



CHAPTER

Catalyst 4500 Series IOS Commands

New Commands

`clear ip dhcp snooping binding`
`hw-module uplink mode shared-backplane`
`lldp run`
`queue-limit`

Revised Commands

`debug pagp`
`power inline`
`redundancy config-sync mismatched-commands`
`show pagp`
`show redundancy config-sync`

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`
`arp access-list`
`attach module`
`auto qos voip`

auto-sync

C Commands

channel-group

channel-protocol

class-map

clear counters

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 mac-address-table dynamic

clear pagp

clear port-security

clear qos

clear vlan counters

clear vmps statistics

counter (K5)

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 nvram
debug pagp
debug platform packet protocol lacp
debug platform packet protocol pagp
debug pm
debug port-security
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 udld
debug vqpc
define interface-range
deny
diagnostic start
diagnostic monitor action
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 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

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 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 route-cache flow
- ip source binding
- ip sticky-arp
- ip verify header vlan all
- ip verify source
- 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

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

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
power inline consumption
power redundancy-mode
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 input (control-plane)
session module
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
switchport
switchport access vlan
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 arp access-list
show auto install status
show auto qos
show bootflash:
show bootvar
show cable-diagnostics tdr
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 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 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 issu capability
show issu clients

show issu comp-matrix
show redundancy config-sync
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 ipc
show lacp
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 pagp
show policy-map
show policy-map control-plane
show policy-map interface
show policy-map interface vlan
show port-security
show power
show qos
show qos aggregate policer
show qos dbf
show qos interface
show qos maps
show redundancy

`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`
`tx-queue`

U Commands

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

V Commands

verify

vlan (VLAN Database mode)

vlan access-map

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

