



## R Commands

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# show radius-cfs

```
show radius-cfs [ __readonly__ [ <distr_status> ] [ <session_status> ] [ <session_db> ] [ <merge_status> ] ]
```

## Syntax Description

show	Show running system information
radius-cfs	Show radius cfs state
<i>__readonly__</i>	(Optional)
<i>distr_status</i>	(Optional) radius distribution status
<i>session_status</i>	(Optional) current session status
<i>session_db</i>	(Optional) status of session db
<i>merge_status</i>	(Optional) radius merge status

## Command Mode

- /exec

## show radius-server

```
show radius-server { <host> } [ __readonly__ { <host1> } [ <authen_port> ] [ <account_port> ] [ <share_key>
] [ <timeout> ] [ <retries> ] [ <secure_radius> ] [ <aid> ] <idle_tim> <test_user_name> <test_pwd> ]
```

### Syntax Description

show	Show running system information
radius-server	Show RADIUS configuration information
<i>host</i>	DNS name or IP address
<i>__readonly__</i>	(Optional)
<i>host1</i>	(Optional) DNS name or IP address
<i>authen_port</i>	(Optional) RADIUS server's port for authentication
<i>account_port</i>	(Optional) RADIUS server's port for accounting
<i>timeout</i>	(Optional) radius server timeout
<i>retries</i>	(Optional) radius server retry count
<i>secure_radius</i>	(Optional) secure radius enabled or not
<i>aid</i>	(Optional) Authority identity
<i>share_key</i>	(Optional) RADIUS shared secret
<i>test_user_name</i>	(Optional) User name in test packets
<i>test_pwd</i>	(Optional) User password in test packets
<i>idle_tim</i>	(Optional) Time interval for monitoring the server

### Command Mode

- /exec

## show radius-server

```
show radius-server [ __readonly__ [ <global_secretKey> ] { <global_timeout> <retransmissionCount>
<global_deadtime> } [ <global_source_intf> ] [ <global_idle_time> ] { [ <global_testUsername> ] [
<global_testPassword> ] } { <server_count> } [ TABLE_server <server_ip> [ <auth_port> ] [ <acct_port> ]
[ <secretKey> ] [ <timeout> ] [ <retries> ] ] [ { <host0> <auth_port> <acct_port> <shared_key>
<idle_time><test_username> <test_password> } + ] ]
```

### Syntax Description

show	Show running system information
radius-server	Show RADIUS configuration information
<i>__readonly__</i>	(Optional)
<i>global_secretKey</i>	(Optional) Global shared secret
<i>global_timeout</i>	(Optional) Global timeout for tacacs
<i>retransmissionCount</i>	(Optional) Retransmission count when there is no server response
<i>global_deadtime</i>	(Optional) Global deadtime
<i>global_source_intf</i>	(Optional) Radius global source interface
<i>global_idle_time</i>	(Optional) Radius global idle-time for server monitoring
<i>global_testUsername</i>	(Optional) Username of global test parameters
<i>global_testPassword</i>	(Optional) Password of global test parameters
<i>server_count</i>	(Optional) Total number of radius servers configured
TABLE_server	(Optional)
<i>server_ip</i>	(Optional) Ip address of the server
<i>auth_port</i>	(Optional) Authentication port used for this server
<i>acct_port</i>	(Optional) Accounting Port used for this server
<i>secretKey</i>	(Optional) Shared secret between the server and the tacacs client
<i>timeout</i>	(Optional) Timeout for this tacacs server
<i>retries</i>	(Optional) Retry count for individual servers
<i>host0</i>	(Optional) DNS name or IP address
<i>auth_port</i>	(Optional) RADIUS server's port for authentication
<i>acct_port</i>	(Optional) RADIUS server's port for accounting
<i>shared_key</i>	(Optional) RADIUS shared secret

<i>test_password</i>	(Optional) User password in test packets
----------------------	--

**Command Mode**

- /exec



# show radius-server directed-request

```
show radius-server directed-request [ __readonly__ { <radius_directedRequest_status> } ]
```

## Syntax Description

show	Show running system information
radius-server	Show RADIUS configuration information
directed-request	Show directed server enable configuration
__readonly__	(Optional)
<i>radius_directedRequest_status</i>	(Optional) status of radius-server directed request

## Command Mode

- /exec

## show radius-server groups

```
show radius-server groups [ <s0> ] [ __readonly__ [ <num_of_groups> ] TABLE_group <group_name> [
TABLE_server <server_ip> [ <auth_port> ] [ <acct_port> ] ] [ <dead_time> ] [ <vrf_name> ] [
<source_interface> ] ]
```

### Syntax Description

show	Show running system information
radius-server	Show RADIUS configuration information
groups	Show RADIUS server group configuration information
<i>s0</i>	(Optional) RADIUS server group name
<i>__readonly__</i>	(Optional)
<i>num_of_groups</i>	(Optional) number of groups
TABLE_group	(Optional)
<i>group_name</i>	(Optional) name of the group
TABLE_server	(Optional)
<i>server_ip</i>	(Optional) DNS name or IP address
<i>auth_port</i>	(Optional) radius server authentication port
<i>acct_port</i>	(Optional) radius server accounting port
<i>dead_time</i>	(Optional) Time interval for which the server is marked as dead before sending a test command
<i>vrf_name</i>	(Optional) name of the vrf
<i>source_interface</i>	(Optional) Interface Description

### Command Mode

- /exec

## show radius-server sorted

```
show radius-server sorted [ __readonly__ [ <global_secretKey> ] { <global_timeout> <retransmissionCount>
<global_deadtime> } [ <global_source_intf> ] [ <global_idle_time> ] { [ <global_testUsername> ] [
<global_testPassword> ] } { <server_count> } [ TABLE_server <server_ip> [ <auth_port> ] [ <acct_port> ]
[ <secretKey> ] [ <timeout> ] [ <retries> ] ] ]
```

### Syntax Description

show	Show running system information
radius-server	Show RADIUS configuration information
sorted	Show RADIUS servers sorted by name
<i>__readonly__</i>	(Optional)
<i>global_secretKey</i>	(Optional) Global shared secret
<i>global_timeout</i>	(Optional) Global timeout for tacacs
<i>retransmissionCount</i>	(Optional) Retransmission count when there is no server response
<i>global_deadtime</i>	(Optional) Global deadtime
<i>global_source_intf</i>	(Optional) Radius global source interface
<i>global_idle_time</i>	(Optional) Radius global idle-time for server monitoring
<i>global_testUsername</i>	(Optional) Username of global test parameters
<i>global_testPassword</i>	(Optional) Password of global test parameters
<i>server_count</i>	(Optional) Total number of radius servers configured
TABLE_server	(Optional)
<i>server_ip</i>	(Optional) Ip address of the server
<i>auth_port</i>	(Optional) Authentication port used for this server
<i>acct_port</i>	(Optional) Accounting Port used for this server
<i>secretKey</i>	(Optional) Shared secret between the server and the tacacs client
<i>timeout</i>	(Optional) Timeout for this tacacs server
<i>retries</i>	(Optional) Retry count for individual servers

### Command Mode

- /exec

## show radius-server statistics

```
show radius-server statistics <host0> [ __readonly__ { <server_state> [ <clock_time> { monitoring_statistics
<time_in_pstate> <ndead> <tt_in_dstate> } ] } { auth_statistics <auth_failed_transactions>
<auth_succ_transactions> <auth_req_sent> <auth_req_timedout> <auth_resp_no_match>
<auth_resp_not_processed> <auth_resp_error> } { acct_statistics <acct_failed_transactions>
<acct_succ_transactions> <acct_req_sent> <acct_req_timedout> <acct_resp_no_match>
<acct_resp_not_processed> <acct_resp_error> } } ]
```

### Syntax Description

show	Show running system information
radius-server	Show RADIUS configuration information
statistics	Show RADIUS statistics
<i>host0</i>	DNS name or IP address
<i>__readonly__</i>	(Optional)
<i>server_state</i>	(Optional) Show state of server
<i>clock_time</i>	(Optional) Show clock time in terms of hours, minutes and seconds
monitoring_statistics	(Optional) Monitoring Statistics
<i>time_in_pstate</i>	(Optional) Time in previous state
<i>ndead</i>	(Optional) Number of times dead
<i>tt_in_dstate</i>	(Optional) Total time in dead state
auth_statistics	(Optional) Authentication Statistics
acct_statistics	(Optional) Accounting Statistics
<i>auth_failed_transactions</i>	(Optional) Authentication: Failed transactions
<i>auth_succ_transactions</i>	(Optional) Authentication: Successful transactions
<i>auth_req_sent</i>	(Optional) Authentication: Requests sent
<i>auth_req_timedout</i>	(Optional) Authentication: Requests timedout
<i>auth_resp_no_match</i>	(Optional) Authentication: Responses with no matching requests
<i>auth_resp_not_processed</i>	(Optional) Authentication: Responses not processed
<i>auth_resp_error</i>	(Optional) Authentication: Responses containing errors
<i>acct_failed_transactions</i>	(Optional) Accounting: Failed transactions
<i>acct_succ_transactions</i>	(Optional) Accounting: Successful transactions

<i>acct_req_sent</i>	(Optional) Accounting: Requests sent
<i>acct_req_timeout</i>	(Optional) Accounting: Requests timeout
<i>acct_resp_no_match</i>	(Optional) Accounting: Responses with no matching requests
<i>acct_resp_not_processed</i>	(Optional) Accounting: Responses not processed
<i>acct_resp_error</i>	(Optional) Accounting: Responses containing errors

**Command Mode**

- /exec

## show radius status

```
show radius status [ __readonly__ [ <distr_status> ] [ <session_status> ] [ <session_owner> ] [ <session_db> ] [ <last_operation> ] [ <last_operation_status> ] [ <fail_code> ] ]
```

### Syntax Description

show	Show running system information
radius	Show RADIUS Information
status	Show RADIUS cfs distribution status
<i>__readonly__</i>	(Optional)
<i>distr_status</i>	(Optional) radius distribution status
<i>session_status</i>	(Optional) current session status
<i>session_owner</i>	(Optional) owner of the current distribution session
<i>session_db</i>	(Optional) status of session db
<i>last_operation</i>	(Optional) last_operation
<i>last_operation_status</i>	(Optional) status of the last operation
<i>fail_code</i>	(Optional) reason for the failure of last operation

### Command Mode

- /exec

# show redundancy status

```
show redundancy status [ __readonly__ <rmode_admin> <rmode_opr> <this_sup> <this_sup_rd_st>
<this_sup_sup_st> <this_sup_int_st> <oth_sup> <oth_sup_rd_st> <oth_sup_sup_st> <oth_sup_int_st>
<sys_strt_time> <sys_uptm_days> <sys_uptm_hrs> <sys_uptm_mins> <sys_uptm_secs> <kern_uptm_days>
<kern_uptm_hrs> <kern_uptm_mins> <kern_uptm_secs> <asup_uptm_days> <asup_uptm_hrs>
<asup_uptm_mins> <asup_uptm_secs> ]
```

## Syntax Description

show	
redundancy	Show system redundancy status
status	Current redundancy status
<i>__readonly__</i>	(Optional)
<i>rmode_admin</i>	(Optional)
<i>rmode_opr</i>	(Optional)
<i>this_sup</i>	(Optional)
<i>this_sup_rd_st</i>	(Optional)
<i>this_sup_sup_st</i>	(Optional)
<i>this_sup_int_st</i>	(Optional)
<i>oth_sup</i>	(Optional)
<i>oth_sup_rd_st</i>	(Optional)
<i>oth_sup_sup_st</i>	(Optional)
<i>oth_sup_int_st</i>	(Optional)
<i>sys_strt_time</i>	(Optional)
<i>sys_uptm_days</i>	(Optional)
<i>sys_uptm_hrs</i>	(Optional)
<i>sys_uptm_mins</i>	(Optional)
<i>sys_uptm_secs</i>	(Optional)
<i>kern_uptm_days</i>	(Optional)
<i>kern_uptm_hrs</i>	(Optional)
<i>kern_uptm_mins</i>	(Optional)
<i>kern_uptm_secs</i>	(Optional)

<i>asup_uptm_days</i>	(Optional)
<i>asup_uptm_hrs</i>	(Optional)
<i>asup_uptm_mins</i>	(Optional)
<i>asup_uptm_secs</i>	(Optional)

**Command Mode**

- /exec



# show regexp

```
show { ip mbgp [ vrf { <vrf-name> | <vrf-known-name> | ALL_VRFS_012345678901234 } ] | ip bgp [ vrf { <vrf-name> | <vrf-known-name> | ALL_VRFS_012345678901234 } ] all | ip bgp [ vrf { <vrf-name> | <vrf-known-name> | ALL_VRFS_012345678901234 } ] [ ipv4 { unicast | multicast } ] } regexp <regexp-str> [ vrf { <vrf-name> | <vrf-known-name> | ALL_VRFS_012345678901234 } ]
```

## Syntax Description

show	Show running system information
ip	Display IP information
bgp	Display BGP status and configuration
mbgp	Display MBGP status and configuration
vrf	(Optional) Virtual Router Context
<i>vrf-name</i>	(Optional) VRF name
<i>vrf-known-name</i>	(Optional) Known VRF name
ipv4	(Optional) Display BGP information for IPv4 address family
unicast	(Optional) Display BGP information for unicast address family
multicast	(Optional) Display BGP information for multicast address family
all	Display BGP information for all address families
regexp	Display routes matching the AS path regular expression
<i>regexp-str</i>	Regular expression to match the AS paths

## Command Mode

- /exec

# show resource

```
show resource [ <res-mgr-res-known-name> ] [ hidden-too | with-flags ] [ __readonly__ {
TABLE_vdc_resource_local <res_name> <min> <max> <used> <unused> <free> } ]
```

## Syntax Description

show	Show running system information
resource	Show resource configuration for VDC
<i>res-mgr-res-known-name</i>	(Optional) Resource name
hidden-too	(Optional) Also show hidden resources
with-flags	(Optional) Also show resource flags
__readonly__	(Optional) Read Only
TABLE_vdc_resource_local	(Optional)
<i>res_name</i>	(Optional) Resource Name
<i>min</i>	(Optional) Resource min configuration
<i>max</i>	(Optional) Resource max configuration
<i>used</i>	(Optional) Resource current usage for this VDC
<i>unused</i>	(Optional) Resource reserved for this VDC but currently not used
<i>free</i>	(Optional) Resource current free for this VDC

## Command Mode

- /exec

# show rmon

```
show rmon { alarms | events | hcalarms | info | logs } [ __readonly__ [ TABLE_rmon_alarm { <alarm-str>
<ascii-buf-str> <samp-type-str> <ris-trshod-str> <fall-trshod-str> <start-enable-str> } ] [ TABLE_rmon_event
{ <ev-alaran-str> <ev-desc-str> <ev-fir-cause> <last-fired> } ] [ TABLE_rmon_hcala { <hc-alaran-str>
<hc-ascii-buf-str> <hc-sam-ty-str> <hc-ris-thresh-str> <hc-fal-thresh-str> <start-alm-str> <fail-attem-str> }
] [ TABLE_rmon_info { <max-32-64-ala-str> <max-conf-32-ala-str> <max-conf-64-ala-str> } ] [
TABLE_rmon_log { <event-id-str> <rmon-pch> [ <log-buff-str> ] <log-oid> } ] ]
```

## Syntax Description

show	Show running system information
rmon	Display RMON statistics
alarms	Display the RMON alarm table
events	Display the RMON event table
hcalarms	Display the RMON HC(High Capacity) Alarm table
info	Display the RMON info
logs	Display the RMON event log table
__readonly__	(Optional)
TABLE_rmon_alarm	(Optional)
<i>alarm-str</i>	(Optional)
<i>ascii-buf-str</i>	(Optional)
<i>samp-type-str</i>	(Optional)
<i>ris-trshod-str</i>	(Optional)
<i>fall-trshod-str</i>	(Optional)
<i>start-enable-str</i>	(Optional)
TABLE_rmon_event	(Optional)
<i>ev-alaran-str</i>	(Optional)
<i>ev-desc-str</i>	(Optional)
<i>ev-fir-cause</i>	(Optional)
<i>last-fired</i>	(Optional)
TABLE_rmon_hcala	(Optional)
<i>hc-alaran-str</i>	(Optional)

<i>hc-ascii-buf-str</i>	(Optional)
<i>hc-sam-ty-str</i>	(Optional)
<i>hc-ris-thresh-str</i>	(Optional)
<i>hc-fal-thresh-str</i>	(Optional)
<i>start-alm-str</i>	(Optional)
<i>fail-attem-str</i>	(Optional)
TABLE_rmon_info	(Optional)
<i>max-32-64-ala-str</i>	(Optional)
<i>max-conf-32-ala-str</i>	(Optional)
<i>max-conf-64-ala-str</i>	(Optional)
TABLE_rmon_log	(Optional)
<i>event-id-str</i>	(Optional)
<i>rmon-pch</i>	(Optional)
<i>log-buff-str</i>	(Optional)
<i>log-oid</i>	(Optional)

**Command Mode**

- /exec

# show role

```
show role [ name <arg3> ] [ __readonly__ { TABLE_role <role_name> <role_description> [ <attribute_scope>
] [ <permit_vsan> ] [ <permit_vlan> ] [ <permit_vlan_id> ] [ <permit_interface> ] [ <permit_interface_slot>
] [ <permit_vrf> ] [ TABLE_vrf<permit_vrf_name> ] [ { TABLE_rule <rule_num> <rule_action> {
<rule_permission> | <rule_permission_mds> } [ <rule_featuretype> ] [ <rule_entity> } } } ]
```

## Syntax Description

show	Show running system information
role	Show role configuration
name	(Optional) Enter the role name
<i>arg3</i>	(Optional) Enter the role name
<i>__readonly__</i>	(Optional)
TABLE_role	(Optional)
<i>role_name</i>	(Optional)
<i>role_description</i>	(Optional)
<i>attribute_scope</i>	(Optional)
<i>permit_vsan</i>	(Optional)
<i>permit_vlan</i>	(Optional)
<i>permit_vlan_id</i>	(Optional)
<i>permit_interface</i>	(Optional)
<i>permit_interface_slot</i>	(Optional)
<i>permit_vrf</i>	(Optional)
TABLE_rule	(Optional)
<i>rule_num</i>	(Optional)
<i>rule_action</i>	(Optional)
<i>rule_permission</i>	(Optional)
<i>rule_permission_mds</i>	(Optional)
<i>rule_featuretype</i>	(Optional)
<i>rule_entity</i>	(Optional)

## Command Mode

- /exec

# show role feature-group

```
show role feature-group [ name <arg4> ] [ detail ] [ __readonly__ TABLE_role_feature_group
<feature_group_name> TABLE_role_feature <feature_name> [ TABLE_role_feature_rule <feature_rule> ]
]
```

## Syntax Description

show	Show running system information
role	Show role configuration
feature-group	Role feature group
name	(Optional) Enter the feature-group name
<i>arg4</i>	(Optional) Feature-group name
detail	(Optional) Detailed information including feature rules
<i>__readonly__</i>	(Optional)
TABLE_role_feature_group	(Optional)
<i>feature_group_name</i>	(Optional)
TABLE_role_feature	(Optional)
<i>feature_name</i>	(Optional)
TABLE_role_feature_rule	(Optional)
<i>feature_rule</i>	(Optional)

## Command Mode

- /exec

# show role feature

```
show role feature [ name <arg5> | detail ] [ __readonly__ TABLE_role_feature <feature_name> [
TABLE_role_feature_rule <feature_rule> ] ]
```

## Syntax Description

show	Show running system information
role	Show role configuration
feature	Role feature
name	(Optional) Enter the feature name
<i>arg5</i>	(Optional) Feature name
detail	(Optional) Detailed information including feature rules
<i>__readonly__</i>	(Optional)
TABLE_role_feature	(Optional)
<i>feature_name</i>	(Optional)
TABLE_role_feature_rule	(Optional)
<i>feature_rule</i>	(Optional)

## Command Mode

- /exec



# show rollback log exec

```
show rollback log { exec | verify } [ __readonly__ [ <log_entry> + ] ]
```

## Syntax Description

show	Show running system information
rollback	Show rollback
log	show rollback log
exec	show rollback execution log
verify	show rollback verify log
<i>__readonly__</i>	(Optional) Read only
<i>log_entry</i>	(Optional) log entry from rollback log

## Command Mode

- /exec

## show rollback status

```
show rollback status [ __readonly__ <last_operation> [ <rollback_type> ] [ <name> ] [ <start_time> ] [ <end_time> ] [ <operation_status> ] ]
```

### Syntax Description

show	Show running system information
rollback	show rollback
status	show status of last rollback operation
<i>__readonly__</i>	(Optional) Read only
<i>last_operation</i>	(Optional) last operation
<i>rollback_type</i>	(Optional) rollback type
<i>name</i>	(Optional) name
<i>start_time</i>	(Optional) start time
<i>end_time</i>	(Optional) end time
<i>operation_status</i>	(Optional) operation status

### Command Mode

- /exec

## show route-map

```
show route-map [ <route-map-name> | <route-map-cfg-name> ] [ __readonly__ TABLE_rmap <name>
<action> <seq> [ <descript> ] [ <continue> ] [ { TABLE_rmap_match <match_type> <match_stmt> } ] [ {
TABLE_rmap_set <set_type> <set_stmt> } ] ]
```

### Syntax Description

show	Show running system information
route-map	Route-map information
<i>route-map-name</i>	(Optional) Route-map name
<i>route-map-cfg-name</i>	(Optional) Known route-map name
<i>__readonly__</i>	(Optional)
TABLE_rmap	(Optional)
TABLE_rmap_match	(Optional)
TABLE_rmap_set	(Optional)
<i>name</i>	(Optional)
<i>action</i>	(Optional)
<i>seq</i>	(Optional)
<i>descript</i>	(Optional)
<i>continue</i>	(Optional)
<i>match_type</i>	(Optional)
<i>match_stmt</i>	(Optional)
<i>set_type</i>	(Optional)
<i>set_stmt</i>	(Optional)

### Command Mode

- /exec

# show route-map pbr-statistics

```
show route-map { <pbr_rmap_name> | <pbr_rmap_cfg_name> } pbr-statistics [ __readonly__ <tag> <action>
<seq> <pbr_pkt_count> <dflt_rtg_pkt_count> ]
```

## Syntax Description

show	Show running system information
route-map	Route-map information
<i>pbr_rmap_name</i>	Route-map name
<i>pbr_rmap_cfg_name</i>	Known route-map name
pbr-statistics	PBR statistics
<i>__readonly__</i>	(Optional)
<i>tag</i>	(Optional)
<i>action</i>	(Optional)
<i>seq</i>	(Optional)
<i>pbr_pkt_count</i>	(Optional)
<i>dflt_rtg_pkt_count</i>	(Optional)

## Command Mode

- /exec

# show router-guard

```
show router-guard [ vlan <vlan_id> ] [ __readonly__ [ TABLE_vlanid { <vlanid>
<globally-enabled-switch-port> } [ TABLE_if [ <disabled-if> ] ] ] ]
```

## Syntax Description

show	Show running system information
router-guard	Shows router guard config details for all interfaces
vlan	(Optional) Only for the specified VLAN
<i>vlan_id</i>	(Optional) VLAN ID
<i>__readonly__</i>	(Optional)
TABLE_vlanid	(Optional)
<i>vlanid</i>	(Optional)
<i>globally-enabled-switch-port</i>	(Optional)
TABLE_if	(Optional)
<i>disabled-if</i>	(Optional)

## Command Mode

- /exec

# show routing-context

```
show routing-context [ __readonly__ <routing-con> ]
```

## Syntax Description

show	Show running system information
routing-context	Display the current routing context
__readonly__	(Optional)
<i>routing-con</i>	(Optional)

## Command Mode

- /exec

# show routing-privilege

show routing-privilege

## Syntax Description

show	Show running system information
routing-privilege	Display the current privilege level

## Command Mode

- /exec

# show routing

```
show routing [ ip | ipv4 ] [ unicast ] [ topology <topology-name> ] [ l3vm-info ] [ rpf ] [ <ip-addr> | {
<ip-prefix> [ { longer-prefixes | shorter-prefixes } ] ] [ { <protocol> [ all ] } | { next-hop <next-hop> |
next-hop-v6 <next-hop-v6> } ] [ interface <interface> ] [ updated { [ since <stime> ] [ until <utime> ] } ] }
] + [ summary | detail ] [ vrf { <vrf-name> | <vrf-known-name> | <vrf-all> } ] [ __readonly__ TABLE_vrf
<vrf-name-out> TABLE_addrf <addrf> [ TABLE_prefix <ipprefix> <ucast-nhops> <mcast-nhops> <attached>
TABLE_path [ <ipnextrhop> ] [ <ifname> ] <uptime> <pref> <metric> <clientname> [ <type> ] [ <tag> ] [
<stale> ] [ <unres> ] [ <hidden> ] [ <stale-label> ] [ <ubest> ] [ <mbest> ] ] [ TABLE_summary <routes>
<paths> [ <multicast_paths> ] [ TABLE_unicast [ <clientnameuni> ] [ <best-paths> ] [ <backup-paths> ] ] [
TABLE_multicast [ <clientnamemulti> ] [ <best-paths> ] [ <backup-paths> ] ] [ TABLE_route_count [
<mask_len> ] [ <count> ] ] ] ] ]
```

## Syntax Description

show	Show running system information
routing	Display routing information
vrf	(Optional) Display per-VRF information
<i>vrf-name</i>	(Optional) VRF name
<i>vrf-known-name</i>	(Optional) Known VRF name
vrf-all	(Optional) Display information for all VRFs
ip	(Optional) Display IP information
ipv4	(Optional) Display IP information
unicast	(Optional) Display unicast information
topology	(Optional) Display per-topology information
<i>topology-name</i>	(Optional) topology name
l3vm-info	(Optional) Display corresponding L3VM information
rpf	(Optional) Display RPF information for multicast source
<i>ip-addr</i>	(Optional) Display single route longest match lookup
<i>ip-prefix</i>	(Optional) Display single exact match route
longer-prefixes	(Optional) Display matching routes with mask-lengths $\geq$ prefix
shorter-prefixes	(Optional) Display matching routes with mask-lengths $\leq$ prefix
<i>protocol</i>	(Optional) Display routes for protocol (or route type)
all	(Optional) Display routes for protocol for backup next-hops too
next-hop	(Optional) Display routes with this next-hop only



<i>next-hop</i>	(Optional) Next hop address
next-hop-v6	(Optional) Display routes with this V6 next-hop only
interface	(Optional) Display routes with this output interface only
<i>interface</i>	(Optional) Interface Name
updated	(Optional) Display routes filtered by last updated time
since	(Optional) Display those routes updated since this time
<i>stime</i>	(Optional) Since this date/time [[CC]YY-][MM-DD-]HH:MM[:SS]
until	(Optional) Display those routes updated until this time
<i>utime</i>	(Optional) Until this date/time [[CC]YY-][MM-DD-]HH:MM[:SS]
summary	(Optional) Display route counts
detail	(Optional) Display routes in full detail
<u>__readonly__</u>	(Optional)
TABLE_vrf	(Optional)
<i>vrf-name-out</i>	(Optional)
TABLE_addrf	(Optional)
<i>addrf</i>	(Optional)
TABLE_prefix	(Optional)
<i>ipprefix</i>	(Optional)
<i>ucast-nhops</i>	(Optional)
<i>mcast-nhops</i>	(Optional)
<i>attached</i>	(Optional)
TABLE_path	(Optional)
<i>ipnexthop</i>	(Optional)
<i>ifname</i>	(Optional)
<i>uptime</i>	(Optional)
<i>pref</i>	(Optional)
<i>metric</i>	(Optional)
<i>clientname</i>	(Optional)
<i>type</i>	(Optional)

<i>tag</i>	(Optional)
<i>stale</i>	(Optional)
<i>unres</i>	(Optional)
<i>hidden</i>	(Optional)
<i>stale-label</i>	(Optional)
<i>ubest</i>	(Optional)
<i>mbest</i>	(Optional)
TABLE_summary	(Optional)
<i>routes</i>	(Optional)
<i>paths</i>	(Optional)
<i>multicast_paths</i>	(Optional)
TABLE_unicast	(Optional)
<i>clientnameuni</i>	(Optional)
<i>best-paths</i>	(Optional)
<i>backup-paths</i>	(Optional)
TABLE_multicast	(Optional)
<i>clientnamemulti</i>	(Optional)
<i>best-paths</i>	(Optional)
<i>backup-paths</i>	(Optional)
TABLE_route_count	(Optional)
<i>mask_len</i>	(Optional)
<i>count</i>	(Optional)

**Command Mode**

- /exec

## show routing clients

```
show routing [ vrf { <vrf-name> | <vrf-known-name> | <vrf-all> } ] [ ip | ipv4 ] [ unicast ] [ topology
<topology-name> ] clients [ <client> | <protocol> ] [ __readonly__ { TABLE_client <client_name>
<pib_index> <epid> [ <mts_sap> ] [ <mts_sap_str> ] <mru_cache_hits> <mru_cache_misses> <pib_stale_time>
<pss_created> [ <bad_l3vm_table_refcount> ] [ <pib_stale_timer> ] [ { TABLE_nib_node
<uribtibtype_contextname> [ <all_igp> ] [ <self> ] [ <all> ] [ <unib_notify_mask> ] <routes> <rnhs> <labels>
[ <convg_req_mask> ] [ <convg_send_mask> ] [ <utib_state> ] [ <pending_timer> ] [ <urib_state_invalid>
} ] [ { TABLE_msgs_rcvd <urib_mtype_str> <upib_rcvd> } ] [ { TABLE_msgs_sent <urib_mtype_str>
<upib_sent> } ] ] ]
```

### Syntax Description

show	Show running system information
routing	Display routing information
vrf	(Optional) Display per-VRF information
<i>vrf-name</i>	(Optional) VRF name
<i>vrf-known-name</i>	(Optional) Known VRF name
vrf-all	(Optional) Display information for all VRFs
topology	(Optional) Display per-topology information
<i>topology-name</i>	(Optional) topology name
ip	(Optional) Display IP information
ipv4	(Optional) Display IP information
unicast	(Optional) Display unicast information
clients	Display urib client information
<i>client</i>	(Optional) Display single urib client information
<i>protocol</i>	(Optional) Display single urib client information
__readonly__	(Optional)
TABLE_client	(Optional)
<i>client_name</i>	(Optional)
<i>pib_index</i>	(Optional)
<i>epid</i>	(Optional)
<i>mts_sap</i>	(Optional)
<i>mts_sap_str</i>	(Optional)

<i>mru_cache_hits</i>	(Optional)
<i>mru_cache_misses</i>	(Optional)
<i>pib_stale_time</i>	(Optional)
<i>pss_created</i>	(Optional)
<i>bad_l3vm_table_refcount</i>	(Optional)
<i>pib_stale_timer</i>	(Optional)
TABLE_nib_node	(Optional)
<i>uribtibtype_contextname</i>	(Optional)
<i>all_igp</i>	(Optional)
<i>self</i>	(Optional)
<i>all</i>	(Optional)
<i>unib_notify_mask</i>	(Optional)
<i>routes</i>	(Optional)
<i>rnhs</i>	(Optional)
<i>labels</i>	(Optional)
<i>convg_req_mask</i>	(Optional)
<i>convg_send_mask</i>	(Optional)
<i>utib_state</i>	(Optional)
<i>pending_timer</i>	(Optional)
<i>urib_state_invalid</i>	(Optional)
TABLE_msgs_rcvd	(Optional)
<i>urib_mtype_str</i>	(Optional)
<i>upib_rcvd</i>	(Optional)
TABLE_msgs_sent	(Optional)
<i>urib_mtype_str</i>	(Optional)
<i>upib_sent</i>	(Optional)

**Command Mode**

- /exec

## show routing event-history

```
show routing [ ip | ipv4 ] [ unicast ] [ internal ] event-history { statistics | msgs | { { add-route | cli | delete-route
| detail | dme | errors | general | ha | loop-detection | modify-route | notifications | recursive-next-hop | summary
| ufdm | ufdm-detail | ufdm-summary } [ filter [ vrf { <vrf-name> | <vrf-known-name> | <vrf-all> } ] [ client
{ <client> | <protocol> } ] [ prefix-list <pfxlist-name> ] ] } }
```

### Syntax Description

show	Show running system information
routing	Display routing information
ip	(Optional) Display IP information
ipv4	(Optional) Display IP information
unicast	(Optional) Display unicast information
internal	(Optional) Commands for internal use
event-history	Show routing event log
statistics	Show routing event log Statistics
msgs	Show routing message event log
add-route	Add route
cli	CLI
delete-route	Delete route
detail	Detail
dme	DME
errors	Errors
general	General
ha	HA
loop-detection	Loop detection
modify-route	Modify route
notifications	Notification
recursive-next-hop	Recursive next hop
summary	Summary
ufdm	UFDM

ufdm-detail	UFDM Detail
ufdm-summary	UFDM Summary
filter	(Optional) Filter event log
vrf	(Optional) Filter VRF
<i>vrf-name</i>	(Optional) VRF name
<i>vrf-known-name</i>	(Optional) Known VRF name
vrf-all	(Optional) Filter for all VRFs
client	(Optional) Filter by client
<i>client</i>	(Optional) Filter by single urib client
<i>protocol</i>	(Optional) Filter by single urib client
prefix-list	(Optional) Filter by IPv4 prefix-list
<i>pxlist-name</i>	(Optional) IPv4 prefix list name

**Command Mode**

- /exec

## show routing hash

```
show routing [ vrf { <vrf-name> | <vrf-known-name> | <vrf-all> } ] [ ip | ipv4 ] [ unicast ] [ topology
<topology-name> ] hash <source> <dest> [ ip-proto <ip-proto> ] [ <src-port> <dest-port> ] [ in-interface
<in-interface> ] [ module <module-id> ] [ vrf { <vrf-name> | <vrf-known-name> | <vrf-all> } ] [ __readonly__
TABLE_vrf <vrf-name-out> TABLE_addrf <addrf> TABLE_hashpath <mcast> <hashpath> <hash-val>
TABLE_prefix <ipprefix> <ucast-nhops> <mcast-nhops> <attached> TABLE_path <ubest> <mbest>
<ipnexthop> <ifname> <pref> <metric> <uptime> <clientname> [ <type> ] [ <tag> ] [ <stale> ] [ <unres> ]
[ <hidden> ] [ <stale-label> ] ]
```

### Syntax Description

show	Show running system information
routing	Display routing information
vrf	(Optional) Display per-VRF information
<i>vrf-name</i>	(Optional) VRF name
<i>vrf-known-name</i>	(Optional) Known VRF name
vrf-all	(Optional) Display information for all VRFs
ip	(Optional) Display IP information
ipv4	(Optional) Display IP information
unicast	(Optional) Display unicast information
topology	(Optional) Display per-topology information
<i>topology-name</i>	(Optional) topology name
hash	Display load-balancing hash information
<i>source</i>	Source IPv4 address of unicast flow or group address for multicast flow
<i>dest</i>	Destination IPv4 address of unicast flow or source address for multicast flow
<i>src-port</i>	(Optional) Source-port
<i>dest-port</i>	(Optional) Destination-port
in-interface	(Optional) Incoming Interface for Packet.Option valid on Tomahawk platform only
<i>in-interface</i>	(Optional) Interface Name
ip-proto	(Optional) IP Protocol information for the packet
<i>ip-proto</i>	(Optional) IP Protocol information for the packet
module	(Optional) Module

<i>module-id</i>	(Optional) Module
<i>__readonly__</i>	(Optional)
TABLE_vrf	(Optional)
<i>vrf-name-out</i>	(Optional)
TABLE_addrf	(Optional)
<i>addrf</i>	(Optional)
TABLE_hashpath	(Optional)
<i>mcast</i>	(Optional)
<i>hashpath</i>	(Optional)
<i>hash-val</i>	(Optional)
TABLE_prefix	(Optional)
<i>ipprefix</i>	(Optional)
<i>ucast-nhops</i>	(Optional)
<i>mcast-nhops</i>	(Optional)
<i>attached</i>	(Optional)
TABLE_path	(Optional)
<i>ubest</i>	(Optional)
<i>mbest</i>	(Optional)
<i>ipnexthop</i>	(Optional)
<i>ifname</i>	(Optional)
<i>pref</i>	(Optional)
<i>metric</i>	(Optional)
<i>uptime</i>	(Optional)
<i>clientname</i>	(Optional)
<i>type</i>	(Optional)
<i>tag</i>	(Optional)
<i>stale</i>	(Optional)
<i>unres</i>	(Optional)
<i>hidden</i>	(Optional)



<i>stale-label</i>	(Optional)
--------------------	------------

**Command Mode**

- /exec

## show routing hidden-nh

```
show routing [ vrf { <vrf-name> | <vrf-known-name> | <vrf-all> } ] [ ip | ipv4 ] [ unicast ] [ topology
<topology-name> ] hidden-nh [ __readonly__ <uribtibtype_contextname> [ <utibtibtype_topologyname> ]
{ TABLE_hidden_nh <hidden_nh_uhn_prefix> <hidden_nh_uhn_mask_len> <pib> <rnh> <rnh_mask_len>
} ]
```

### Syntax Description

show	Show running system information
routing	Display routing information
vrf	(Optional) Display per-VRF information
<i>vrf-name</i>	(Optional) VRF name
<i>vrf-known-name</i>	(Optional) Known VRF name
vrf-all	(Optional) Display information for all VRFs
ip	(Optional) Display IP information
ipv4	(Optional) Display IP information
unicast	(Optional) Display unicast information
topology	(Optional) Display per-topology information
<i>topology-name</i>	(Optional) topology name
hidden-nh	Display hidden next-hop information
<i>__readonly__</i>	(Optional)
<i>uribtibtype_contextname</i>	(Optional)
<i>utibtibtype_topologyname</i>	(Optional)
TABLE_hidden_nh	(Optional)
<i>hidden_nh_uhn_prefix</i>	(Optional)
<i>hidden_nh_uhn_mask_len</i>	(Optional)
<i>pib</i>	(Optional)
<i>rnh</i>	(Optional)
<i>rnh_mask_len</i>	(Optional)

### Command Mode

- /exec

## show routing ipv6

```
show routing ipv6 [ unicast ] [ topology <topology-name> ] [ l3vm-info ] [ rpf ] [ <ipv6-addr> | { <ipv6-prefix>
[ { longer-prefixes | shorter-prefixes } ] } ] [ { <ipv6-protocol> [ all ] } | { next-hop <next-hop> } | { interface
<interface> } | { updated { [ since <stime> ] [ until <utime> ] } } ] + [ summary | { [ detail ] [ deleted ] } ] [
vrf { <vrf-name> | <vrf-known-name> | <vrf-all> } ] [ __readonly__ TABLE_vrf <vrf-name-out> TABLE_addrf
<addrf> [ TABLE_prefix <ipprefix> <ucast-nhops> <mcast-nhops> <attached> TABLE_path [ <ubest> ] [
<mbest> ] [ <ipnexthop> ] [ <ifname> ] <uptime> <pref> <metric> <clientname> [ <type> ] [ <tag> ] [ <stale>
] [ <stalebl> ] [ <hidden> ] ] [ TABLE_summary <routes> <paths> [ <multicast_paths> ] [ TABLE_unicast
[ <clientnameuni> ] [ <best-paths> ] [ <backup-paths> ] ] [ TABLE_multicast [ <clientnamemulti> ] [
<best-paths> ] [ <backup-paths> ] ] [ TABLE_route_count [ <mask_len> ] [ <count> ] ] ] ]
```

### Syntax Description

show	Show running system information
routing	Display routing information
ipv6	Display IPv6 information
vrf	(Optional) Display per-VRF information
<i>vrf-name</i>	(Optional) VRF name
<i>vrf-known-name</i>	(Optional) Known VRF name
vrf-all	(Optional) Display information for all VRFs
unicast	(Optional) Display unicast information
topology	(Optional) Display per-topology information
<i>topology-name</i>	(Optional) topology name
l3vm-info	(Optional) Display corresponding L3VM information
rpf	(Optional) Display RPF information for multicast source
longer-prefixes	(Optional) Display matching routes with mask-lengths >= prefix
shorter-prefixes	(Optional) Display matching routes with mask-lengths <= prefix
<i>ipv6-protocol</i>	(Optional) Display routes for protocol (or route type)
all	(Optional) Display routes for protocol for backup next-hops too
next-hop	(Optional) Display routes with this next-hop only
interface	(Optional) Display routes with this output interface only
<i>interface</i>	(Optional) Interface Name
updated	(Optional) Display routes filtered by last updated time
since	(Optional) Display those routes updated since this time

<i>stime</i>	(Optional) Since this date/time [[CC]YY-][MM-DD-]HH:MM[:SS]
<i>until</i>	(Optional) Display those routes updated until this time
<i>utime</i>	(Optional) Until this date/time [[CC]YY-][MM-DD-]HH:MM[:SS]
<i>summary</i>	(Optional) Display route counts
<i>deleted</i>	(Optional) Display delete-pending routes also
<i>detail</i>	(Optional) Display routes in full detail
<i>__readonly__</i>	(Optional)
<i>TABLE_vrf</i>	(Optional)
<i>vrf-name-out</i>	(Optional)
<i>TABLE_addrf</i>	(Optional)
<i>addrf</i>	(Optional)
<i>TABLE_prefix</i>	(Optional)
<i>ucast-nhops</i>	(Optional)
<i>mcast-nhops</i>	(Optional)
<i>attached</i>	(Optional)
<i>TABLE_path</i>	(Optional)
<i>ubest</i>	(Optional)
<i>mbest</i>	(Optional)
<i>ifname</i>	(Optional)
<i>pref</i>	(Optional)
<i>tag</i>	(Optional)
<i>metric</i>	(Optional)
<i>uptime</i>	(Optional)
<i>clientname</i>	(Optional)
<i>type</i>	(Optional)
<i>stale</i>	(Optional)
<i>stalelbl</i>	(Optional)
<i>hidden</i>	(Optional)
<i>TABLE_summary</i>	(Optional)

<i>routes</i>	(Optional)
<i>paths</i>	(Optional)
<i>multicast_paths</i>	(Optional)
TABLE_unicast	(Optional)
<i>clientnameuni</i>	(Optional)
<i>best-paths</i>	(Optional)
<i>backup-paths</i>	(Optional)
TABLE_multicast	(Optional)
<i>clientnamemulti</i>	(Optional)
<i>best-paths</i>	(Optional)
<i>backup-paths</i>	(Optional)
TABLE_route_count	(Optional)
<i>mask_len</i>	(Optional)
<i>count</i>	(Optional)

**Command Mode**

- /exec

## show routing ipv6 clients

```
show routing [ vrf { <vrf-name> | <vrf-known-name> | <vrf-all> } ] ipv6 [ unicast ] [ topology <topology-name> ]
clients [ <client> | <ipv6-protocol> ] [ vrf { <vrf-name> | <vrf-known-name> | <vrf-all> } ] [ __readonly__
{ TABLE_client <client_name> <pib_index> <pib_state> <pib_id> <multicast_or_unicast_pib>
<mru_cache_hits> <mru_cache_misses> [ <mts_sap> ] [ <mts_sap_str> ] [ <bad_l3vm_table_refcount> ]
<pib_stale_time> [ { TABLE_nib_node <u6ribtibtype_contextname> <routes> <rnhs> [ {
TABLE_notiffee_mask [ <u6pib_name> ] [ <index> } ] ] [ <u6tib_state> ] [ <pending_timer> ] [
<u6rib_state_invalid> ] [ <u6nib_notifier_all> ] [ { TABLE_notify_rcd <notify_rcd_name>
<notify_rcd_handle> [ <notifier_pib_u6pib_index> } ] ] [ { TABLE_notiffee_nib <notiffee_pib_u6pib_name>
<u6nib_notify_handle> } ] ] ] [ { TABLE_ready_client_event_queue <queue_name><queue_count> [ {
TABLE_client_event <event> <use_buf> <sched> <resend> <buf> [ <state> } ] } ] ] [ {
TABLE_buffer_rqst_client_event_queue <queue_name><queue_count> [ { TABLE_client_event <event>
<use_buf> <sched> <resend> <buf> [ <state> } ] } ] ] [ <update_ack_queue_count> [ { TABLE_update_ack
<update_ack> <update_ack_data> <update_ack_type> <update_ack_xid> } ] ] [ {
TABLE_route_buffer_used_queue <queue_name> <queue_count> [ { TABLE_clt_buf
<clt_buf><clt_buf_count><clt_buf_xid> } ] } ] ] [ { TABLE_rnh_buffer_used_queue <queue_name>
<queue_count> [ { TABLE_clt_buf <clt_buf><clt_buf_count><clt_buf_xid> } ] } ] ] [ { TABLE_msgs_rcvd
<u6rib_mtype_str><u6pib_rcvd> } ] [ { TABLE_msgs_sent <u6rib_mtype_str><u6pib_sent> } ] } ] ]
```

### Syntax Description

show	Show running system information
routing	Display routing information
vrf	(Optional) Display per-VRF information
<i>vrf-name</i>	(Optional) VRF name
<i>vrf-known-name</i>	(Optional) Known VRF name
vrf-all	(Optional) Display information for all VRFs
ipv6	Display IPv6 information
unicast	(Optional) Display unicast information
topology	(Optional) Display per-topology information
<i>topology-name</i>	(Optional) topology name
clients	Display u6rib client information
<i>client</i>	(Optional) Display single u6rib client information
<i>ipv6-protocol</i>	(Optional) Display single u6rib client information
__readonly__	(Optional)
TABLE_client	(Optional)
<i>client_name</i>	(Optional)

<i>plib_index</i>	(Optional)
<i>plib_state</i>	(Optional)
<i>plib_id</i>	(Optional)
<i>multicast_or_unicast_plib</i>	(Optional)
<i>mru_cache_hits</i>	(Optional)
<i>mru_cache_misses</i>	(Optional)
<i>mts_sap</i>	(Optional)
<i>mts_sap_str</i>	(Optional)
<i>bad_l3vm_table_refcount</i>	(Optional)
<i>plib_stale_time</i>	(Optional)
TABLE_nib_node	(Optional)
<i>u6ribtibtype_contextname</i>	(Optional)
<i>routes</i>	(Optional)
<i>rnhs</i>	(Optional)
TABLE_notiffee_mask	(Optional)
<i>u6plib_name</i>	(Optional)
<i>index</i>	(Optional)
<i>u6tib_state</i>	(Optional)
<i>pending_timer</i>	(Optional)
<i>u6rib_state_invalid</i>	(Optional)
<i>u6nib_notifier_all</i>	(Optional)
TABLE_notify_rcd	(Optional)
<i>notify_rcd_name</i>	(Optional)
<i>notify_rcd_handle</i>	(Optional)
<i>notifier_plib_u6plib_index</i>	(Optional)
TABLE_notiffee_nib	(Optional)
<i>notiffee_plib_u6plib_name</i>	(Optional)
<i>u6nib_notify_handle</i>	(Optional)
TABLE_ready_client_event_queue	(Optional)

<i>queue_name</i>	(Optional)
<i>queue_count</i>	(Optional)
TABLE_client_event	(Optional)
<i>event</i>	(Optional)
<i>use_buf</i>	(Optional)
<i>sched</i>	(Optional)
<i>resend</i>	(Optional)
<i>buf</i>	(Optional)
<i>state</i>	(Optional)
TABLE_buffer_rqst_client_event_queue	(Optional)
<i>queue_name</i>	(Optional)
<i>queue_count</i>	(Optional)
TABLE_client_event	(Optional)
<i>event</i>	(Optional)
<i>use_buf</i>	(Optional)
<i>sched</i>	(Optional)
<i>resend</i>	(Optional)
<i>buf</i>	(Optional)
<i>state</i>	(Optional)
<i>update_ack_queue_count</i>	(Optional)
TABLE_update_ack	(Optional)
<i>update_ack</i>	(Optional)
<i>update_ack_data</i>	(Optional)
<i>update_ack_type</i>	(Optional)
<i>update_ack_xid</i>	(Optional)
TABLE_route_buffer_used_queue	(Optional)
TABLE_clt_buf	(Optional)
TABLE_rnh_buffer_used_queue	(Optional)
TABLE_clt_buf	(Optional)



TABLE_msgs_rcvd	(Optional)
TABLE_msgs_sent	(Optional)

**Command Mode**

- /exec

# show routing ipv6 event-history

show routing ipv6 [ unicast ] [ internal ] event-history { statistics | msgs | am | cli | detail | errors | general | ha | lfe | recursive-next-hop | summary | ufdm | ufdm-detail | ufdm-summary }

## Syntax Description

show	Show running system information
routing	Display routing information
ipv6	Display IPv6 information
unicast	(Optional) Display unicast information
internal	(Optional) Commands for internal use
event-history	Show routing event log
statistics	Show routing event log Statistics
msgs	Show routing message event log
am	AM
cli	CLI
detail	Detail
errors	Errors
general	General
ha	HA
lfe	LFE
recursive-next-hop	Recursive next hop
summary	Summary
ufdm	UFDM
ufdm-detail	UFDM Detail
ufdm-summary	UFDM Summary

## Command Mode

- /exec

## show routing ipv6 hash

```
show routing [ vrf { <vrf-name> | <vrf-known-name> | <vrf-all> } ] ipv6 [ unicast ] [ topology <topology-name> ] hash [ mpls <ipv6-prefix> [ eos ] ] <source> <dest> [ ip-proto <ip-proto> ] [ <src-port> <dest-port> ] [ in-interface <in-interface> ] [ module <module-id> ] [ vrf { <vrf-name> | <vrf-known-name> | <vrf-all> } ] [ __readonly__ TABLE_vrf <vrf-name-out> [ <hash-type> ] [ <mcast> ] [ <hashpath> ] TABLE_prefix <ipprefix> <ucast-nhops> <mcast-nhops> <attached> TABLE_path [ <ubest> ] [ <mbest> ] [ <ipnexthop> ] [ <ifname> ] <uptime> <pref> <metric> <clientname> [ <type> ] [ <tag> ] [ <stale> ] [ <hidden> ] ]
```

### Syntax Description

show	Show running system information
routing	Display routing information
vrf	(Optional) Display per-VRF information
<i>vrf-name</i>	(Optional) VRF name
<i>vrf-known-name</i>	(Optional) Known VRF name
vrf-all	(Optional) Display information for all VRFs
ipv6	Display IPv6 information
unicast	(Optional) Display unicast information
topology	(Optional) Display per-topology information
<i>topology-name</i>	(Optional) topology name
hash	Display load-balancing hash information
mpls	(Optional) MPLS path load-balancing hash information
eos	(Optional) Set End-of-Stack to 1
ip-proto	(Optional) IP Protocol information for the packet
<i>ip-proto</i>	(Optional) IP Protocol information for the packet
<i>src-port</i>	(Optional) Source-port
<i>dest-port</i>	(Optional) Destination-port
in-interface	(Optional) Incoming Interface for Packet.Option valid on Tomahawk platform only.
<i>in-interface</i>	(Optional) Interface Name
module	(Optional) Module
<i>module-id</i>	(Optional) Module
__readonly__	(Optional)

TABLE_vrf	(Optional)
<i>vrf-name-out</i>	(Optional)
<i>hash-type</i>	(Optional)
<i>mcast</i>	(Optional)
<i>hashpath</i>	(Optional)
TABLE_prefix	(Optional)
<i>ipprefix</i>	(Optional)
<i>ucast-nhops</i>	(Optional)
<i>mcast-nhops</i>	(Optional)
<i>attached</i>	(Optional)
TABLE_path	(Optional)
<i>ubest</i>	(Optional)
<i>mbest</i>	(Optional)
<i>ifname</i>	(Optional)
<i>pref</i>	(Optional)
<i>tag</i>	(Optional)
<i>metric</i>	(Optional)
<i>uptime</i>	(Optional)
<i>clientname</i>	(Optional)
<i>type</i>	(Optional)
<i>stale</i>	(Optional)
<i>hidden</i>	(Optional)

**Command Mode**

- /exec

## show routing ipv6 hidden-nh

```
show routing [ vrf { <vrf-name> | <vrf-known-name> | <vrf-all> } ] ipv6 [ unicast ] [ topology <topology-name> ] hidden-nh [ __readonly__ <uribtibtype_contextname> { TABLE_hidden_nh <nh> <nh-iod> <hidden_nh_uhn_prefix> <hidden_nh_uhn_mask_len> <pib> <rnh> <rnh_mask_len> } ]
```

### Syntax Description

show	Show running system information
routing	Display routing information
vrf	(Optional) Display per-VRF information
<i>vrf-name</i>	(Optional) VRF name
<i>vrf-known-name</i>	(Optional) Known VRF name
vrf-all	(Optional) Display information for all VRFs
ipv6	Display IPv6 information
unicast	(Optional) Display unicast information
topology	(Optional) Display per-topology information
<i>topology-name</i>	(Optional) topology name
hidden-nh	Display hidden next-hop information
<i>__readonly__</i>	(Optional)
<i>uribtibtype_contextname</i>	(Optional)
TABLE_hidden_nh	(Optional)
<i>nh</i>	(Optional)
<i>nh-iod</i>	(Optional)
<i>hidden_nh_uhn_prefix</i>	(Optional)
<i>hidden_nh_uhn_mask_len</i>	(Optional)
<i>pib</i>	(Optional)
<i>rnh</i>	(Optional)
<i>rnh_mask_len</i>	(Optional)

### Command Mode

- /exec

## show routing ipv6 memory estimate

```
show routing ipv6 [ unicast ] memory estimate [ routes <route-count> next-hops <nh-count> ] [ labels ] [
__readonly__ <curr-max-MB> <curr-max-routes> <curr-max-nh> <inuse-MB> <inuse-routes> <inuse-nh>
<conf-max-MB> <conf-max-routes> <conf-max-nh> [ <est-MB> <est-routes> <est-nh> ] ]
```

### Syntax Description

show	Show running system information
routing	Display routing information
ipv6	Display IPv6 information
unicast	(Optional) Display unicast information
memory	Display u6rib memory information
estimate	Display u6rib memory estimate
routes	(Optional) Display u6rib memory estimate for # routes
<i>route-count</i>	(Optional) Number of routes
next-hops	(Optional) Display u6rib memory estimate for # next-hops per route
<i>nh-count</i>	(Optional) Number of next-hops per route
labels	(Optional) When the routes are associated with next hop labels
<i>__readonly__</i>	(Optional)
<i>curr-max-MB</i>	(Optional)
<i>curr-max-routes</i>	(Optional)
<i>curr-max-nh</i>	(Optional)
<i>inuse-MB</i>	(Optional)
<i>inuse-routes</i>	(Optional)
<i>inuse-nh</i>	(Optional)
<i>conf-max-MB</i>	(Optional)
<i>conf-max-routes</i>	(Optional)
<i>conf-max-nh</i>	(Optional)
<i>est-MB</i>	(Optional)
<i>est-routes</i>	(Optional)
<i>est-nh</i>	(Optional)

**Command Mode**

- /exec

## show routing ipv6 memory statistics

```
show routing ipv6 [ unicast ] memory statistics [ __readonly__ { TABLE_shrd_mem <rbuf-alloc>
<rbuf-high-water> <rbuf-max> <rbuf-numalloc> <slbs-alloc> <slbs-high-water> <slbs-max> <slbs-numalloc>
} { TABLE_u6rib_slabs <slab-name> <alloc-count> <max-allocs> <slab-size> } { TABLE_u6rib_blks
<slab-blk-name> <block-count> <max-blocks> <slab-count> } { TABLE_u6rib_routes_rnhs <ctx-name>
<user-nodes> <total-nodes> <elem-size> } ]
```

### Syntax Description

show	Show running system information
routing	Display routing information
ipv6	Display IPv6 information
unicast	(Optional) Display unicast routing information
memory	Display u6rib memory information
statistics	Display u6rib memory statistics
<i>__readonly__</i>	(Optional)
<i>TABLE_shrd_mem</i>	(Optional)
<i>TABLE_u6rib_slabs</i>	(Optional)
<i>TABLE_u6rib_blks</i>	(Optional)
<i>TABLE_u6rib_routes_rnhs</i>	(Optional)
<i>ctx-name</i>	(Optional)
<i>slab-name</i>	(Optional)
<i>slab-blk-name</i>	(Optional)
<i>rbuf-alloc</i>	(Optional)
<i>rbuf-high-water</i>	(Optional)
<i>rbuf-max</i>	(Optional)
<i>rbuf-numalloc</i>	(Optional)
<i>slbs-alloc</i>	(Optional)
<i>slbs-high-water</i>	(Optional)
<i>slbs-max</i>	(Optional)
<i>slbs-numalloc</i>	(Optional)
<i>user-nodes</i>	(Optional)



<i>total-nodes</i>	(Optional)
<i>elem-size</i>	(Optional)
<i>alloc-count</i>	(Optional)
<i>max-allocs</i>	(Optional)
<i>slab-size</i>	(Optional)
<i>block-count</i>	(Optional)
<i>max-blocks</i>	(Optional)
<i>slab-count</i>	(Optional)

**Command Mode**

- /exec

## show routing ipv6 nexthop info

```
show routing [ vrf { <vrf-name> | <vrf-known-name> | <vrf-all> } ] ipv6 [ unicast ] [ topology <topology-name> ] nexthop info [ vrf { <vrf-name> | <vrf-known-name> | <vrf-all> } ]
```

### Syntax Description

show	Show running system information
routing	Display routing information
vrf	(Optional) Display per-VRF information
<i>vrf-name</i>	(Optional) VRF name
<i>vrf-known-name</i>	(Optional) Known VRF name
vrf-all	(Optional) Display information for all VRFs
ipv6	Display IPv6 information
unicast	(Optional) Display unicast information
topology	(Optional) Display per-topology information
<i>topology-name</i>	(Optional) topology name
nexthop	Show the nh_info tree
info	Show the nh_info tree

### Command Mode

- /exec

## show routing ipv6 nhlfe

```
show routing [ vrf { <vrf-name> | <vrf-known-name> | <vrf-all> } ] ipv6 [ unicast ] [ topology <topology-name> ] nhlfe [ stats ] [ vrf { <vrf-name> | <vrf-known-name> | <vrf-all> } ] [ __readonly__ { TABLE_vrf <vrf-name-out> [ <nhlfe-owner> <nhlfe-refcount> { TABLE_nhlable <nhlable-index> <nhl-label> } <nhlfe-is-vpn> <nhlfe-owner-index> } ] <total-entries> ] ]
```

### Syntax Description

show	Show running system information
routing	Display routing information
vrf	(Optional) Display per-VRF information
<i>vrf-name</i>	(Optional) VRF name
<i>vrf-known-name</i>	(Optional) Known VRF name
vrf-all	(Optional) Display information for all VRFs
ipv6	Display IPv6 information
unicast	(Optional) Display unicast information
topology	(Optional) Display per-topology information
<i>topology-name</i>	(Optional) topology name
nhlfe	Display NHLFE db
stats	(Optional) Display statistics
<i>__readonly__</i>	(Optional)
TABLE_vrf	(Optional)
<i>vrf-name-out</i>	(Optional)
<i>nhlfe-owner</i>	(Optional)
<i>nhlfe-refcount</i>	(Optional)
TABLE_nhlable	(Optional)
<i>nhlable-index</i>	(Optional)
<i>nh-label</i>	(Optional)
<i>nhlfe-is-vpn</i>	(Optional)
<i>nhlfe-owner-index</i>	(Optional)
<i>total-entries</i>	(Optional)

**Command Mode**

- /exec

## show routing ipv6 recursive-next-hop

```
show routing [ vrf { <vrf-name> | <vrf-known-name> | <vrf-all> } ] ipv6 [ unicast ] [ topology <topology-name> ] recursive-next-hop [ <ipv6-addr> ] [ vrf { <vrf-name> | <vrf-known-name> | <vrf-all> } ] [ __readonly__ TABLE_vrf <vrf-name-out> TABLE_addrf <addrf> TABLE_prefix <ipprefix> <uptime> TABLE_clients <client-req> <client-pend> ]
```

### Syntax Description

show	Show running system information
routing	Display routing information
vrf	(Optional) Display per-VRF information
<i>vrf-name</i>	(Optional) VRF name
<i>vrf-known-name</i>	(Optional) Known VRF name
vrf-all	(Optional) Display information for all VRFs
ipv6	Display IPv6 information
unicast	(Optional) Display unicast information
topology	(Optional) Display per-topology information
<i>topology-name</i>	(Optional) topology name
recursive-next-hop	Display recursive next-hop table
__readonly__	(Optional)
TABLE_vrf	(Optional)
<i>vrf-name-out</i>	(Optional)
TABLE_addrf	(Optional)
<i>addrf</i>	(Optional)
TABLE_prefix	(Optional)
<i>uptime</i>	(Optional)
TABLE_clients	(Optional)
<i>client-req</i>	(Optional)
<i>client-pend</i>	(Optional)

### Command Mode

- /exec

## show routing memory estimate

```
show routing [ ip | ipv4 ] [ unicast ] memory estimate [ routes <route-count> [ next-hops <nh-count> ] [
next-hops-v6 <nh6-count> ] ] [ labels ] [ __readonly__ <current_max_mb> <current_max_routes>
<urib_max_nh> <used_mb> <route_stats_alloc_count> <nhs> <configured_max_mb>
<configured_max_routes> <urib_routes_max_nh> [ <estimate_mb> <estimate_routes> <estimate_nhs>
<estimate_with_mvpn_mb> <estimate_with_ospf_mb> <estimate_with_eigrp_mb> ] ]
```

### Syntax Description

show	Show running system information
routing	Display routing information
ip	(Optional) Display IP information
ipv4	(Optional) Display IP information
unicast	(Optional) Display unicast information
memory	Display urib memory information
estimate	Display urib memory estimate
routes	(Optional) Display urib memory estimate for # routes
<i>route-count</i>	(Optional) Number of routes
next-hops	(Optional) Display urib memory estimate for # next-hops per route
<i>nh-count</i>	(Optional) Number of next-hops per route
next-hops-v6	(Optional) Display urib memory estimate for # V6 next-hops per route
<i>nh6-count</i>	(Optional) Number of V6 next-hops per route
labels	(Optional) When the routes are associated with next hop labels
<i>__readonly__</i>	(Optional)
<i>current_max_mb</i>	(Optional)
<i>current_max_routes</i>	(Optional)
<i>urib_max_nh</i>	(Optional)
<i>used_mb</i>	(Optional)
<i>route_stats_alloc_count</i>	(Optional)
<i>nhs</i>	(Optional)
<i>configured_max_mb</i>	(Optional)
<i>configured_max_routes</i>	(Optional)

<i>urib_routes_max_nh</i>	(Optional)
<i>estimate_mb</i>	(Optional)
<i>estimate_routes</i>	(Optional)
<i>estimate_nhs</i>	(Optional)
<i>estimate_with_mvpn_mb</i>	(Optional)
<i>estimate_with_ospf_mb</i>	(Optional)
<i>estimate_with_eigrp_mb</i>	(Optional)

**Command Mode**

- /exec

## show routing memory statistics

```
show routing [ ip | ipv4 ] [ unicast ] memory statistics [ __readonly__ { TABLE_shrd_mem <ubuf-alloc>
<ubuf-high-water> <ubuf-max> <ubuf-numalloc> <rbuf-alloc> <rbuf-high-water> <rbuf-max> <rbuf-numalloc>
<slbs-alloc> <slbs-high-water> <slbs-max> <slbs-numalloc> } { TABLE_urib_slabs <slab-name>
<slab-alloc-count> <slab-max-allocs> <slab-size> } { TABLE_urib_blks <block-name> <block-count>
<max-blocks> <blks-count> } { TABLE_urib_routes_rnhs <ctx-name> <user-node> <total-node> <elem-size>
} ]
```

### Syntax Description

show	Show running system information
routing	Display routing information
ip	(Optional) Display IP information
ipv4	(Optional) Display IP information
unicast	(Optional) Display unicast information
memory	Display urib memory information
statistics	Display urib memory statistics
<code>__readonly__</code>	(Optional)
TABLE_shrd_mem	(Optional)
<i>ubuf-alloc</i>	(Optional)
<i>ubuf-high-water</i>	(Optional)
<i>ubuf-max</i>	(Optional)
<i>ubuf-numalloc</i>	(Optional)
<i>rbuf-alloc</i>	(Optional)
<i>rbuf-high-water</i>	(Optional)
<i>rbuf-max</i>	(Optional)
<i>rbuf-numalloc</i>	(Optional)
<i>slbs-alloc</i>	(Optional)
<i>slbs-high-water</i>	(Optional)
<i>slbs-max</i>	(Optional)
<i>slbs-numalloc</i>	(Optional)
TABLE_urib_slabs	(Optional)



<i>slab-name</i>	(Optional)
<i>slab-alloc-count</i>	(Optional)
<i>slab-max-allocs</i>	(Optional)
<i>slab-size</i>	(Optional)
TABLE_urib_blks	(Optional)
<i>block-name</i>	(Optional)
<i>block-count</i>	(Optional)
<i>max-blocks</i>	(Optional)
<i>blks-count</i>	(Optional)
TABLE_urib_routes_rnhs	(Optional)
<i>ctx-name</i>	(Optional)
<i>user-node</i>	(Optional)
<i>total-node</i>	(Optional)
<i>elem-size</i>	(Optional)

**Command Mode**

- /exec

## show routing nhlfe

```
show routing [ vrf { <vrf-name> | <vrf-known-name> | <vrf-all> } ] [ ip | ipv4 ] [ unicast ] [ topology
<topology-name> ] nhlfe [ stats ] [ vrf { <vrf-name> | <vrf-known-name> | <vrf-all> } ] [ __readonly__
TABLE_vrf <vrf-name-out> [ <nhlfe-owner> <nhlfe-refcount> { TABLE_nhlabel <nlabel-index> <nh-label>
} <nhlfe-is-vpn> <nhlfe-owner-index> ] <total-entries> ]
```

### Syntax Description

show	Show running system information
routing	Display routing information
vrf	(Optional) Display per-VRF information
<i>vrf-name</i>	(Optional) VRF name
<i>vrf-known-name</i>	(Optional) Known VRF name
vrf-all	(Optional) Display information for all VRFs
ip	(Optional) Display IP information
ipv4	(Optional) Display IP information
unicast	(Optional) Display unicast information
topology	(Optional) Display per-topology information
<i>topology-name</i>	(Optional) topology name
nhlfe	Display URIB NHLFE db
stats	(Optional) Display statistics
__readonly__	(Optional)
TABLE_vrf	(Optional)
<i>vrf-name-out</i>	(Optional)
<i>nhlfe-owner</i>	(Optional)
<i>nhlfe-refcount</i>	(Optional)
TABLE_nhlabel	(Optional)
<i>nlabel-index</i>	(Optional)
<i>nh-label</i>	(Optional)
<i>nhlfe-is-vpn</i>	(Optional)
<i>nhlfe-owner-index</i>	(Optional)

<i>total-entries</i>	(Optional)
----------------------	------------

**Command Mode**

- /exec

## show routing recursive-next-hop

```
show routing [ vrf { <vrf-name> | <vrf-known-name> | <vrf-all> } ] [ ip | ipv4 ] [ unicast ] [ topology
<topology-name> ] recursive-next-hop [ <ip-addr> ] [ vrf { <vrf-name> | <vrf-known-name> | <vrf-all> } ]
[ __readonly__ TABLE_vrf <vrf-name-out> TABLE_addrf <addrf> [ TABLE_prefix <ipprefix> <uptime>
TABLE_clients <clientname> ] ]
```

### Syntax Description

show	Show running system information
routing	Display routing information
vrf	(Optional) Display per-VRF information
<i>vrf-name</i>	(Optional) VRF name
<i>vrf-known-name</i>	(Optional) Known VRF name
vrf-all	(Optional) Display information for all VRFs
ip	(Optional) Display IP information
ipv4	(Optional) Display IP information
unicast	(Optional) Display unicast information
topology	(Optional) Display per-topology information
recursive-next-hop	Display recursive next-hop table
<i>topology-name</i>	(Optional) topology name
<i>ip-addr</i>	(Optional) Display single recursive virtual next-hop
<i>__readonly__</i>	(Optional)
TABLE_vrf	(Optional)
<i>vrf-name-out</i>	(Optional)
TABLE_addrf	(Optional)
<i>addrf</i>	(Optional) Address type
TABLE_prefix	(Optional)
<i>ipprefix</i>	(Optional)
<i>uptime</i>	(Optional)
TABLE_clients	(Optional)
<i>clientname</i>	(Optional)

### Command Mode

- /exec

## show routing unresolved-next-hop

```
show routing [ vrf { <vrf-name> | <vrf-known-name> | <vrf-all> } ] [ ip | ipv4 ] [ unicast ] [ topology
<topology-name> ] unresolved-next-hop { [ <ip-addr> [ detail ] ] | [ summary ] } [ vrf { <vrf-name> |
<vrf-known-name> | <vrf-all> } ]
```

### Syntax Description

show	Show running system information
routing	Display routing information
unresolved-next-hop	Display unresolved next-hop list
vrf	(Optional) Display per-VRF information
<i>vrf-name</i>	(Optional) VRF name
<i>vrf-known-name</i>	(Optional) Known VRF name
vrf-all	(Optional) Display information for all VRFs
ip	(Optional) Display IP information
ipv4	(Optional) Display IP information
unicast	(Optional) Display unicast information
topology	(Optional) Display per-topology information
<i>topology-name</i>	(Optional) topology name
<i>ip-addr</i>	(Optional) Display single unresolved next-hop
detail	(Optional) Display prefixes for unresolved next-hop
summary	(Optional) Show summary of resolve buffers

### Command Mode

- /exec

## show routing vxlan-hash peer-ip

```
show routing vxlan-hash peer-ip <peer-ip> <inner-src-mac> <inner-dst-mac> [ <inner-src-ip> <inner-dst-ip>
] [ <inner-src-ip6> <inner-dst-ip6> ] [ ip-proto <ip-proto> ] [ <inner-src-port> <inner-dst-port> ] [ module
<module-id> ]
```

### Syntax Description

show	Show running system information
routing	Display routing information
vxlan-hash	Display load-balancing information for vxlan
peer-ip	Peer IP address
<i>peer-ip</i>	Peer IP
<i>inner-src-mac</i>	Inner Source MAC Address
<i>inner-dst-mac</i>	Inner Destination MAC Address
<i>inner-src-ip</i>	(Optional) Inner Source IP
<i>inner-dst-ip</i>	(Optional) Inner Destination IP
ip-proto	(Optional) IP Protocol information for the packet
<i>ip-proto</i>	(Optional) IP Protocol information for the packet
<i>inner-src-port</i>	(Optional) Inner Source-port
<i>inner-dst-port</i>	(Optional) Inner Destination-port
module	(Optional) Module
<i>module-id</i>	(Optional) Module

### Command Mode

- /exec

# show running-config

show running-config

## Syntax Description

show	Show running system information
running-config	Current operating configuration

## Command Mode

- /exec



# show running-config aaa

show running-config aaa [ all ]

## Syntax Description

show	show running-cfg
running-config	show running system information
aaa	Display aaa configuration
all	(Optional) show running config with defaults

## Command Mode

- /exec

# show running-config aclmgr

show running-config aclmgr [ all | inactive-if-config ]

## Syntax Description

show	Show running system information
running-config	Current operating configuration
aclmgr	show running config for aclmgr
all	(Optional) show running config with defaults
inactive-if-config	(Optional) show running config for inactive-policies

## Command Mode

- /exec

# show running-config aclmgr active

show running-config aclmgr { active-if-config | all-if-config }

## Syntax Description

show	Show running system information
running-config	Current operating configuration
aclmgr	show running config for aclmgr
active-if-config	show running config for active-policies
all-if-config	show running config for all-policies

## Command Mode

- /exec

# show running-config adjmgr

show running-config adjmgr [ all ]

## Syntax Description

show	Show running system information
running-config	Current operating configuration
adjmgr	Display adjmgr information
all	(Optional) Display running config with defaults clis

## Command Mode

- /exec

# show running-config all

show running-config all

## Syntax Description

show	Show running system information
running-config	Current operating configuration
all	Current operating configuration with defaults

## Command Mode

- /exec

# show running-config amt

show running-config amt [ all ]

## Syntax Description

show	Show running system information
running-config	Current operationg configuration
amt	Display amt information
all	(Optional) Display running config with defaults clis

## Command Mode

- /exec

# show running-config arp

show running-config arp [ all ]

## Syntax Description

show	Show running system information
running-config	Current operating configuration
arp	Display arp information
all	(Optional) Display running config with defaults clis

## Command Mode

- /exec

# show running-config bfd

show running-config bfd [ all ]

## Syntax Description

show	Show running system information
running-config	Current operating configuration
bfd	show running config for bfd
all	(Optional) show running config with defaults

## Command Mode

- /exec



# show running-config bgp

show running-config bgp [ all ]

## Syntax Description

show	Show running system information
running-config	Current operationg configuration
bgp	Display bgp information
all	(Optional) Display running config with defaults clis

## Command Mode

- /exec

# show running-config bloggerd

show running-config bloggerd [ all ]

## Syntax Description

show	show running-cfg
running-config	show running system information
bloggerd	Display bloggerd configuration
all	(Optional) show running config with defaults

## Command Mode

- /exec

# show running-config callhome

show running-config callhome [ all ]

## Syntax Description

show	show running-cfg
running-config	show running system information
callhome	Display callhome configuration
all	(Optional) show running config with defaults

## Command Mode

- /exec

# show running-config catena

show running-config catena

## Syntax Description

show	show running-cfg
running-config	show running system information
catena	catena instances

## Command Mode

- /exec

# show running-config cdp

show running-config cdp [ all ]

## Syntax Description

show	show running-cfg
running-config	show running system information
cdp	Display cdp configuration
all	(Optional) show running config with defaults

## Command Mode

- /exec

# show running-config cert-enroll

show running-config cert-enroll [ all ]

## Syntax Description

show	show running-cfg
running-config	show running system information
cert-enroll	Display certificates configuration
all	(Optional) show running config with defaults

## Command Mode

- /exec

# show running-config cfs

show running-config cfs [ all ]

## Syntax Description

show	Show running system information
running-config	Current operation configuration
cfs	Display cfs configurations
all	(Optional) show running config with defaults

## Command Mode

- /exec

# show running-config clock\_manager

show running-config clock\_manager [ all ]

## Syntax Description

running-config	Current operating configuration
clock_manager	show running config for clock manager
all	(Optional) show running config with defaults

## Command Mode

- /exec



# show running-config config-profile

show running-config config-profile [ <all\_conf\_profile\_name> ]

## Syntax Description

show	Show running-cfg
running-config	show running configuration
config-profile	Display port-profile configuration
<i>all_conf_profile_name</i>	(Optional) Enter the name of the profile

## Command Mode

- /exec

# show running-config config-template

show running-config config-template

## Syntax Description

show	Show running system information
running-config	Current operationg configuration
config-template	Display config-template configuration

## Command Mode

- /exec

# show running-config controller

show running-config controller

## Syntax Description

show	Show running system information
running-config	Current operating configuration
controller	controller

## Command Mode

- /exec

# show running-config copp

show running-config copp [ all ]

## Syntax Description

show	Show running system information
running-config	Current operating configuration
copp	Control-Plane Policing
all	(Optional) show running config with defaults

## Command Mode

- /exec

# show running-config dhcp

show running-config dhcp [ all ]

## Syntax Description

show	Show running system information
running-config	Current operation configuration
dhcp	Display dhcp snoop configurations
all	(Optional) show running config with defaults

## Command Mode

- /exec

# show running-config diagnostic

show running-config diagnostic [ all ]

## Syntax Description

show	Show running system information
running-config	Current operating configuration
diagnostic	Display diagnostic information
all	(Optional) Display running config with defaults

## Command Mode

- /exec

# show running-config diff

show running-config diff

## Syntax Description

show	Show running system information
running-config	Current operating configuration
diff	Show the difference between running and startup configuration

## Command Mode

- /exec

# show running-config dot1x

show running-config dot1x [ all ]

## Syntax Description

show	show running-cfg
running-config	show running system information
dot1x	Display dot1x configuration
all	(Optional) show running config with defaults

## Command Mode

- /exec



# show running-config ecp

show running-config ecp [ all ]

## Syntax Description

show	Show running system information
running-config	Current operationg configuration
ecp	ECP (Edge Control Protocol)
all	(Optional) Display running config with defaults

## Command Mode

- /exec

# show running-config eem

show running-config eem

## Syntax Description

show	Show running system information
running-config	Show the system running configuration
eem	Show the event manager running configuration

## Command Mode

- /exec

# show running-config eigrp

show running-config eigrp [ all ]

## Syntax Description

show	Show running system information
running-config	Current operationg configuration
eigrp	Display eigrp information
all	(Optional) Display running config with defaults clis

## Command Mode

- /exec

# show running-config eltm

show running-config eltm

## Syntax Description

show	Show running system information
running-config	Current operation configuration
eltm	Display eltm configurations

## Command Mode

- /exec

# show running-config evb

show running-config evb [ all ]

## Syntax Description

show	Show running system information
running-config	Current operationg configuration
evb	EVB (Edge Virtual Bridge)
all	(Optional) Display running config with defaults

## Command Mode

- /exec

# show running-config exclude

show running-config exclude <feature-list> +

## Syntax Description

show	Show running system information
running-config	Current operating configuration
exclude	Exclude running configuration of specified features
<i>feature-list</i>	Exclude features

## Command Mode

- /exec

# show running-config expand-port-profile

show running-config expand-port-profile

## Syntax Description

show	Show running system information
running-config	Current operating configuration
expand-port-profile	Expand port profile

## Command Mode

- /exec

# show running-config explicit

show running-config explicit

## Syntax Description

show	Show running system information
running-config	Current operating configuration
explicit	show explicitly configured running configuration for all interfaces

## Command Mode

- /exec



# show running-config fabric forwarding

show running-config fabric forwarding [ all ]

## Syntax Description

show	Show running system information
running-config	Current operationg configuration
fabric	Fabric
forwarding	Fabric Forwarding Protocol: Host Mobility Manager (HMM)
all	(Optional) Display running config with defaults clis

## Command Mode

- /exec

# show running-config fabric multicast

show running-config fabric multicast [ all ]

## Syntax Description

show	Show running system information
running-config	Current operating configuration
fabric	Fabric
multicast	Multicast information
all	(Optional) Display running config with defaults clis

## Command Mode

- /exec

# show running-config glbp

show running-config glbp [ all ]

## Syntax Description

show	Show running system information
running-config	Show the system running information
glbp	Show GLBP running configuration
all	(Optional) Show GLBP running configuration defaults

## Command Mode

- /exec

# show running-config hsrp

show running-config hsrp [ all ]

## Syntax Description

show	Show system information
running-config	System running configuration
hsrp	HSRP running configuration
all	(Optional) Show HSRP running configuration defaults

## Command Mode

- /exec

# show running-config hw\_telemetry

show running-config hw\_telemetry [ all ]

## Syntax Description

running-config	Current operating configuration
hw_telemetry	show running config for hw_telemetry
all	(Optional) show running config with defaults

## Command Mode

- /exec

# show running-config icam

show running-config icam

## Syntax Description

show	show running-cfg
running-config	show running system information
icam	icam services

## Command Mode

- /exec

# show running-config icmpv6

show running-config icmpv6 [ all ]

## Syntax Description

show	Show running system information
running-config	Current operating configuration
icmpv6	Display icmpv6 information
all	(Optional) Display running config with defaults clis

## Command Mode

- /exec

# show running-config igmp

show running-config igmp [ all ]

## Syntax Description

show	Show running system information
running-config	Current operationg configuration
igmp	Display igmp information
all	(Optional) Display running config with defaults clis

## Command Mode

- /exec



# show running-config imp

show running-config imp [ all ]

## Syntax Description

show	Show system information
running-config	System running configuration
imp	IMP running configuration
all	(Optional) Show IMP running configuration defaults

## Command Mode

- /exec

# show running-config interface

show running-config interface [ <if0> ] [ all ] [ expand-port-profile ]

## Syntax Description

show	Show running system information
running-config	Current operating configuration
interface	Interface configuration
<i>if0</i>	(Optional) interface type and number in module/slot format
all	(Optional) show running config with defaults
expand-port-profile	(Optional) Expand port profile

## Command Mode

- /exec

# show running-config interface

show running-config interface <if0> [ membership ] [ expand-port-profile ]

## Syntax Description

show	Show running system information
running-config	Current operating configuration
interface	Interface configuration
<i>if0</i>	interface type and number in module/slot format
membership	(Optional) Show membership information
expand-port-profile	(Optional) Expand port profile

## Command Mode

- /exec

# show running-config interface defaults

show running-config interface <if0> defaults

## Syntax Description

show	Show running system information
running-config	Current operating configuration
interface	Interface configuration
<i>if0</i>	interface type and number in module/slot format
defaults	show default running config

## Command Mode

- /exec

# show running-config interface explicit

show running-config interface <if0> explicit

## Syntax Description

show	Show running system information
running-config	Current operating configuration
interface	Interface configuration
<i>if0</i>	interface type and number in module/slot format
explicit	show default running config

## Command Mode

- /exec

# show running-config ip

show running-config ip [ all ]

## Syntax Description

show	Show running system information
running-config	Current operating configuration
ip	Display ip information
all	(Optional) Display running config with defaults clis

## Command Mode

- /exec

# show running-config ipqos

show running-config ipqos [ all | inactive-if-config ]

## Syntax Description

show	Show running system information
running-config	Current operating configuration
all	(Optional) show running config with defaults
inactive-if-config	(Optional) show running config for inactive-policies

## Command Mode

- /exec

## show running-config ipqos active

```
show running-config ipqos { active-if-config | all-if-config }
```

### Syntax Description

show	Show running system information
running-config	Current operating configuration
active-if-config	show running config for active-policies
all-if-config	show running config for all-policies

### Command Mode

- /exec



# show running-config ipv6

show running-config ipv6 [ all ]

## Syntax Description

show	Show running system information
running-config	Current operating configuration
ipv6	Display ipv6 information
all	(Optional) Display running config with defaults clis

## Command Mode

- /exec

# show running-config isis

show running-config isis [ all ]

## Syntax Description

show	Show running system information
running-config	Current operationg configuration
isis	Display isis information
all	(Optional) Display running config with defaults clis

## Command Mode

- /exec

# show running-config l3vm

show running-config l3vm [ all ]

## Syntax Description

show	Show running system information
running-config	Current operationg configuration
l3vm	Display l3vm information
all	(Optional) Display running config with defaults

## Command Mode

- /exec

# show running-config ldap

show running-config ldap [ all ]

## Syntax Description

show	show running-cfg
running-config	show running system information
ldap	Display ldap configuration
all	(Optional) show running config with defaults

## Command Mode

- /exec

# show running-config license

show running-config license [ all ]

## Syntax Description

show	show
running-config	show running system information
license	Display licensing configuration
all	(Optional) show running config with defaults

## Command Mode

- /exec

# show running-config lisp

show running-config lisp [ all ]

## Syntax Description

show	Show running system information
running-config	Current operationg configuration
lisp	Display lisp information
all	(Optional) Display running config with defaults clis

## Command Mode

- /exec

# show running-config lldp

show running-config lldp [ all ]

## Syntax Description

show	show running-cfg
running-config	show running system information
lldp	Display lldp configuration
all	(Optional) show running config with defaults

## Command Mode

- /exec

# show running-config macsec

show running-config macsec

## Syntax Description

show	Show running system information
running-config	Current operating configuration
macsec	Show CTS information

## Command Mode

- /exec



# show running-config mmode

show running-config mmode [ all ]

## Syntax Description

show	Show running system information
running-config	Show running configuration
mmode	Display maintenance mode running configuration
all	(Optional) Show running config with defaults

## Command Mode

- /exec

# show running-config monitor

show running-config monitor [ all ]

## Syntax Description

show	Show running system information
running-config	Current operating configuration
monitor	Configure Ethernet SPAN sessions
all	(Optional) show running config with defaults

## Command Mode

- /exec

# show running-config mpls ldp

show running-config mpls ldp [ all ]

## Syntax Description

show	Show running system information
running-config	Current operating configuration
mpls	Display MPLS status and configuration
ldp	Label Distribution Protocol
all	(Optional) Display running-config with defaults

## Command Mode

- /exec

# show running-config mpls static

show running-config mpls static [ all ]

## Syntax Description

show	Show running system information
running-config	Current operating configuration
mpls	Display MPLS status and configuration
static	Static Label Bindings
all	(Optional) Display running-config with defaults

## Command Mode

- /exec

# show running-config mpls strip

show running-config mpls strip [ all ]

## Syntax Description

show	Show running system information
mpls	Configure MPLS settings
strip	Stripping of MPLS headers
running-config	System running configuration
all	(Optional) Show running configuration for STRIPCL with defaults

## Command Mode

- /exec

# show running-config mpls traffic-eng

show running-config mpls traffic-eng [ all ]

## Syntax Description

show	Show running system information
running-config	Current operating configuration
mpls	show running config for mpls features
traffic-eng	show running-config for Traffic Engineering
all	(Optional) show running config with defaults

## Command Mode

- /exec

# show running-config msdp

show running-config msdp [ all ]

## Syntax Description

show	Show running system information
running-config	Current operationg configuration
msdp	Display msdp information
all	(Optional) Display running config with defaults clis

## Command Mode

- /exec

# show running-config nat

show running-config nat [ all ]

## Syntax Description

show	show running-cfg
running-config	show running system information
nat	Display NAT configuration
all	(Optional) show running config with defaults

## Command Mode

- /exec



# show running-config nbm

show running-config nbm

## Syntax Description

show	Show running system information
running-config	Current operating configuration
nbm	Non Blocking Multicast

## Command Mode

- /exec

# show running-config netflow

show running-config { netflow | nfm } [ all ]

## Syntax Description

show	Show running system information
running-config	Show running system information
netflow	Show NetFlow configuration
nfm	Show NFM configuration
all	(Optional) Show config with defaults

## Command Mode

- /exec

# show running-config ngoam

show running-config ngoam [ all ]

## Syntax Description

show	Show running system information
running-config	Show running system information
ngoam	ngoam configuration
all	(Optional) Show running config with defaults

## Command Mode

- /exec

# show running-config ntp

show running-config ntp [ all ]

## Syntax Description

show	Show information
running-config	Show running system configuration
ntp	Show NTP information
all	(Optional) Show all NTP running configuration

## Command Mode

- /exec

# show running-config nv overlay

show running-config nv overlay [ all ]

## Syntax Description

show	Show system information
running-config	System running configuration
nv	NVE running configuration
overlay	NVE running configuration
all	(Optional) Show NVE running configuration defaults

## Command Mode

- /exec

# show running-config nxsdk

show running-config nxsdk [ all ]

## Syntax Description

show	Show running system information
running-config	Current operating configuration
nxsdk	NXOS SDK
all	(Optional) Display running config with defaults

## Command Mode

- /exec

# show running-config openflow

show running-config openflow [ all ]

## Syntax Description

show	Show running system information
running-config	Current operating configuration
openflow	Show running config for OpenFlow agent
all	(Optional) Show running config with defaults

## Command Mode

- /exec

# show running-config ospf

show running-config ospf [ all ]

## Syntax Description

show	Show running system information
running-config	Current operationg configuration
ospf	Display ospf information
all	(Optional) Display running config with defaults clis

## Command Mode

- /exec



# show running-config ospfv3

show running-config ospfv3 [ all ]

## Syntax Description

show	Show running system information
running-config	Current operationg configuration
ospfv3	Display ospfv3 information
all	(Optional) Display running config with defaults clis

## Command Mode

- /exec

# show running-config otv-isis

show running-config otv-isis [ all ]

## Syntax Description

show	Show running system information
running-config	Current operationg configuration
otv-isis	Display otv-isis information
all	(Optional) Display running config with defaults clis

## Command Mode

- /exec

# show running-config otv

show running-config otv [ all ]

## Syntax Description

show	Show running system information
running-config	Current operationg configuration
otv	Display otv information
all	(Optional) Display running config with defaults clis

## Command Mode

- /exec

# show running-config param-list

show running-config param-list [ <plistname> ]

## Syntax Description

show	Show running-cfg
running-config	show running configuration
param-list	Display param-list configuration
<i>plistname</i>	(Optional) Enter the name of the param list

## Command Mode

- /exec

# show running-config pim

show running-config pim [ all ]

## Syntax Description

show	Show running system information
running-config	Current operationg configuration
pim	Display pim information
all	(Optional) Display running config with defaults clis

## Command Mode

- /exec

# show running-config pim6

show running-config pim6 [ all ]

## Syntax Description

show	Show running system information
running-config	Current operationg configuration
pim6	Display pim6 information
all	(Optional) Display running config with defaults clis

## Command Mode

- /exec

# show running-config plb-services

show running-config plb-services

## Syntax Description

show	show running-cfg
running-config	show running system information
plb-services	PLB services

## Command Mode

- /exec

# show running-config poe

show running-config poe [ all ]

## Syntax Description

show	Show running system information
running-config	Current operating configuration
poe	Power over Ethernet
all	(Optional) show running config with defaults

## Command Mode

- /exec



# show running-config port-profile

show running-config port-profile [ <all\_profile\_name> ]

## Syntax Description

show	Show running-cfg
running-config	show running configuration
port-profile	Display port-profile configuration
<i>all_profile_name</i>	(Optional) Enter the name of the profile

## Command Mode

- /exec

# show running-config port-security

show running-config port-security [ all ]

## Syntax Description

show	show running-cfg
running-config	show running system information
port-security	Display port-security configuration
all	(Optional) show running config with defaults

## Command Mode

- /exec

# show running-config ptp

show running-config ptp [ all ]

## Syntax Description

running-config	Current operating configuration
ptp	show running config for ptp
all	(Optional) show running config with defaults

## Command Mode

- /exec

# show running-config radius

show running-config radius [ all ]

## Syntax Description

show	show running-cfg
running-config	show running system information
radius	Display radius configuration
all	(Optional) show running config with defaults

## Command Mode

- /exec

# show running-config res\_mgr

show running-config res\_mgr

## Syntax Description

show	Show running system information
running-config	Current operating configuration
res_mgr	Show resource configuration for VDC

## Command Mode

- /exec

# show running-config rip

show running-config rip [ all ]

## Syntax Description

show	Show running system information
running-config	Current operationg configuration
rip	Display rip information
all	(Optional) Display running config with defaults clis

## Command Mode

- /exec

# show running-config rpm

show running-config rpm [ all ]

## Syntax Description

show	Show running system information
running-config	Current operating configuration
rpm	Display Route Policy Manager (RPM) information
all	(Optional) Display running config with defaults

## Command Mode

- /exec

# show running-config rsvp

show running-config rsvp

## Syntax Description

show	Show running system information
running-config	Current operating configuration
rsvp	Display RSVP status

## Command Mode

- /exec



# show running-config section

show running-config section <section>

## Syntax Description

show	Show running system information
running-config	Current operating configuration
section	show only a particular section of running-config (in format needed for 'merge config' command)
<i>section</i>	the section to show, a regular expression, (use a dot for a space)

## Command Mode

- /exec

# show running-config security

show running-config security [ all ]

## Syntax Description

show	show running-cfg
running-config	show running system information
security	Display security configuration
all	(Optional) show running config with defaults

## Command Mode

- /exec

# show running-config segment-routing

show running-config segment-routing [ all ]

## Syntax Description

show	Show running system information
running-config	Show running configuration
segment-routing	Display segment-routing running configuration
all	(Optional) Show running config with defaults

## Command Mode

- /exec

# show running-config services

show running-config services

## Syntax Description

show	show running-cfg
running-config	show running system information
services	services

## Command Mode

- /exec

# show running-config services

show running-config services

## Syntax Description

show	show running-cfg
running-config	show running system information
services	services

## Command Mode

- /exec

# show running-config sflow

show running-config sflow [ all ]

## Syntax Description

running-config	Current operating configuration
sflow	show running config for sflow
all	(Optional) show running config with defaults

## Command Mode

- /exec

# show running-config sla responder

show running-config sla responder

## Syntax Description

show	show running-cfg
running-config	show running system information
sla	Service Level Agreement (SLA)
responder	Show information about sla-responder

## Command Mode

- /exec

# show running-config sla sender

show running-config sla sender

## Syntax Description

show	show running-cfg
running-config	show running system information
sla	Service Level Agreement (SLA)
sender	Show information about sla-sender

## Command Mode

- /exec



# show running-config smart-channel

show running-config smart-channel

## Syntax Description

show	show running-cfg
running-config	show running system information
smart-channel	smart channel services

## Command Mode

- /exec

# show running-config snmp

show running-config snmp [ all ]

## Syntax Description

show	show running-cfg
running-config	show running system information
snmp	Display snmp configuration
all	(Optional) show running config with defaults

## Command Mode

- /exec

# show running-config spanning-tree

show running-config spanning-tree [ <all> | interface <interface\_range> ]

## Syntax Description

show	Show running system information
running-config	Current operating configuration
spanning-tree	Show spanning tree information
<i>all</i>	(Optional)
interface	(Optional) Specify an interface as a target for the command
<i>interface_range</i>	(Optional)

## Command Mode

- /exec

# show running-config switch

show running-config { switch-profile | include-switch-profile }

## Syntax Description

show	Show running system information
running-config	Current operating configuration
switch-profile	Show switch-profile information
include-switch-profile	Show running and switch-profile configuration

## Command Mode

- /exec

# show running-config tacacs

show running-config tacacs + [ all ]

## Syntax Description

show	show running-cfg
running-config	show running system information
all	(Optional) show running config with defaults

## Command Mode

- /exec

# show running-config telemetry

show running-config telemetry [ all ]

## Syntax Description

show	show running system configuration
running-config	Current operating configuration
telemetry	Display telemetry configuration
all	(Optional) show running config with defaults

## Command Mode

- /exec

# show running-config track

show running-config track [ all ]

## Syntax Description

show	Show running system information
running-config	Show the system running information
track	Show track running configuration
all	(Optional) Show track running configuration defaults

## Command Mode

- /exec

# show running-config udd

show running-config udd [ all ]

## Syntax Description

show	Show running system information
running-config	Current operating configuration
udd	Show udd configuration
all	(Optional) show running config with defaults

## Command Mode

- /exec



# show running-config vdc-all

show running-config vdc-all [ all ]

## Syntax Description

show	Show running system information
running-config	Current operating configuration
vdc-all	Display config from all VDC
all	(Optional) Display config from all VDC including defaults

## Command Mode

- /exec

# show running-config vdc

show running-config vdc [ all ]

## Syntax Description

show	Show running system information
running-config	Current operating configuration
vdc	Show Virtual Device Contexts
all	(Optional) show running config with defaults

## Command Mode

- /exec

# show running-config virtual-service

show running-config virtual-service

## Syntax Description

show	Show running system information
running-config	Current operating configuration
virtual-service	Show running config for virtualization services

## Command Mode

- /exec

# show running-config vlan

show running-config vlan

## Syntax Description

show	Show running system information
running-config	Current operating configuration
vlan	Vlan commands

## Command Mode

- /exec

# show running-config vlan

show running-config vlan <vlan-id> [ expand-port-profile ]

## Syntax Description

show	Show running system information
running-config	Current operating configuration
vlan	Vlan commands
<i>vlan-id</i>	VLAN ID 1-4094 or range(s): 1-5, 10 or 2-5,7-19
expand-port-profile	(Optional) Expand port profile

## Command Mode

- /exec

# show running-config vmtracker

show running-config vmtracker [ all ]

## Syntax Description

show	Show running system information
running-config	Current operating configuration
vmtracker	show running config for vmtracker
all	(Optional) show running config with defaults

## Command Mode

- /exec

# show running-config vpc

show running-config vpc [ all ]

## Syntax Description

running-config	Current operating configuration
vpc	show running config for vPC
all	(Optional) show running config with defaults

## Command Mode

- /exec

## show running-config vrf

show running-config vrf <vrf-cfg-name> [ all ]

### Syntax Description

show	Show running system information
running-config	Current operationg configuration
vrf	Display VRF information
<i>vrf-cfg-name</i>	Configurable VRF name
all	(Optional) Display running config with defaults clis

### Command Mode

- /exec



# show running-config vrf default

```
show running-config vrf default [ all ]
```

## Syntax Description

show	Show running system information
running-config	Current operationg configuration
vrf	Display VRF information
default	Known VRF name
all	(Optional) Display running config with defaults clis

## Command Mode

- /exec

# show running-config vrrp

show running-config vrrp [ all ]

## Syntax Description

show	Show running system information
running-config	Current operating configuration
vrrp	Display VRRP running configuration
all	(Optional) show running config with defaults

## Command Mode

- /exec

# show running-config vrrpv3

show running-config vrrpv3 [ all ]

## Syntax Description

show	Show running system information
running-config	Current operating configuration
vrrpv3	Show running config for VRRPv3
all	(Optional) show running config with defaults

## Command Mode

- /exec

# show running-config vshd

show running-config vshd

## Syntax Description

show	Show running system information
running-config	Current operating configuration
vshd	Show running config for vshd

## Command Mode

- /exec

# show running-config vtp

show running-config vtp [ all ]

## Syntax Description

show	Show running system information
running-config	Current operating configuration
vtp	Show running configuration for VTP
all	(Optional) Show running configuration for VTP with defaults

## Command Mode

- /exec

```
show running-config vtp
```