



# Mobile Policy Common Commands

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## cluster

Configures the cluster information.

|                           |                                                                                                                                                                                                                                                                                                                                                                               |
|---------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Command Modes</b>      | Exec > Global Configuration                                                                                                                                                                                                                                                                                                                                                   |
| <b>Syntax Description</b> | <pre><b>cluster</b> { <b>cluster-id</b> <i>cluster_id</i>   <b>system-id</b> <i>system_id</i> }</pre> <p><b>cluster-id</b> <i>cluster_id</i></p> <p>Specify the cluster ID.</p> <p>Must be a string.</p> <p>Default Value: "cluster-1".</p> <p><b>system-id</b> <i>system_id</i></p> <p>Specify the system ID.</p> <p>Must be a string.</p> <p>Default Value: "system-1".</p> |
| <b>Usage Guidelines</b>   | Use this command to configure cluster information.                                                                                                                                                                                                                                                                                                                            |

## cps-license

Registers the PCF license.

|                           |                                                                                                                                                                                                                                                                                                       |
|---------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Command Modes</b>      | Exec > Global Configuration                                                                                                                                                                                                                                                                           |
| <b>Syntax Description</b> | <pre><b>cps-licence</b> <i>license_name</i> <b>encrypted-key</b> <i>encrypted_key</i></pre> <p><b>cps-licence</b> <i>license_name</i></p> <p>Specify the feature name.</p> <p>Must be a string.</p> <p><b>encrypted-key</b> <i>key</i></p> <p>Specify the encrypted key.</p> <p>Must be a string.</p> |
| <b>Usage Guidelines</b>   | Use this command to registers the PCF license.                                                                                                                                                                                                                                                        |

## db

Configures the database parameter.

|                  |                                       |
|------------------|---------------------------------------|
| <b>Product</b>   | PCF                                   |
| <b>Privilege</b> | 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 } } | 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.

**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 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 volume-storage-class

Configures the global volume storage settings for DB.

#### Command Modes

Exec > Global Configuration

#### Syntax Description

**global-settings volume-storage-class** [ **default** | **local** ]

**volume-storage-class** [ **default** | **local** ]

If the use-volume-claim is enabled, then specify the volume storage class.

#### Usage Guidelines

Use this command to configure the volume storage class for database.

## 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 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***

Specify the global catchup timeout period, in milliseconds.

Must be an integer.

Default Value: 2000.

**election-timeout-millis *election\_timeout***

Specify the global election timeout period, in milliseconds.

Must be an integer.

Default Value: 2000.

**heartbeat-interval-millis *heartbeat\_interval***

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.

## 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.

|                           |                                                                                                                                                                                                                                                                                                                                                                                                                   |
|---------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Command Modes</b>      | Exec > Global Configuration                                                                                                                                                                                                                                                                                                                                                                                       |
| <b>Syntax Description</b> | <p><b>logging default-level</b> [ <b>debug</b>   <b>error</b>   <b>info</b>   <b>off</b>   <b>trace</b>   <b>warn</b>]</p> <p><b>default-level</b> <i>default_level</i></p> <p>Specify the default level that must be logged.</p> <p>Must be one of the following:</p> <ul style="list-style-type: none"> <li>• trace</li> <li>• debug</li> <li>• info</li> <li>• warn</li> <li>• error</li> <li>• off</li> </ul> |

**Usage Guidelines** Use this command to configure the logging parameters.

## debug logging logger

Configures the logging utility.

|                           |                                                                                                                                                                 |
|---------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Command Modes</b>      | Exec > Global Configuration                                                                                                                                     |
| <b>Syntax Description</b> | <p><b>logging logger</b> <i>logger_utility</i></p> <p><b>logger</b> <i>logger_utility</i></p> <p>Specify the logging utility name.</p> <p>Must be a string.</p> |

**Usage Guidelines** Use this command to configure the logging utility.

## debug splunk

Configures the Splunk parameters.

|                      |                             |
|----------------------|-----------------------------|
| <b>Command Modes</b> | 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 tracing jaeger

Configures the Jaeger parameters.

**Command Modes**

Exec > Global Configuration

**Syntax Description**

```
jaeger [ agent host host_name | port port_name ] | type tracing_type ]
```

**agent host *host\_name***

Specify the host address of the Jaeger agent.

**port *port\_number***

Specify the port number of the Jaeger agent.

**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 Jaeger parameters.

# features

Configures the control configuration for the application features.

## Command Modes

Exec > Global Configuration

## Syntax Description

```
features { activemq cluster-ip cluster_ip_address | 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 { activemq cluster-ip 122.12.122.11 | patching ingress-enabled true }
```

# features activemq

Configures the ActiveMQ parameters.

## Command Modes

Exec > Global Configuration

## Syntax Description

```
activemq cluster-ip ip_address
```

### cluster-ip *ip\_address*

Specify the IP address of the cluster.

Must be an IP address.

## Usage Guidelines

Use this command to configure the ActiveMQ parameters.

# 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.

# show ldap

Displays the LDAP connections.

**Command Modes**

Exec

**Syntax Description**

```
show ldap { connection-status { metric metric_type | value metric_value } | displaylevel depth_level }
```

***metric *metric\_type****

Specify the metric type.

Must be a string.

***value *metric\_value****

Specify the metric value.

Must be a string.

***displaylevel *depth\_level****

Specify the depth level of the LDAP connections.

**Usage Guidelines**

Use this command to display the LDAP connection information.

**Example**

The following command displays the LDAP connections:

```
show ldap connection-status
```

# show ldap connection-status

Displays the LDAP connections for the SPR lookup.

**Command Modes**

Exec

**Syntax Description**

```
show ldap connection-status { metric metric_type | value metric_value }
```

***metric *metric\_type****

Specify the metric type

Must be a string.

**value *metric\_value***

Specify the metric value

Must be a string.

#### Usage Guidelines

Use this command to display LDAP connections for the SPR lookup.

## ldap server-set

Configures the LDAP server set parameters.

#### Command Modes

Exec > Global Configuration

#### Syntax Description

```
ldap server-set server_name [ add-child-on-parent-create-failure { false |
true } | add-request-attribute attribute_name attribute_value | binds-per-second
binds_count | connection connection_address port_number {auto-reconnect { false
| true } | bind-timeout-ms bind_timeout_ms | connection-rule FASTEST/ROUND_ROBIN
| priority priority_number | timeout-ms timeout } |
ignore-ldap-error-result-codes result_code | initial-connections
initial_connections | max-connections max_connections |
max-failover-connection-age-ms max_failover_connections |
missing-attribute-result-code attribute_code |
number-consecutive-timeouts-for-bad-connection count_timeout | retry-count
retry_count | retry-timer-ms retry_time | use-asynchronous-operations { false
| true } ]
```

**add-child-on-parent-create-failure { false | true }**

Specify to enable or disable additions of child on parent creation failure.

Must be either "false" or "true".

Default Value: true.

**binds-per-second *binds\_count***

Specify the number of binds per second.

Must be of type decimal64, with 2 fraction digits.

Default Value: 0.20.

**ignore-ldap-error-result-codes *result\_code***

Specify to ignore LDAP error result codes.

Must be an integer.

**initial-connections *initial\_connections***

Specify the initial connections.

Must be an integer.

Default Value: 1.

**max-connections *max\_connections***

Specify the maximum number of connections.

Must be an integer.

Default Value: 10.

**max-failover-connection-age-ms *max\_failover\_connections***

Specify the maximum failover connection age in milliseconds.

Must be an integer.

Default Value: 60000.

**missing-attribute-result-code *result\_code***

Specify missing attribute result code.

Must be an integer.

Default Value: 0.

**number-consecutive-timeouts-for-bad-connection *count\_timeouts***

Specify the number of consecutive timeouts for bad connection.

Must be an integer.

Default Value: -1.

**retry-count *retry\_count***

Specify the retry count.

Must be an integer.

Default Value: 3.

**retry-timer-ms *retry\_timeout***

Specify the retry timer timeout period in milliseconds.

Must be an integer.

Default Value: 50.

**server-set *server\_name***

Specify the name of the LDAP server set.

Must be a string.

**use-asynchronous-operations { false | true }**

Specify to enable or disable using LDAP asynchronous operations.

Must be either "false" or "true".

Default Value: true.

#### Usage Guidelines

Use this command to configure LDAP server set parameters.

## ldap server-set add-request-attribute

Configures the request attribute.

#### Command Modes

Exec > Global Configuration

#### Syntax Description

**add-request-attribute** *attribute\_name attribute\_value*

##### ***attribute\_name***

Specify the request attribute name.

Must be a string.

##### ***attribute\_value***

Specify the request attribute value.

Must be a string.

#### Usage Guidelines

Use this command to configure the request attribute.

## ldap server-set connection

Configure the LDAP connection parameters.

#### Command Modes

Exec > Global Configuration

#### Syntax Description

**connection** *ldap\_server\_address port\_number* { **auto-reconnect** { **false** | **true** } | **bind-timeout-ms** *bind\_timeout* | **connection-rule** *connection\_rule* | **priority** *priority\_number* | **timeout-ms** *timeout* }

##### **auto-reconnect** { **false** | **true** }

Specify to enable or disable auto reconnect to LDAP hosts.

Must be either "false" or "true".

Default Value: true.

##### **bind-timeout-ms** *bind\_timeout*

Specify the timeout period for bind calls to LDAP in milliseconds.

Must be an integer.

Default Value: 2000.

**connection-rule *connection\_algorithm***

Specify the connection algorithm.

Must be one of the following:

- FASTEST
- ROUND\_ROBIN

Default Value: ROUND\_ROBIN.

**connection *port\_number***

Specify the port number of the LDAP server.

Must be an integer.

**priority *priority\_number***

Specify the priority of the LDAP server set.

Must be an integer.

Default Value: 100.

**timeout-ms *timeout***

Specify the timeout period for calls to LDAP in milliseconds.

Must be an integer.

Default Value: 200.

**ldap\_server\_address**

Specify the address of the LDAP server.

Must be a string.

**Usage Guidelines**

Use this command to configure the LDAP connection parameters.

## ldap server-set health-check

Configures the health check parameters.

**Command Modes**

Exec > Global Configuration

**Syntax Description**

```
health-check { attributes attribute_string | dn health_check_dn | filter
filter_string | interval-ms interval_value }
```

**attributes *health\_check\_attributes***

Specify the health check attributes.

Must be a string.

**dn *health\_check\_dn***

Specify the health check DN.

Must be a string.

**filter *health\_check\_filter***

Specify the health check filter.

Must be a string.

**interval-ms *health\_check\_interval***

Specify the health check interval in milliseconds.

Must be an integer.

Default Value: 5000.

---

**Usage Guidelines**      Use this command to configure the health check parameters.

## ldap server-set search-user

Enables search user for LDAP.

---

**Command Modes**      Exec > Global Configuration

---

**Syntax Description**      **search-user** { [ **dn** *user\_dn* ] [ **password** *user\_password* ] }

**dn *user\_dn***

Specify the user DN.

Must be a string.

**password *user\_password***

Specify the user password.

Must be an aes-cfb-128-encrypted string.

---

**Usage Guidelines**      Use this command to enable search user for LDAP.

## 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** | **zing-compiler-options** | **zing-memory** } { **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.

**ldap-grpc-enabled { false | true }**

Specify to enable or disable redis IPC communication between ldap-ep to engine.

Must be either "false" or "true".

Default Value: false.

**subversion-ingress-enabled { false | true }**

Specify if the subversion ingress is enabled.

Must be either "false" or "true".

Default Value: false.

**zing-compiler-options *compiler\_options***

Specify the compiler options for Zing.

Must be one of the following:

- C2
- Falcon

Default Value: "C2".

---

**Usage Guidelines**

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

## testing tls-handshake

Configures the TLS/SSL testing parameters.

**Command Modes** Exec > Global Configuration

**Syntax Description** **tls-handshake**

**alpn-disabled { false | true }**

Specify to enable or disable ALPN extension in HTTP2 TLS ClientHello handshake.

Must be either "false" or "true".

Default Value: false.

**debug-enabled { false | true }**

Specify to enable or disable TLS/SSL debug logs.

Must be either "false" or "true".

Default Value: false.

**trust-all { false | true }**

Specify to enable or disable Keystore certificate validation for client.

Must be either "false" or "true".

Default Value: false.

**Usage Guidelines** Use this command to configure the TLS/SSL testing parameters.

## testing zing-memory

Configures the storage for preserving the Zing data.

**Command Modes** Exec > Global Configuration

**Syntax Description** **zing-memory [ datastore *datastore\_zing\_memory* | diameter *diameter\_zing\_memory* | engine *engine\_zing\_memory* | ldap *ldap\_zing\_memory* ]**

**datastore *datastore\_zing\_memory***

Specify the datastore Zing memory. For example, -Xmx4g/-Xmx8g.

Must be a string.

Default Value: "-Xmx8g".

**diameter *diameter\_zing\_memory***

Specify the Diameter Zing memory. For example, -Xmx4g/-Xmx8g.

Must be a string.

Default Value: "-Xmx8g".

**engine *engine\_zing\_memory***

Specify the engine Zing memory. For example -Xmx4g/-Xmx8g.

Must be a string.

Default Value: "-Xmx8g".

**ldap *ldap\_zing\_memory***

Specify the LDAP endpoint. For example, -Xmx4g/-Xmx8g.

Must be a string.

Default Value: "-Xmx8g".

**Usage Guidelines**

Use this command to preserve the Zing data.

**Example**

The following command configures the storage for Zing data:

```
testing zing-memory [ datastore -Xmx8g | diameter -Xmx4g | engine -Xmx8g | ldap -Xmx4g ]
```

# zing

Enables or disables the Zing feature for the engine.

**Command Modes**

Exec > Global Configuration

**Syntax Description**

**zing enable { false | true }**

**enable { false | true }**

Specify to enable or disable Zing Java Virtual Machine.

Must be either "false" or "true".

Default Value: false.

**Usage Guidelines**

Use this command to enable or disable the Zing feature for the engine.

**Example**

The following command configures Zing for the engine:

```
zing enable true
```

