



Mobile Policy Common Commands

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cluster

Configures the cluster information.

Command Modes

Exec > Global Configuration

Syntax Description

```
cluster { cluster-id cluster_id | system-id system_id }
```

cluster-id *cluster_id*

Specify the cluster ID.

Must be a string.

Default Value: "cluster-1".

system-id *system_id*

Specify the system ID.

Must be a string.

Default Value: "system-1".

Usage Guidelines Use this command to configure cluster information.

cps-license

Registers the cnAAA license.

Command Modes Exec > Global Configuration

Syntax Description **cps-licence** *license_name* **encrypted-key** *encrypted_key*

cps-licence *license_name*

Specify the feature name.

Must be a string.

encrypted-key *key*

Specify the encrypted key.

Must be a string.

Usage Guidelines Use this command to registers the cnAAA license.

db

Configures the database parameter.

Product cnAAA

Privilege Security Administrator, Administrator

Syntax Description **db { balance shard count** *number_of_shard* **| global-settings { db-replica** *number_of_replica* **| timers { catchup-timeout-millis** *catchup_timeout* **|** **election-timeout-millis** *election_timeout* **| heartbeat-interval-millis** *heartbeat_interval* **| db-user-name** *MongoDB_username* **password** *PlainTextPassword* **| } } | spr shard-count** *number_of_spr_shards* **}**

balance shard count *number_of_shard*

Specify to abort commit. Specify the persist ID.

Must be an integer.

db-replica *number_of_replica*

Specify the number of database replicas.

Must be an integer.

catchup-timeout-millis *catchup_timeout*

Specify the catchup timeout in milliseconds.

Must be an integer.

election-timeout-millis *election_timeout*

Specify the election timeout in milliseconds.

Must be an integer.

heartbeat-interval-millis *heartbeat_interval*

Specify the heartbeat interval in milliseconds.

Must be an integer.

db-user-name *MongoDB_username* password *PlainTextPassword*

Specify the MongoDB database username and password.

spr shard-count *number_of_spr_shards*

Specify the number of SPR shards.

Must be an integer.

Usage Guidelines

Use this command to configure the database parameter.

db global-settings backup-settings

Configures the backup settings for replica sets.

Command Modes

Exec > Global Configuration

Syntax Description

```
db global-settings backup-settings backup-file-prefix backup-frequency
backup-from-member exclude-dbs local-backup-path max-backup-time-seconds
max-restore-time-seconds | purge-local-file scp-server } }
```

backup-file-prefix

Command Modes Exec > Global Configuration

Syntax Description

backup-file-prefix

Backup file title prefix

Must be a string.

backup-frequency

Command Modes Exec > Global Configuration

Syntax Description	backup-frequency { <i>day Day_which_backup_need_to_execute</i> time-to-backup Backup_initiate_time, _HH:MM:SS }
---------------------------	---

backup-from-member

Command Modes Exec > Global Configuration

Syntax Description	backup-from-member member { <i>primary</i> primary-preferred secondary secondary-preferred }
---------------------------	--

Usage Guidelines	Backup shall be initiated from selected option.
-------------------------	---

exclude-dbs

Command Modes Exec > Global Configuration

Syntax Description

exclude-dbs

Must be a string.

List of dbs to be excluded being backed up.

local-backup-path

Command Modes Exec > Global Configuration

Syntax Description

local-backup-path

Local backup file path, Default: /data/db

Must be a string.

max-backup-time-seconds

Command Modes Exec > Global Configuration

Syntax Description

max-backup-time-seconds

Maximum time for each db to be backed up.

Must be an integer .

Default value 300

max-restore-time-seconds**Command Modes** Exec > Global Configuration**Syntax Description**

max-restore-time-seconds

Maximum time for each db to be restored.

Must be an integer .

Default value 300

purge-local-file**Command Modes** Exec > Global Configuration**Syntax Description**

purge-local-file

Deletes the locally created backup file after uploading to the backup server.

Type Boolean

scp-server**Command Modes** Exec > Global Configuration**Syntax Description****Syntax Description**

```
scp-server { host Ip_address | password password | port server_port |
remote-backup-path file_path | user-name user_name}
```

Backup server configuration parameters

Host**Command Modes** Exec > Global Configuration**Syntax Description**

host

Server name or IP Address

Must be a String.

Password**Command Modes** Exec > Global Configuration**Syntax Description**

password

Login password

Port**Command Modes** Exec > Global Configuration

Syntax Description

port

Server port

Must be type of unsigned int

Default value is 22

remote-backup-path

Command Modes Exec > Global Configuration

Syntax Description

remote-backup-path

Absolute file path in scp server to be restored

Must be a String.

user-name

Command Modes Exec > Global Configuration

Syntax Description

user-name

Login user name

Must be a String.

user-name

Command Modes Exec > Global Configuration

Syntax Description

user-name

Login user name

Must be a String.

db balance

Configures the Balance database.

Command Modes

Exec > Global Configuration

Syntax Description

balance shard-count *balance_db_shard_count*

shard-count *balance_db_shard_count*

Specify the Balance database's shard count.

Must be an integer.

Default Value: 1.

Usage Guidelines

Use this command to configure the Balance database.

Example

The following command configures the Balance database's shard count to 1:

```
db balance shard-count 1
```

db global-settings db-replica

Configures the replica count for the global DB.

Command Modes

Exec > Global Configuration

Syntax Description

global-settings db-replica *replica_count*

db-replica *replica_count*

Specify the global DB replica count.

Must be an integer.

Default Value: 3.

Usage Guidelines

Use this command to configure the replica count for the global DB.

db-replica

Command Modes Exec > Global Configuration

Syntax Description

Global DB replica count

Must be an integer.

Default value is 3.

db global-settings db-tunings

Command Modes

Exec > Global Configuration

Syntax Description

db global-settings db-tunings { *concurrent-transactions-read* | *concurrent-transactions-write* | *oplog-size-mb* | *slowms* | *wired-tiger-cache-size-gb* }

concurrent-transactions-read

Command Modes Exec > Global Configuration

Syntax Description

concurrent-transactions-read

Maximum number of concurrent read transactions allowed into the storage engine.

Must be an integer.

Default value is 16.

concurrent-transactions-write

Command Modes Exec > Global Configuration

Syntax Description

concurrent-transactions-write

Maximum number of concurrent write transactions allowed into the storage engine.

Must be an integer.

Default value is 16.

oplog-size-mb

Command Modes Exec > Global Configuration

Syntax Description

oplog-size-mb

OpLog Size(in MB) for data-bearing members.

Must be an integer from range 3072..5120.

Default value is 3072.

Slowms

Command Modes Exec > Global Configuration

Syntax Description

slowms (in milliseconds)

(in milliseconds) Operations that run for longer than this threshold are considered slow.

Must be an integer.

Default value is 500.

wired-tiger-cache-size-gb

Command Modes Exec > Global Configuration

Syntax Description

wired-tiger-cache-size-gb

Maximum size of the internal cache that WiredTiger uses for all data.

Must be an integer from range 1 .. 5.

Default value is 2.

db global-settings db-user-name**db-user-name**

Command Modes Exec > Global Configuration

Syntax Description

Uses Mongodb user name for authentication.

Must be a String.

db global-settings enable-database-encryption

Command Modes Exec > Global Configuration

Syntax Description

Enable-database-encryption.

Must be of type Boolean.

Default value is false.

db global-settings enable-tmpfs

Command Modes Exec > Global Configuration

Syntax Description

enable-tmpfs:

Must be of type Boolean.

Default value is false.

db global-settings password

Command Modes Exec > Global Configuration

Syntax Description

password:

Mongodb password for authentication.

db global-settings resource

Command Modes Exec > Global Configuration

Syntax Description

resource { cpu | memory }

Pod resource configuration.

Cpu

Command Modes Exec > Global Configuration

Syntax Description

```
cpu { limit cpu_limit_in_millicores | request cpu_resource_request_in_millicores }
```

CPU resource requests and limit configuration.

Memory

Command Modes Exec > Global Configuration

Syntax Description

```
memory { limit memory_limit_in_mb | request memory_request_in_mb }
```

Memory resource requests and limit configuration.

db global-settings timers

Configures global MongoDB timers.

Command Modes

Exec > Global Configuration

Syntax Description

```
global-settings timers { catchup-timeout-millis catchup_timeout |  
election-timeout-millis election_timeout | heartbeat-interval-millis  
heartbeat_interval }
```

catchup-timeout-millis *catchup_timeout*

Command Mode

Exec > Global Configuration

Specify the global catchup timeout period, in milliseconds.

Must be an integer.

Default Value: 2000.

connect-timeout-millis

Command Mode

Exec > Global Configuration

connect-timeout-millis

MongoClient driver wait time for a connection to open before timing out.

Must be an integer.

Default Value: 2000.

election-timeout-millis *election_timeout*

Command Mode

Exec > Global Configuration

Specify the global election timeout period, in milliseconds.

Must be an integer.

Default Value: 2000.

heartbeat-interval-millis *heartbeat_interval*

Command Mode

Exec > Global Configuration

Specify the global heartbeat interval period, in milliseconds.

Must be an integer.

Default Value: 300.

Usage Guidelines

Use this command to configure the global MongoDB timers.

server-selection-timeout-millis

Command Mode

Exec > Global Configuration

MongoClient driver wait time for server selection to succeed, before throwing an exception.

Must be an integer.

Default Value: 2000.

socket-timeout-millis

Command Mode

Exec > Global Configuration

MongoClient driver wait time to send or receive a request before timing out.

Must be an integer.

Default Value: 2000.

db global-settings volume-storage-class

Command Mode

Exec > Global Configuration

volume-storage-class:

Volume storage class if use-volume-claims is enabled.

Values can be default or local.

Default value is default.

db scdb replica-name**Command Mode**

Exec > Global Configuration

Sample configuration

```
db scdb replica-name sdb-subscriber1
port 65001
interface vlan 2400
storage 5
resource cpu limit 6000
resource memory limit 112000
replica-set-label key smi.cisco.com/node-type
replica-set-label value oam
member-configuration member sdb-rs1-arbiter
host 10.192.1.24
arbiter true
site local
exit
member-configuration member sdb-rs1-s1-m1
host 10.192.1.22
arbiter false
priority 102
site local
exit
member-configuration member sdb-rs1-s1-m2 host 10.192.1.23 arbiter false priority 101 site
local
exit
exit
```

replica-name

Specify the name of the replica-set.

Must be a string.

Port

Specify the port for replica set. Must be an integer. Default Value: 27720.

db-path

Specify the data path for the replica set.

Must be a String. Default Value: /data/db.

Interface

Specify the Interface for Mongo.

Must be a String.

resource cpu limit

Specify the CPU resource limit in millicores.

Must be an integer.

Input range value: 100 to 1000000.

resource cpu request

Specify the CPU resource request in millicores.

Must be an integer.

Input range value: 100 to 1000000.

resource memory limit

Specify the CPU resource limit in megabytes.

Must be an integer.

Input range value: 100 to 200000.

db scdb replica-name <replica-name> storage <integer-value>

This value specifies the storage size allocated to the replica set.

resource memory request

Specify the CPU resource request in megabytes.

Must be an integer.

Input range value: 100 to 200000.

replica-set-label key KEY_NAME value value

Specify the replica set pod node affinity label key value.

member-configuration member member_name

host

Mongo host (Enter IP Address).

Must be a String.

arbiter

If role of member is arbiter, value shall be set to true.

Default Value: false.

priority

Specify the member priority for this replica-set.

Must be an integer.

site

Member in local or remote cluster.

Default value: local

db scdb replica-name <replica-name> storage <integer-value>

db scdb execute backup-data

Command Mode

Exec

Syntax Description

db scdb execute backup-data

Initiate backup.

db scdb execute restore-data

Command Mode

Exec

Syntax Description

db scdb execute restore-data

Restore data from backup.

db scdb execute password encrypt-password

Command Mode

Exec

Syntax Description

password encrypt-password plain-text <*PlainTextPassword*>

Encrypts a plain text password.

db scdb execute password decrypt-password

Command Mode

Exec

Syntax Description

password decrypt-password encrypted-text <*EncryptedPassword*>

Decrypts an encrypted password.

show running-config

Command Mode

Exec

Syntax Description

show running-config

Display the current configuration.

Show system status

Command Mode

Exec

Syntax Description

show system status

Display status of the system.

show db scdb replica-set-status

Command Mode

Exec

Syntax Description

show db scdb replica-set-status

Show replica set status.

show helm charts

Command Mode

Exec

Syntax Description

show helm charts

Display helm release details.

Show replica set status.

nacm rule-list

Command Mode

Exec

Syntax Description

nacm rule-list <rule-name> group <group-name> cmdrule <cmdrule-name> command <command to restrict> access-operations exec action deny

Specifies access restrictions for a user group.

nacm rule-list

Command Mode

Exec

Syntax Description

nacm rule-list <rule-name> group <group-name> cmdrule <cmdrule-name> command <command to restrict> access-operations exec action deny

Specifies access restrictions for a user group.

db spr

Configures the SPR database.

Command Modes

Exec > Global Configuration

Syntax Description

spr shard-count *shard_count*

shard-count *shard_count*

Specify the SPR database's shard count.

Must be an integer.

Default Value: 1.

Usage Guidelines

Use this command to configure the SPR database.

Example

The following command configures the SPR database's shard count to 20:

```
db spr shard-count 20
```

debug

Configures the debug parameters.

Syntax Description

debug { logging { default-level *logging_level* **| logger** *logger_name* **} | tracing**
{ jaeger agent udp { host *host_address* **| port** *port_number* **} | type } }**

default-level *default_level*

Specify the default level that must be logged.

Must be one of the following:

- trace
- debug
- info
- warn
- error
- off

logger *logger_utility*

Specify the logging utility name.

Must be a string.

debug tracing type *tracing_type*

Specify the tracing type.

Must be one of the following:

- OPENTRACING_JAEGER
- DISABLED

Default Value: DISABLED.

host *host_address*

Specify the host address of the Jaeger agent.

port *port_number*

Specify the port number of the Jaeger agent.

Usage Guidelines Use this command to configure debug information.

debug logging

Configures the logging parameters.

Command Modes Exec > Global Configuration

Syntax Description **logging default-level [debug | error | info | off | trace | warn]**

default-level *default_level*

Specify the default level that must be logged.

Must be one of the following:

- trace
- debug
- info
- warn
- error
- off

Usage Guidelines Use this command to configure the logging parameters.

debug logging sizing

Configures the storage and rotation parameters for system logs.

Command Modes

Exec > Global Configuration

Syntax

```
debug logging sizing { storage-size size_gb | ocs-log { max-index index_count | max-file-size size_mb } | bng-log { max-index index_count | max-file-size size_mb } | audit-log { max-index index_count | max-file-size size_mb } | api-log { maxfilesize size_mb | maxhistory hours | totalcapsize cap_gb } | app-log { maxfilesize size_mb | maxhistory minutes | totalcapsize cap_gb } | engine-log { maxfilesize size_mb | maxhistory minutes | totalcapsize cap_gb } }
```

ocs-log max-file-size *size_mb*

Specify the maximum log file size in MB.

Must be an integer. Range from 10 to 300. Default 200.

ocs-log max-index *index_count*

Specify the maximum number of files to retain after rotate.

Must be an integer. Default/minimum 15 and maximum is 21.

bng-log max-index *index_count*

Specify the maximum number of files to retain after rotate.

Must be an integer. Default/minimum 15 and maximum is 21.

bng-log max-file-size *size_mb*

Specify the maximum log file size in MB.

Must be an integer. Range from 10 to 300. Default 200.

audit-log max-index *index_count*

Specify the maximum number of files to retain after rotate.

Must be an integer. Default/minimum 15 and maximum is 21.

audit-log max-file-size *size_mb*

Specify the maximum log file size in MB.

Must be an integer. Range from 10 to 300. Default 200.

api-log maxfilesize *size_mb*

Specify the maximum log file size in MB.

Must be an integer. Range from 10 to 300. Default 200.

api-log maxhistory *hours*

Specifies how long logs are retained before deletion (in hours).

Must be an integer. Range 1 to 72. Default 72.

api-log totalcapsize *cap_gb*

Defines the total storage allocated for each log type (in GB).

Must be an integer. Range 1 to 1000. Default 300.

app-log maxfilesize *size_mb*

Specify the maximum log file size in MB.

Must be an integer. Range from 10 to 300. Default 200.

app-log maxhistory *minutes*

Specifies how long logs are retained before deletion (in minutes).

Must be an integer. Range 1 to 4320. Default 4320.

app-log totalcapsize *cap_gb*

Defines the total storage allocated for each log type (in GB).

Must be an integer. Range 1 to 1000. Default 500.

engine-log maxfilesize *size_mb*

Specify the maximum log file size in MB.

Must be an integer. Range from 10 to 300. Default 200.

engine-log maxhistory *minutes*

Specifies how long logs are retained before deletion (in minutes).

Must be an integer. Range 1 to 4320. Default 4320.

engine-log totalcapsize *cap_gb*

Defines the total storage allocated for each log type (in GB).

Must be an integer. Range 1 to 1000. Default 300.

Use this command to configure the log rotation and storage sizing for various system components.



Note Once the storage-size is configured, this config will not be allowed to remove or reduce size.

debug splunk

Configures the Splunk parameters.

Command Modes

Exec > Global Configuration

Syntax Description

```
splunk { batch-count event_count | batch-interval-ms batch_interval |
batch-size-bytes max_batch | hec-token splunk_hec | hec-url port_splunk }
```

batch-count *batch_count*

Specify the maximum number of events to send per batch.

Must be an integer.

Default Value: 10.

batch-interval-ms *batch_interval*

Specify the interval at which to send batched events, in milliseconds.

Must be an integer.

Default Value: 10000.

batch-size-bytes *batch_size*

Specify the maximum size of each batch of events, in bytes.

Must be an integer.

Default Value: 10240.

hec-token *hec_token*

Specify the Splunk HEC token.

Must be a string.

hec-url *hec_url*

Specify the protocol, hostname, and HTTP Event Collector port (8088 by default) of Splunk server.

Must be a string.

Usage Guidelines

Use this command to configure the Splunk parameters.

debug tracing

Configures the tracing parameters.

Command Modes

Exec > Global Configuration

Syntax Description `tracing [ jaegar agent agent udp [ host host_name | port port_number ] | type tracing_type ]`

jaegar agent *agent*

Specify the Jaegar agent's name.

host *host_name*

Specify the host name of the Jaegar agent.

port *port_number*

Specify the port number of the Jaegar agent.

debug tracing type *tracing_type*.

Specify the tracing type.

Must be one of the following:

- OPENTRACING_JAEGER
- DISABLED

Default Value: DISABLED.

Usage Guidelines Use this command to configure the tracing parameters.

debug backup-config

Configures the backup options.

Command Modes This table lists the mandatory options for backup-config:

Option	Description
backup-type	Specifies the type of backup to perform (all, PB, CRD, Ops-center).
crd-ingress	CRD ingress details (e.g., crd-api.pcf-pcf-engine-app-pcf-green.xx.xx.xx.nip.io).
password	Password for authentication of PB or CRD.
pb-ingress	PB ingress details (e.g., pb.pcf-pcf-engine-app-pcf-green.xx.xx.xx.nip.io).
scp-server-dest-backup-path	Destination path for backup files on the SCP server.
scp-server-user-ip	Host IP address of the SCP server.
scp-server-user-name	Username for the SCP server.

Option	Description
scp-server-user-password	Password for the SCP server user.
svn-url	SVN URL for Policy Builder export (e.g., <code>http://svn/repos//configuration</code>).
username	Username for authentication of PB or CRD.
schedule-backup-daily	Specifies the hour of the day when the backup operation should be executed (Values range from 00 to 23).
schedule-backup-weekly	Indicates the day of the week when the backup should occur (Values range from 1-7 and start with 1-Monday).

features

Configures the control configuration for the application features.

Command Modes	Exec > Global Configuration
Syntax Description	features { patching ingress-enabled { false true } }
Usage Guidelines	Use this command configure the control configuration for the application features.

Example

The following command configures the control configuration for the application feature:

```
features { patching ingress-enabled true }
```

features patching

Enables or disables the Ingress API.

Command Modes	Exec > Global Configuration
Syntax Description	patching ingress-enabled { false true } ingress-enabled { false true } Specify to enable or disable patching ingress, not secured. Must be either "false" or "true". Default Value: false.
Usage Guidelines	Use this command to enable or disable the Ingress API.

testing

Configures the parameters for the Testing feature

Command Modes

Exec > Global Configuration

Syntax Description

```
testing { external-mongo-access { admin | balance | session | spr } |
subversion-ingress-enabled | compiler-options } { ip ip_address | port
port_number }
```

code-coverage-enabled { false | true }

Specify to enable or disable code coverage reporting with jacoco.

Must be either "false" or "true".

Default Value: false.

development-mode-enabled { false | true }

Specify to enable or disable development mode.

Must be either "false" or "true".

Default Value: false.

enforce-affinity-rules { false | true }

Specify to enable or disable anti affinity rules for pod scheduling.

Must be either "false" or "true".

Default Value: true.

subversion-ingress-enabled { false | true }

Specify if the subversion ingress is enabled.

Must be either "false" or "true".

Default Value: false.

Usage Guidelines

Use this command to configure the parameters for the Testing feature.

pod management

Configuration to disable the optional pods:

Command Modes

Exec > Global Configuration

Syntax Description

```
pods-management disable-pods <pod_name1> <pod_name2>
```

Disables specified pod.

system commands

pcf-system about-system-info

Command Mode

Exec

Syntax Description

pcf-system about-system-info

This command displays the current system state, details the versions of all components, and lists the URLs for endpoints that are accessible from outside the system.

CPC VERSION

CPC VERSION BUILD_2026.02.0.i55

CPC CORE COMPONENT VERSION

pcf-beta-cncps-cnat-cps-infrastructure	BUILD_2026.02.0.i55
pcf-beta-cncps-cps-radius-ep	BUILD_2026.02.0.i55
pcf-beta-cncps-etcd-cluster	BUILD_2026.02.0.i55
pcf-beta-cncps-network-query	BUILD_2026.02.0.i55
pcf-beta-cncps-ngn-datastore	BUILD_2026.02.0.i55
pcf-beta-cncps-ops-center	BUILD_2026.02.0.i55
pcf-beta-cncps-pcf-config	BUILD_2026.02.0.i55
pcf-beta-cncps-pcf-dashboard	BUILD_2026.02.0.i55
pcf-beta-cncps-pcf-engine-app-production-rjio	BUILD_2026.02.0.i55
pcf-beta-cncps-pcf-oam-app	BUILD_2026.02.0.i55
pcf-beta-cncps-pcf-services	BUILD_2026.02.0.i55
pcf-beta-cncps-unified-api-proxy-ep	BUILD_2026.02.0.i55

CNDP VERSION

cee-beta-cncps-cee-ops-center 2026.02.1.i05

ULB VERSION

lbs-beta-ops-center BUILD_2025.04.0.i18

DATABASE VERSION

CDL VERSION 2.2.0

MONGO VERSION v7.0.28

OS VERSION

POD OS VERSION Ubuntu 22.04.5 LTS

NODE OS VERSION Ubuntu 24.04.4 LTS

CPC ENDPOINT URLs

Grafana https://grafana.xx.xx.xxx.xx.nip.io

Control Center https://pcf.controlcenter.xx.xx.xxx.xx.nip.io

Policy Builder

<https://pb.pcf-beta-cncps-pcf-engine-app-production-rjio.xx.xx.xxx.xx.nip.io/pb>

CPC Central

<https://pb.pcf-beta-cncps-pcf-engine-app-production-rjio.xx.xx.xxx.xx.nip.io>