Cisco Switch Commands			
Category	Command	Description	
Basic Configuration	enable	Switches to privileged EXEC mode.	
	configure terminal	Enters global configuration mode.	
	hostname SWITCH1	Sets the switch's hostname to SWITCH1.	
	enable secret password123	Sets a secure encrypted password for privileged EXEC mode.	
	line console 0 password console123 login	Configures a password for console access.	
	line vty 0 15 password vty123 login transport input ssh	Configures a password for remote access via Telnet or SSH.	
VLAN Configuration	vlan 10 name SALES	Creates VLAN 10 and names it SALES.	
	interface GigabitEthernet0/1 switchport mode access switchport access vlan 10	Assigns port GigabitEthernet0/1 to VLAN 10.	
	interface GigabitEthernet0/24 switchport mode trunk	Configures port GigabitEthernet0/24 as a trunk port.	
	show vlan brief	Displays a summary of all VLANs and their associated ports.	
STP Configuration	spanning-tree mode rapid-pvst	Enables Rapid Per-VLAN Spanning Tree (RPVST).	
	spanning-tree vlan 10 root primary	Configures the switch as the root bridge for VLAN 10.	
	show spanning-tree	Displays the current STP status and topology.	
Port Security	interface GigabitEthernet0/1 switchport port-security switchport port-security maximum 2 switchport port-security violation restrict	Enables port security on GigabitEthernet0/1.	
	show port-security	Displays port security settings and violations.	
Miscellaneous	write memory	Saves the current configuration to NVRAM.	
	show running-config	Displays the current configuration in RAM.	
	show interfaces status	Displays the status of all interfaces.	
Cisco Router Commands			
Category	Command	Description	
Basic Configuration	enable	Switches to privileged EXEC mode.	
	configure terminal	Enters global configuration mode.	
	hostname ROUTER1	Sets the router's hostname to ROUTER1.	
	enable secret password123	Sets a secure encrypted password for privileged EXEC mode.	
	line console 0 password console123 login	Configures a password for console access.	

	line vty 0 4 password vty123 login transport input ssh	Configures a password for remote access via Telnet or SSH.	
Interface Configuration	interface GigabitEthernet0/0 ip address 192.168.1.1 255.255.255.0 no shutdown	Assigns an IP address to GigabitEthernet0/0 and enables the interface.	
	interface Serial0/0/0 ip address 10.0.0.1 255.255.255.252 clock rate 64000 no shutdown	Configures a serial interface for WAN connections.	
Routing Configuration	ip route 192.168.2.0 255.255.255.0 10.0.0.2	Adds a static route to the 192.168.2.0/24 network.	
	router rip version 2 network 192.168.1.0 no auto-summary	Enables RIP version 2 and advertises the 192.168.1.0 network.	
	router ospf 1 network 192.168.1.0 0.0.0.255 area 0	Enables OSPF process 1 and advertises the 192.168.1.0/24 network in area 0.	
NAT Configuration	access-list 1 permit 192.168.1.0 0.0.0.255 interface GigabitEthernet0/1 ip nat inside interface GigabitEthernet0/0 ip nat outside ip nat inside source list 1 interface GigabitEthe	Configures NAT overload (PAT).	
Miscellaneous	write memory	Saves the current configuration to NVRAM.	
	show running-config	Displays the current configuration in RAM.	
	show ip route	Displays the router's routing table.	
	show interfaces status	Displays the status of all interfaces.	