

CCNA Command Cheat Sheet

Basic CLI & Device Management

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① Mode Navigation

- enable
- disable
- configure terminal
- end
- exit
- do show running-config

② Device Identity

- hostname SW1
- banner motd #Authorized Users Only#
- no ip domain-lookup
- ip domain-name lab.local

③ Access & Security

- enable secret class
- service password-encryption
- username admin secret Cisco123
- line console 0
- password cisco
- login
- line vty 0 4
- transport input ssh

④ File & Config

- copy running-config startup-config
- copy startup-config running-config
- erase startup-config
- reload
- show running-config
- show startup-config

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Interfaces & Switching

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① Interface Basics

- interface g0/1
- description Uplink to R1
- ip address 192.168.1.1 255.255.255.0
- no shutdown
- shutdown
- interface range g0/1 - 2

② Speed / Duplex

- speed 1000
- duplex full
- mdix auto
- show interfaces status

③ Switching Verify

- show ip interface brief
- show interfaces g0/1
- show mac address-table
- clear mac address-table dynamic

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VLANs & Trunks

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① VLAN Creation

- vlan 10
- name SALES
- vlan 20
- name VOICE

② Access / Voice Ports

- switchport mode access
- switchport access vlan 10
- switchport voice vlan 20
- spanning-tree portfast

③ Trunks

- switchport mode trunk
- switchport trunk native vlan 99
- switchport trunk allowed vlan 10,20,99
- show vlan brief
- show interfaces trunk

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STP & EtherChannel

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① STP Basics

- spanning-tree mode rapid-pvst
- spanning-tree vlan 10 priority 4096
- spanning-tree vlan 10 root primary
- show spanning-tree

② PortFast / Protection

- spanning-tree portfast
- spanning-tree bpduguard enable
- spanning-tree guard root
- spanning-tree guard loop
- show spanning-tree interface g0/1 detail

③ EtherChannel

- channel-group 1 mode active
- interface port-channel 1
- switchport mode trunk
- show etherchannel summary
- show interfaces port-channel 1

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IPv4 Addressing & Static Routing

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① Router Interface IP

- interface g0/0
- ip address 10.1.1.1 255.255.255.0
- no shutdown
- interface g0/1
- ip address 10.1.2.1 255.255.255.0

② Static Routes

- ip route 0.0.0.0 0.0.0.0 10.1.1.254
- ip route 192.168.10.0 255.255.255.0 10.1.2.2
- ip route 172.16.1.0 255.255.255.0 g0/0

③ Verification

- show ip route
- show ip arp
- show cdp neighbors detail
- ping 10.1.1.254
- traceroute 8.8.8.8

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OSPF

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① Enable OSPF

- router ospf 1
- router-id 1.1.1.1
- network 10.1.1.0 0.0.0.255 area 0
- network 10.1.2.0 0.0.0.255 area 0
- passive-interface g0/0

② Optional OSPF

- auto-cost reference-bandwidth 1000
- default-information originate

③ Verification

- show ip ospf neighbor
- show ip ospf interface brief
- show ip protocols
- show ip route ospf

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IPv6

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① Global

- ipv6 unicast-routing

② Interface IPv6

- interface g0/0
- ipv6 address 2001:db8:1::1/64
- ipv6 address fe80::1 link-local
- no shutdown

③ Static & Verify

- ipv6 route ::/0 2001:db8:1::2
- show ipv6 interface brief
- show ipv6 route
- show ipv6 neighbors
- ping 2001:db8:1::2
- traceroute ipv6 2001:4860:4860::8888

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ACLs & Security

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① Standard ACL

- access-list 1 permit 192.168.10.0 0.0.0.255
- access-list 1 deny any
- interface g0/0
- ip access-group 1 in

② Named Extended ACL

- ip access-list extended WEB_ONLY
- permit tcp 192.168.10.0 0.0.0.255 any eq 80
- permit tcp 192.168.10.0 0.0.0.255 any eq 443
- deny ip any any
- ip access-group WEB_ONLY out

③ Port Security

- switchport port-security
- switchport port-security maximum 2
- switchport port-security mac-address sticky
- switchport port-security violation restrict
- show access-lists
- show port-security interface g0/1

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DHCP / NAT / Mgmt

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① DHCP

- ip dhcp excluded-address 192.168.10.1 192.168.10.10
- ip dhcp pool LAN
- network 192.168.10.0 255.255.255.0
- default-router 192.168.10.1
- dns-server 8.8.8.8
- show ip dhcp binding

② NAT

- access-list 1 permit 192.168.10.0 0.0.0.255
- interface g0/0
- ip nat inside
- interface g0/1
- ip nat outside
- ip nat inside source list 1 interface g0/1 overload
- show ip nat translations

③ Mgmt Protocols

- logging console
- logging host 10.1.1.10
- ntp server 10.1.1.20
- cdp run
- lldp run
- show cdp neighbors
- show lldp neighbors

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Troubleshooting & Verification

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① Quick Layer 1/2

- show interfaces status
- show interfaces counters errors
- show vlan brief
- show interfaces trunk
- show spanning-tree
- show mac address-table

② Quick Layer 3

- show ip interface brief
- show ip route
- show arp
- show ip protocols
- show ip ospf neighbor

③ General Tools

- ping 8.8.8.8
- traceroute 8.8.8.8
- show version
- show running-config
- debug ip icmp
- undebug all

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Hands-On Practice

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① Master Through Practice

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