



CHAPTER

Catalyst 4500 Series IOS Commands

New Commands

diagnostic fpga soft-error recover

ip multicast multipath

Revised Commands

A Commands

aaa accounting dot1x default start-stop group radius

aaa accounting system default start-stop group radiusclear mac-address-table

access-group mode

access-list hardware capture mode

access-list hardware entries

access-list hardware region

action

apply

anyp client server

anyp mode client

apply

arp access-list

attach module

authentication control-direction

authentication critical recovery delay

authentication event

authentication fallback

authentication host-mode

authentication open
authentication order
authentication periodic
authentication port-control
authentication priority
authentication timer
authentication violation
auto qos voip
auto-sync

C Commands

call-home (global configuration)
call-home request
call-home send
call-home send alert-group
call-home test
channel-group
channel-protocol
class-map
clear counters
clear errdisable
clear hw-module slot password
clear interface gigabitethernet
clear interface vlan
clear ip access-template
clear ip arp inspection log
clear ip arp inspection statistics
clear ip dhcp snooping binding
clear ip dhcp snooping database
clear ip dhcp snooping database statistics
clear ip igmp group
clear ip mfib counters
clear ip mfib fastdrop
clear lacp counters
clear nmsp statistics
clear mac-address-table dynamic
clear pagp

clear port-security
clear pppoe intermediate-agent statistics
clear qos
clear vlan counters
clear vmps statistics
counter
control-plane

D Commands

debug adjacency
debug backup
debug condition interface
debug condition standby
debug condition vlan
debug dot1x
debug etherchnl
debug interface
debug ip dhcp snooping event
debug ip dhcp snooping packet
debug ip verify source packet
debug ipc
debug lacp
debug monitor
debug nmsp
debug nvram
debug pagp
debug platform packet protocol lacp
debug platform packet protocol pagp
debug pm
debug port-security
debug pppoe intermediate-agent
debug redundancy
debug spanning-tree
debug spanning-tree backbonefast
debug spanning-tree switch
debug spanning-tree uplinkfast
debug sw-vlan

debug sw-vlan ifs
debug sw-vlan notification
debug sw-vlan vtp
debug udd
debug vqpc
define interface-range
deny
destination address
destination message-size-limit bytes
destination preferred-msg-format
destination transport-method
diagnostic fpga soft-error recover
diagnostic monitor action
diagnostic start
dot1x auth-fail max-attempts
dot1x auth-fail vlan
dot1x critical
dot1x critical eapol
dot1x critical recovery delay
dot1x critical vlan
dot1x control-direction
dot1x guest-vlan
dot1x guest-vlan supplicant
dot1x host-mode
dot1x initialize
dot1x mac-auth-bypass
dot1x max-reauth-req
dot1x max-req
dot1x port-control
dot1x re-authenticate
dot1x re-authentication
dot1x system-auth-control
dot1x timeout
duplex

E Commands

erase

errdisable detect
errdisable recovery

F Commands

flowcontrol

H Commands

hardware statistics
hw-module port-group
hw-module power
hw-module uplink mode shared-backplane
hw-module uplink select

I Commands

instance
interface
interface port-channel
interface range
interface vlan
ip arp inspection filter vlan
ip arp inspection limit (interface)
ip arp inspection log-buffer
ip arp inspection trust
ip arp inspection validate
ip arp inspection vlan
ip arp inspection vlan logging
ip cef load-sharing algorithm
ip dhcp snooping
ip dhcp snooping binding
ip dhcp snooping database
ip dhcp snooping information option
ip dhcp snooping information option allow-untrusted
ip dhcp snooping limit rate
ip dhcp snooping trust
ip dhcp snooping vlan
ip device tracking maximum
ip igmp filter

- ip igmp max-groups
- ip igmp profile
- ip igmp query-interval
- ip igmp snooping
- ip igmp snooping report-suppression
- ip igmp snooping vlan
- ip igmp snooping vlan explicit-tracking
- ip igmp snooping vlan immediate-leave
- ip igmp snooping vlan mrouter
- ip igmp snooping vlan static
- ip local-proxy-arp
- ip mfib fastdrop
- ip multicast multipath
- ip route-cache flow
- ip source binding
- ip sticky-arp
- ip verify header vlan all
- ip verify source
- ip verify unicast source reachable-via
- ipv6 mld snooping
- ipv6 mld snooping last-listener-query-count
- ipv6 mld snooping last-listener-query-interval
- ipv6 mld snooping listener-message-suppression
- ipv6 mld snooping robustness-variable
- ipv6 mld snooping tcn
- ipv6 mld snooping vlan
- issu abortversion
- issu acceptversion
- issu commitversion
- redundancy config-sync mismatched-commands
- issu loadversion
- issu runversion
- issu set rollback-timer

L Commands

- l2protocol-tunnel
- l2protocol-tunnel cos

l2protocol-tunnel drop-threshold
l2protocol-tunnel shutdown-threshold
lacp port-priority
lacp system-priority
lldp run
logging event trunk-status global (global configuration)
logging event link-status global (global configuration)
logging event link-status (interface configuration)
logging event trunk-status (interface configuration)

M Commands

match
mac access-list extended
mac-address-table aging-time
mac-address-table dynamic group protocols
mac-address-table notification
mac-address-table static
macro apply cisco-desktop
macro apply cisco-phone
macro apply cisco-router
macro apply cisco-switch
macro global apply cisco-global
macro global apply system-cpp
macro global description
main-cpu
match
match flow ip
mdix auto
media-type
mode
monitor session
mtu

N Commands

name
nmsp
nmsp attachment suppress

P Commands

pagp learn-method
pagp port-priority
passive-interface
permit
policy-map
port-channel load-balance
port-security mac-address
port-security mac-address sticky
port-security maximum
power dc input
power inline
port-security mac-address
power inline police
port-security mac-address
pppoe intermediate-agent format-type (global)
pppoe intermediate-agent (interface)
pppoe intermediate-agent limit rate
pppoe intermediate-agent trust
pppoe intermediate-agent vendor-tag strip
pppoe intermediate-agent (interface vlan-range)
pppoe intermediate-agent (interface vlan-range)
priority
private-vlan
private-vlan mapping
private-vlan synchronize

Q Commands

qos (global configuration mode)
qos (interface configuration mode)
qos account layer2 encapsulation
qos aggregate-policer
qos cos
qos dbl
qos dscp
qos map cos
qos map dscp

qos map dscp policed
qos rewrite ip dscp
qos trust
qos vlan-based
queue-limit

R Commands

redundancy
redundancy force-switchover
redundancy reload
remote login module
remote-span
renew ip dhcp snooping database
reset
revision

S Commands

service-policy (interface configuration)
service-policy (policy-map class)
service-policy input (control-plane)
session module
set
set cos
set dscp
set precedence
set qos-group
shape (interface configuration)
snmp ifindex clear
snmp ifindex persist
snmp-server enable traps
snmp-server ifindex persist
snmp-server ifindex persist compress
snmp trap mac-notification change
spanning-tree backbonefast
spanning-tree bpdupfilter
spanning-tree bpduguard
spanning-tree cost

- spanning-tree etherchannel guard misconfig
- spanning-tree extend system-id
- spanning-tree guard
- spanning-tree link-type
- spanning-tree loopguard default
- spanning-tree mode
- spanning-tree mst
- spanning-tree mst configuration
- spanning-tree mst forward-time
- spanning-tree mst hello-time
- spanning-tree mst max-age
- spanning-tree mst max-hops
- spanning-tree mst root
- spanning-tree pathcost method
- spanning-tree portfast (interface configuration mode)
- spanning-tree portfast bpdupfilter default
- spanning-tree portfast bpduguard default
- spanning-tree portfast default
- spanning-tree port-priority
- spanning-tree uplinkfast
- spanning-tree vlan
- speed
- storm-control
- storm-control broadcast include multicast
- subscribe-to-alert-group all
- subscribe-to-alert-group configuration
- subscribe-to-alert-group diagnostic
- subscribe-to-alert-group environment
- subscribe-to-alert-group inventory
- subscribe-to-alert-group syslog
- switchport
- switchport access vlan
- switchport autostate exclude
- switchport block
- switchport mode
- switchport port-security
- switchport private-vlan association trunk
- switchport private-vlan host-association

switchport private-vlan mapping
switchport private-vlan trunk allowed vlan
switchport private-vlan trunk native vlan tag
switchport trunk
system mtu

Show Commands

show access-group mode interface
show adjacency
show ancp multicast
show arp access-list
show authentication
show auto install status
show auto qos
show bootflash:
show bootvar
show cable-diagnostics tdr
show call-home
show cdp neighbors
show class-map
show diagnostic content
show diagnostic result module
show diagnostic result module test
show diagnostic result module test 2
show diagnostic result module test 3
show dot1x
show environment
show errdisable detect
show errdisable recovery
show etherchannel
show flowcontrol
show hw-module port-group
show hw-module uplink
show idprom
show interfaces
show interfaces capabilities
show interfaces counters

show interfaces description
show interfaces link
show interfaces mtu
show interfaces private-vlan mapping
show interfaces status
show interfaces switchport
show interfaces transceiver
show interfaces trunk
show ip arp inspection
show ip arp inspection log
show ip cef vlan
show ip dhcp snooping
show ip dhcp snooping binding
show ip dhcp snooping database
show ip igmp interface
show ip igmp profile
show ip igmp snooping
show ip igmp snooping membership
show ip igmp snooping mrouter
show ip igmp snooping vlan
show ip interface
show ip mfib
show ip mfib fastdrop
show ip mroute
show ip source binding
show ip verify source
show ipc
show ipv6 mld snooping
show ipv6 mld snooping mrouter
show ipv6 mld snooping querier
show issu capability
show issu clients
show issu comp-matrix
show issu endpoints
show issu entities
show issu fsm
show issu message
show issu negotiated

show issu rollback-timer
show issu sessions
show issu state
show l2protocol-tunnel
show lacp
show mab
show mac access-group interface
show mac-address-table address
show mac-address-table aging-time
show mac-address-table count
show mac-address-table dynamic
show mac-address-table interface
show mac-address-table multicast
show mac-address-table notification
show mac-address-table protocol
show mac-address-table static
show mac-address-table vlan
show module
show monitor
show nmsp
show pagp
show policy-map
show policy-map control-plane
show policy-map interface
show policy-map interface vlan
show port-security
show power
show power inline police
show qos
show pppoe intermediate-agent interface
show qos
show qos aggregate policer
show qos db1
show qos interface
show qos maps
show redundancy
show redundancy config-sync
show running-config

`show slavebootflash:`
`show slaveslot0:`
`show slot0:`
`show spanning-tree`
`show spanning-tree mst`
`show storm-control`
`show system mtu`
`show tech-support`
`show udd`
`show vlan`
`show vlan access-map`
`show vlan counters`
`show vlan dot1q tag native`
`show vlan internal usage`
`show vlan mtu`
`show vlan private-vlan`
`show vlan remote-span`
`show vmps`
`show vtp`

T Commands

`test cable-diagnostics tdr`
`traceroute mac`
`traceroute mac ip`
`trust`
`tx-queue`

U Commands

`udd (global configuration mode)`
`udd (interface configuration mode)`
`udd reset`
`unidirectional`
`username`

V Commands

`verify`
`vlan (VLAN Database mode)`

- vlan access-map
- vlan configuration
- vlan database
- vlan dot1q tag native
- vlan filter
- vlan internal allocation policy
- vmps reconfirm (global configuration)
- vmps reconfirm (privileged EXEC)
- vmps retry
- vmps server
- vtp (global configuration mode)
- vtp client
- vtp domain
- vtp password
- vtp pruning
- vtp server
- vtp transparent
- vtp v2-mode

