

# Catalyst 4500 Series IOS Commands

## New Commands

[ip device tracking maximum](#)  
[switchport autostate exclude](#)

## Revised Commands

[dot1x host-mode](#)  
[ip verify source](#)  
[qos dbl](#)  
[show dot1x](#)  
[show ip verify source](#)  
[show qos dbl](#)

## 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 entries](#)  
[access-list hardware region](#)  
[action](#)  
[apply](#)  
[arp access-list](#)  
[attach module](#)  
[auto qos voip](#)  
[auto-sync](#)

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 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

## 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 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  
issu 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**

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

## **R Commands**

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

## S Commands

service-policy  
service-policy input (control-plane)  
session module  
shape  
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 bpdufilter  
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 bpdufilter 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 issu 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 dbl  
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 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  
tx-queue

## **U Commands**

uddl (global configuration mode)  
uddl (interface configuration mode)  
uddl 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

