



CHAPTER

Catalyst 4500 Series IOS Commands

New Commands

[issu changeversion](#)

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](#)

[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
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 mac-address-table dynamic
clear pagp
clear port-security
clear qos
clear vlan counters
clear vmps statistics
control-plane

counter

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

destination message-size-limit bytes

destination message-size-limit bytes
destination preferred-msg-format
destination transport-method
diagnostic fpga soft-error recover aggressive
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 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
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 changeversion
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
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 learning vlan
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
port-security mac-address
power inline police
port-security mac-address
priority
private-vlan
private-vlan mapping
private-vlan synchronize

Q Commands

qos account layer2 encapsulation
qos trust
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 bpdudfilter
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 bpdudfilter 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
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 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 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 qos aggregate policer
show qos dbl
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 uddl
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

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