Fail**. The client is not authorized to send mail with the given identity.
- **TempError**. A transient error occurred during verification.
- **PermError**. A permanent error occurred during verification.

The email gateway accepts the message for a Pass result unless you configure the SIDF Compatible conformance level to downgrade a Pass result of the PRA identity to None if there are Resent-Sender: or Resent-From: headers present in the message. The email gateway then takes the SMTP action specified for when the PRA check returns None.

If you choose not to define the SMTP actions for an identity check, the email gateway automatically accepts all verification results, including Fail.

The email gateway terminates the session if the identity verification result matches a REJECT action for any of the enabled identity checks. For example, an administrator configures a listener to accept messages based on all HELO identity check results, including Fail, but also configures it to reject messages for a Fail result from the MAIL FROM identity check. If a message fails the HELO identity check, the session proceeds because the email gateway accepts that result. If the message then fails the MAIL FROM identity check, the listener terminates the session and then returns the STMP response for the REJECT action.

The SMTP response is a code number and message that the email gateway returns when it rejects a message based on the SPF/SIDF verification result. The TempError result returns a different SMTP response from the other verification results. For TempError, the default response code is 451 and the default message text is #4.4.3 Temporary error occurred during SPF verification . For all other verification results, the default response code is 550 and the default message text is #5.7.1 SPF unauthorized mail is prohibited . You can specify your own response code and message text for TempError and the other verification results.

Optionally, you can configure the email gateway to return a third-party response from the SPF publisher domain if the REJECT action is taken for Neutral, SoftFail, or Fail verification result. By default, the email gateway returns the following response:

550-#5.7.1 SPF unauthorized mail is prohibited.

550-The domain example.com explains:

550 <Response text from SPF domain publisher>

To enable these SPF/SIDF settings, use the listenerconfig -> edit subcommand and select a listener. Then use the hostaccess -> default subcommand to edit the Host Access Table's default settings. Answer yes to the following prompts to configure the SPF controls:

```
Would you like to change SPF/SIDF settings?  [N]> yes
```

```
Would you like to perform SPF/SIDF Verification?  [Y]> yes
```

The following SPF control settings are available for the Host Access Table:

Table 17: SPF Control Settings

Conformance Level	Available SPF Control Settings
SPF Only	• whether to perform HELO identity check • SMTP actions taken based on the results of the following identity checks: • HELO identity (if enabled) • MAIL FROM Identity • SMTP response code and text returned for the REJECT action • verification time out (in seconds)
SIDF Compatible	• whether to perform a HELO identity check • whether the verification downgrades a Pass result of the PRA identity to None if the Resent-Sender: or Resent-From: headers are present in the message • SMTP actions taken based on the results of the following identity checks: • HELO identity (if enabled) • MAIL FROM Identity • PRA Identity • SMTP response code and text returned for the REJECT action • verification timeout (in seconds)

Conformance Level	Available SPF Control Settings
SIDF Strict	• SMTP actions taken based on the results of the following identity checks: • MAIL FROM Identity • PRA Identity • SMTP response code and text returned in case of SPF REJECT action • verification timeout (in seconds)

The following example shows a user configuring the SPF/SIDF verification using the SPF Only conformance level. The email gateway performs the HELO identity check and accepts the None and Neutral verification results and rejects the others. The CLI prompts for the SMTP actions are the same for all identity types. The user does not define the SMTP actions for the MAIL FROM identity. The email gateway automatically accepts all verification results for the identity. The email gateway uses the default reject code and text for all REJECT results.

Example: SPF/SIDF Settings

```
Would you like to change SPF/SIDF settings?  [N]> yes
Would you like to perform SPF/SIDF Verification?  [N]> yes
What Conformance Level would you like to use?
1. SPF only
2. SIDF compatible
3. SIDF strict
[2]> 1
Would you like to have the HELO check performed? [Y]> y
Would you like to change SMTP actions taken as result of the SPF verification? [N]> y
Would you like to change SMTP actions taken for the HELO identity? [N]> y
What SMTP action should be taken if HELO check returns None?
1. Accept
2. Reject
[1]> 1
What SMTP action should be taken if HELO check returns Neutral?
1. Accept
2. Reject
[1]> 1
What SMTP action should be taken if HELO check returns SoftFail?
1. Accept
2. Reject
[1]> 2
What SMTP action should be taken if HELO check returns Fail?
1. Accept
2. Reject
[1]> 2
What SMTP action should be taken if HELO check returns TempError?
1. Accept
2. Reject
[1]> 2
What SMTP action should be taken if HELO check returns PermError?
1. Accept
2. Reject
[1]> 2
Would you like to change SMTP actions taken for the MAIL FROM identity? [N]> n
Would you like to change SMTP response settings for the REJECT action? [N]> n
Verification timeout (seconds)
[40]>
```

The following shows how the SPF/SIDF settings are displayed for the listener's Default Policy Parameters.

Example: SPF/SIDF in Default Policy Parameters

```
SPF/SIDF Verification Enabled: Yes
  Conformance Level: SPF only
  Do HELO test: Yes
  SMTP actions:
    For HELO Identity:
      None, Neutral: Accept
      SoftFail, Fail, TempError, PermError: Reject
    For MAIL FROM Identity: Accept
  SMTP Response Settings:
    Reject code: 550
    Reject text: #5.7.1 SPF unauthorized mail is prohibited.
    Get reject response text from publisher: Yes
    Defer code: 451
    Defer text: #4.4.3 Temporary error occurred during SPF verification.
  Verification timeout: 40
```

Example - Enable DMARC Verification

The following example shows how to enable DMARC verification.

```
mail.example.com> listenerconfig
Currently configured listeners:
1. Listener 1 (on Management, 172.29.181.70) SMTP TCP Port 25 Public
Choose the operation you want to perform:
- NEW - Create a new listener.
- EDIT - Modify a listener.
- DELETE - Remove a listener.
- SETUP - Change global settings.
[]> edit
Enter the name or number of the listener you wish to edit.
[]> 1
Name: Listener 1
Type: Public
Interface: Management (172.29.181.70/24) TCP Port 25
Protocol: SMTP
Default Domain: <none configured>
Max Concurrent Connections: 300 (TCP Queue: 50)
Domain Map: Disabled
TLS: No
SMTP Authentication: Disabled
Bounce Profile: Default
Use SenderBase For Reputation Filters and IP Profiling: Yes
Footer: None
Heading: None
SMTP Call-Ahead: Disabled
LDAP: Off
Choose the operation you want to perform:
- NAME - Change the name of the listener.
- INTERFACE - Change the interface.
- CERTIFICATE - Choose the certificate.
- LIMITS - Change the injection limits.
- SETUP - Configure general options.
- HOSTACCESS - Modify the Host Access Table.
- RCPTACCESS - Modify the Recipient Access Table.
- BOUNCECONFIG - Choose the bounce profile to use for messages injected on this listener.
- MASQUERADE - Configure the Domain Masquerading Table.
- DOMAINMAP - Configure domain mappings.
[]> hostaccess
Default Policy Parameters
==========================
```

```
Maximum Message Size: 20M
Maximum Number Of Concurrent Connections From A Single IP: 10
Maximum Number Of Messages Per Connection: 10
Maximum Number Of Recipients Per Message: 50
Directory Harvest Attack Prevention: Enabled
Maximum Number Of Invalid Recipients Per Hour: 25
Maximum Number Of Recipients Per Hour: Disabled
Maximum Number of Recipients per Envelope Sender: Disabled
Use SenderBase for Flow Control:  Yes
Spam Detection Enabled:  Yes
Virus Detection Enabled:  Yes
Allow TLS Connections: No
Allow SMTP Authentication: No
Require TLS To Offer SMTP authentication: No
DKIM/DomainKeys Signing Enabled: No
DKIM Verification Enabled: No
SPF/SIDF Verification Enabled: No
DMARC Verification Enabled: No
Envelope Sender DNS Verification Enabled: No
Domain Exception Table Enabled: No
Accept untagged bounces:  No
There are currently 4 policies defined.
There are currently 5 sender groups.
Choose the operation you want to perform:
- NEW - Create a new entry.
- EDIT - Modify an entry.
- DELETE - Remove an entry.
- MOVE - Move an entry.
- DEFAULT - Set the defaults.
- PRINT - Display the table.
- IMPORT - Import a table from a file.
- EXPORT - Export the table to a file.
- RESET - Remove senders and set policies to system default.
[]> default
Enter the default maximum message size. Add a trailing k for kilobytes, M for megabytes,
or no letter for bytes.
[20M]>
Enter the maximum number of concurrent connections allowed from a single IP address.
[10]>
Enter the maximum number of messages per connection.
[10]>
Enter the maximum number of recipients per message.
[50]>
Do you want to override the hostname in the SMTP banner?  [N]>
Would you like to specify a custom SMTP acceptance response? [N]>
Would you like to specify a custom SMTP rejection response? [N]>
Do you want to enable rate limiting per host?  [N]>
Do you want to enable rate limiting per envelope sender?  [N]>
Do you want to enable Directory Harvest Attack Prevention per host?  [Y]>
Enter the maximum number of invalid recipients per hour from a remote host.
[25]>
Select an action to apply when a recipient is rejected due to DHAP:
1. Drop
2. Code
[1]>
Would you like to specify a custom SMTP DHAP response? [Y]>
Enter the SMTP code to use in the response. 550 is the standard code.
[550]>
Enter your custom SMTP response.  Press Enter on a blank line to finish.
Would you like to use SenderBase for flow control by default?  [Y]>
Would you like to enable anti-spam scanning?  [Y]>
Would you like to enable anti-virus scanning?  [Y]>
Do you want to allow encrypted TLS connections?
1. No
```

```
2. Preferred
3. Required
4. Preferred - Verify
5. Required - Verify
[1]>
Would you like to enable DKIM/DomainKeys signing?  [N]>
Would you like to enable DKIM verification?  [N]>
Would you like to change SPF/SIDF settings?  [N]>
Would you like to enable DMARC verification?  [N]> Y
Select the DMARC verification profile to use:
1. DEFAULT
[1]> 1
Would you like to send aggregate reports? [N]> Y
Note: DMARC reports should be DMARC compliant.
      Secure delivery is recommended for delivery of DMARC reports.
      Please enable TLS support using the `destconfig` command.
Would you like to enable envelope sender verification?  [N]> Y
Would you like to specify a custom SMTP response for malformed envelope senders? [Y]>
Enter the SMTP code to use in the response. 553 is the standard code.
[553]>
Enter your custom SMTP response.  Press Enter on a blank line to finish.
Would you like to specify a custom SMTP response for envelope sender domains which do not
resolve? [Y]>
Enter the SMTP code to use in the response. 451 is the standard code.
[451]>
Enter your custom SMTP response.  Press Enter on a blank line to finish.
Would you like to specify a custom SMTP response for envelope sender domains which do not
exist?  [Y]>
Enter the SMTP code to use in the response. 553 is the standard code.
[553]>
Enter your custom SMTP response.  Press Enter on a blank line to finish.
Would you like to enable use of the domain exception table?  [N]>
Do you wish to accept untagged bounces?  [N]>
Default Policy Parameters
==========================
Maximum Message Size: 20M
Maximum Number Of Concurrent Connections From A Single IP: 10
Maximum Number Of Messages Per Connection: 10
Maximum Number Of Recipients Per Message: 50
Directory Harvest Attack Prevention: Enabled
Maximum Number Of Invalid Recipients Per Hour: 25
Maximum Number Of Recipients Per Hour: Disabled
Maximum Number of Recipients per Envelope Sender: Disabled
Use SenderBase for Flow Control:  Yes
Spam Detection Enabled:  Yes
Virus Detection Enabled:  Yes
Allow TLS Connections: No
Allow SMTP Authentication: No
Require TLS To Offer SMTP authentication: No
DKIM/DomainKeys Signing Enabled: No
DKIM Verification Enabled: No
SPF/SIDF Verification Enabled: No
DMARC Verification Enabled: Yes
  DMARC Verification Profile: DEFAULT
  Aggregate reports: Yes
Envelope Sender DNS Verification Enabled: Yes
Domain Exception Table Enabled: No
Accept untagged bounces:  No
There are currently 4 policies defined.
There are currently 5 sender groups.
Choose the operation you want to perform:
- NEW - Create a new entry.
- EDIT - Modify an entry.
- DELETE - Remove an entry.
```

```
- MOVE - Move an entry.
- DEFAULT - Set the defaults.
- PRINT - Display the table.
- IMPORT - Import a table from a file.
- EXPORT - Export the table to a file.
- RESET - Remove senders and set policies to system default.
[]>
Name: Listener 1
Type: Public
Interface: Management (172.29.181.70/24) TCP Port 25
Protocol: SMTP
Default Domain: <none configured>
Max Concurrent Connections: 300 (TCP Queue: 50)
Domain Map: Disabled
TLS: No
SMTP Authentication: Disabled
Bounce Profile: Default
Use SenderBase For Reputation Filters and IP Profiling: Yes
Footer: None
Heading: None
SMTP Call-Ahead: Disabled
LDAP: Off
Choose the operation you want to perform:
- NAME - Change the name of the listener.
- INTERFACE - Change the interface.
- CERTIFICATE - Choose the certificate.
- LIMITS - Change the injection limits.
- SETUP - Configure general options.
- HOSTACCESS - Modify the Host Access Table.
- RCPTACCESS - Modify the Recipient Access Table.
- BOUNCECONFIG - Choose the bounce profile to use for messages injected on this listener.
- MASQUERADE - Configure the Domain Masquerading Table.
- DOMAINMAP - Configure domain mappings.
[]>
Currently configured listeners:
1. Listener 1 (on Management, 172.29.181.70) SMTP TCP Port 25 Public
Choose the operation you want to perform:
- NEW - Create a new listener.
- EDIT - Modify a listener.
- DELETE - Remove a listener.
- SETUP - Change global settings.
[]>
mail.example.com>
```

localeconfig

Description

Configure multi-lingual settings

Usage

Commit: This command requires a ‘commit’.

Cluster Management: This command can be used in all three machine modes (cluster, group, machine).

Batch Command: This command does not support a batch format.

Example

```
mail3.example.com> localeconfig

Behavior when modifying headers: Use encoding of message body
Behavior for untagged non-ASCII headers: Impose encoding of message body
Behavior for mismatched footer or heading encoding: Try both body and footer or heading
encodings
Behavior when decoding errors found: Disclaimer is displayed as inline content and the
message body is added as an attachment.

Choose the operation you want to perform:
- SETUP - Configure multi-lingual settings.
[]> setup

If a header is modified, encode the new header in the same encoding as the message body?
(Some MUAs incorrectly handle headers encoded in a different encoding than the body.
However, encoding a modified header in the same encoding as the message body may cause
certain
characters in the modified header to be lost.) [Y]>

If a non-ASCII header is not properly tagged with a character set and is being used or
modified,
impose the encoding of the body on the header during processing and final representation
of the message?
(Many MUAs create non-RFC-compliant headers that are then handled in an undefined way.
Some MUAs handle headers encoded in character sets that differ from that of the main body
in an incorrect way.
Imposing the encoding of the body on the header may encode the header more precisely.
This will be used to interpret the content of headers for processing, it will not modify
or rewrite the
header unless that is done explicitly as part of the processing.) [Y]>

Disclaimers (as either footers or headings) are added in-line with the message body whenever
 possible.
However, if the disclaimer is encoded differently than the message body, and if imposing a
 single encoding
will cause loss of characters, it will be added as an attachment. The system will always
try to use the
message body's encoding for the disclaimer. If that fails, the system can try to edit the
message body to
use an encoding that is compatible with the message body as well as the disclaimer. Should
 the system try to
re-encode the message body in such a case? [Y]>

If the disclaimer that is added to the footer or header of the message generates an error
when decoding the message body,
it is added at the top of the message body. This prevents you to rewrite a new message
content that must merge with
the original message content and the header/footer-stamp.
The disclaimer or message body is split into separate message attachment. Do you want the
appliance to ignore
such errors when decoding the message body? [N]>

Behavior when modifying headers: Use encoding of message body
Behavior for untagged non-ASCII headers: Impose encoding of message body
Behavior for mismatched footer or heading encoding: Try both body and footer or heading
encodings
 Behavior when decoding errors are found: Disclaimer or message body is added
as a message attachment.

Choose the operation you want to perform:
```

```
- SETUP - Configure multi-lingual settings.
[]> mail3.example.com
```

smtpauthconfig

Description

Configure SMTP Auth outgoing and forwarding profiles.

Usage

Commit: This command requires a 'commit'.

Cluster Management: This command can be used in all three machine modes (cluster, group, machine).

Batch Command: This command does not support a batch format.

Example

In the following example, the **smtpauthconfig** command is used to create a new, forwarding-based profile for the server "smtp2.example.com:"

```
mail3.example.com> smtpauthconfig
Choose the operation you want to perform:
- NEW - Create a new SMTP Auth profile
[]> new
Choose the type of profile you wish to create:
- FORWARD - Create an SMTP Auth forwarding server group profile
- OUTGOING - Create an outgoing SMTP Auth profile
[]> forward
Enter a name for this profile:
[]> forwarding-based
Please begin entering forwarding servers for this group profile.
Enter a hostname or an IP address for the forwarding server:
[]> smtp2.example.com
Enter a port:
[25]>
Choose the interface to use for forwarding requests:
1. Auto
2. Data 1 (192.168.1.1/24: mail3.example.com)
3. Data 2 (192.168.2.1/24: mail3.example.com)
4. Management (192.168.42.42/24: mail3.example.com)
[1]>
Require TLS? (issue STARTTLS) [Y]> y
Enter the maximum number of simultaneous connections allowed:
[10]>
Use SASL PLAIN mechanism when contacting forwarding server? [Y]>
Use SASL LOGIN mechanism when contacting forwarding server? [Y]>
Would you like to enter another forwarding server to this group? [N]>
Choose the operation you want to perform:
- NEW - Create a new SMTP Auth profile
- EDIT - Edit an existing SMTP Auth profile
- PRINT - List all profiles
- DELETE - Delete a profile
- CLEAR - Delete all profiles
[]>
mail3.example.com> commit
Please enter some comments describing your changes:
[]> created SMTP auth profile
```

```
Do you want to save the current configuration for rollback? [Y]> n
Changes committed: Fri May 23 11:42:12 2014 GMT
```

Note An authenticated user is granted a RELAY HAT policy.

You may specify more than one forwarding server in a profile. SASL mechanisms CRAM-MD5 and DIGEST-MD5 are not supported between the email gateway and a forwarding server.

System Setup

systemsetup

Description

First time system setup as well as re-installation of the system.

Usage

Commit: This command requires a 'commit'.

Cluster Management: This command can be used in all three machine modes (cluster, group, machine).

Batch Command: This command does not support a batch format.

Example

```
mail3.example.com> systemsetup
WARNING: The system setup wizard will completely delete any existing
'listeners' and all associated settings including the 'Host Access Table' -
mail operations may be interrupted.
Are you sure you wish to continue? [Y]> y
Before you begin, please reset the administrator passphrase to a new value.
Old passphrase:
Would you like to get a system generated passphrase? [N]>
New passphrase:
Retype new passphrase:
*****
You will now configure the network settings for the IronPort C100.
Please create a fully qualified hostname for the IronPort C100 appliance
(Ex: "ironport-C100.example.com"):
[]> ironport-C100.example.com
*****
You will now assign an IP address for the "Data 1" interface.
Please create a nickname for the "Data 1" interface (Ex: "Data 1"):
[]> Data 1
Enter the static IP address for "Data 1" on the "Data 1" interface? (Ex:
"192.168.1.1"):
[]> 192.168.1.1
What is the netmask for this IP address? (Ex: "255.255.255.0" or "0xffffff00"):
[255.255.255.0]>
You have successfully configured IP Interface "Data 1".
*****
```

```
Would you like to assign a second IP address for the "Data 1" interface? [Y]> n
What is the IP address of the default router (gateway) on your network?:
[192.168.1.1]> 192.168.2.1
*****
Do you want to enable the web interface on the Data 1 interface? [Y]> y
Do you want to use secure HTTPS? [Y]> y
Note: The system will use a demo certificate for HTTPS.
Use the "certconfig" command to upload your own certificate.
*****
Do you want the IronPort C100 to use the Internet's root DNS servers or would
you like it to use your own DNS servers?
1. Use Internet root DNS servers
2. Use my own DNS servers
[1]> 2
Please enter the IP address of your DNS server.
[]> 192.168.0.3
Do you want to enter another DNS server? [N]>
You have successfully configured the DNS settings.
*****
You are now going to configure how the IronPort C100 accepts mail by creating a
"Listener".
Please create a name for this listener (Ex: "MailInterface"):
[]> InboundMail
Please choose an IP interface for this Listener.
1. Data 1 (192.168.1.1/24: ironport-C100.example.com)
[1]> 1
Enter the domain names or specific email addresses you want to accept mail for.
Hostnames such as "example.com" are allowed.
Partial hostnames such as ".example.com" are allowed.
Usernames such as "postmaster@" are allowed.
Full email addresses such as "joe@example.com" or "joe@[1.2.3.4]" are allowed.
Separate multiple addresses with commas.
[]> example.com, .example.com
Would you like to configure SMTP routes for example.com, .example.com? [Y]> n
Please specify the systems allowed to relay email through the IronPort C100.
Hostnames such as "example.com" are allowed.
Partial hostnames such as ".example.com" are allowed.
IP addresses, IP address ranges, and partial IP addresses are allowed.
Separate multiple entries with commas.
[]> example.com, .example.com
Do you want to enable filtering based on SenderBase Reputation Service (SBRS)
Scores for this listener? (Your selection will be used to filter all incoming
mail based on its SBRS Score.) [Y]> y
Do you want to enable rate limiting for this listener? (Rate limiting defines
the maximum number of recipients per hour you are willing to receive from a
remote domain.) [Y]> y
Enter the maximum number of recipients per hour to accept from a remote domain.
[]> 1000
Default Policy Parameters
==========================
Maximum Message Size: 10M
Maximum Number Of Concurrent Connections From A Single IP: 10
Maximum Number Of Messages Per Connection: 10
Maximum Number Of Recipients Per Message: 50
Directory Harvest Attack Prevention: Enabled
Maximum Number Of Invalid Recipients Per Hour: 25
Maximum Number Of Recipients Per Hour: 1,000
Maximum Recipients Per Hour SMTP Response:
    452 Too many recipients received this hour
Use SenderBase for Flow Control:  Yes
Spam Detection Enabled:  Yes
Virus Detection Enabled:  Yes
Allow TLS Connections: No
Allow SMTP Authentication: No
```

```
Require TLS To Offer SMTP authentication: No
DKIM/DomainKeys Signing Enabled: No
DKIM Verification Enabled: No
SPF/SIDF Verification Enabled: No
DMARC Verification Enabled: No
Envelope Sender DNS Verification Enabled: No
Domain Exception Table Enabled: No
Accept untagged bounces:  No
Would you like to change the default host access policy? [N]> n
Listener InboundMail created.
Defaults have been set for a Public listener.
Use the listenerconfig->EDIT command to customize the listener.
*****
Do you want to use Anti-Spam scanning in the default Incoming Mail policy? [Y]> y
Would you like to enable IronPort Spam Quarantine? [Y]> y
IronPort Anti-Spam configured globally for the IronPort C100 appliance. Use the
policyconfig command (CLI) or Mail Policies (GUI) to customize the IronPort
settings for each listener.
IronPort selected for DEFAULT policy
*****
Do you want to use Anti-Virus scanning in the default Incoming and Outgoing
Mail policies? [Y]> y
1. McAfee Anti-Virus
2. Sophos Anti-Virus
Enter the number of the Anti-Virus engine you would like to use on the default
Incoming and Outgoing Mail policies.
[]> 2
Sophos selected for DEFAULT policy
*****
Do you want to enable Outbreak Filters? [Y]> y
Outbreak Filters enabled.
Outbreak Filter alerts are sent when outbreak rules cross the threshold (go above or back
down below),
meaning that new messages of certain types could be quarantined or will no longer be
quarantined, respectively.
Allow the sharing of limited data with SenderBase? [Y]> y
You have successfully configured Outbreak Filters and SenderBase.
*****
You will now configure system alerts.
Please enter the email address(es) to send alerts.
(Ex: "administrator@example.com")
Separate multiple addresses with commas.
[]> administrator@example.com
Would you like to enable IronPort AutoSupport, which automatically emails
system alerts and weekly status reports directly to IronPort Customer Support?
You will receive a complete copy of each message sent to IronPort.
(Recommended) [Y]> y
*****
You will now configure scheduled reporting.
Please enter the email address(es) to deliver scheduled reports to.
(Leave blank to only archive reports on-box.)
Separate multiple addresses with commas.
[]> administrator@example.com
*****
You will now configure system time settings.
Please choose your continent:
1. Africa
2. America
...
11. GMT Offset
[11]> 2
Please choose your country:
1. Anguilla
...
```

```
47. United States
48. Uruguay
49. Venezuela
50. Virgin Islands (British)
51. Virgin Islands (U.S.)
[]> 47
Please choose your timezone:
1. Alaska Time (Anchorage)
...
26. Pacific Time (Los_Angeles)
[]> 26
Do you wish to use NTP to set system time? [Y]> y
Please enter the fully qualified hostname or IP address of your NTP server, or
press Enter to use time.ironport.com:
[time.ironport.com]>
*****
Would you like to commit these changes at this time? [Y]> y
Congratulations! System setup is complete.
For advanced configuration, please refer to the User Guide.
```

URL Filtering

This section contains the following CLI commands:

aggregatorconfig

Description

Configure address for Cisco Aggregator Server on the email gateway. This server provides details of the end users who clicked on rewritten URLs and the action (allowed, blocked or unknown) associated with each user click.

Usage

Commit: This command requires a ‘commit’.

Cluster Management: This command can be used in all three machine modes (cluster, group, machine).

Batch Command: This command does not support a batch format.

Example

```
mail.example.com> aggregatorconfig
Choose the operation you want to perform:
- EDIT - Edit aggregator configuration
[]> edit
Edit aggregator address:
[aggregator.organization.com]> org-aggregator.com
Successfully changed aggregator address to : org-aggregator.com
```

retroscannerstatus

Description

Displays the version and update status of each updatable component used for communicating to the URL Retrospective service.

Usage

Commit: This command does not require a 'commit'.

Cluster Management: This command is restricted to machine mode..

Batch Command: This command does not support a batch format.

Example

In the following example, you can use the `retroscannerstatus` command to view the version and the update status of the URL Retrospective service components.

```
vm21esa0136.cs21> retroscannerstatus

Component    Version Last Updated
Cloud Retro Remediation Engine 1.0  Never updated
Cloud Retro Remediation Config 0.2  06 Apr 2022 18:00 (GMT +00:00)
Cloud Retro Client Certificate 1.0.1  06 Apr 2022 18:00 (GMT +00:00)
```

retroscannerupdate

Description

This command is used to request for an update of the URL Retrospective service engine.

Usage

Commit: This command does not require a 'commit'.

Cluster Management: This command is restricted to machine mode.

Batch Command: This command does not support a batch format.

Example

In the following example, you can use the `retroscannerupdate` command to request for an update of the URL Retrospective service engine.

```
vm21esa0136.cs21> > retroscannerupdate

Requesting check for new Retro scanner updates
```

urlretroservice

• Description, on page 357

- Usage, on page 357
- Example - Enabling URL Retrospective Service, on page 357
- Example - Viewing URL Retrospective Service Status, on page 357
- Example - Modifying URL Retrospective Service, on page 358
- Example - Disabling URL Retrospective Service, on page 358

Description

This command is used to view, modify, enable, or disable the URL Retrospective service engine.

Usage

Commit: This command requires a 'commit.'

Cluster Management: This command can be used in all three machine modes (cluster, group, machine).

Batch Command: This command supports a batch format. See the inline CLI help for more details. Use the help command to access the inline help for this command.

Example - Enabling URL Retrospective Service

In the following example, you can use the `urlretroservice` command to enable the URL Retrospective service engine.

```
mail.example.com> urlretroservice

Choose the operation you want to perform:
- ENABLE - Enable URL Retrospective Service
[]> enable

List of available regions:
1. AMERICAS
2. APJC
3. EUROPE
Select the region to connect :
[1]> 2


Choose the operation you want to perform:
- EDIT - Edit URL Retrospective Service
- STATUS - Display the URL Retrospective Service status
- DISABLE - Disable URL Retrospective Service

[]
```

Example - Viewing URL Retrospective Service Status

In the following example, you can use the `urlretroservice` command to view the URL Retrospective service engine status.

```
mail.example.com> urlretroservice

Choose the operation you want to perform:
- EDIT - Edit URL Retrospective Service
- STATUS - Display the URL Retrospective Service status
- DISABLE - Disable URL Retrospective Service
```

```
[]> status

URL Retrospective service is currently registered to: APJC
URL Retrospective service status: Connected

Choose the operation you want to perform:
- EDIT - Edit URL Retrospective Service
- STATUS - Display the URL Retrospective Service status
- DISABLE - Disable URL Retrospective Service
[]>
```

Example - Modifying URL Retrospective Service

In the following example, you can use the `urlretroservice` command to modify the URL Retrospective service.

```
mail.example.com> urlretroservice

Choose the operation you want to perform:
- EDIT - Edit URL Retrospective Service
- STATUS - Display the URL Retrospective Service status
- DISABLE - Disable URL Retrospective Service
[]> edit

List of available regions:
1. AMERICAS
2. APJC
3. EUROPE
Select the region to connect :
[2]> 1

WARNING: switching the region may cause URL Retrospective Service data loss. Do
you want to continue? [Y]> y

URL Retrospective region updated. Make sure to commit the changes to make it
effective.

Choose the operation you want to perform:
- EDIT - Edit URL Retrospective Service
- STATUS - Display the URL Retrospective Service status
- DISABLE - Disable URL Retrospective Service
[]>
```

Example - Disabling URL Retrospective Service

In the following example, you can use the `urlretroservice` command to disable the URL Retrospective service engine.

```
mail.example.com> urlretroservice

Choose the operation you want to perform:
- EDIT - Edit URL Retrospective Service
- STATUS - Display the URL Retrospective Service status
- DISABLE - Disable URL Retrospective Service
[]> disable

Are you sure you want to disable URL Retrospective Service? [Y]> y

Choose the operation you want to perform:
- ENABLE - Enable URL Retrospective Service
[]>
```

urllistconfig

Description

Configure or import allowed lists of URLs that will not be evaluated by URL filtering features. These lists are not used by the Outbreak Filters feature.

Usage

Commit: This command requires a ‘commit’.

Cluster Management: This command can be used in all three machine modes (cluster, group, machine).

Batch Command: This command supports a batch format.

Example

```
> urllistconfig
No URL lists configured.
Choose the operation you want to perform:
NEW - Create a new URL list-
[]> new
Do you want to import a URL list?
[N]>
Enter a name for the URL list
[]> sample
Enter the URL domains that need to be skipped from scanning for URL Filtering.
Enter one URL domain per line and '.' to finish.
cisco.com
ironport.com/*
*.example.com
10.2.4.5/24
[2001:DB8::1]
URL list sample added.
There are currently 4 URL lists configured.
Choose the operation you want to perform:
- NEW - Create a new URL allowed list.
- EDIT - Modify an existing URL allowed list.
- DELETE - Delete an existing URL allowed list.
[]>EDIT
Choose the operation to edit the URL allowed list:
- IMPORT – Import a file into an existing URL allowed list
- EXPORT – Export an existing URL allowed list into a file
- RENAME – Rename an existing URL allowed list
[]>IMPORT
Assign new name to the imported list? (By default, name stored in the
file will be applied to the list)
[N] > Y
Enter name of the list > new_list
Enter filename to import from > URLfile
NOTE: These files will be stored in /pub/configuration
URL list “new_list” added.
```

websecurityadvancedconfig

Description

Configure the following advanced settings for URL filtering:

- **URL Lookup Timeout**: The time taken for the URL to request the IP address for a certain domain name.
- **Maximum number of URLs to scan in message body**: The maximum number of URLs that are scanned in a message body .
- **Maximum number of URLs to scan in message attachments**: The maximum number of URLs that are scanned in the attachments of a message.
- **Rewrite URL text and HREF in the message**: You can choose whether you want the full rewritten URL to appear in the message body or the rewritten URL to only appear in the HREF for HTML messages.
- **URL logging**: Displays URL details in Mail Logs and Message Tracking.

Note Except to change timeout values for troubleshooting purposes, use this command only under the direction of Cisco support.

The timeout value is the value, in seconds, for communication with the cloud services that provide reputation and category for URLs.

Usage

Commit: This command requires a 'commit'.

Cluster Management: This command can be used in all three machine modes (cluster, group, machine).

Batch Command: This command supports a batch format.

Batch Format

For the batch format, see the CLI inline help.

Example

```
mail.example.com> websecurityadvancedconfig
Enter URL lookup timeout in seconds:
[15]>

Enter the maximum number of URLs that can be scanned in a message body:
[100]>

Enter the maximum number of URLs that can be scanned in the attachments in a
message:
[25]>

Do you want to rewrite both the URL text and the href in the message? Y
indicates that the full rewritten URL will appear in the email body. N
```

```
indicates that the rewritten URL will only be visible in the href for HTML
messages. [N]>

Logging of URLs is currently enabled.
Do you wish to disable logging of URL's? [N]>

>
```

websecurityconfig

Description

Configure basic settings for URL filtering (URL reputation and URL category features.) and mailbox remediation based on URL retrospective service.

Normally, certificate management is automatic. Unless directed to do otherwise by Cisco TAC, you should select No at the prompt to set a certificate.

Usage

Commit: This command requires a ‘commit’.

Cluster Management: This command can be used in all three machine modes (cluster, group, machine).

Batch Command: This command supports a batch format. See the inline CLI help for more details. Use the help command to access the inline help for this command.

Example

```
mail.example.com> websecurityconfig
Enable URL Filtering? [N]> y
Do you wish to enable Web Interaction Tracking? [N]> y
Web Interaction Tracking is enabled.
Do you want to add URLs to the allowed list using a URL list? [N]> y
1. urllist1
2. urllist2
3. No URL list
Enter the number of URL list
[1]> 1
URL list 'urllist1' added
mail.example.com> websecurityconfig
URL Filtering is enabled.
URL list 'urllist1' used.
System provided certificate used.
Web Interaction Tracking is enabled.
URL Retrospective service based Mail Auto Remediation is disabled.
URL Retrospective service status - Connected

URL Scanning from QRCode is enabled.
Image extraction for URL Scanning from QR Codes from attachments is enabled.

Disable URL Filtering? [N]> N

Do you wish to disable Web Interaction Tracking? [N]> N

There are no URL lists configured currently. Create a URL list for URLs that should
be skipped by URL Filtering, using the urllistconfig command.

Enable URL scanning from QR Code? [N]> y
Enable image extraction from attachments for URL scanning from QR Codes?
```

```
NOTE: Enabling this option might cause email processing delays. [Y]>


Enable URL Retrospective service based Mail Auto Remediation to configure remediation
actions.

Do you wish to enable Mailbox Auto Remediation action? [N]> y

URL Retrospective service based Mail Auto Remediation is enabled.

Please select a Mailbox Auto Remediation action:
1. Delete
2. Forward and Delete
3. Forward
[1]> 1
```

websecuritydiagnostics

Description

View diagnostic statistics related to URL filtering.

Usage

Commit: This command does not require a 'commit'.

Cluster Management: This command is restricted to machine mode.

Batch Command: This command does not support a batch format.

Example

```
mail.example.com> websecuritydiagnostics

Connection Status: Connected
```

User Management

This section contains the following CLI commands:

userconfig

Description

Manage user accounts and connections to external authentication sources.

Usage

Commit: This command requires a 'commit'.

Cluster Management: This command is restricted to cluster mode.

Batch Command: This command supports a batch format. See the inline CLI help for more details. Use the help command to access the inline help for this command, for example,

```
mail.example.com> userconfig help
```

Example - Creating a New User Account

The following example shows how to create a new user account with a Help Desk User role.

```
mail.example.com> userconfig
Users:
1. admin - "Administrator" (admin)
External authentication: Disabled
Choose the operation you want to perform:
- NEW - Create a new account.
- EDIT - Modify an account.
- DELETE - Remove an account.
- POLICY - Change passphrase and account policy settings.
- PASSPHRASE - Change the passphrase for a user.
- ROLE - Create/modify user roles.
- STATUS - Change the account status.
- EXTERNAL - Configure external authentication.
- DLPTRACKING - Configure DLP tracking privileges.
- URLTRACKING - Configure URL tracking privileges.
[]> new
Enter your Passphrase to make changes:
Enter the new username.
[]> helpdesk
Enter the full name for helpdesk.
[]> HELP DESK
Assign a role to "helpdesk":
1. Administrators - Administrators have full access to all settings of the system.
2. Operators - Operators are restricted from creating new user accounts.
3. Read-Only Operators - Read-Only operators may only view settings and status information.
4. Guests - Guest users may only view status information.
5. Technicians - Technician can only manage upgrades and feature keys.
6. Help Desk Users - Help Desk users have access only to ISQ and Message Tracking.
[1]> 6
Would you like to get a system generated passphrase? [N]>
Enter the passphrase for helpdesk
[]>
Please enter the new passphrase again:
Users:
1. admin - "Administrator" (admin)
2. helpdesk - "HELP DESK" (helpdesk)
External authentication: Disabled
Choose the operation you want to perform:
- NEW - Create a new account.
- EDIT - Modify an account.
- DELETE - Remove an account.
- POLICY - Change passphrase and account policy settings.
- PASSPHRASE - Change the passphrase for a user.
- ROLE - Create/modify user roles.
- STATUS - Change the account status.
- EXTERNAL - Configure external authentication.
- DLPTRACKING - Configure DLP tracking privileges.
- URLTRACKING - Configure URL tracking privileges.
[]>
```

Example - Setting Up a RADIUS Server for External Authentication

The following example shows how to set up a RADIUS server for external authentication. To set up a RADIUS server, enter the hostname, port, shared passphrase, and whether to use CHAP or PAP for the authentication protocol.

```
mail.example.com> userconfig
Users:
1. admin - "Administrator" (admin)
2. hdesk_user - "Helpdesk User" (helpdesk)
External authentication: Disabled
Choose the operation you want to perform:
- NEW - Create a new account.
- EDIT - Modify an account.
- DELETE - Remove an account.
- POLICY - Change passphrase and account policy settings.
- PASSPHRASE - Change the passphrase for a user.
- ROLE - Create/modify user roles.
- STATUS - Change the account status.
- EXTERNAL - Configure external authentication.
- DLPTRACKING - Configure DLP tracking privileges.
- URLTRACKING - Configure URL tracking privileges.
[]> external
Choose the operation you want to perform:
- SETUP - Set up global settings.
[]> setup
Do you want to enable external authentication? [N]> Y
Please enter the timeout in seconds for how long the external authentication credentials
will be cached. (Enter '0' to disable expiration of
authentication credentials altogether when using one time passphrases.)
[0]> 30
Choose a mechanism to use:
LDAP is unavailable because no LDAP queries of type EXTERNALAUTH are configured
1. RADIUS
[1]> 1
Configured RADIUS servers:
- No RADIUS servers configured
Choose the operation you want to perform:
- NEW - Add a RADIUS server configuration.
[]> new
Please enter host name or IP address of the RADIUS server:
[]> radius.example.com
Please enter port number of the RADIUS server:
[1812]>
Please enter the shared passphrase:
>
Please enter the new passphrase again.
>
Please enter timeout in seconds for receiving a valid reply from the server:
[5]>
1. CHAP
2. PAP
Select authentication type:
[2]>
Configured RADIUS servers:
Host                      Port  Timeout (s) Auth type
------------------------- ----- ----------- ----------
radius.example.com        1812  5           pap
Choose the operation you want to perform:
- NEW - Add a RADIUS server configuration.
- EDIT - Modify a RADIUS server configuration.
- DELETE - Remove a RADIUS server configuration.
```

```
- CLEAR - Remove all RADIUS server configurations.
[]>
```

Example - Enabling Two-Factor Authentication for Specific User Role

In the following example, the `twofactorauth` sub command is used to enable two-factor authentication for a specific user role.

```
mail.example.com> userconfig

Users:

1. admin - "Administrator" (admin)

2. hdesk_user - "Helpdesk User" (helpdesk)

External authentication: Disabled

Two-Factor Authentication: Disabled

Choose the operation you want to perform:

- NEW - Create a new account.

- EDIT - Modify an account.

- DELETE - Remove an account.

- POLICY - Change passphrase and account policy settings.

- PASSPHRASE - Change the passphrase for a user.

- ROLE - Create/modify user roles.

- STATUS - Change the account status.

- EXTERNAL - Configure external authentication.

- TWOFACTORAUTH - Configure Two-Factor Authentication.

- DLPTRACKING - Configure DLP tracking privileges.

- URLTRACKING - Configure URL tracking privileges.

[]> twofactorauth

Choose the operation you want to perform:

- SETUP - Set up global settings.

- PRIVILEGES - Configure Two-Factor Authentication based on User Role Privileges.

[]> setup

Do you want to enable external authentication? [N]> y

Choose the operation you want to perform:

- NEW - Add a two-factor authentication server configuration.

- EDIT - Modify two-factor authentication server configuration.

- DELETE - Remove a two-factor authentication server configuration.
```

```
- CLEAR - Remove all two-factor authentication server configurations.
[]> new
Please enter host name or IP address of the RADIUS server:
[]> radius.example.com
Please enter port number of the RADIUS server:
[1812]> 1800
Please enter the shared passphrase:
>
Please enter the new passphrase again.
>
Please enter timeout in seconds for receiving a valid reply from the server:
[5]> 10
1. CHAP
2. PAP
Select authentication type:
[2]> 2
Choose the operation you want to perform:
- SETUP - Set up global settings.
- PRIVILEGES - Configure Two-Factor Authentication based on Role Privileges.
[]> privileges
Role Privileges:
Choose the operation you want to perform:
1. Add
[]> 1
Select Predefined Roles to allow the privileges
1. Administrators
2. Guests
3. Help Desk Users
4. Operators
5. Read-Only Operators
6. Technicians
Enter the numbers (comma separated) to add privilege.
```

```
[]> 1

Role Privileges:

Predefined:

Administrators

Choose the operation you want to perform:

1. Add

2. Delete

[]>
```

Example – Enabling SAML Authentication

```
mail.example.com > userconfig
Users:
1. admin - "Administrator" (admin)
External authentication: Disabled
Two-Factor Authentication: Disabled
Choose the operation you want to perform:
- NEW - Create a new account.
- EDIT - Modify an account.
- DELETE - Remove an account.
- POLICY - Change passphrase and account policy settings.
- PASSPHRASE - Change the passphrase for a user.
- ROLE - Create/modify user roles.
- STATUS - Change the account status.
- EXTERNAL - Configure external authentication.
- TWOFACTORAUTH - Configure Two-Factor Authentication.
- DLPTRACKING - Configure DLP tracking privileges.
- URLTRACKING - Configure URL tracking privileges.
[]> external
Choose the operation you want to perform:
- SETUP - Set up global settings.
[]> setup
Do you want to enable external authentication? [N]> y
Please enter the timeout in seconds for how long the external authentication credentials
will be cached.
(Enter '0' to disable expiration of authentication credentials altogether when using one
time passphrases.)
[0]> 10
Choose a mechanism to use:
LDAP is unavailable because no LDAP queries of type EXTERNALAUTH are configured
1. RADIUS
2. SAML
[1]> 2
Please enter the external group name to map (group names are case-sensitive):
[]> member-of
Assign a role to "member-of":
1. Administrators - Administrators have full access to all settings of the system.
2. Operators - Operators are restricted from creating new user accounts.
3. Read-Only Operators - Read-Only operators may only view settings and status information.
4. Guests - Guest users may only view status information.
5. Technicians - Technician can only manage upgrades and feature keys.
6. Help Desk Users - Help Desk users have access only to ISQ and Message Tracking.
[1]> 1
Mapping for "member-of" to Administrators created.
Please enter group attribute to be matched in saml attributes:
```

```
[[]]> Group Name
Choose the operation you want to perform:
- SETUP - Set up global settings.
- GROUPS - Configure external group mapping.
[]> groups
There are currently 1 mappings configured.
Choose the operation you want to perform:
- NEW - Create a new mapping.
- EDIT - Edit destination of an existing mapping.
- DELETE - Remove a mapping.
- CLEAR - Clear all mappings.
- PRINT - Display all mappings.
[]>
```

Example – Creating New Custom Role for AMP Configuration

The following example shows how to create a new custom role with AMP configuration privileges.

```
mail.example.com> > userconfig
Users:
1. admin - "Administrator" (admin)
2. ampcloud - "ampcloud" (ampcloud)
3. ampcluster - "ampcluster" (ampcluster)

Devops External authentication: Disabled
External authentication: Disabled
Two-Factor Authentication: Disabled

Choose the operation you want to perform:
- NEW - Create a new account.
- EDIT - Modify an account.
- DELETE - Remove an account.
- POLICY - Change passphrase and account policy settings.
- PASSPHRASE - Change the passphrase for a user.
- ROLE - Create/modify user roles.
- STATUS - Change the account status.
- EXTERNAL - Configure external authentication.
- TWOFACTORAUTH - Configure Two-Factor Authentication.
- DLPTRACKING - Configure DLP tracking privileges.
- URLTRACKING - Configure URL tracking privileges.
[]> ROLE
User Roles:
1. AMP
2. AMP_Config - AMP_Config
3. AMP_DLP - AMP_DLP

Choose the operation you want to perform:
- NEW - Define a new role.
- EDIT - Modify an existing role.
- DELETE - Remove an existing role.
- PRINT - Display an existing role.
[]> new

Enter a name for the role.
[]> AMPConfig

Enter a short description for user role 'AMPConfig'.
[]> New role for AMP Configuration

Select type of access to mailpolicies and content filters?
1. No access
2. View assigned, edit assigned
3. View all, edit assigned
4. View all, edit all (full access)
```

```
[1]> 3

Select type of access to DLP policies?
1. No access
2. View assigned, edit assigned
3. View all, edit assigned
4. View all, edit all (full access)
[1]> 1

Select type of access to AMP Configurations?
1. No access
2. Full access
[1]> 2

Select type of access to tracking?
1. No access
2. Message Tracking access
[1]> 2

Select type of access to reports?
1. No access
2. View relevant reports
3. View all reports
[1]> 3

Select type of access to trace?
1. No access
2. Trace access
[1]> 2

Select type of access to logs?
1. No access
2. Log Subscription access
[1]> 1

Role "AMPConfig" successfully created.
```

passphrase or passwd

Description

Change your passphrase.

Usage

Commit: This command requires a ‘commit’.

Cluster Management: This command is restricted to cluster mode.

Note The passwd command is a special case because it needs to be usable by guest users who can only ever be in machine mode. If a guest user issues the passwd command on a machine in a cluster, it will not print the warning message but will instead just silently operate on the cluster level data without changing the user's mode. All other users will get the above written behavior (consistent with the other restricted configuration commands).

Batch Command: This command does not support a batch format.

Example

```
mail3.example.com> passphrase
Old passphrase: your_old_passphrase
Would you like to get a system generated passphrase? [N]>
New passphrase: your_new_passphrase
Retype new passphrase: your_new_passphrase
passphrase changed.
```

last

Description

The last command displays who has recently logged into the system. By default, it shows all users who have logged into the system

Usage

Commit: This command does not require a 'commit'.

Cluster Management: This command is restricted to machine mode.

Batch Command: This command does not support a batch format.

Example

```
elroy.run> last
Username  Remote Host    Login Time         Logout Time        Total Time
========  =============  ================   ================   ==========
admin     10.251.23.186  Thu Sep 01 09:14   still logged in    1h 5m
admin     10.251.23.186  Wed Aug 31 14:00   Wed Aug 31 14:01   1m
admin     10.251.16.231  Wed Aug 31 13:36   Wed Aug 31 13:37   0m
admin     10.251.23.186  Wed Aug 31 13:34   Wed Aug 31 13:35   0m
admin     10.251.23.142  Wed Aug 31 11:26   Wed Aug 31 11:38   11m
admin     10.251.23.142  Wed Aug 31 11:05   Wed Aug 31 11:09   4m
admin     10.251.23.142  Wed Aug 31 10:52   Wed Aug 31 10:53   1m
admin     10.251.60.37   Tue Aug 30 01:45   Tue Aug 30 02:17   32m
admin     10.251.16.231  Mon Aug 29 10:29   Mon Aug 29 10:41   11m
shutdown                                    Thu Aug 25 22:20
```

who

Description

The **who** command lists all users who are logged into the system via the CLI, the time of login, the idle time, and the remote host from which the user is logged in.

Usage

Commit: This command does not require a 'commit'.

Cluster Management: This command is restricted to machine mode. It is further restricted to the login host (i.e., the specific machine you are logged onto). This command requires access to the local file system.

Batch Command: This command does not support a batch format.

Example

```
mail3.example.com> who
Username  Login Time  Idle Time  Remote Host  What
========  ==========  =========  ===========  ====
admin     03:27PM     0s         10.1.3.201   cli
```

whoami

Description

The **whoami** command displays the username and full name of the user currently logged in, and which groups the user belongs to.

Usage

Commit: This command requires a 'commit'.

Cluster Management: This command can be used in all three machine modes (cluster, group, machine).

Batch Command: This command does not support a batch format.

Example

```
mail3.example.com> whoami
Username: admin
Full Name: Administrator
Groups: admin, operators, config, log, guest
```

Virtual Email Gateway Management

loadlicense

Description

Loads an XML license for a virtual email gateway. You can load from a file or copy and paste. For complete information, see the *Cisco Content Security Virtual Appliance Installation Guide* available from http://www.cisco.com/c/en/us/support/security/email-security-appliance/products-installation-guides-list.html.

This command is available to users with Admin or Operator privileges.

Note You can load Classic License with the cloud feature key if you are a Secure Email Cloud Gateway user.

If you are an on-premises user, you must enable Smart Licensing. Use the license_smart, on page 305 command.

Once you have enabled Smart Licensing, when you use **loadlicense** command , you will receive the following warning message:

```
You have enabled smart licensing on your email gateway.Use the license_smart
command to perform smart licensing task.
```

Usage

Commit: This command does not require a 'commit'.

Cluster Management: This command is restricted to machine mode. It is further restricted to the login host (i.e., the specific machine you are logged onto).

Batch Command: This command does not support a batch format.

Example

```
mail.example.com> loadlicense
1 Paste via CLI
2 Load from file
How would you like to load a license file?
[1]> 2
Enter the name of the file in /configurations to import:
[]> <filename>
TERMS AND CONDITIONS OF USE
<Terms and conditions>
Do you accept the above license agreement?
[]> y
The license agreement was accepted.
The following feature key have been added:
<feature keys>
```

Errors and hardware misconfigurations may also be shown.

showlicense

Description

Displays information about the current virtual email gateway license. Additional details are available using the command.

This command is available to users with Admin or Operator privileges.

Note If you are an on-premises user, use the showlicense_smart, on page 315 command.

Usage

Commit: This command does not require a 'commit'.

Cluster Management: This command is restricted to machine mode. It is further restricted to the login host (i.e., the specific machine you are logged onto).

Batch Command: This command supports a batch format.

Batch Format

The syntax of this command is: showlicense

Example

```
mail.example.com> showlicense
company: Example Inc.
org: Widget Division
unit: Portland Data Center
seats: 1000
city: Portland
state: Oregon
country: US
email: mailadmin@example.com
begin_date: Tue Dec 6 17:45:19 2011
end_date: Mon Sep 1 17:45:19 2014
vln: ABC-123423123
serial: 1003385
```

Geolocation

This section contains the following CLI commands:

geolocationupdate

Description

Manually update the geolocation list.

Usage

Commit: This command does not require a 'commit'.

Cluster Management: This command is restricted to machine mode.

Batch Command: This command supports a batch format. For details, see the inline help by typing the command: `help geolocationupdate`.

Example

```
mail3.example.com> geolocationupdate
```

```
Requesting update of Geo Countries List.
```

geolocationstatus

Description

Displays the current version of the geolocation list.

Usage

Commit: This command does not require a 'commit'.

Cluster Management: This command is restricted to machine mode.

Batch Command: This command does not support a batch format.

Example

```
mail3.example.com> geolocationstatus

Component           Version    Last Updated

Geo Countries List   1.0.48    26 Feb 2017 04:22 (GMT +00:00)
```

Configuring Cisco Cloud Service Portal Settings and Usage

This section contains the following CLI command:

- cloudserviceconfig, on page 374

cloudserviceconfig

- Description, on page 375
- Usage, on page 375
- Example - Reregistering Email Gateway with Cisco Cloud Services Portal, on page 378
- Example - Enabling Cisco Cloud Services on Email Gateway, on page 375
- Example - Disabling Cisco Cloud Services on Email Gateway, on page 376
- Example - Registering Email Gateway with Cisco Cloud Services Portal, on page 376
- Example - Automatically Registering Email Gateway with Cisco Cloud Services Portal, on page 377
- Example - Deregistering Email Gateway from Cisco Cloud Services Portal , on page 378
- Example - Choosing Cisco Secure Cloud Server to connect Email Gateway to Cisco Cloud Services Portal, on page 379
- Example - Enabling Cisco XDR on Email Gateway, on page 379

- Example - Disabling Cisco XDR on Email Gateway, on page 380
- Example - Enabling CSN on Email Gateway, on page 381
- Example - Disabling CSN on Email Gateway, on page 381
- Example - Downloading Cisco Cloud Services Certificate and Key from Cisco Talos Intelligence Services Portal, on page 382

Description

The `cloudserviceconfig` command is used to:

- Reregister your email gateway with the Cisco Cloud Services portal.
- Enable the Cisco Cloud Services portal on your email gateway.
- Disable the Cisco Cloud Services portal on your email gateway.
- Register your email gateway with the Cisco Cloud Services portal.
- Automatically register your email gateway with the Cisco Cloud Services portal.
- Deregister your email gateway from the Cisco Cloud Services portal.
- Choose the Cisco Secure Cloud server to connect your email gateway to the Cisco Cloud Services portal
- Enable Cisco XDR on your email gateway.
- Disable Cisco XDR on your email gateway.
- Enable Cisco Success Network (CSN) on your email gateway.
- Disable Cisco Success Network (CSN) on your email gateway.
- Download the Cisco Cloud Services certificate and key from the Cisco Talos Intelligence Services portal.

Usage

Commit: This command does not require a 'commit.'

Cluster Management: This command is restricted to the machine mode.

Batch Command: This command supports a batch format.

Example - Enabling Cisco Cloud Services on Email Gateway

In the following example, you can use the `clouderviceconfig > enable` sub command to enable Cisco Cloud Services on your email gateway.

```
mail1.example.com > cloudserviceconfig

Choose the operation you want to perform:
- ENABLE - The Cisco Cloud Service is currently disabled on your appliance.
[]> enable

The Cisco Cloud Service is currently enabled on your appliance.

Currently configured Cisco Secure Cloud Server is: api.apj.sse.itd.cisco.com
```

```
Available list of Cisco Secure Cloud Servers:
1. AMERICAS (api-sse.cisco.com)
2. APJC (api.apj.sse.itd.cisco.com)
3. EUROPE (api.eu.sse.itd.cisco.com)

Enter Cisco Secure Cloud Server to connect to the Cisco Cloud Service portal.:
[]> 1

Selected Cisco Secure Cloud Server is api-sse.cisco.com.

Make sure you run "commit" to make these changes active.
mail1.example.com > commit

Please enter some comments describing your changes:
[]> commit changes

Do you want to save the current configuration for rollback? [Y]>

Changes committed: Tue Dec 29 13:23:19 2020 GMT
mail1.example.com >
```

Example - Disabling Cisco Cloud Services on Email Gateway

In the following example, you can use the `clouderviceconfig > disable` sub command to disable Cisco Cloud Services on your email gateway.

```
mail1.example.com > cloudserviceconfig

The appliance is not registered with the Cisco Cloud Service portal.

Currently configured Cisco Cloud Server is api-sse.cisco.com

Choose the operation you want to perform:
- DISABLE - The Cisco Cloud Service is currently enabled on your appliance.
- REGISTER - To register the appliance with the Cisco Cloud Service portal.
- SETTRS - Set the Cisco Secure Cloud Server to connect to the Cisco Cloud
Service portal.
[]> disable

The Cisco Cloud Service is currently disabled on your appliance.
mail1.example.com > commit

Please enter some comments describing your changes:
[]> commit changes

Do you want to save the current configuration for rollback? [Y]>

Changes committed: Tue Dec 29 13:01:07 2020 GMT
mail1.example.com >
```

Example - Registering Email Gateway with Cisco Cloud Services Portal

In the following example, you can use the `cloudserviceconfig > register` sub command to register your email gateway with the Cisco Cloud Services portal.

Note You can only use this sub command if Smart Software licensing is not enabled, and your email gateway is not registered with Cisco Smart Software Manager.

```
mail1.example.com > cloudserviceconfig

The appliance is not registered with the Cisco Cloud Service portal.

Currently configured Cisco Cloud Server is api-sse.cisco.com
Choose the operation you want to perform:
- DISABLE - The Cisco Cloud Service is currently enabled on your appliance.
- REGISTER - To register the appliance with the Cisco Cloud Service portal.
- SETTRS - Set the Cisco Secure Cloud Server to connect to the Cisco Cloud
Service portal.
[]> register

Enter a registration token key to register your appliance with the Cisco Cloud
Service portal.
[]> c7fda800adc846792af38d15e4

The appliance registration is in progress.
mail1.example.com>
```

Example - Automatically Registering Email Gateway with Cisco Cloud Services Portal

In the following example, you can use the `cloudserviceconfig > autoregister` sub command to automatically register your email gateway with the Cisco Cloud Services portal.

Note You can only use this sub command, if your email gateway is not automatically registered with the Cisco Cloud Services portal when Smart Software licensing is enabled, and your email gateway is registered with Cisco Smart Software Manager.

```
mail1.example.com> cloudserviceconfig


The appliance is successfully registered with the Cisco Cloud Service portal.

Currently configured Cisco Cloud Server is api-sse.cisco.com

Choose the operation you want to perform:
- SETTRS - Set the Cisco Secure Cloud Server to connect to the Cisco Cloud Service portal.
- AUTOREGISTER - register the appliance with the Cisco Cloud Service portal using Smart
Licensing Information.
- ENABLEXDR - To enable the XDR feature on your appliance.
- DISABLECSN - To disable the Cisco Success Network feature on your appliance.
[]> autoregister



The auto-registration of the appliance with the Cisco Cloud Service portal is in progress.
mail1.example.com > cloudserviceconfig

The appliance is successfully registered with the Cisco Cloud Service portal.

Currently configured Cisco Cloud Server is api-sse.cisco.com

Choose the operation you want to perform:
- SETTRS - Set the Cisco Secure Cloud Server to connect to the Cisco Cloud Service portal.
- FETCHCERTIFICATE - Download the Cisco Talos certificate and key
- ENABLEXDR - To enable the XDR feature on your appliance.
- DISABLECSN - To disable the Cisco Success Network feature on your appliance.
[]>
```

Example - Deregistering Email Gateway from Cisco Cloud Services Portal

In the following example, you can use the `cloudserviceconfig` > `deregister` sub command to deregister your email gateway from the Cisco Cloud Services portal.

```
mail1.example.com> cloudserviceconfig

The appliance is successfully registered with the Cisco Cloud Service portal.

Currently configured Cisco Cloud Server is api-sse.cisco.com

Choose the operation you want to perform:
- DISABLE - The Cisco Cloud Service is currently enabled on your appliance.
- DEREGISTER - To deregister the appliance from the Cisco Cloud Service portal.
- SETTRS - Set the Cisco Secure Cloud Server to connect to the Cisco Cloud
Service portal.
- ENABLEXDR - To enable the XDR feature on your appliance.
- ENABLECSN - To enable the Cisco Success Network feature on your appliance.
[]> deregister

Do you want to deregister your appliance from the Cisco Cloud Service portal.

If you deregister, you will not be able to access the Cloud Service features. [N]> yes

The appliance deregistration is in progress.
mail1.example.com>
```

Example - Reregistering Email Gateway with Cisco Cloud Services Portal

In the following example, you can use the `cloudserviceconfig` > `reregister` sub command to reregister your email gateway with the Cisco Cloud Services portal.

```
mail1.example.com> cloudserviceconfig

The appliance is successfully registered with the Cisco Cloud Service portal.
Currently configured Cisco Cloud Server is api-sse.cisco.com

Choose the operation you want to perform:
- FETCHCERTIFICATE - Download the Cisco Talos certificate and key
- DISABLEXDR - To disable the XDR feature on your appliance.
- DISABLECSN - To disable the Cisco Success Network feature on your appliance.
- REREGISTER - To reregister the appliance with the Cisco Cloud Service portal
[]> reregister

Currently configured Cisco Cloud Server : api-sse.cisco.com .
Would you like to switch to different server? [Y]> yes

Available list of Cisco Secure Cloud Servers:
1. AMERICAS (api-sse.cisco.com)
2. APJC (api.apj.sse.itd.cisco.com)
3. EUROPE (api.eu.sse.itd.cisco.com)
Enter Cisco Secure Cloud Server to connect to the Cisco Cloud Service portal.:
[]> 2

Would you like to proceed with manual registration ? [Y]> yes

Enter a registration token key to register your appliance with the Cisco Cloud Service
portal.
[]>c7fda800afsdfss.....
```

Example - Choosing Cisco Secure Cloud Server to connect Email Gateway to Cisco Cloud Services Portal

In the following example, you can use the `cloudserviceconfig` > `settrs` sub command to choose the required Cisco Secure Cloud Server to connect your email gateway to the Cisco Cloud Services portal.

```
mail1.example.com > cloudserviceconfig

The appliance is not registered with the Cisco Cloud Service portal.

Currently configured Cisco Cloud Server is api-sse.cisco.com

Choose the operation you want to perform:
- DISABLE - The Cisco Cloud Service is currently enabled on your appliance.
- REGISTER - To register the appliance with the Cisco Cloud Service portal.
- SETTRS - Set the Cisco Secure Cloud Server to connect to the Cisco Cloud
Service portal.
[]> settrs

Currently configured Cisco Secure Cloud Server is: api-sse.cisco.com

Available list of Cisco Secure Cloud Servers:
1. AMERICAS (api-sse.cisco.com)
2. APJC (api.apj.sse.itd.cisco.com)
3. EUROPE (api.eu.sse.itd.cisco.com)

Enter Cisco Secure Cloud Server to connect to the Cisco Cloud Service portal.:
[]> 3

Selected Cisco Secure Cloud Server is api.eu.sse.itd.cisco.com.

Make sure you run "commit" to make these changes active.
mail1.example.com > commit

Please enter some comments describing your changes:
[]> commit changes

Do you want to save the current configuration for rollback? [Y]>

Changes committed: Tue Dec 29 13:37:40 2020 GMT
mail1.example.com >
```

Example - Enabling Cisco XDR on Email Gateway

In the following example, you can use the `clouderviceconfig` > `enablexdr` sub command to enable Cisco XDR on your email gateway.

```
mail1.example.com > cloudserviceconfig

The appliance is successfully registered with the Cisco Cloud Service portal.

Currently configured Cisco Cloud Server is api-sse.cisco.com

Choose the operation you want to perform:
- DISABLE - The Cisco Cloud Service is currently enabled on your appliance.
- DEREGISTER - To deregister the appliance from the Cisco Cloud Service portal.
- SETTRS - Set the Cisco Secure Cloud Server to connect to the Cisco Cloud Service portal.
- ENABLEXDR - To enable the XDR feature on your appliance.
- ENABLECSN - To enable the Cisco Success Network feature on your appliance.
[]> enablexdr

The XDR feature is currently enabled on your appliance.
```

```
The appliance is successfully registered with the Cisco Cloud Service portal.

Currently configured Cisco Cloud Server is api-sse.cisco.com

Choose the operation you want to perform:
- DISABLE - The Cisco Cloud Service is currently enabled on your appliance.
- DEREGISTER - To deregister the appliance from the Cisco Cloud Service portal.
- SETTRS - Set the Cisco Secure Cloud Server to connect to the Cisco Cloud
Service portal.
- DISABLEXDR - To disable the XDR feature on your appliance.
- ENABLECSN - To enable the Cisco Success Network feature on your appliance.
[]>

mail1.example.com > commit

Please enter some comments describing your changes:
[]> commit changes

Do you want to save the current configuration for rollback? [Y]>

Changes committed: Thu Jul 4 00:55:33 2024 GMT
mail1.example.com>
```

Example - Disabling Cisco XDR on Email Gateway

In the following example, you can use the `clouderviceconfig > disablexdr` sub command to disable Cisco XDR on your email gateway.

```
mail1.example.com > cloudserviceconfig

The appliance is successfully registered with the Cisco Cloud Service portal.

Currently configured Cisco Cloud Server is api-sse.cisco.com

Choose the operation you want to perform:
- DISABLE - The Cisco Cloud Service is currently enabled on your appliance.
- DEREGISTER - To deregister the appliance from the Cisco Cloud Service portal.
- SETTRS - Set the Cisco Secure Cloud Server to connect to the Cisco Cloud
Service portal.
- DISABLEXDR - To disable the XDR feature on your appliance.
- ENABLECSN - To enable the Cisco Success Network feature on your appliance.
[]> disablexdr

The XDR feature is currently disabled on your appliance.

The appliance is successfully registered with the Cisco Cloud Service portal.

Currently configured Cisco Cloud Server is api-sse.cisco.com

Choose the operation you want to perform:
- DISABLE - The Cisco Cloud Service is currently enabled on your appliance.
- DEREGISTER - To deregister the appliance from the Cisco Cloud Service portal.
- SETTRS - Set the Cisco Secure Cloud Server to connect to the Cisco Cloud
Service portal.
- ENABLEXDR - To enable the XDR feature on your appliance.
- ENABLECSN - To enable the Cisco Success Network feature on your appliance.
[]>

mail1.example.com > commit

Please enter some comments describing your changes:
[]> commit changes
```

```
Do you want to save the current configuration for rollback? [Y]>

Changes committed: Wed Dec 30 00:58:25 2020 GMT
mail1.example.com>
```

Example - Enabling CSN on Email Gateway

In the following example, you can use the `clouderviceconfig` > `enablecsn` sub command to enable CSN on your email gateway.

```
mail1.example.com > cloudserviceconfig

The appliance is successfully registered with the Cisco Cloud Service portal.

Currently configured Cisco Cloud Server is api-sse.cisco.com

Choose the operation you want to perform:
- DISABLE - The Cisco Cloud Service is currently enabled on your appliance.
- DEREGISTER - To deregister the appliance from the Cisco Cloud Service portal.
- SETTRS - Set the Cisco Secure Cloud Server to connect to the Cisco Cloud
Service portal.
- ENABLEXDR - To enable the XDR feature on your appliance.
- ENABLECSN - To enable the Cisco Success Network feature on your appliance.
[]> enablecsn

The Cisco Success Network feature is currently enabled on your appliance.

The appliance is successfully registered with the Cisco Cloud Service portal.

Currently configured Cisco Cloud Server is api-sse.cisco.com

Choose the operation you want to perform:
- DISABLE - The Cisco Cloud Service is currently enabled on your appliance.
- DEREGISTER - To deregister the appliance from the Cisco Cloud Service portal.
- SETTRS - Set the Cisco Secure Cloud Server to connect to the Cisco Cloud
Service portal.
- ENABLEXDR - To enable the ENABLEXDR feature on your appliance.
- DISABLECSN - To disable the Cisco Success Network feature on your appliance.
[]>
```

Example - Disabling CSN on Email Gateway

In the following example, you can use the `clouderviceconfig` > `disablecsn` sub command to disable CSN on your email gateway.

```
mail1.example.com > cloudserviceconfig

The appliance is successfully registered with the Cisco Cloud Service portal.

Currently configured Cisco Cloud Server is api-sse.cisco.com

Choose the operation you want to perform:
- DISABLE - The Cisco Cloud Service is currently enabled on your appliance.
- DEREGISTER - To deregister the appliance from the Cisco Cloud Service portal.
- SETTRS - Set the Cisco Secure Cloud Server to connect to the Cisco Cloud
Service portal.
- ENABLEXDR - To enable the ENABLEXDR feature on your appliance.
- DISABLECSN - To disable the Cisco Success Network feature on your appliance.
[]> disablecsn

The Cisco Success Network feature is currently disabled on your appliance.
```

```
The appliance is successfully registered with the Cisco Cloud Service portal.

Currently configured Cisco Cloud Server is api-sse.cisco.com

Choose the operation you want to perform:
- DISABLE - The Cisco Cloud Service is currently enabled on your appliance.
- DEREGISTER - To deregister the appliance from the Cisco Cloud Service portal.
- SETTRS - Set the Cisco Secure Cloud Server to connect to the Cisco Cloud
Service portal.
```

Example - Downloading Cisco Cloud Services Certificate and Key from Cisco Talos Intelligence Services Portal

In the following example, you can use the `cloudserviceconfig > fetchcerificate` sub command to download the Cisco Cloud Services certificate and key from the Cisco Talos Intelligence Services portal.

Note You can only use this sub command when the existing Cisco Cloud Services certificate is expired and if you have registered your email gateway with Cisco Smart Software Manager.

Note If the Smart Account Name in the Smart Licensing account contains unsupported Unicode characters, the email gateway is unable to fetch the Cisco Talos certificate from the Cisco Talos server. You can use the following supported characters: - a-z A-Z 0-9 _ , . @ : & '" / ; # ? ö ü Ã ¸ () for the Smart Account Name.

```
mail1.example.com> cloudserviceconfig

The appliance is successfully registered with the Cisco Cloud Service portal.

Currently configured Cisco Cloud Server is api-sse.cisco.com

Choose the operation you want to perform:
- SETTRS - Set the Cisco Secure Cloud Server to connect to the Cisco Cloud
Service portal.
- FETCHCERTIFICATE - Download the Cisco Talos certificate and key.
- ENABLEXDR - To enable the ENABLEXDR feature on your appliance.
- ENABLECSN - To enable the Cisco Success Network feature on your appliance.
[]> fetchcertificate

Current Cisco Talos certificate is valid for 2593 days.

Do you want to overwrite the existing certificate and key [Y][N] ? []> yes

Successfully downloaded the Cisco Talos certificate and key.

mail1.example.com>
```

Configuring Safe Print Settings on Email Gateway

Use the `scanconfig > safeprint` sub command to configure safe print settings on your email gateway.

safeprint

- Description, on page 383
- Usage, on page 383
- Example, on page 383

Description

The `safeprint` sub command is used to configure safe print settings on the email gateway.

Usage

Commit: This command requires a 'commit'.

Cluster Management: This command can be used in all three machine modes (cluster, group, machine).

Batch Command: This command supports a batch format. For more details, see the inline help by typing the command: `scanconfig safeprint`.

Example

In the following example, you can use the `safeprint` sub command to configure safe print settings on your email gateway.

```
mail.example.com> scanconfig

Choose the operation you want to perform:

- NEW - Add a new entry.
- DELETE - Remove an entry.
- SETUP - Configure scanning behavior.
- IMPORT - Load mappings from a file.
- EXPORT - Save mappings to a file.
- PRINT - Display the list.
- CLEAR - Remove all entries.
- SMIME - Configure S/MIME unpacking.
- SAFEPRINT - Configure safeprint settings.

[]> safeprint
Enter the maximum attachment size that can safe-print.
[5242880]> 2
Enter the maximum number of pages that you can safe print in an attachment.
[10]> 5
Do you want to use the recommended image quality value to safe print an attachment? [Y]>
yes
Do you want to modify the file types selected to safe print an attachment?
[N]> no
Choose the operation you want to perform:

- NEW - Add a new entry.
- DELETE - Remove an entry.
- SETUP - Configure scanning behavior.
- IMPORT - Load mappings from a file.
- EXPORT - Save mappings to a file.
- PRINT - Display the list.
- CLEAR - Remove all entries.
- SMIME - Configure S/MIME unpacking.
- SAFEPRINT - Configure safeprint settings.
```

```
[]>
Mail.examle.com> commit
Please enter some comments describing your changes:
[]>
Do you want to save the current configuration for rollback?
[Y]> Changes committed: Thu Jul 18 14:24:53 2019 GMT
```

Connecting the Email Gateway to Talos Cloud Services

This section contains the following CLI commands:

- talosupdate, on page 384
- talosstatus, on page 384

talosupdate

Description

The `talosupdate` command is used to request for an update of the Talos engine.

Usage

Commit: This command does not require a 'commit'.

Cluster Management: This command is restricted to machine mode.

Batch Command: This command does not support a batch format.

Example

```
mail.example.com> talosupdate
Requesting update for Talos components
```

talosstatus

Description

The `talosstatus` command displays the version and update status of each updatable component used for communicating to the Talos cloud services.

Usage

Commit: This command does not require a 'commit'.

Cluster Management: This command is restricted to machine mode.

Batch Command: This command does not support a batch format.

Example

```
mail.example.com> talosstatus
Component                                   Version                 Last
Updated
Sender IP Reputation Client                 1.0.0-1350252           28 Feb
2020 13:06 (GMT +00:00)
URL Reputation Client                       1.0.0-1350252           28 Feb
2020 13:06 (GMT +00:00)
Service Log Client                          1.0.0-1350252           28 Feb
2020 13:06 (GMT +00:00)
Talos Engine                                1.95.0.220              28 Feb
2020 13:06 (GMT +00:00)
Talos Intelligence Services Module          1.95.0.648              28 Feb
2020 13:06 (GMT +00:00)
Talos-HTTP2 Component                       0.9.290                 28 Feb
2020 13:06 (GMT +00:00)
Libraries                                   1.0.0-1350252           28 Feb
2020 13:06 (GMT +00:00)
Protofiles                                  1.0.0-1350252           28 Feb
2020 13:06 (GMT +00:00)
```

Integrating the Email Gateway with Cisco Advanced Phishing Protection

- eaasconfig, on page 385
- eaasupdate, on page 386
- eaasstatus, on page 386

eaasconfig

- Description, on page 385
- Usage, on page 385
- Example - Registering the Email Gateway, on page 386

Description

Register the email gateway with the Cisco Advanced Phishing Protection cloud service.

Usage

Commit: This command require a ‘commit’.

Cluster Management: This command can be used in all three machine modes (cluster, group, machine).

Batch Command: This command does not support a batch format.

Example - Registering the Email Gateway

The following example shows a sample configuration to register your email gateway to the Cisco Advanced Phishing Protection cloud service.

```
mail.example.com> eaasconfig

Choose the operation you want to perform:

- REGISTER - To Register the appliance with APP portal

[]> register

Available list of APP region(s) for the registration
1. AMERICA

Select the EAAS region to connect
[]> 1
Enter passphrase obtained from APP portal:
Registration is in progress. Please wait.
Successfully registered the device with APP portal.

Would you like enable APP [Y]> y
```

eaasupdate

- Description, on page 386
- Usage, on page 386
- Example, on page 386

Description

Manually request update of the Cisco Advanced Phishing Protection engine.

Usage

Commit: This command does not require a 'commit'.

Cluster Management: This command is restricted to machine mode.

Batch Command: This command supports a batch format. For more details, see the inline help by typing the command: `eaasupdate force`.

Example

```
mail.example.com > eaasupdate

Requesting check for new Eaas updates
```

eaasstatus

- Description, on page 387
- Usage, on page 387

• Example, on page 387

Description

Manually request update of the Cisco Advanced Phishing Protection engine.

Usage

Commit: This command does not require a 'commit'.

Cluster Management: This command is restricted to machine mode.

Batch Command: This command does not support a batch format

Example

```
mail.example.com > eaasstatus

Component                                 Version    Last Updated
Advanced Phishing Protection Engine       1.0        Never updated
Advanced Phishing Protection Config       1.0        Never updated
```

Scanning Password-protected Attachments in Messages

Use the `scanconfig` > `protectedattachmentconfig` sub command to:

- Enable scanning of password-protected attachments in incoming or outgoing messages.
- Create user-defined passphrases to open password-protected attachments in incoming or outgoing messages.
- Use only user-defined passphrases to open password-protected attachments in incoming or outgoing messages.
- Switch priority of user-defined passphrases.
- Edit user-defined passphrases.
- Delete user-defined passphrases.
- View user-defined passphrases.

protectedattachmentconfig

• Description, on page 388
• Usage, on page 388
• Example - Enable Scanning of Password-protected Attachments in Incoming and Outgoing Messages, on page 388
• Example - Creating User-defined Passphrases to Open Password-protected Attachments, on page 389
• Example - Using Only User-defined Passphrases to Open Password-protected Attachments , on page 391

- Example - Switching Priority of User-defined Passphrases, on page 392
- Example - Editing a User-defined Passphrase, on page 394
- Example - Deleting a User-defined Passphrase, on page 396

Description

The `protectedattachmentconfig` sub command is used to enable scanning of password-protected attachments in incoming or outgoing messages.

The `protectedattachmentconfig` sub command is used to:

- Enable scanning of password-protected attachments in incoming or outgoing messages.
- Create user-defined passphrases to open password-protected attachments in incoming or outgoing messages.
- Use only user-defined passphrases to open password-protected attachments in incoming or outgoing messages.
- Switch priority of user-defined passphrases.
- Edit user-defined passphrases.
- Delete user-defined passphrases.
- View user-defined passphrases.

Usage

Commit: This sub command requires a 'commit'.

Cluster Management: This sub command can be used in all three machine modes (cluster, group, and machine).

Batch Command:This command does not support a batch format.

Example - Enable Scanning of Password-protected Attachments in Incoming and Outgoing Messages

In the following example, you can use the `protectedattachmentconfig` sub command to enable scanning of password-protected attachments in incoming and outgoing messages

```
mail.example.com> scanconfig

There are currently 5 attachment type mappings configured to be SKIPPED.

Choose the operation you want to perform:
- NEW - Add a new entry.
- DELETE - Remove an entry.
- SETUP - Configure scanning behavior.
- IMPORT - Load mappings from a file.
- EXPORT - Save mappings to a file.
- PRINT - Display the list.
- CLEAR - Remove all entries.
- SMIME - Configure S/MIME unpacking.
- SAFEPRINT - Configure safeprint settings.
- PROTECTEDATTACHMENTCONFIG - Scan password protected attachments.
```

```
[]> protectedattachmentconfig

Scanning of password-protected attachments for inbound mails: disabled.
Scanning of password-protected attachments for outbound mails: disabled.

Do you want to scan password-protected attachments for inbound mails?
 y/n [N]> yes

Do you want to scan password-protected attachments for outbound mails?
y/n [N]> yes

Scanning of password-protected attachments is enabled.

Do you want to enable user-defined passwords? y/n [N]>

You will not be able to use user-defined passwords to scan password-protected attachments.

There are currently 5 attachment type mappings configured to be SKIPPED.

Choose the operation you want to perform:
- NEW - Add a new entry.
- DELETE - Remove an entry.
- SETUP - Configure scanning behavior.
- IMPORT - Load mappings from a file.
- EXPORT - Save mappings to a file.
- PRINT - Display the list.
- CLEAR - Remove all entries.
- SMIME - Configure S/MIME unpacking.
- SAFEPRINT - Configure safeprint settings.
- PROTECTEDATTACHMENTCONFIG - Scan password protected attachments.
[]>
mail1.example.com> commit

Please enter some comments describing your changes:
[]> changes committed

Do you want to save the current configuration for rollback? [Y]>

Changes committed: Wed Nov 04 18:37:42 2020 GMT
mail1.example.com>
```

Example - Creating User-defined Passphrases to Open Password-protected Attachments

In the following example, you can use the `protectedattachmentconfig` sub command to create two user-defined passphrases to open passord-protected attachments in incoming and outgoing messages.

Note You must use only ASCII characters for the user-defined passwords in CLI. Non-ASCII characters are not supported.

```
mail.example.com> scanconfig

There are currently 5 attachment type mappings configured to be SKIPPED.

Choose the operation you want to perform:
- NEW - Add a new entry.
- DELETE - Remove an entry.
- SETUP - Configure scanning behavior.
- IMPORT - Load mappings from a file.
```

```
- EXPORT - Save mappings to a file.
- PRINT - Display the list.
- CLEAR - Remove all entries.
- SMIME - Configure S/MIME unpacking.
- SAFEPRINT - Configure safeprint settings.
- PROTECTEDATTACHMENTCONFIG - Scan password protected attachments.

[]> protectedattachmentconfig

Scanning of password-protected attachments for inbound mails: enabled.
Scanning of password-protected attachments for outbound mails: enabled.

Do you want to scan password-protected attachments for inbound mails? y/n [Y]>

Do you want to scan password-protected attachments for outbound mails? y/n [Y]>

Scan password protected attachments configuration unchanged.

Scanning of password-protected attachments is enabled.



Do you want to enable user-defined passwords? y/n [Y]> yes

You can now use user-defined passwords to scan password-protected attachments.

Choose the operation you want to perform on user-defined passwords.
- NEW - Add a new password.
[]> new

Enter a priority for the new password:
[1]> 1

Enter the new password:
[]> example_passphrase@123

A new password with priority 1 is added.

Priority:          Password:
---------          ---------
1                  example_passphrase@123


Choose the operation you want to perform on user-defined passwords.
- NEW - Add a new password.
- EDIT - Edit the password.
- SWAP - Swap the priority of the password.
- DELETE - Delete the password.
- PRINT - Print the configured password(s).
[]> new

Priority:          Password:
---------          ---------
1                  example_passphrase@123

Enter a priority for the new password:
[2]> 2

Enter the new password:
[]> example_passphrase@321

A new password with priority 2 is added.

Priority:          Password:
```

```
---------          ---------
1                  example_passphrase@123
2                  example_passphrase@321

Choose the operation you want to perform on user-defined passwords.
- NEW - Add a new password.
- EDIT - Edit the password.
- SWAP - Swap the priority of the password.
- DELETE - Delete the password.
- PRINT - Print the configured password(s).
[]>

Do you want to apply user-defined passwords only? y/n [N]>

You can now use both user-defined and extracted passwords from the mail body to
scan password-protected attachments.

There are currently 5 attachment type mappings configured to be SKIPPED.

Choose the operation you want to perform:
- NEW - Add a new entry.
- DELETE - Remove an entry.
- SETUP - Configure scanning behavior.
- IMPORT - Load mappings from a file.
- EXPORT - Save mappings to a file.
- PRINT - Display the list.
- CLEAR - Remove all entries.
- SMIME - Configure S/MIME unpacking.
- SAFEPRINT - Configure safeprint settings.
- PROTECTEDATTACHMENTCONFIG - Scan password protected attachments.
[]>

mail1.example.com> commit

Please enter some comments describing your changes:
[]> Changes committed

Do you want to save the current configuration for rollback? [Y]>

Changes committed: Thu Mar 11 18:55:16 2021 GMT
mail1.example.com>
```

Example - Using Only User-defined Passphrases to Open Password-protected Attachments

In the following example, you can use the `protectedattachmentconfig` sub command to use only the user-defined passphrases created in Example - Creating User-defined Passphrases to Open Password-protected Attachments section to open password-protected attachments in incoming and outgoing messages.

```
mail.example.com> scanconfig

There are currently 5 attachment type mappings configured to be SKIPPED. Choose the operation
 you want to perform:
-NEW - Add a new entry.
-DELETE - Remove an entry.
-SETUP - Configure scanning behavior.
-IMPORT - Load mappings from a file.
-EXPORT - Save mappings to a file.
-PRINT - Display the list.
-CLEAR - Remove all entries.
-SMIME - Configure S/MIME unpacking.
-SAFEPRINT - Configure safeprint settings.
-PROTECTEDATTACHMENTCONFIG - Scan password protected attachments.
```

```
[]> protectedattachmentconfig

Scanning of password-protected attachments for inbound mails: enabled.

Scanning of password-protected attachments for outbound mails: enabled.

Do you want to scan password-protected attachments for inbound mails? y/n [Y]>

Do you want to scan password-protected attachments for outbound mails? y/n [Y]>

Scan password protected attachments configuration unchanged.

Scanning of password-protected attachments is enabled.

Do you want to enable user-defined passwords? y/n [Y]>

You can now use user-defined passwords to scan password-protected attachments.

Choose the operation you want to perform on user-defined passwords.
-NEW - Add a new password.
-EDIT - Edit the password.
-SWAP - Swap the priority of the password.
-DELETE - Delete the password.
-PRINT - Print the configured password(s).

Do you want to apply user-defined  passwords only? y/n [N]> yes

You can now only use the user-defined passwords to scan password-protected attachments.

There are currently 5 attachment type mappings configured to be SKIPPED. Choose the operation
 you want to perform:
-NEW - Add a new entry.
-DELETE - Remove an entry.
-SETUP - Configure scanning behavior.
-IMPORT - Load mappings from a file.
-EXPORT - Save mappings to a file.
-PRINT - Display the list.
-CLEAR - Remove all entries.
-SMIME - Configure S/MIME unpacking.
-SAFEPRINT - Configure safeprint settings.
-PROTECTEDATTACHMENTCONFIG - Scan password protected attachments. []>

mail1.example.com> commit

Please enter some comments describing your changes:
[]> Changes committed

Do you want to save the current configuration for rollback? [Y]>

Changes committed: Thu Aug 11 18:55:16 2022 GMT mail1.example.com>
```

Example - Switching Priority of User-defined Passphrases

In the following example, you can use the `protectedattachmentconfig` sub command to switch the priority of the first user-defined passphrase with the priority of the second user-defined passphrase.

```
mail.example.com> scanconfig

There are currently 5 attachment type mappings configured to be SKIPPED.

Choose the operation you want to perform:
- NEW - Add a new entry.
- DELETE - Remove an entry.
```

```
- SETUP - Configure scanning behavior.
- IMPORT - Load mappings from a file.
- EXPORT - Save mappings to a file.
- PRINT - Display the list.
- CLEAR - Remove all entries.
- SMIME - Configure S/MIME unpacking.
- SAFEPRINT - Configure safeprint settings.
- PROTECTEDATTACHMENTCONFIG - Scan password protected attachments.

[]> protectedattachmentconfig

Scanning of password-protected attachments for inbound mails: enabled.
Scanning of password-protected attachments for outbound mails: enabled.

Do you want to scan password-protected attachments for inbound mails? y/n [Y]>

Do you want to scan password-protected attachments for outbound mails? y/n [Y]>

Scan password protected attachments configuration unchanged.

Scanning of password-protected attachments is enabled.



Do you want to enable user-defined passwords? y/n [Y]> yes

You can now use user-defined passwords to scan password-protected attachments.

Choose the operation you want to perform on user-defined passwords.
- NEW - Add a new password.
- EDIT - Edit the password.
- SWAP - Swap the priority of the password.
- DELETE - Delete the password.
- PRINT - Print the configured password(s).
[]> swap

Priority:          Password:
---------          ---------
1                  example_passphrase@123
2                  example_passphrase@321

Enter the priority of the first password that you want to switch:
[]> 1

Enter the priority of the second password that you want to switch:
[]> 2

Passwords with priority 1 and 2 are switched.

Priority:          Password:
---------          ---------
1                  example_passphrase@321
2                  example_passphrase@123

Choose the operation you want to perform on user-defined passwords.
- NEW - Add a new password.
- EDIT - Edit the password.
- SWAP - Swap the priority of the password.
- DELETE - Delete the password.
- PRINT - Print the configured password(s).
[]>

Do you want to apply user-defined passwords only? y/n [N]>
```

```
You can now use both user-defined and extracted passwords from the mail body to
scan password-protected attachments.

There are currently 5 attachment type mappings configured to be SKIPPED.

Choose the operation you want to perform:
- NEW - Add a new entry.
- DELETE - Remove an entry.
- SETUP - Configure scanning behavior.
- IMPORT - Load mappings from a file.
- EXPORT - Save mappings to a file.
- PRINT - Display the list.
- CLEAR - Remove all entries.
- SMIME - Configure S/MIME unpacking.
- SAFEPRINT - Configure safeprint settings.
- PROTECTEDATTACHMENTCONFIG - Scan password protected attachments.
[]>

mail1.example.com> commit

Please enter some comments describing your changes:
[]> Changes committed

Do you want to save the current configuration for rollback? [Y]>

Changes committed: Thu Mar 11 23:07:19 2021 GMT
mail1.example.com>
```

Example - Editing a User-defined Passphrase

In the following example, you can use the `protectedattachmentconfig` sub command to edit a user-defined passphrase.

```
mail.example.com> scanconfig

There are currently 5 attachment type mappings configured to be SKIPPED.

Choose the operation you want to perform:
- NEW - Add a new entry.
- DELETE - Remove an entry.
- SETUP - Configure scanning behavior.
- IMPORT - Load mappings from a file.
- EXPORT - Save mappings to a file.
- PRINT - Display the list.
- CLEAR - Remove all entries.
- SMIME - Configure S/MIME unpacking.
- SAFEPRINT - Configure safeprint settings.
- PROTECTEDATTACHMENTCONFIG - Scan password protected attachments.

[]> protectedattachmentconfig

Scanning of password-protected attachments for inbound mails: enabled.
Scanning of password-protected attachments for outbound mails: enabled.

Do you want to scan password-protected attachments for inbound mails? y/n [Y]>

Do you want to scan password-protected attachments for outbound mails? y/n [Y]>

Scan password protected attachments configuration unchanged.

Scanning of password-protected attachments is enabled.
```

```
Do you want to enable user-defined passwords? y/n [Y]> yes

You can now use user-defined passwords to scan password-protected attachments.

Choose the operation you want to perform on user-defined passwords.
- NEW - Add a new password.
- EDIT - Edit the password.
- SWAP - Swap the priority of the password.
- DELETE - Delete the password.
- PRINT - Print the configured password(s).
[]> edit

Priority:          Password:
---------          ---------
1                  example_passphrase@321

Enter the password that you want to edit:
[]> example_passphrase@321

Enter the new password:
[example_passphrase@321]> example_passphrase@747

Password with priority 1 is edited.

Priority:          Password:
---------          ---------
1                  example_passphrase@747

Choose the operation you want to perform on user-defined passwords.
- NEW - Add a new password.
- EDIT - Edit the password.
- SWAP - Swap the priority of the password.
- DELETE - Delete the password.
- PRINT - Print the configured password(s).
[]>

Do you want to apply user-defined passwords only? y/n [N]>

You can now use both user-defined and extracted passwords from the mail body to
scan password-protected attachments.

There are currently 5 attachment type mappings configured to be SKIPPED.

Choose the operation you want to perform:
- NEW - Add a new entry.
- DELETE - Remove an entry.
- SETUP - Configure scanning behavior.
- IMPORT - Load mappings from a file.
- EXPORT - Save mappings to a file.
- PRINT - Display the list.
- CLEAR - Remove all entries.
- SMIME - Configure S/MIME unpacking.
- SAFEPRINT - Configure safeprint settings.
- PROTECTEDATTACHMENTCONFIG - Scan password protected attachments.
[]>

mail1.example.com> commit

Please enter some comments describing your changes:
[]> Changes committed

Do you want to save the current configuration for rollback? [Y]>
```

```
Changes committed: Fri Mar 12 00:05:35 2021 GMT
mail1.example.com>
```

Example - Deleting a User-defined Passphrase

In the following example, you can use the `protectedattachmentconfig` sub command to delete a user-defined passphrase.

```
mail.example.com> scanconfig

There are currently 5 attachment type mappings configured to be SKIPPED.

Choose the operation you want to perform:
- NEW - Add a new entry.
- DELETE - Remove an entry.
- SETUP - Configure scanning behavior.
- IMPORT - Load mappings from a file.
- EXPORT - Save mappings to a file.
- PRINT - Display the list.
- CLEAR - Remove all entries.
- SMIME - Configure S/MIME unpacking.
- SAFEPRINT - Configure safeprint settings.
- PROTECTEDATTACHMENTCONFIG - Scan password protected attachments.

[]> protectedattachmentconfig

Scanning of password-protected attachments for inbound mails: enabled.
Scanning of password-protected attachments for outbound mails: enabled.

Do you want to scan password-protected attachments for inbound mails? y/n [Y]>

Do you want to scan password-protected attachments for outbound mails? y/n [Y]>

Scan password protected attachments configuration unchanged.

Scanning of password-protected attachments is enabled.



Do you want to enable user-defined passwords? y/n [Y]> yes

You can now use user-defined passwords to scan password-protected attachments.

Choose the operation you want to perform on user-defined passwords.
- NEW - Add a new password.
- EDIT - Edit the password.
- SWAP - Swap the priority of the password.
- DELETE - Delete the password.
- PRINT - Print the configured password(s).
[]> delete

Priority:          Password:
---------          ---------
1                  example_passphrase@321
2                  example_passphrase@123

Enter the priority of the password that you want to delete:
[]> 2

Password with priority 2 is deleted.

Priority:          Password:
```

```
---------          ---------
1                  Cisco@321

Choose the operation you want to perform on user-defined passwords.
- NEW - Add a new password.
- EDIT - Edit the password.
- SWAP - Swap the priority of the password.
- DELETE - Delete the password.
- PRINT - Print the configured password(s).
[]>

Do you want to apply user-defined passwords only? y/n [N]>

You can now use both user-defined and extracted passwords from the mail body to
scan password-protected attachments.

There are currently 5 attachment type mappings configured to be SKIPPED.

Choose the operation you want to perform:
- NEW - Add a new entry.
- DELETE - Remove an entry.
- SETUP - Configure scanning behavior.
- IMPORT - Load mappings from a file.
- EXPORT - Save mappings to a file.
- PRINT - Display the list.
- CLEAR - Remove all entries.
- SMIME - Configure S/MIME unpacking.
- SAFEPRINT - Configure safeprint settings.
- PROTECTEDATTACHMENTCONFIG - Scan password protected attachments.
[]>

mail1.example.com> commit

Please enter some comments describing your changes:
[]> Changes committed.

Do you want to save the current configuration for rollback? [Y]>

Changes committed: Thu Mar 11 23:51:10 2021 GMT
mail1.example.com>
```

Configuring OpenID Connect 1.0 on Email Gateway for AsyncOS APIs

Use the `oidcconfig` command to perform the following tasks:

- Configure OpenID Connect on your email gateway for AsyncOS APIs.
- Delete OpenID Connect configuration settings on your email gateway.

oidcconfig

- Description, on page 398
- Usage, on page 398
- Example - Configuring OpenID Connect for AsyncOS APIs., on page 398

• Example - Deleting OpenID Connect Configuration Settings on Email Gateway, on page 399

Description

The `oidcconfig` command is used to perform the following tasks:

- Configure OpenID Connect for AsyncOS APIs.
- Delete OpenID Connect configuration settings on your email gateway.

Usage

Commit: This command requires a 'commit.'

Cluster Management: This command can be used in all three machine modes (cluster, group, and machine).

Batch Command: This command supports a batch format.

Example - Configuring OpenID Connect for AsyncOS APIs.

In the following example, you can use the `oidcconfig` command to configure OpenID Connect on your email gateway for AsyncOS APIs.

```
mail1.example.com> oidcconfig

Choose the operation you want to perform:
- SETUP - Configure OpenID Connect for AsycOS APIs
[]> setup

Enter the value for metadata URL
The metadata URL is used to fetch the OpenID Connect configuration metadata. The metadata
is used to validate the access token
[]> https://mail1.example.com/adfs/.well-known/openid-configuration

Enter the value for "issuer"
The value must match the issuer claim value of the access token when validating the access
 token
[]> http://mail1.example.com/adfs/services/trust

Enter the value for "claim" that contains role information
The value is used to retrieve the role information from the access token.
[]> CiscoMail1APICaller

Enter the value for "audience":
Use a comma to separate multiple values
[]> Role

Do you want to create an external group mappings? [Y]> yes

Choose the operation you want to perform:
- NEW - Create a new external group mapping.
[]> new

Enter the external group name to map (group names are case-sensitive):
[]> role_map

Assign a role to "role_map":
1. Administrators - Administrators have full access to all settings of the system.
2. Operators - Operators are restricted from creating new user accounts.
3. Read-Only Operators - Read-Only operators may only view settings and status information.
4. Guests - Guest users may only view status information.
```

```
5. Technicians - Technician can only manage upgrades and feature keys.
6. Help Desk Users - Help Desk users have access only to ISQ and Message Tracking.
[1]> 1

Mapping for 'role_map' to 'Administrators' created.

Choose the operation you want to perform:
- SETUP - Configure OpenID Connect for AsycOS APIs
- DELETE - Remove OpenID Connect configuration settings
[]>
mail1.example.com> commit

Please enter some comments describing your changes:
[]> changes committed

Do you want to save the current configuration for rollback? [Y]>
Changes committed: Tue Nov 24 06:39:45 2020 GMT
mail1.example.com>
```

Example - Deleting OpenID Connect Configuration Settings on Email Gateway

In the following example, you can use the `oidcconfig` command to delete the OpenID Connect configuration settings on your email gateway.

```
mail1.example.com> oidcconfig

Choose the operation you want to perform:
- SETUP - Configure OpenID Connect for AsycOS APIs
- DELETE - Remove OpenID Connect configuration settings
[]> delete

Are you sure you want to remove all OpenID Connect
configuration? [N]> yes

Choose the operation you want to perform:
- SETUP - Configure OpenID Connect for AsycOS APIs
[]>

mail1.example.com> commit

Please enter some comments describing your changes:
[]> changes committed

Do you want to save the current configuration for rollback? [Y]>

Changes committed: Tue Nov 24 06:52:55 2020 GMT
mail1.example.com>
```

Integrating Email Gateway with Cisco Secure Awareness Cloud Service

- csaconfig, on page 400
- csastatus, on page 401
- csaupdate, on page 402

csaconfig

- Description, on page 400
- Usage, on page 400
- Example - Enabling Cisco Secure Awareness Cloud Service on Email Gateway, on page 400
- Example - Viewing Details of Repeat Clickers List, on page 401
- Example – Updating the Repeat Clickers List, on page 401

Description

The `csaconfig` command is used to:

- Enable the Cisco Secure Awareness cloud service on your email gateway.
- View details of the Repeat Clickers list.
- Update the Repeat Clickers list.

Usage

Commit: This command requires a 'commit.'

Cluster Management: This command can be used in all three machine modes (cluster, group, and machine).

Batch Command: This command does not support a batch format.

Example - Enabling Cisco Secure Awareness Cloud Service on Email Gateway

In the following example, you can use the `csaconfig` > `enable` sub command to enable the Cisco Secure Awareness cloud service on your email gateway.

```
mail1.example.com> csaconfig

Choose the operation you want to perform:
- ENABLE - To Enable CSA Service
[]> enable

Available list of Servers:
1. AMERICAS
2. EUROPE

Select the CSA region to connect :
[]> 1

Please enter the CSA token for the region selected : de7c55f3ffe94dfb064642

Please specify the Poll Interval
[1d]>

mail1.example.com> commit

Please enter some comments describing your changes:
[]> changes committed

Do you want to save the current configuration for rollback? [Y]>
Changes committed: Wed Nov 11 18:14:59 2020 GMT
```

```
mail1.example.com >
```

Example - Viewing Details of Repeat Clickers List

In the following example, you can use the `csaconfig` > `show_list` sub command to view the details of the Repeat Clickers list.

```
mail1.example.com > csaconfig

Choose the operation you want to perform:
- EDIT - To edit CSA settings
- DISABLE - To disable CSA service
- UPDATE_LIST - To update the Repeat Clickers list
- SHOW_LIST - To view details of the Repeat Clickers list
[]> show_list

List Name : Repeat Clickers
Report ID : 2020
Last Updated : 2020-10-20 11:50:23
List Status : Active
```

Example – Updating the Repeat Clickers List

In the following example, you can use the `csaconfig` > `update_list` sub command to perform an on-demand update or download of the Repeat Clickers list:

```
mail1.example.com > csaconfig

Choose the operation you want to perform:
- EDIT - To edit CSA settings
- DISABLE - To disable CSA service
- UPDATE_LIST - To update the Repeat Clickers list
- SHOW_LIST - To view details of the Repeat Clickers list
[]> update_list

Machine: mail1.example.com An update for the Repeat Clickers list was initiated
successfully
```

csastatus

- Description, on page 401
- Usage, on page 401
- Example - Displaying Current Version of Cisco Secure Awareness Components, on page 402

Description

The csastatus command is used to display the current version of the Cisco Secure Awareness components.

Usage

Commit: This command requires a 'commit.'

Cluster Management: This command can be used in all three machine modes (cluster, group, and machine).

Batch Command: This command does not support a batch format.

Example - Displaying Current Version of Cisco Secure Awareness Components

In the following example, you can use the `csastatus` command to display the current version of the Cisco Secure Awareness components:.

```
mail.example.com> csastatus
Component                       Version             Last Updated
Cisco Secure Awareness Config          1.0.0-0000001      2 Jul 2018 04:22 (GMT +00:00)
Cisco Secure Awareness Engine          1.0.0-0000001      2 Jul 2018 04:22 (GMT +00:00)
```

csaupdate

- Description, on page 402
- Usage, on page 402
- Example - Manually Updating Cisco Secure Awareness Components, on page 402

Description

The `csaupdate` command is used to manually update the Cisco Secure Awareness components.

Usage

Commit: This command requires a 'commit.'

Cluster Management: This command can be used in all three machine modes (cluster, group, and machine).

Batch Command: This command does not support a batch format.

Example - Manually Updating Cisco Secure Awareness Components

In the following example, you can use the `csaupdate` command to manually update the Cisco Secure Awareness components:

```
mail1.example.com> csaupdate

Requesting check for new CSA updates
mail1.example.com >
```

Integrating Email Cloud Gateway with Cisco Secure Email Threat Defense

This section contains the following CLI commands:

- threatdefenseconfig, on page 402

threatdefenseconfig

- Description, on page 403
- Usage, on page 403

• Example - Enabling Threat Defense Connector, on page 403
• Example - Disabling Threat Defense Connector, on page 405

Description

The `threatdefenseconfig` command is used to configure the settings for Threat Defense Connector.

Usage

Commit: This command requires a 'commit.'

Cluster Management: This command can be used only in cluster mode.

Batch Command: This command supports a batch format. See the inline CLI help for more details. Use the help command to access the inline help for this command.

Example - Enabling Threat Defense Connector

Note You need to enable the Threat Defense Connector, Email Threat Defense API, and Email Threat Defense API Polling on only one email gateway in the cluster. These changes will be applied to all email gateways in the cluster.

However, for Email Threat Defense API Polling, the Secure Email Gateway where you enabled this functionality will be considered the primary host with polling enabled.

Note The API_HTTPD and API_HTTPSD ports must be enabled in all email gateways in the cluster for this feature to work.

In the following example, you can use the `threatdefenseconfig` command to enable the Threat Defense Connector, Threat Defense API, and Threat Defense API Polling.

You can enable this feature in the following ways:

- Enable only Threat Defense Connector.
- Enable Threat Defense Connector and Email Threat Defense API.
- Enable Threat Defense Connector, Email Threat Defense API, and Email Threat Defense API Polling.

Note Email Threat Defense API and Email Threat Defense API Polling are used if you use Microsoft Exchange Server (On-Premises).

```
mail.example.com> threatdefenseconfig

Threat Defense Connector: Disabled
Email Threat Defense API: Disabled
Email Threat Defense API Polling: Disabled
```

```
Choose the operation you want to perform:
- SETUP - Configure Threat Defense Connector.
[]> setup

Threat Defense Connector: Disabled
Would you like to use Threat Defense Connector? [Y]> y

Enter the message intake address retrieved from the Cisco Secure Email Threat
Defense portal
[]> testaddress@cisco.com

Threat Defense Connector: Enabled
Message Intake Address:
testaddress@cisco.com
Email Threat Defense API: Disabled
Email Threat Defense API Polling: Disabled

Choose the operation you want to perform:
- SETUP - Configure Threat Defense Connector.
- SETUP_ETD - Configure Email Threat Defense API Settings
[]> setup_etd

Email Threat Defense API: Disabled
Would you like to use Email Threat Defense API? [Y]>

Enter the Client ID for Email Threat Defense:
[]> 1234abcd-12ab-12ab-12ab-123456abcdef

Enter the Password for Email Threat Defense:
[]> abc-abcdefgh12345678abcdefgh12345678abcdefg

Enter the API Key for Email Threat Defense:
[]> abcdeABCDE12345abcdeABCDE12345acbdeABC

Would you like to perform any action on the message(s) in user's mailbox?
(Enter 1 for Yes, 0 for No)
[1]> 1

Enter the Action to be taken on message(s) in user's mailbox:
1. Delete
2. Forward and Delete
3. Forward
[1]> 1

Threat Defense Connector: Enabled
Message Intake Address:
testaddress@cisco.com
Email Threat Defense API: Enabled
Client ID: 1234abcd-12ab-12ab-12ab-123456abcdef

Email Threat Defense API Polling: Disabled

Choose the operation you want to perform:
- SETUP - Configure Threat Defense Connector.
- SETUP_ETD - Configure Email Threat Defense API Settings
- SETUP_ETD_POLLING - Configure Email Threat Defense API Polling
[]> setup_etd_polling

Would you like to enable Email Threat Defense API Polling? (Enter 1 for Yes, 0
for No):
[0]> 1
```

```
Enabling Email Threat Defense API Polling on this ESA (mail.example.com).

Threat Defense Connector: Enabled
Message Intake Address:
testaddress@cisco.com
Email Threat Defense API: Enabled
Client ID: 1234abcd-12ab-12ab-12ab-123456abcdef

Email Threat Defense API Polling: Enabled

Choose the operation you want to perform:
- SETUP - Configure Threat Defense Connector.
- SETUP_ETD - Configure Email Threat Defense API Settings
- SETUP_ETD_POLLING - Configure Email Threat Defense API Polling
[] >
mail.example.com> commit
Please enter some comments describing your changes:
[]> changes committed
Do you want to save the current configuration for rollback? [Y]>
Changes committed: Tue Jul 9 06:39:45 2024 GMT
mail1.example.com>
```

Example - Disabling Threat Defense Connector

In the following example, you can use the `threatdefenseconfig` command to disable the Threat Defense Connector.

You can disable this feature in the following ways:

- Disable only Email Threat Defense API polling.
- Disable Email Threat Defense API, which also disables the Email Threat Defense API Polling.
- Disable Threat Defense Connector, which also disables the Email Threat Defense API and Email Threat Defense API Polling.

Note Email Threat Defense API and Email Threat Defense API Polling are used if you use Microsoft Exchange Server (On-Premises).

```
esa01.cs17> threatdefenseconfig

Threat Defense Connector: Enabled
Message Intake Address:
testaddress@cisco.com
Email Threat Defense API: Enabled
Client ID: 1234abcd-12ab-12ab-12ab-123456abcdef

Email Threat Defense API Polling: Enabled

Choose the operation you want to perform:
- SETUP - Configure Threat Defense Connector.
- SETUP_ETD - Configure Email Threat Defense API Settings
- SETUP_ETD_POLLING - Configure Email Threat Defense API Polling
[]> setup_etd_polling

Email Threat Defense API Polling is already enabled on the current ESA.

Would you like to enable Email Threat Defense API Polling? (Enter 1 for Yes, 0
```

```
for No):
[1]> 0

Disabling Email Threat Defense API Polling on the ESA mail.example.com.

Threat Defense Connector: Enabled
Message Intake Address:
testaddress@cisco.com
Email Threat Defense API: Enabled
Client ID: 1234abcd-12ab-12ab-12ab-123456abcdef

Email Threat Defense API Polling: Disabled

Choose the operation you want to perform:
- SETUP - Configure Threat Defense Connector.
- SETUP_ETD - Configure Email Threat Defense API Settings
- SETUP_ETD_POLLING - Configure Email Threat Defense API Polling
[]> setup_etd

Email Threat Defense API: Enabled
Would you like to use Email Threat Defense API? [Y]> n

The system will no longer remediate using Email Threat Defense. Are you sure
you want to disable? [N]> y

Threat Defense Connector: Enabled
Message Intake Address:
testaddress@cisco.com
Email Threat Defense API: Disabled
Email Threat Defense API Polling: Disabled


Choose the operation you want to perform:
- SETUP - Configure Threat Defense Connector.
- SETUP_ETD - Configure Email Threat Defense API Settings
[]> setup

Threat Defense Connector: Enabled
Would you like to use Threat Defense Connector? [Y]> n

The system will no longer scan messages for threats using Threat Defense
Connector. Are you sure you want to disable? [N]> y

Threat Defense Connector: Disabled
Email Threat Defense API: Disabled
Email Threat Defense API Polling: Disabled


Choose the operation you want to perform:
- SETUP - Configure Threat Defense Connector.
[]>

mail.example.com> commit

Please enter some comments describing your changes:
[]> changes committed

Do you want to save the current configuration for rollback? [Y]>

Changes committed: Wed Jul 10 13:38:34 2024 GMT
mail.example.com>
```

Creating a File Hash List

Use the `filehashlistconfig` command to:

- Create a file hash list for any one of the following supported file hash types – MD5 or SHA-256.
- Create a file hash list to configure a content filter to take action on messages that contain attachments that match a particular file hash.
- Create a file hash list to use as an exception list for the External Threat Feeds (ETF) feature.

filehashlistconfig

- Description, on page 407
- Usage, on page 407
- Example - Creating a File Hash List, on page 407

Description

The `filehashlistconfig` command is used to:

- Create a file hash list for any one of the following supported file hash types – MD5 or SHA-256.
- Create a file hash list to configure a content filter to take action on messages that contain attachments that match a particular file hash.
- Create a file hash list to use as an exception list for the External Threat Feeds (ETF) feature.

Usage

Commit: This sub command requires a 'commit'.

Cluster Management: This sub command can be used in all three machine modes (cluster, group, and machine).

Batch Command:This command does not support a batch format.

Example - Creating a File Hash List

In the following example, you can use the `filehashlistconfig` command to create a file hash list.

```
mail1.example.com> filehashlistconfig

No file hash lists configured.

Choose the operation you want to perform:
- NEW - Create a new file hash list.
[]> new

Enter a name for the file hash list:
```

```
> test_file_hash_list

Enter a description for the file hash list:
> Test File Hash List

Enter the type of the file hash list:
1. MD5 checksum(s) only
2. SHA256 checksum(s) only
3. All of the above
Enter the type of the file hash list:
[3]> 2

Enter a list of file hashes separated by commas:
(e.g.: 753710fda3dc815e26cf7d2094d417aab6426b38b99f14e9dd53129e37506e45)
> 753710fda3dc815e26cf7d2094d417aab6426b38b99f14e9dd53129e37506e45

File hash list "myhashlist" added.

Choose the operation you want to perform:
- NEW - Create a new file hash list.
- EDIT - Edit an existing file hash list.
- DELETE - Remove a file hash list.
- PRINT - Display the contents of a file hash list.
[]>
mail1.example.com> commit

Please enter some comments describing your changes:
[]> Changes committed

Do you want to save the current configuration for rollback? [Y]>

Changes committed: Fri Mar 12 13:57:52 2021 GMT
mail1.example.com>
```

Synchronizing Configuration Changes between Machines in Different Clusters Simultaneously

You can synchronize configuration changes made to a logged-in machine in one cluster to all machines in a remote cluster simultaneously. The synchronization process occurs only when both clusters are in the same or different data centers of the same region.

Note You can only synchronize configuration changes between machines at the cluster level and not at the group or machine level.

Note You must move the machine to the group level to avoid the SPAM Quarantine IP configuration being synchronized over the intercluster.

To enable this feature, contact your Cisco account manager.

Prerequisite: Before you request your Cisco account manager to enable this feature, ensure the configuration is the same in all machines across the clusters.

After the synchronization process is complete, if you make a configuration change in one machine, the same configuration is automatically replicated to all machines across the clusters. You can view the same in the System Logs. For more information see, the "System Logs" content of the "Logging chapter" in the user guide.

Note You must not modify the cluster name after the inter-cluster connection process is complete. Make sure to have a unique name for the cluster.

Use the *interclusterconfig* command to perform various tasks associated with the synchronization of configuration changes between machines in different clusters simultaneously.

The administrator and cloud administrator can access the `interclusterlist` and `interclusterconnstatus` commands.

interclusterconfig

- Description, on page 409
- Usage, on page 410
- Example – Establishing Connection between Primary Leader Machine in Current Cluster and Primary Leader Machine in Remote Cluster, on page 410
- Example – Displaying List of Primary and Backup Leader Machines in Current and Remote Clusters, on page 411
- Example – Viewing Connection Status between Primary Leader Machine in Current Cluster and Primary Leader Machine in Remote Cluster, on page 411
- Example – Assigning Another Machine as New Backup Leader Machine in Same Cluster, on page 412
- Example – Removing Connection between Primary Leader Machines in Current and Remote Clusters , on page 413

Description

You can use the `interclusterconfig` command to perform the following tasks:

- Establish a connection between the primary leader machine in one cluster (current cluster) and the primary leader machine in the remote cluster in the same or different data centers of the same region.
- Choose backup leader machines for the current and remote clusters.
- View the connection status between the primary leader machine in the current cluster and the primary leader machine in the remote cluster.
- Remove the connection between the primary leader machine in one cluster (current cluster) and the primary leader machine in the remote cluster in the same or different data centers of the same region.
- Display the list of primary and backup leader machines in the current and remote clusters.
- Assign another machine as the new backup leader machine in the same cluster.

Usage

Commit: This command does not require a 'commit'.

Cluster Management: This command can be used in all the cluster mode only.

Batch Command: This command does not support a batch format.

Example – Establishing Connection between Primary Leader Machine in Current Cluster and Primary Leader Machine in Remote Cluster

In the following example, you can use the `interclusterconfig > connect` sub command to:

- Establish a connection between the primary leader machine in the current cluster (Cluster_1) and the primary leader machine in the remote cluster (Cluster_2) in the same or different data centers of the same region.
- Choose backup leader machines for the current and remote clusters.

Before you begin:

Make sure you have the following details:

- IP address of the backup leader machine in the current cluster.
- IP address of the primary and backup leader machines in the remote cluster.
- Administrator name who has access rights to the primary leader machine in the remote cluster.
- Passphrase of the primary leader machine in the remote cluster.

```
Cluster Cluster_1)> interclusterconfig

Choose the operation you want to perform:

- LIST - List the primary and backup leader machines for all interconnected clusters.
- CONNSTATUS - Display the connection status of the leader machine in the remote cluster
and all the machines in the same cluster.
- CONNECT - Connect two machines in different clusters in the same or different data centers.
- DISCONNECT - Disconnect two machines in different clusters in the same or different data
 centers.
- EDITBACKUPLEADER - Edit the backup leader machine of the current cluster.

[]> connect

Enter the IP address of the local cluster's backup leader machine:
[]> 1.1.1.1

Enter the IP address of a machine in remote cluster.
Note: The remote cluster refers to another cluster of machines configured in the same or
different data center.
[]> 1.1.1.2

Enter the administrator's name who has access rights to the remote machine.
[admin]>

Enter the passphrase of the remote machine: *******

Enter the IP address of the backup leader machine in the remote cluster :
[]> 1.1.1.5
```

```
Please verify the SSH host key for 1.1.1.2:

Public host key fingerprint: 7f:6a:06:52:d1:e4:13:f4:ee:b3:76:38:9e:b6:8b:a7

Is this a valid key for this host? [Y]>

The clusters 'Cluster_1' and 'Cluster_2' are connected successfully.

The intercluster connection of the clusters takes effect immediately. You need not 'commit'
 the changes.
```

Note Make sure you do not remove the primary leader machine from the cluster using the `clusterconfig` > `removemachine` sub command in the CLI when the inter-cluster communication is active.

Example – Displaying List of Primary and Backup Leader Machines in Current and Remote Clusters

In the following example, you can use the `interclusterconfig` > `list` sub command to display the list of primary and backup leader machines in the current and remote clusters.

```
Cluster Cluster_1)> interclusterconfig

Choose the operation you want to perform:

- LIST - List the primary and backup leader machines for all interconnected clusters.
- CONNSTATUS - Display the connection status of the leader machine in the remote cluster
and all the machines in the same cluster.
- CONNECT - Connect two machines in different clusters in the same or different data centers.
- DISCONNECT - Disconnect two machines in different clusters in the same or different data
 centers.
- EDITBACKUPLEADER - Edit the backup leader machine of the current cluster.

[]> list

Cluster Cluster_1 (current cluster)
==================================
Primary leader machine mail1.example.com (Serial #: 4215AXXXXXXXXX-XXXXXXXXXXX)
Backup leader machine mail2.example.com (Serial #: 4215BXXXXXXXXXX-XXXXXXXXXX)

Cluster Cluster_2 (remote cluster)
==================================
Remote primary leader machine mail3.example.com (Serial #: 4215FXXXXXXXXXX-XXXXXXXXX)
Remote backup leader machine mail4.example.com (Serial #: 4215GXXXXXXXXXX-XXXXXXXXX)
```

Example – Viewing Connection Status between Primary Leader Machine in Current Cluster and Primary Leader Machine in Remote Cluster

In the following example, you can use the `interclusterconfig` > `connstatus` sub command to view the connection status between the primary leader machine in the current cluster (Cluster_1) and the primary leader machine in the remote cluster (Cluster_2).

Note You can view the connection status from the primary leader machine only.

```
Cluster Cluster_1)> interclusterconfig
```

```
Choose the operation you want to perform:

- LIST - List the primary and backup leader machines for all interconnected clusters.
- CONNSTATUS - Display the connection status of the leader machine in the remote cluster
and all the machines in the same cluster.
- CONNECT - Connect two machines in different clusters in the same or different data centers.
- DISCONNECT - Disconnect two machines in different clusters in the same or different data
 centers.
- EDITBACKUPLEADER - Edit the backup leader machine of the current cluster.

[]> connstatus

Cluster Cluster_1 (current cluster)
==================================
Primary leader machine mail1.example.com (Serial #: 4215AXXXXXXXXXXX-XXXXXXXX)

Cluster Cluster_2 (remote cluster)
==================================
Remote primary leader machine mail2.example.com (Serial #: 4215FXXXXXXXXXXXX-XXXXXX)

Note: To check the connection status of the machines in the remote cluster, execute the
"interclusterconnstatus" CLI command on the connected leader machine
```

Example – Assigning Another Machine as New Backup Leader Machine in Same Cluster

In the following example, you can use the `interclusterconfig` > `editbackupleader` sub command to assign another machine as the new backup leader machine in the same cluster (Cluster_1).

Note You can assign another machine as the new backup leader machine under the following conditions:

- When the machine belongs to the same cluster and is not the current primary or backup leader machine.
- When the inter-cluster communication is active.

Before you begin:

Make sure you have the IP address of the machine that you want to assign as the new backup leader machine in the current cluster.

```
Cluster Cluster_1)> interclusterconfig

Choose the operation you want to perform:
- LIST - List the primary and backup leader machines for all interconnected clusters.
- CONNSTATUS - Display the connection status of the leader machine in the remote cluster
and all the machines in the same cluster.
- CONNECT - Connect two machines in different clusters in the same or different data centers.
- DISCONNECT - Disconnect two machines in different clusters in the same or different data
 centers.
- EDITBACKUPLEADER - Edit the backup leader machine of the current cluster.

[]> editbackupleader

Enter the IP address of the local cluster's backup leader machine:
[]> 1.1.1.2

Success: Machine mail2.example.com has been changed as the backup leader.
```

Example – Removing Connection between Primary Leader Machines in Current and Remote Clusters

In the following example, you can use the `interclusterconfig` > `disconnect` sub command to remove the connection between the primary leader machine in the current cluster and the primary leader machine in the remote cluster in the same or different data centers of the same region.

Note You must not remove the primary leader machine from the cluster when intra or inter-cluster communication is active.

```
(Cluster Cluster_1)> interclusterconfig

Choose the operation you want to perform:

- LIST - List the primary and backup leader machines for all interconnected clusters.
- CONNSTATUS - Display the connection status of the leader machine in the remote cluster
and all the machines in the same cluster.
- CONNECT - Connect two machines in different clusters in the same or different data centers.
- DISCONNECT - Disconnect two machines in different clusters in the same or different data
 centers.
- EDITBACKUPLEADER - Edit the backup leader machine of the current cluster.

[]> disconnect

Are you sure you want to disconnect the cluster machines "Cluster_1" and "Cluster_2"? [N]>
 yes

The interclusters "Cluster_1" and "Cluster_2" are disconnected successfully
```

Appendix - Modifying Existing Primary Leader Machine in Cluster

If you want to make another machine in the cluster as the primary leader machine, you must modify the existing primary leader machine.

Follow the given steps to modify the existing primary leader machine in the cluster:

1. Make the primary leader machine (for example, 1.1.1.1) of the cluster down by shutting down the device.
2. Wait 5 to 6 minutes for the primary leader machine to switch to the back up leader machine (for example, 1.1.1.2).

   The backup leader machine becomes the current primary leader machine of the cluster.
3. Modify the backup leader machine (the primary leader machine mentioned in step 1 (1.1.1.1) to a new backup machine (for example, 1.1.1.3) after the switch is completed.
4. Remove the current backup leader machine (the primary leader machine mentioned in step 1) from the cluster.

INDEX

A

Anti-Spam 341
  HAT parameter 341

B

bouncing recipients 174–175
  all 175
  by Envelope From 175
  by hostname 174

C

case-sensitivity 15
  in CLI 15
command line interface (CLI) 14–16
  case-sensitivity in 15
  conventions 14
  default setting 14
  exit 16
  history 16
  subcommands 15
  white space 15
configuration directory 332
content filters 238
  creating via CLI 238
CRAM-MD5 351

D

delivery queue, monitoring 195
Domain Keys 72
  DNS TXT record 72

G

global unsubscribe 197
  adding 197

H

history, in CLI 16
Host Access Table (HAT) 332
  importing and exporting 332
  order in 332

L

LDAP 159
  Laser specification 159

M

maximum 341
  message size in HAT 341
  messages per connection in HAT 341
  recipients per message in HAT 341
maximum recipients per hour 341

N

numbers 341

O

online help 18

R

refusing connections 332
rejecting connections 332

S

SenderBase 341
SMTP 327, 332
  protocol 327
  relay 332
SMTP Auth 351
  DIGEST-MD5 351
square brackets 14
SSH 13

T

Telnet 13
text editor 332