



# Catalyst 4500 Series IOS Commands

## A Commands

[aaa accounting dot1x default start-stop group radius](#)  
[aaa accounting system default start-stop group radius](#)  
[access-group mode](#)  
[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 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

## 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 psecure  
debug redundancy  
debug smf updates  
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 monitor action`  
`dot1x guest-vlan`  
`dot1x initialize`  
`dot1x max-reauth-req`  
`dot1x max-req`  
`dot1x multiple-hosts`  
`dot1x port-control`  
`dot1x re-authenticate`  
`dot1x re-authentication`  
`dot1x system-auth-control`  
`dot1x timeout`  
`duplex`

## E Commands

`errdisable detect`  
`errdisable recovery`

## F Commands

`flowcontrol`

## H Commands

`hw-module power`

## I Commands

`instance`  
`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 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 vlan dhcp-snooping**

## **L Commands**

**l2protocol-tunnel**  
**l2protocol-tunnel cos**  
**l2protocol-tunnel drop-threshold**  
**l2protocol-tunnel shutdown-threshold**

lacp port-priority  
lacp system-priority

## M Commands

mac access-list extended  
mac-address-table aging-time  
mac-address-table dynamic group protocols  
mac-address-table static  
macro apply cisco-desktop  
macro apply cisco-phone  
macro apply cisco-router  
macro apply cisco-switch  
main-cpu  
match  
monitor session  
mtu

## N Commands

name

## P Commands

pagp learn-method  
pagp port-priority  
permit  
policy-map  
port-channel load-balance  
power dc input  
power inline  
power inline consumption  
power redundancy-mode  
power supplies required  
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  
session module  
shape  
snmp ifindex clear  
snmp ifindex persist  
snmp-server enable traps  
snmp-server ifindex persist  
snmp-server ifindex persist compress  
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 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**  
**switchport trunk**  
**system mtu**

## Show Commands

`show access-group mode interface`  
`show arp access-list`  
`show auto qos`  
`show bootflash:`  
`show bootvar`  
`show class-map`  
`show diagnostic result module`  
`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 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 mfib**  
**show ip mfib fastdrop**  
**show ip mroute**  
**show ip source binding**  
**show ip verify source**  
**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 protocol**  
**show mac-address-table static**  
**show mac-address-table vlan**  
**show module**  
**show monitor**  
**show pagp**  
**show policy-map**  
**show policy-map interface**  
**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

`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**

