

Cisco CCNA (200-301) Commands Sheet

Practical show and config commands grouped by interface checks, VLANs, routing, and security.

Best for Command recall before labs and PBQs	Focus What each command does and when to use it	Use with Use with ports sheet and cheat sheet
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1. Interface and status

show ip interface brief	Fast interface/IP/line protocol summary.
show interfaces	Deep interface counters, duplex, speed, and error details.
show version	Platform, IOS version, uptime, and config register.
show inventory	Hardware visibility on supported platforms.

2. VLAN and switching

show vlan brief	List VLANs and assigned access ports.
show interfaces trunk	Verify trunking and allowed VLANs.
show spanning-tree	Root bridge, roles, costs, and blocked ports.
show mac address-table	Check MAC learning and forwarding behavior.
show etherchannel summary	Confirm port-channel/LACP state.

3. Routing and reachability

show ip route	Verify route sources and best paths.
show ip ospf neighbor	Check OSPF adjacency state.
ping	Test reachability.
tracert	See path hop-by-hop.
show ip protocols	Review dynamic routing process details.

4. Device config and security

show running-config	Inspect the active configuration.
show access-lists	Validate ACL rules and hit counters.
show port-security	Review violation mode and learned MACs.
show cdp neighbors detail	Discover adjacent Cisco devices and ports.

show lldp neighbors detail	Vendor-neutral adjacency discovery.
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5. Useful config commands

interface g0/1	Enter interface configuration mode.
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switchport mode access / trunk	Set port behavior for VLAN access or trunks.
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ip address x.x.x.x y.y.y.y	Assign IPv4 address to interface.
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router ospf 1	Start OSPF process and add networks/interfaces.
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copy running-config startup-config	Save current config to survive reload.
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