R Commands

radius-server host

radius-server host <A.B.C.D|A:B::C:D|WORD>

Description: RADIUS server's DNS name or its IP address

Syntax:

A.B.C.D|A:B::C:D|WORD	Provide a hostname or IPV4/IPV6 address

Command Mode: configure : Configuration Mode

Command Path:

```
# configure [['terminal', 't']]
(config)# radius-server host <A.B.C.D|A:B::C:D|WORD>
```

radius-server retries

radius-server retries <NUMBER>

Description: Global RADIUS server retransmit count

Syntax:

<0-5>	Global RADIUS server retransmit count. Number range from=0 to=5

Command Mode: configure : Configuration Mode

Command Path:

```
# configure [['terminal', 't']]
(config)# radius-server retries <NUMBER>
```

radius-server timeout

radius-server timeout <NUMBER>

Description: Global RADIUS server timeout period in seconds

Syntax:

<1-60>	Global RADIUS server timeout period in seconds. Number range from=1 to=60

Command Mode: configure : Configuration Mode

Command Path:

```
# configure [['terminal', 't']]
(config)# radius-server timeout <NUMBER>
```

rbac role

rbac role <WORD>

Description: Create AAA role, attributes and privileges for user authorization

Syntax:

WORD	Provide AAA Security domain role name (Max Size 32)

Command Mode: configure : Configuration Mode

Command Path:

```
# configure [['terminal', 't']]
(config)# rbac role <WORD>
```

rbac rule

rbac rule <DN> <WORD>

Description: Create RBAC rule, security domain users can read subtree starting at specific object

Syntax:

DN	Provide RBAC Rule ObjectDN string
WORD	Provide RBAC Rule domain name (Max Size None)

Command Mode: configure : Configuration Mode

Command Path:

```
# configure [['terminal', 't']]
(config)# rbac rule <DN> <WORD>
```

rbac security-domain

rbac security-domain <WORD>

Description: Create AAA security domain for processing authentication requests.

Syntax:

WORD	Provide AAA Security domain name (Max Size 32)

Command Mode: configure : Configuration Mode

Command Path:

```
# configure [['terminal', 't']]
(config)# rbac security-domain <WORD>
```

realm

realm <realm>

Description: Specify server realm

Syntax:

<*realm*>	<realm>

Command Mode: aaa authentication login console : Configure console methods

Command Path:

```
# configure [['terminal', 't']]
(config)# aaa authentication login console
(config-console)# realm <realm>
```

realm <realm>

Description: Specify server realm

Syntax:

<*realm*>	<realm>

Command Mode: aaa authentication login default : Configure default methods

Command Path:

```
# configure [['terminal', 't']]
(config)# aaa authentication login default
(config-default)# realm <realm>
```

realm <realm>

Description: Specify server realm

Syntax:

<*realm*>	<realm>

Command Mode: aaa authentication login domain : Configure domain methods

Command Path:

```
# configure [['terminal', 't']]
(config)# aaa authentication login domain <WORD>
(config-domain)# realm <realm>
```

recurring

recurring window <WORD>

Description: Recurring window configuration mode

Syntax:

window	Configure a schedule window
WORD	Window name (Max size 31)

Command Mode: scheduler : Scheduler configuration mode

Command Path:

```
# configure [['terminal', 't']]
(config)# scheduler fabric|controller schedule <WORD>
(config-scheduler)# recurring window <WORD>
```

redirect

redirect

Description: Enable the state of the HTTP redirect state

Command Mode: http : HTTP communication policy group

Command Path:

```
# configure [['terminal', 't']]
(config)# comm-policy <WORD>
(config-comm-policy)# http
(config-http)# redirect
```

redistribute

redistribute ospf|eigrp route-map <WORD>

Description: Redistribute route map

Syntax:

ospf	Redistribute OSPF
eigrp	Redistribute EIGRP
route-map	Route map to redistribute to
WORD	Route map name

Command Mode: vrf : Virtual Router Context

Command Path:

```
# configure [['terminal', 't']]
(config)# leaf <101-4000>
(config-leaf)# router bgp <fabric-ASN>
(config-bgp)# vrf member tenant <WORD> vrf <WORD>
(config-leaf-bgp-vrf)# redistribute ospf|eigrp route-map <WORD>
```

redundancy-mode

redundancy-mode combined|ps-redundant|redundant

Description: Configure power supply redundancy mode

Syntax:

combined	Combined mode to use output of all available PS
ps-redundant	PS redundant mode (N+1) to enable power output redundancy
redundant	Redundant mode (N+N) for a single PS to power the system

Command Mode: power : Create a power supply redundancy policy

Command Path:

```
# configure [['terminal', 't']]
(config)# power redundancy-policy <WORD>
(config-power)# redundancy-mode combined|ps-redundant|redundant
```

region

region <WORD>

Description: STP MST region configuration mode

Syntax:

WORD	MST region name

Command Mode: spanning-tree : STP MST configuration mode

Command Path:

```
# configure [['terminal', 't']]
(config)# spanning-tree mst configuration
(config-stp)# region <WORD>
```

reload controller

reload controller <NUMBER>

Description: Reload controller

Syntax:

<1-32>	Controller id. Number range from=1 to=32

Command Mode: exec : Exec Mode

Command Path:

```
# reload controller <NUMBER>
```

reload switch

reload switch <NUMBER>

Description: Reload switch

Syntax:

<101-4000>	Switch id. Number range from=101 to=4000

Command Mode: exec : Exec Mode

Command Path:

```
# reload switch <NUMBER>
```

remote-as

remote-as <NUMBER>

Description: Specify Autonomous System Number of the neighbor

Syntax:

<1-4294967295>	The Remote autonomous system number. Number range from=1 to=4294967295

Command Mode: neighbor : Configure a BGP neighbor

Command Path:

```
# configure [['terminal', 't']]
(config)# leaf <101-4000>
(config-leaf)# router bgp <fabric-ASN>
(config-bgp)# vrf member tenant <WORD> vrf <WORD>
(config-leaf-bgp-vrf)# neighbor A.B.C.D|A.B.C.D/LEN|A:B::C:D|A:B::C:D/LEN [l3out <WORD>]
(config-leaf-bgp-vrf-neighbor)# remote-as <NUMBER>
```

remote

remote path <WORD>

Description: Remote path configuration mode

Syntax:

path	Configure remote path
WORD	Remote path configuration name

Command Mode: configure : Configuration Mode

Command Path:

```
# configure [['terminal', 't']]
(config)# remote path <WORD>
```

remote path <WORD>

Description: Set the remote path configuration will get downloaded from

Syntax:

path	Assign remote path
WORD	Remote path name

Command Mode: snapshot download : Configuration snapshot download setup mode

Command Path:

```
# configure [['terminal', 't']]
(config)# snapshot download <WORD>
(config-download)# remote path <WORD>
```

remote path <WORD>

Description: Set the remote path configuration will get exported to

Syntax:

path	Configure remote path
WORD	Remote path name

Command Mode: snapshot export : Configuration export setup mode

Command Path:

```
# configure [['terminal', 't']]
(config)# snapshot export <WORD>
(config-export)# remote path <WORD>
```

remote path <WORD>

Description: Set the remote path configuration will get imported from

Syntax:

path	Assign remote path
WORD	Remote path name

Command Mode: snapshot import : Configuration import setup mode

Command Path:

```
# configure [['terminal', 't']]
(config)# snapshot import <WORD>
(config-import)# remote path <WORD>
```

remote path <WORD>

Description: Set the remote path configuration will get uploaded to

Syntax:

path	Assign remote path
WORD	Remote path name

Command Mode: snapshot upload : Configuration snapshot upload setup mode

Command Path:

```
# configure [['terminal', 't']]
(config)# snapshot upload <WORD>
(config-upload)# remote path <WORD>
```

request-status-count

request-status-count <NUMBER>

Description: Set the maximum count of HTTP requests to track.

Syntax:

<*count*>	Set the maximum count of HTTP requests to track.. Number range from=0 to=10240

Command Mode: http : HTTP communication policy group

Command Path:

```
# configure [['terminal', 't']]
(config)# comm-policy <WORD>
(config-comm-policy)# http
(config-http)# request-status-count <NUMBER>
```

request-status-count <NUMBER>

Description: Set the maximum count of HTTPS requests to track

Syntax:

<*count*>	Set the maximum count of HTTPS requests to track.. Number range from=0 to=10240

Command Mode: https : HTTPS communication policy group

Command Path:

```
# configure [['terminal', 't']]
(config)# comm-policy <WORD>
(config-comm-policy)# https
(config-https)# request-status-count <NUMBER>
```

reset-to-factory

reset-to-factory

Description: Reset role to factory default privileges

Command Mode: rbac role : Create AAA role, attributes and privileges for user authorization

Command Path:

```
# configure [['terminal', 't']]
(config)# rbac role <WORD>
(config-role)# reset-to-factory
```

response-incl

response-incl <respincl>

Description: Configure response subtree which needs to be included

Syntax:

<*respincl*>	The response subtree to be included

Command Mode: query : Configure Query profile Parameters

Command Path:

```
# configure [['terminal', 't']]
(config)# callhome common
(config-callhome)# query-profile
(config-callhome-queryprof)# query <WORD> type dn|class <dn/classname>
(config-callhome-queryprof-query)# response-incl <respincl>
```

response-subtree

response-subtree full|children|no

Description: Configure response-subtree

Syntax:

full	Full
children	Children
no	No

Command Mode: query : Configure Query profile Parameters

Command Path:

```
# configure [['terminal', 't']]
(config)# callhome common
(config-callhome)# query-profile
(config-callhome-queryprof)# query <WORD> type dn|class <dn/classname>
(config-callhome-queryprof-query)# response-subtree full|children|no
```

retransmit-interval

retransmit-interval <NUMBER>

Description: Set the interval between LSA retransmissions

Syntax:

<1-65535>	Interval in seconds. Number range from=1 to=65535

Command Mode: template ospf interface-policy : Configure OSPF Interface Policy Templates

Command Path:

```
# configure [['terminal', 't']]
(config)# leaf <101-4000>
(config-leaf)# template ospf interface-policy <WORD> tenant <WORD>
(config-interface-policy)# retransmit-interval <NUMBER>
```

retries

retries <NUMBER>

Description: LDAP server retries for authentication

Syntax:

<0-5>	LDAP server retries for authentication. Number range from=0 to=5

Command Mode: ldap-server host : LDAP server DNS name or IP address

Command Path:

```
# configure [['terminal', 't']]
(config)# ldap-server host <A.B.C.D|A:B::C:D|WORD>
(config-host)# retries <NUMBER>
```

retries <0-5>

Description: RADIUS server retries for authentication

Syntax:

<0-5>	RADIUS server retries for authentication

Command Mode: radius-server host : RADIUS server's DNS name or its IP address

Command Path:

```
# configure [['terminal', 't']]
(config)# radius-server host <A.B.C.D|A:B::C:D|WORD>
(config-host)# retries <0-5>
```

retries <NUMBER>

Description: TACACS server retries for authentication

Syntax:

<0-5>	TACACS server retries for authentication. Number range from=0 to=5

Command Mode: tacacs-server host : TACACS+ server's DNS name or its IP address

Command Path:

```
# configure [['terminal', 't']]
(config)# tacacs-server host <A.B.C.D|A:B::C:D|WORD>
(config-host)# retries <NUMBER>
```

revision

revision <NUMBER>

Description: Set the MST region revision number

Syntax:

<*0-65535*>	MST region revision number. Number range from=0 to=65535

Command Mode: region : STP MST region configuration mode

Command Path:

```
# configure [['terminal', 't']]
(config)# spanning-tree mst configuration
(config-stp)# region <WORD>
(config-stp-region)# revision <NUMBER>
```

role

role <WORD>

Description: Create the AAA domain role to set privilege bitmask of a user domain

Syntax:

WORD	User role

Command Mode: domain : Create the AAA domain to which the user belongs.

Command Path:

```
# configure [['terminal', 't']]
(config)# username <WORD>
(config-username)# domain <WORD>
(config-domain)# role <WORD>
```

route-map

route-map <WORD>

Description: Create route-map or enter route-map command mode

Syntax:

WORD	Route-map name (Max Size 64)

Command Mode: vrf : Configure VRF parameters

Command Path:

```
# configure [['terminal', 't']]
(config)# leaf <101-4000>
(config-leaf)# vrf context tenant <WORD> vrf <WORD> [l3out <l3out>]
(config-leaf-vrf)# route-map <WORD>
```

route-map <WORD> in|out

Description: Apply route-map to neighbor

Syntax:

WORD	Route Map Name (Max Size 63)
in	Apply policy to incoming routes
out	Apply policy to outgoing routes

Command Mode: neighbor : Configure a BGP neighbor

Command Path:

```
# configure [['terminal', 't']]
(config)# leaf <101-4000>
(config-leaf)# router bgp <fabric-ASN>
(config-bgp)# vrf member tenant <WORD> vrf <WORD>
(config-leaf-bgp-vrf)# neighbor A.B.C.D|A.B.C.D/LEN|A:B::C:D|A:B::C:D/LEN [l3out <WORD>]
(config-leaf-bgp-vrf-neighbor)# route-map <WORD> in|out
```

route-profile

route-profile <WORD>

Description: Configure route-profile

Syntax:

WORD	Route profile name

Command Mode: vrf : Configuration for vrf

Command Path:

```
# configure [['terminal', 't']]
(config)# tenant <WORD>
(config-tenant)# vrf context <WORD>
(config-tenant-vrf)# route-profile <WORD>
```

route-profile <WORD>

Description: Configure route-profile for bridge-domain

Syntax:

WORD	Route profile name

Command Mode: interface : Configuration for interface bridge-domain

Command Path:

```
# configure [['terminal', 't']]
(config)# tenant <WORD>
(config-tenant)# interface bridge-domain <WORD>
(config-tenant-interface)# route-profile <WORD>
```

route-reflector

route-reflector spine <LIST> [description <TEXT>]

Description: Configure BGP route-reflectors

Syntax:

spine	Configure Spines as route-reflectors
LIST	Route-reflector spine node name or ID list. Ex. spine1 or 103,105
TEXT	(Optional) Description

Command Mode: bgp : Border Gateway Protocol (BGP)

Command Path:

```
# configure [['terminal', 't']]
(config)# pod 1
(config-pod)# bgp fabric
(config-pod-bgp)# route-reflector spine <LIST> [description <TEXT>]
```

router-id

router-id <A.B.C.D|A:B::C:D>

Description: Set router-id for peer l4l7 device

Syntax:

A.B.C.D|A:B::C:D	IP address for the l4l7 peer

Command Mode: rtr-cfg : Configure l4l7 router configuration parameters

Command Path:

```
# configure [['terminal', 't']]
(config)# tenant <WORD>
(config-tenant)# rtr-cfg <WORD>
(rtr-cfg)# router-id <A.B.C.D|A:B::C:D>
```

router-id <A.B.C.D>

Description: Configure Router ID

Syntax:

A.B.C.D	Router ID Value

Command Mode: vrf : Configure VRF parameters

Command Path:

```
# configure [['terminal', 't']]
(config)# leaf <101-4000>
(config-leaf)# vrf context tenant <WORD> vrf <WORD> [l3out <l3out>]
(config-leaf-vrf)# router-id <A.B.C.D>
```

router bgp

router bgp <fabric-ASN>

Description: Border Gateway Protocol (BGP)

Syntax:

<fabric-ASN>	Autonomous System Number

Command Mode: leaf : Configure Leaf Node

Command Path:

```
# configure [['terminal', 't']]
(config)# leaf <101-4000>
(config-leaf)# router bgp <fabric-ASN>
```

router eigrp

router eigrp default

Description: Enhanced Interior Gateway Routing Protocol (EIGRP)

Syntax:

default	EIGRP process tag

Command Mode: leaf : Configure Leaf Node

Command Path:

```
# configure [['terminal', 't']]
(config)# leaf <101-4000>
(config-leaf)# router eigrp default
```

router ospf

router ospf default

Description: Open Shortest Path First (OSPF and OSPF Version3)

Syntax:

default	Process tag for ospf and ospfv3

Command Mode: leaf : Configure Leaf Node

Command Path:

```
# configure [['terminal', 't']]
(config)# leaf <101-4000>
(config-leaf)# router ospf default
```

rtr-cfg

rtr-cfg <WORD>

Description: Configure router configuration association for a l4l7 service.

Syntax:

WORD	router configuration name (Max Size 64)

Command Mode: service : Configure L4-L7 Service

Command Path:

```
# configure [['terminal', 't']]
(config)# tenant <WORD>
(config-tenant)# l4l7 graph <WORD> [contract <contract-option>]
(config-graph)# service <WORD> [device-cluster-tenant <WORD>] [device-cluster <WORD>] [mode
 <Available Modes>]
(config-service)# rtr-cfg <WORD>
```

rtr-cfg <WORD>

Description: Configure l4l7 router configuration parameters

Syntax:

WORD	router configuration name (Max Size 64)

Command Mode: tenant : tenant configuration mode

Command Path:

```
# configure [['terminal', 't']]
(config)# tenant <WORD>
(config-tenant)# rtr-cfg <WORD>
```

run-mode

run-mode pause-never|pause-on-failure

Description: Set run-mode

Syntax:

pause-never	Do not pause on failure
pause-on-failure	Pause upgrade if upgrade of current set of nodes fail

Command Mode: switch-group : Create switch firmware upgrade policy

Command Path:

```
# configure [['terminal', 't']]
(config)# firmware
(config-firmware)# switch-group <WORD>
(config-firmware-switch)# run-mode pause-never|pause-on-failure
```