



# 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](#)  
[access-list hardware entries](#)  
[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](#)

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clear ip mfib fastdrop  
clear lacp counters  
clear mac-address-table dynamic  
clear pagp  
clear port-security  
clear qos  
clear vlan counters  
clear vmpls 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

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debug sw-vlan ifs  
debug sw-vlan notification  
debug sw-vlan vtp  
debug udd  
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

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**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**

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**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**

**media-type**

**mode**

**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**

**ALPHA DRAFT - CISCO CONFIDENTIAL****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

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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  
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

**ALPHA DRAFT - CISCO CONFIDENTIAL****Show Commands**

**show access-group mode interface**  
**show arp access-list**  
**show auto install status**  
**show auto qos**  
**show bootflash:**  
**show bootvar**  
**show class-map**  
**show diagnostic content**  
**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**



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**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:**

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**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**

**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**

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**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**

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