

Configurar nomes de domínio UTF-8 (IDN) em 14.X

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Introduction

Este documento descreve como configurar e usar o novo recurso UTF-8 International Domain Name (IDN) adicionado ao Secure Email Gateway (ESA) e ao Secure Email Cloud Gateway (CES) no código 14.x

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Requirements

A Cisco recomenda que você tenha conhecimento destes tópicos:

Conceitos e configuração de ESA

Componentes Utilizados

Monitor Mail Policies Security Services Network System Administration

Add SMTP Route

Mode —Cluster: ESA_BETA_CLUSTER Change Mode...

Centralized Management Options

SMTP Route Settings

Receiving Domain: ?

Destination Hosts:

Priority ?	Destination ?	Port	
<input type="text" value="0"/>	<input type="text" value="10.1.1.1"/>	<input type="text" value="25"/>	<input type="button" value="Add Row"/>
	(Hostname, IPv4 or IPv6 address.)		<input type="button" value=""/>

Outgoing SMTP Authentication: No outgoing SMTP authentication profiles are configured. See [Network > SMTP Authentication](#)

Note: DANE will not be enforced for domains that have SMTP Routes configured.

Domínios DNS

Podemos adicionar ou editar domínios IDN em servidores DNS.

Navegue até Rede -> DNS -> Editar configurações -> Adicionar o domínio IDN em "substituições de servidor DNS alternativas"

Monitor Mail Policies Security Services Network System Administration

Edit DNS

Mode —Cluster: ESA_BETA_CLUSTER Change Mode...

Centralized Management Options

DNS Server Settings

DNS Servers: Use these DNS Servers

Priority ?	Server IP	Add Row
0	10.0.201.2	
1	10.0.201.12	

Alternate DNS servers Overrides (Optional):

Domain(s)	DNS Server IP Address	Add Row
जीमिन.कॉम <i>i.e., example.com, example2.com</i>	10.1.1.4 <i>i.e., 10.0.0.3</i>	

Use the Internet's Root DNS Servers

Alternate DNS servers Overrides (Optional):

Domain	DNS Server FQDN	DNS Server IP Address	Add Row
<input type="text"/>	<input type="text"/>	<input type="text"/>	
<i>i.e., example.com</i>	<i>i.e., dns.example.com</i>	<i>i.e., 10.0.0.3</i>	

Interface for DNS Traffic: Change

Wait Before Timing out Reverse DNS Lookups:

Cancel Submit

NOTE:

Os domínios públicos IDN são resolvidos pelo servidor DNS raiz público/Internet.

Domínios locais IDN: No servidor DNS local, crie arquivos de zona com registros em formato de código de punção equivalente a domínios IDN [por exemplo: xn—2scrj9c.xn—2scrj9c.] para lidar com a resolução de nomes de domínio de IDN local.

Ouvinte - RAT/HAT

Podemos usar o suporte IDN em:

- Ouvintes de entrada/saída -> Adicionar/editar domínios IDN no domínio padrão
- HAT/RAT -> Adicionar/editar domínios IDN em HAT/RAT
- Importar/Exportar tabelas HAT/RAT com IDNs

Para configurar a Tabela de Acesso de Destinatário (RAT) com IDN, navegue para **Políticas de e-mail** -> **Tabela de Acesso de Destinatário (RAT)** e clique em **Adicionar Destinatário** -> **Adicionar Domínio IDN** -> **Enviar** -> **Confirmar**

Recipient Access Table Overview

Success — Recipient Access Table entry for "जीमेल.कॉम" was added.

Mode — Cluster: ESA_BETA_CLUSTER

Change Mode...

Centralized Management Options

Overview for Listener: Incoming

Items per page 20

Add Recipient...

Clear All Entries

Import RAT...

Order	Recipient Address	Default Action	All Delete
1	humaaralab.com	Accept	<input type="checkbox"/>
2	doosralab.com	Accept	<input type="checkbox"/>
3	जीमेल.कॉम	Accept	<input type="checkbox"/>
All Other Recipients		Reject	

Edit Order... Export RAT... Delete

Para configurar os grupos de remetentes da tabela de acesso do host (HAT) com domínios IDN, navegue para Políticas de e-mail -> Visão geral do HAT -> Adicionar novo grupo de remetente -> **Enviar e adicionar remetentes** com o nome de host IDN -> **Enviar** -> **Confirmar**

Sender Group: IDN_Support - Incoming

Success — Sender "जीमेल.कॉम" was added.

Mode — Cluster: ESA_BETA_CLUSTER

Change Mode...

Centralized Management Options

Sender Group Settings

Name:	IDN_Support
Order:	9
Comment:	IDN Support
Policy:	ACCEPTED
SBRS (Optional):	Not in use
External Threat Feed (Optional): <i>For IP lookups only</i>	None
DNS Lists (Optional):	None
Connecting Host DNS Verification:	None Included

<< Back to HAT Overview Edit Settings...

Find Senders

Find Senders that Contain this Text: ?

Find

Sender List: Display All Items in List

Items per page 20

Add Sender...

Sender	Comment	All Delete
जीमेल.कॉम	idn sender	<input type="checkbox"/>

<< Back to HAT Overview Delete

NOTE: Você pode seguir o mesmo processo para editar qualquer grupo de remetente e adicionar

os Domínios IDN.

Políticas de recebimento/saída de e-mails - remetente/destinatário

Para configurar as políticas de e-mail de entrada para tratar do IDN, navegue para **Políticas de e-mail -> Adicionar política -> Fornecer nome da política-> Adicionar usuários**

Você pode optar por usar os domínios IDN em Remetente/Receptor ou tentar qualquer combinação ->Enviar ->Confirmar

Incoming Mail Policies

Mode --Cluster: ESA_BETA_CLUSTER

Change Mode...

> Centralized Management Options

Add User

Any Sender

Following Senders

Following Senders are Not

Email Address:

@example.com

(e.g. user@example.com, user@, @example.com, @.example.com)

LDAP Group:

Query: LDAP.group

Group:

Add Group

Remove

Any Recipient

Following Recipients

example@example.com

(e.g. user@example.com, user@, @example.com, @.example.com)

Cisco Security Awareness not configured.

LDAP Group:

Query: LDAP.group

Group:

Add Group

Remove

Following Recipients are Not

Email Address:

(e.g. user@example.com, user@, @example.com, @.example.com)

LDAP Group:

Query: LDAP.group

Group:

Add Group

Remove

Cancel

OK

Add Incoming Mail Policy

Mode —Cluster: ESA_BETA_CLUSTER Change Mode...

Centralized Management Options

Add Policy

Policy Name:
(e.g. my IT policy)

Insert Before Policy:

Users

Sender	Recipients	Edit:	Delete
@नीमेल.कॉम	example.com	<input type="button" value="Edit"/>	<input type="button" value="Delete"/>

NOTE: Você pode seguir o mesmo processo para Políticas de envio de e-mail.

Tabela de exceções

Para adicionar nomes de domínio IDN à tabela de exceções, navegue para

Política de e-mail -> Tabela de exceções -> Adicionar exceção de verificação de remetente -> Adicionar os domínios IDN -> enviar -> confirmar

Add Sender Verification Exception

Mode —Cluster: ESA_BETA_CLUSTER Change Mode...

Centralized Management Options

Sender Verification Exception

Exception:
(e.g.: user@example.com, user@, @example.com, @.example.com, @[1.2.3.4])

Order: (of 1)

Behavior: Allow
 Reject

SMTP Code:

SMTP Text:

Sender Verification Exception Table

Success — Entry was added

Mode —Cluster: ESA_BETA_CLUSTER

Change Mode...

Centralized Management Options

Find Sender Verification Exception

Search for Email Address: ?

Find

Sender Verification Exception Table

Add Sender Verification Exception...

Clear All Sender Verification Exceptions

Order	Exception	Behavior	SMTP Response	Delete
1	@ಜೀಮೆಲ್.ಕೊಮ	Allow	N/A	

Listas de endereços

Para adicionar nomes de domínio IDN à lista de endereços, navegue para

Política de e-mail -> Lista de endereços -> Adicionar lista de endereços -> Insira os domínios IDN na caixa -> Enviar -> Confirmar

Add Address List

Mode —Cluster: ESA_BETA_CLUSTER

Change Mode...

Centralized Management Options

New Address List Details

Address List Name: IDN-Support

Description: IDN-Support-test

- List Type:
- Full Email Addresses only
 - Domains only
 - IP Addresses only
 - All of the above

Addresses:

 ಜೀಮೆಲ್.ಕೊಮ, ಅಸ್ಸೆಸಾ@ಯಾಹೂ.ಮೊಕೆ, @

 @ಮಾಡುಕ್ಕುರ

 e.g.: user@example.com, user@, @example.com,

 @[1.2.3.4], @.example.com

Cancel

Submit

Address Lists

Mode — Cluster: **ESA_BETA_CLUSTER** Change Mode...

▸ Centralized Management Options

Address Lists

[Add Address List...](#)

Address List Name	Description	Used for	Addresses	All <input type="checkbox"/> Delete
IDN-Support	IDN-Support-test		(3) ಅಭ್ಯಾಸ@ಯಾಹೂ.ಜಿ.ಕೆ, @ಜಿಮೇಲ್.ಕೆ.ಎಂ,...	<input type="checkbox"/>

[Delete](#)

Controles de destino

Para adicionar nomes de domínio IDN ao controle de destino, navegue para

Políticas de e-mail -> Controles de destino -> Adicionar destino -> Você pode adicionar o nome do domínio IDN -> Enviar -> Confirmar

Monitor Mail Policies Security Services Network System Administration

Add Destination Controls

Mode — Cluster: **ESA_BETA_CLUSTER** Change Mode...

▸ Centralized Management Options

Destination Controls

Destination:	<input type="text" value="ಜಿಮೇಲ್.ಕೆ.ಎಂ"/>
IP Address Preference:	Default (IPv6 Preferred)
Limits:	Concurrent Connections: <input type="radio"/> Use Default (500) <input checked="" type="radio"/> Maximum of <input type="text" value="500"/> (between 1 and 1,000)
	Maximum Messages Per Connection: <input type="radio"/> Use Default (50) <input checked="" type="radio"/> Maximum of <input type="text" value="50"/> (between 1 and 1,000)
	Recipients: <input checked="" type="radio"/> Use Default (No Limit) <input type="radio"/> Maximum of <input type="text" value="0"/> per <input type="text" value="60"/> minutes <i>Number of recipients between 0 and 1,000,000,000 per number of minutes between 1 and 60</i>
	Apply limits: Per Secure Email hostname: <input checked="" type="radio"/> System Wide <input type="radio"/> Each Virtual Gateway <i>(recommended if Virtual Gateways are in use)</i>
TLS Support:	Default (None)
DANE Support:	<input type="text" value="Default (None)"/>
Bounce Verification:	Perform address tagging: <input checked="" type="radio"/> Default (No) <input type="radio"/> No <input type="radio"/> Yes <i>Applies only if bounce verification address tagging is in use. See Mail Policies > Bounce Verification.</i>
Bounce Profile:	Default

Note: DANE will not be enforced for domains that have SMTP Routes configured.

[Cancel](#) [Submit](#)

Destination Controls

Success — Your changes have been committed.

Mode — Cluster: ESA_BETA_CLUSTER

Change Mode...

▸ Centralized Management Options

Destination Control Table

Items per page 20

Domain ▲	IP Address Preference	Destination Limits	TLS Support	DANE Support ^	Bounce Verification *	Bounce Profile	All <input type="checkbox"/> Delete
doosralab.com	Default	Default connection limit, 50 messages per connection, Default recipient limit	Required	Default	Default	Default	<input type="checkbox"/>
humaaralab.com	Default	Default connection limit, 50 messages per connection, Default recipient limit	Required	Default	Default	Default	<input type="checkbox"/>
जिमेिल.कोम	Default	500 concurrent connections, 50 messages per connection, Default recipient limit	Default	Default	Default	Default	<input type="checkbox"/>
Default	IPv6 Preferred	500 concurrent connections, 50 messages per connection, No recipient limit	None	None	Off	Default	

Export Table Delete

* Bounce Verification settings apply only if bounce verification address tagging is in use. See Mail Policies > Bounce Verification.
^ DANE will not be enforced for domains that have SMTP Routes configured.

Global Settings

Certificate:	Client-Cert
Send an alert when a required TLS connection fails:	Enabled

[Edit Global Settings...](#)

Perfis de devolução

Destinatário para Mensagens de Devolução e Aviso pode ser configurado com o nome de Domínio IDN em Perfis de Devolução.

Navegue até **Network -> Bounce Profiles -> Add Bounce Profile -> Enter name -> Configure os valores para Bounce Profile -> For Recipient for Bounce and Warning Messages -> Select Alternate address** e você pode optar por usar o endereço de domínio IDN.

Monitor Mail Policies Security Services Network System Administration

Add Bounce Profile

Mode — Cluster: ESA_BETA_CLUSTER Change Mode...

> Centralized Management Options

Add Bounce Profile

Profile Name:

Maximum Number of Retries:
(between 0 and 10000)

Maximum Time in Queue: seconds
(between 0 and 3000000)

Initial Time to Wait per Message: seconds
(between 60 and 86400)

Maximum Time to Wait per Message: seconds
(between 60 and 86400)

Hard Bounce and Delay Warning Messages: Send Hard Bounce Messages:

Use Default (Yes) Yes No

Use DSN format for bounce messages:

Use Default (Yes) Yes No

Message Composition

Message Subject:

Parse DSN "Status" field from bounce responses: Use Default (No) Yes No

Notification Template: *Bounce Notification Template can be defined at Mail Policies > Text Resources.*

Message Language	Template	Preview	Delete
Default	System Generated		

[Add Row](#)

Send Delay Warning Messages:

Use Default (No) Yes No

Message Composition

Message Subject:

Notification Template: *Bounce Notification Template can be defined at Mail Policies > Text Resources.*

Message Language	Template	Preview	Delete
Default	System Generated		

[Add Row](#)

Minimum Interval Between Messages: seconds

Maximum Number of Messages to Send:

Recipient for Bounce and Warning Messages:

Message sender

Alternate:

Use Domain Key Signing for Bounce and Delay Messages:

Use Default (No) Yes No

There is no signing profile matching bounce from address MAILER-DAEMON@_NOTSET_.. Bounce messages will not be signed until you create appropriate signing profile.

[Cancel](#) [Submit](#)

LDAP

Agora você pode ter as consultas LDAP de aceitação/grupo com nomes de domínio IDN como mostrado na imagem.

Incoming Mail Policies

1

Edit User

Any Sender
 Following Senders
 Following Senders are Not

Email Address:

(e.g. user@example.com, user@, @example.com, @.example.com)

LDAP Group:
Query:

Group:

Any Recipient
 Following Recipients

(e.g. user@example.com, user@, @example.com, @.example.com)

Cisco Security Awareness not configured.

LDAP Group:
Query:

Group:

Note: A red box highlights the recipient configuration section, and a red arrow points to the recipient's LDAP group entry.

Quarentena de spam local

Você pode ver que a quarentena SPM local exibe os nomes de domínio IDN no endereço de e-mail/domínios/assunto do usuário

Search

Note: For best performance your search should contain an envelope recipient.

Messages Received: Today Last 7 days Date Range: and

Where :

Envelope Recipient :

[Clear Search] 14 items found Search

Search Results Items per page 25

Displaying 1 – 14 of 14 items.

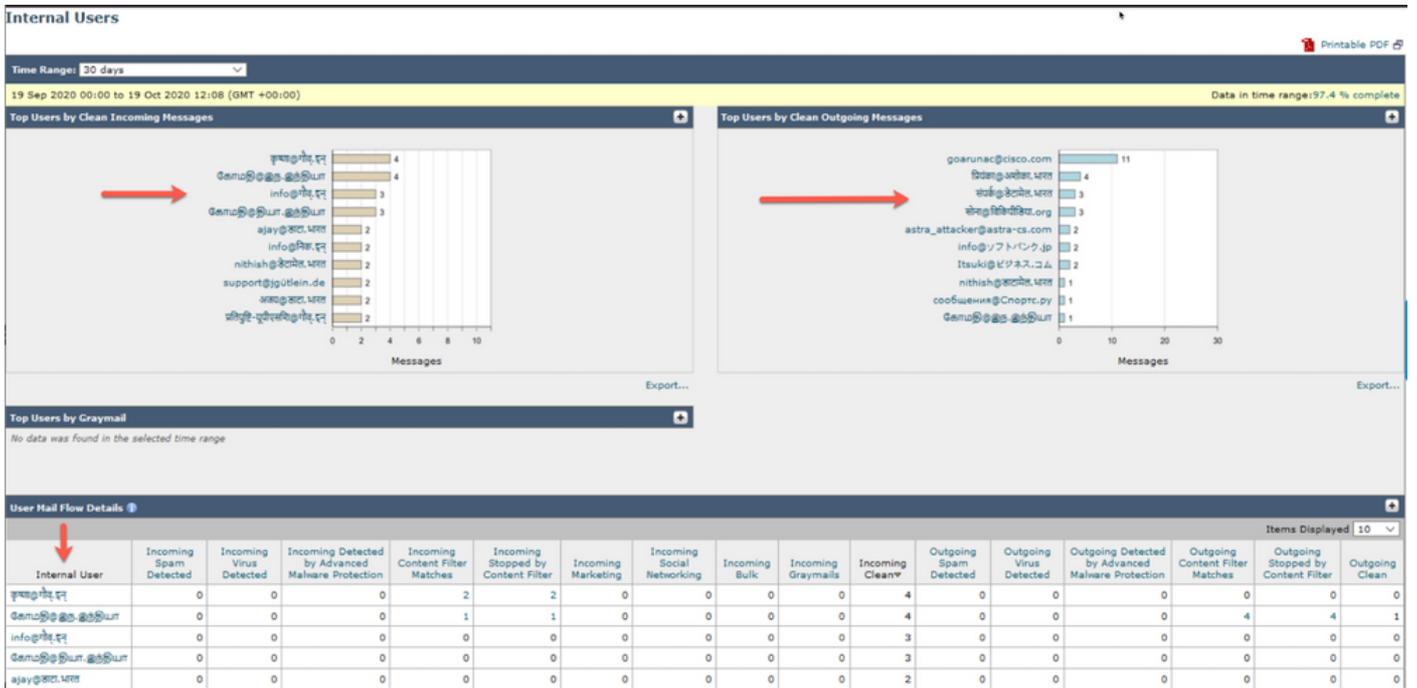
<input type="checkbox"/>	From	Envelope Recipient	To	Subject	Date	Size
<input type="checkbox"/>		anvitha@doosalab.com		[SUSPICIOUS MESSAGE] this is to test policy	10 Feb 2021 16:30 (GMT -06:00)	3.6K
<input type="checkbox"/>		अनअविता2@जीमेल.कॉम		Please read as this is very என்று நம்புகிறேன் for both the countries.	09 Feb 2021 21:49 (GMT -06:00)	7.3K
<input type="checkbox"/>		あなたは誰ですか2@ヤフー.com		this is japanese test 今は17時38分です	09 Feb 2021 21:37 (GMT -06:00)	3.5K
<input type="checkbox"/>		你是誰2@明天.在		Please read as this is very என்று நம்புகிறேன் for both the countries.	09 Feb 2021 21:18 (GMT -06:00)	3.4K
<input type="checkbox"/>		你是誰2@明天.在		Please read as this is very என்று நம்புகிறேன் for both the countries.	09 Feb 2021 17:13 (GMT -06:00)	7.6K
<input type="checkbox"/>		anvitha@humaaralab.com		Please read as this is very என்று நம்புகிறேன் for both the countries.	09 Feb 2021 17:11 (GMT -06:00)	8.8K
<input type="checkbox"/>		anvitha@humaaralab.com		Please read as this is very என்று நம்புகிறேன் for both the countries .	09 Feb 2021 17:02 (GMT -06:00)	4.7K
<input type="checkbox"/>		anvitha@humaaralab.com		Please read as this is very என்று நம்புகிறேன் for both the countries.	09 Feb 2021 17:00 (GMT -06:00)	5.1K
<input type="checkbox"/>		anvitha@humaaralab.com		Please read as this is very மாடாத்திரிபு ஁ந்து பாவிசுதுவீ for both the countries.	09 Feb 2021 16:54 (GMT -06:00)	5.2K
<input type="checkbox"/>		anvitha@doosalab.com		this is a test	09 Feb 2021 16:01 (GMT -06:00)	3.3K
<input type="checkbox"/>		anvitha@humaaralab.com		Please read as this is very என்று நம்புகிறேன் for both the countries .	09 Feb 2021 15:49 (GMT -06:00)	8.1K
<input type="checkbox"/>		anvitha@humaaralab.com		Please read as this is very என்று நம்புகிறேன் for both the countries.	09 Feb 2021 15:41 (GMT -06:00)	8.8K
<input type="checkbox"/>		anvitha@humaaralab.com		Please read as this is very आशा for both the countries.	08 Feb 2021 21:53 (GMT -06:00)	5.0K
<input type="checkbox"/>		anvitha@humaaralab.com		Please read as this is very आशा for both the countries.	08 Feb 2021 21:47 (GMT -06:00)	3.9K

NOTE: A quarentena de PVO local mostra um comportamento semelhante à quarentena de spam.

Verificação e Troubleshooting

1) Os relatórios sobre ESA e SMA (Secure Email e Web Manager) agora oferecem suporte à IDN. Podemos ver nomes de usuário/domínio/endereço de e-mail no formato IDN nos relatórios

Navegue até Monitorar -> Usuários internos



2) No Rastreamento de Mensagens podemos ver o nome de domínio IDN e também filtrar com os domínios/nomes de usuário/endereço de e-mail da IDN

Search

Available Time Range: 16 Jun 2020 18:00 to 12 Feb 2021 08:19 (GMT -06:00) Data in time range: 87.98% complete

Envelope Sender: ?

Envelope Recipient: ?

Subject: ?

Message Received: Last Day Last Week Custom Range

Start Date: Time: and End Date: Time: (GMT -06:00)

Advanced Search messages using advanced criteria

Generated: 12 Feb 2021 08:21 (GMT -06:00) Export All... | Export..

Results Items per page 20

Displaying 1 — 15 of 15 items.

1	11 Feb 2021 13:42:13 (GMT -06:00)	MID: 23579661	HOST: ESA1-EFT (10.0.202.17)	Show Details
SENDER: anvitha@ಯಾಹೂ.ಬೊತೆ				
RECIPIENT: anvitha@humaaralab.com				
SUBJECT: Please read as this is very [redacted]				
LAST STATE: Message 23579661 to anvitha@humaaralab.com received remote SMTP respons:				
2	11 Feb 2021 10:13:55 (GMT -06:00)	MID: 23579651	HOST: ESA1-EFT (10.0.202.17)	Show Details
SENDER: anvitha@ಯಾಹೂ.ಬೊತೆ				
RECIPIENT: anvitha@humaaralab.com				
SUBJECT: Please read as this is very [redacted]				
LAST STATE: Message 23579651 to anvitha@humaaralab.com received remote SMTP respons:				
3	09 Feb 2021 17:09:49 (GMT -06:00)	MID: 23570342	HOST: ESA1-EFT (10.0.202.17)	Show Details
SENDER: anvitha@ಯಾಹೂ.ಬೊತೆ				
RECIPIENT: anvitha@humaaralab.com				
SUBJECT: Please read as this is very [redacted]				
LAST STATE: A new message 23570347 was generated to handle bounce of message 235703-				
4	09 Feb 2021 16:59:11 (GMT -06:00)	MID: 23570318	HOST: ESA1-EFT (10.0.202.17)	Show Details

3) Use o comando CLI grep ou tail para exibir "mail_logs" e os domínios IDN nos logs

Mon Feb 8 21:47:11 2021 Info: Start MID 23569633 ICID 148853
Mon Feb 8 21:47:11 2021 Info: MID 23569633 ICID 148853 From:

<@.>

Mon Feb 8 21:47:19 2021 Info: MID 23569633 ICID 148853 RID 0 To: <test@lab.com>
Mon Feb 8 21:47:52 2021 Info: MID 23569633 Subject 'Please read as this is very for both the countries.'
Mon Feb 8 21:47:52 2021 Info: MID 23569633 SDR: Domains for which SDR is requested: reverse DNS host: sample.host.com, helo: lab.com, env-from: ., header-from: Not Present, reply-to: Not Present
Mon Feb 8 21:47:53 2021 Info: MID 23569633 SDR: Consolidated Sender Reputation: Tainted, Threat Category: N/A, Suspected Domain(s) : lab.com. Youngest Domain Age: 3 months 29 days for domain: lab.com
Mon Feb 8 21:47:53 2021 Info: MID 23569633 SDR: Tracker Header :
87dSxFfNYdsiOahrXSUZFOrdpenKiF6J2uKiPf+SFKCtj52hNCpe6LDQ8UFAligNUDA7FsuXLvHTcaAtt6AKG4PWLpwEeo/dcIPBUOdxB48=
Mon Feb 8 21:47:53 2021 Info: MID 23569633 ready 605 bytes from

<@.>

Mon Feb 8 21:47:53 2021 Info: MID 23569633 matched all recipients for per-recipient policy DEFAULT in the inbound table
Mon Feb 8 21:47:53 2021 Info: MID 23569633 interim verdict using engine: CASE spam positive
Mon Feb 8 21:47:53 2021 Info: MID 23569633 using engine: CASE spam positive
Mon Feb 8 21:47:53 2021 Info: ISQ: Tagging MID 23569633 for quarantine
Mon Feb 8 21:47:53 2021 Info: MID 23569633 interim AV verdict using McAfee CLEAN
Mon Feb 8 21:47:53 2021 Info: MID 23569633 interim AV verdict using Sophos CLEAN
Mon Feb 8 21:47:53 2021 Info: MID 23569633 antivirus negative
Mon Feb 8 21:47:53 2021 Info: MID 23569633 AMP file reputation verdict : SKIPPED (no attachment in message)
Mon Feb 8 21:47:53 2021 Info: MID 23569633 using engine: GRAYMAIL negative
Mon Feb 8 21:47:53 2021 Info: MID 23569633 Custom Log Entry: SDR Age is less than 1 Year
Mon Feb 8 21:47:53 2021 Info: MID 23569633 Outbreak Filters: verdict negative
Mon Feb 8 21:47:53 2021 Info: MID 23569633 Message-ID '<d35764\$mf971@esal.lab.com>'
Mon Feb 8 21:47:53 2021 Info: MID 23569633 queued for delivery
Mon Feb 8 21:47:53 2021 Info: New SMTP DCID 250225 interface 10.0.202.17 address 10.0.201.5 port 6025
Mon Feb 8 21:47:53 2021 Info: DCID 250225 STARTTLS command not supported
Mon Feb 8 21:47:53 2021 Info: Delivery start DCID 250225 MID 23569633 to RID [0] to offbox IronPort Spam Quarantine
Mon Feb 8 21:47:53 2021 Info: Message done DCID 250225 MID 23569633 to RID [0] (external quarantine)
Mon Feb 8 21:47:53 2021 Info: MID 23569633 RID [0] Response 'ok: Message 27293054 accepted'
Mon Feb 8 21:47:53 2021 Info: Message finished MID 23569633 done
Mon Feb 8 21:47:58 2021 Info: DCID 250225 close

Informações Relacionadas

- [Cisco Email Security Appliance – Guias do usuário final](#)
- [Suporte Técnico e Documentação - Cisco Systems](#)