Cisco CLI Cheat Sheet

Routing Protocols

Command	Description
show ip bgp neighbors	Displays detailed information about all BGP neighbors, including state, uptime, and received prefixes. Example: show ip bgp neighbors
show ip ospf neighbors	Lists all OSPF neighbors and their states; useful for verifying OSPF adjacencies. Example: show ip ospf neighbors
show ip route	Displays the IP routing table, showing all known routes and their sources (static, connected, dynamic). Example: show ip route
show ip protocols	Summarizes active dynamic routing protocols and their parameters like networks and timers. Example: show ip protocols
show ip bgp neighbors advertised-routes	Displays the routes advertised to a specific BGP neighbor. Example: show ip bgp neighbors 192.168.1.1 advertised-routes

% Troubleshooting

Command	Description
ping <destination></destination>	Sends ICMP Echo requests to test connectivity to a destination IP address. Example: ping 8.8.8.8
traceroute <destination></destination>	Traces the route packets take to a network host, useful for diagnosing routing issues. Example: traceroute google.com
show logging	Displays the system log messages; useful for debugging and historical event tracking. Example: show logging
show version	Shows detailed information about the device's software, hardware, uptime, and more. Example: show version



① Time and NTP

Command	Description
show ntp status	Shows the synchronization status with NTP servers and the system clock state. Example: show ntp status
show ntp associations	Displays the association details with configured NTP servers, including delay and reachability. Example: show ntp associations

िसे Interface Configuration

Command	Description
show ip interface brief	Displays a concise summary of all interfaces, including IP addresses and status. Example: show ip interface brief
interface <interface-id></interface-id>	Enters configuration mode for a specific interface. Example: interface GigabitEthernet0/1
ip address <ip-address> <subnet-mask></subnet-mask></ip-address>	Assigns an IP address and subnet mask to the selected interface. Example: ip address 192.168.1.1 255.255.255.0
no shutdown	Enables an administratively down interface. Example: no shutdown
shutdown	Disables an interface administratively. Example: shutdown
description <text></text>	Adds a description to the selected interface. Example: description Link to ISP Router
show running-config interface <interface-id></interface-id>	Displays the active configuration of a specific interface. Example: show running-config interface GigabitEthernet0/1



© Configuration Management

Command	Description
show track brief	Summarizes all track objects and their current state, helpful for SLA and failover setups. Example: show track brief
copy usb0: <filename> flash:<filename></filename></filename>	Copies a file from USB storage to flash memory. Example: copy usb0:ios-image.bin flash:ios-image.bin
copy flash: <filename> startup-config</filename>	Copies a file from flash to startup-config to update boot settings. Example: copy flash:backup-config.cfg startup-config
write erase	Erases the startup configuration, restoring the device to factory defaults after reload. Example: write erase
reload	Restarts the device; can be scheduled or immediate. Example: reload

⊘ Certificates & Security

Command	Description
crypto key generate rsa general-keys modulus 2048	Generates RSA key pairs (general purpose) for securing SSH and VPNs. Example: crypto key generate rsa general-keys modulus 2048
crypto key generate rsa modulus 2048 label <hostname>-CA</hostname>	Creates labeled RSA key pairs for certificate authority purposes. Example: crypto key generate rsa modulus 2048 label Router1-CA
no crypto pki certificate chain <cert hostname="" server="">-CA</cert>	Deletes the certificate chain for a specific trustpoint. Example: no crypto pki certificate chain CA-Server
crypto pki authenticate <cert hostname="" server="">-CA</cert>	Authenticates the device to a Certificate Authority for certificate issuance. Example: crypto pki authenticate CA-Server
show crypto pki certificates <cert hostname="" server="">-CA</cert>	Displays installed certificates for a given trustpoint. Example: show crypto pki certificates CA-Server



UNITED VLAN Configuration

Command	Description
show vlan brief	Displays a list of VLANs and their associated ports. Example: show vlan brief
vlan <vlan-id></vlan-id>	Creates or modifies a VLAN with the specified VLAN ID. Example: vlan 10
name <vlan-name></vlan-name>	Assigns a name to the VLAN for easier management and documentation. Example: name Accounting
interface <interface-id></interface-id>	Selects an interface for VLAN assignment. Example: interface FastEthernet0/1
switchport mode access	Configures an interface as an access port for a single VLAN. Example: switchport mode access
switchport access vlan <vlan-id></vlan-id>	Assigns the access port to a VLAN. Example: switchport access vlan 10

Cisco CLI — Best Practices



Always double-check your command before pressing Enter

A mistyped command (like write erase) can cause outages. Use? to preview available options and syntax in CLI.



Use show commands liberally

before making changes to understand the current state.



Configuration Tip

Save your configuration (copy running-config startup-config) after important changes — otherwise changes will be lost on reboot.

