Doviso	Mada	Command	Action	Configuration	Notes -	Lavor
(config) g	ode e mode [en lobal confiç	Command] g mode [conf t] node [int fa0/0]	Action	Configuration	T Notes	Layer
	Switch					
Switch	Conf	interface FastEthernet 0/14	Moves to interface configuration mode.	Switch Setup		
Switch	Conf	interface GigabitEthernet 0/1	Moves to configuration mode for a range of interfaces.	Switch Setup		
Switch	Conf	interface range fastethernet 0/14 - 24	Moves to configuration mode for a range of interfaces.	Switch Setup		
Switch	Conf	interface range gigabitethernet 0/1 - 4	Moves to configuration mode for a range of interfaces.	Switch Setup		
Switch	Conf	interface range fa 0/1 - 4 , 7 - 10	Moves to configuration mode for a range of interfaces.	Switch Setup		
Switch	Conf	interface range fa 0/8 - 9 , gi 0/1 - 2	Moves to configuration mode for a range of interfaces.	Switch Setup		
Switch	int	speed 10	Sets the port speed on the interface.	Switch Setup		
Switch	int	speed auto	Sets the port speed on the interface.	Switch Setup		
Switch	int	duplex half	Sets the duplex mode on the interface.	Switch Setup		
Switch	int	duplex full	Sets the duplex mode on the interface.	Switch Setup		
Switch	int	duplex auto	Sets the duplex mode on the interface.	Switch Setup		
Switch	int	no shutdown	Enables or disables the interface.	Switch Setup		
Switch	int	shutdown	Enables or disables the interface.	Switch Setup		
Switch	int	show interface status	Shows the interface status of all ports.	Switch Setup		
Switch	int	show ip interface brief	Shows the line and protocol status of all ports.	Switch Setup		
Switch	#	show mac address-table	displays the mac address table		displays known mac addresses	
Switch >	VLANs - \	/LANs operate at layer 2, but their utility comes in	to play when integrated with a layer 3 solution.			Layer 2
Switch	#	show vlan	Shows a list of VLANs on the system and ports	VLAN	VLANs operate at layer 2, but their utility comes into play when integrated with a layer 3 solution.	
Switch	#	show vlan id 10	Shows information for a specific VLAN.	VLAN	Replace 10 with vlan id	
Switch	#	show vlan brief	Shows a list of VLANs on the system and ports	VLAN		
Switch	Conf	vlan 10	Create vlan, number is irrelevant	VLAN		
Switch	int	name Sales	This name is displayed when you show vlans	VLAN		
Switch	int	interface f0/1 switchport access vlan 10	This assigns workstation to VLAN 10	VLAN	This assigns workstation to VLAN 10: * f0/1 - select workstation port * and 10 is number of VLAN you want to assign to it.	
Switch	int	interface range f0/2 - 3 switchport access vlan 11	This assigns range of workstations to VLAN 11	VLAN		

			CCNA Network Commands			
Device	Mode	Command	Action	Configuration	Notes	Layer
Switch	int	switchport access vlan [1-4094]	Assigns ports to the VLAN.	VLAN	If you assign a port to a VLAN that does not exist, the VLAN is created automatically.	·
Switch	int	no vlan [1-4094]	Deletes a VLAN.	VLAN	When you delete a VLAN, all ports assigned to the deleted VLAN remain associated with it and are, therefore, inactive. After a VLAN is deleted, you must reassign its ports to an appropriate VLAN.	
Switch	int	switchport priority extend cos [0-7]	Sets the priority for VoIP traffic	VLAN		
Switch > \	VLAN > Tr	runks		,		
Switch	int	switchport mode trunk	to configure a switch interface as a trunk	VLAN > Trunk	ex. > int f0/24 > switchport mode trunk	
Switch	Conf	switchport trunk allowed vlan remove 11	Remove VLAN 11 from trunk	VLAN > Trunk		
Switch	#	show int trunk	show trunks	VLAN > Trunk	Show VLAN will not show the trunks, must use this command to see them	
Switch	#	show interface fa0/1 trunk	show trunks	VLAN > Trunk	Show VLAN will not show the trunks, must use this command to see them	
Switch	#	switchport trunk encapsulation dot1q	sets trunking protocol	VLAN > Trunk	Sets the trunking protocol or allows the trunking protocol to be negotiated.	
Switch	#	switchport trunk encapsulation isl	sets trunking protocol	VLAN > Trunk	Sets the trunking protocol or allows the trunking protocol to be negotiated.	
Switch	#	switchport trunk encapsulation negotiate	sets trunking protocol	VLAN > Trunk	Sets the trunking protocol or allows the trunking protocol to be negotiated.	
Switch	#	switchport trunk native vlan [vlan_id]		VLAN > Trunk	Configures the VLAN that is sending and receiving untagged traffic on the trunk port when the interface is in 802.1 Q trunking mode.	
Switch	#	switchport mode access	disables trunking config	VLAN > Trunk	Disables trunking configuration on the port. The port is set to the access mode unconditionally and operates as a non-trunking, single VLAN interface that sends and receives un-tagged frames.	
		panning Trees	alloables damling coming	VD IIV Hall	consecund reconsecunt agges number	STP = Layer 2 network protocol
Switch	#	show mac address-table	displays the mac address table		displays known mac addresses	
Switch	#	show spanning-tree	see if spanning-tree is running and how to get to dif locations	VLAN > STP		
Switch	#	show spanning-tree vlan [1-4094] root	Shows information about the root bridge for a specific VLAN	VLAN > STP	nformation shown includes: The root bridge ID, including the priority number and the MAC address. The cost to the root bridge from the local switch. The local port that is the root port.	

			CCNA Network Commands			
Device	Mode	Command	Action	Configuration	Notes	Layer
Switch	#	show spanning-tree vlan [1-4094] bridge	Shows spanning tree configuration information about the local switch for the specified VLAN.	VLAN > STP	Information includes the local bridge ID, including the priority and MAC address.	
Switch	Conf	spanning-tree mode {pvst rapid-pvst mst}	Sets the spanning tree mode.	VLAN > STP	PVST+ and Rapid PVST+ are the same except that Rapid PVST+ uses a rapid convergence based on the 802.1 w standard. To provide rapid convergence, Rapid PVST+ deletes learned MAC address entries on a perport basis after receiving a topology change.	
Switch	Conf	spanning-tree vlan [1-4094] root primary	Forces the switch to be the root of the spanning tree.	VLAN > STP		
Switch	Conf	spanning-tree vlan [1-4094] cost [1 - 200000000]	Sets the cost manually.	VLAN > STP	The cost range value depends on the path-cost calculation method For the short method the range is 1 to 65536. For the long method the range is from 1 to 2000000000.	
Switch	Conf	spanning-tree vlan [1-4094] priority [0-61440]	Sets the bridge priority number manually	VLAN > STP	The priority value ranges between 0 and 61440. Each switch has the default priority of 32768. Priority values are set in increments of 4096. If you enter another number, your value will be rounded to the closest increment of 4096, or you will be prompted to enter a valid value. The switch with the lowest priority number becomes the root bridge.	
Switch	int	spanning-tree portfast	Enables PortFast on the interface	VLAN > STP	For edge-type interface. When the PortFast feature is enabled, the interface changes directly from a blocking state to a forwarding state without making the intermediate spanning-tree state changes.	
Switch	Conf	spanning-tree uplinkfast	Enables UplinkFast	VLAN > STP	Enables UplinkFast to accelerate the choice of a new root port when a link or switch fails or when the spanning tree reconfigures itself.	
Switch	Conf	no spanning-tree vlan [1-4094]	Disables spanning tree on the selected VLAN.	VLAN > STP		
- 711011	- Routers		2.522.55 Sparining 455 On the solicited VENIV.	12.11		
Router	int	clock rate	Sets the clock rate on the DCE serial interface.	Serial	The rate should be set in bits per second (bps). In the back-to-back router lab configuration, if the clock rate command is not issued on the DCE, clocking is not provided and the interface status between the two routers will not change to up.	

	CCNA Network Commands					
Device	Mode	Command	Action	Configuration	Notes	Layer
Router	int	ip address [address] [mask]	Assigns an IP address and subnet mask to the interface	Serial	int s0/0/0 ip address 192.168.2.17 255.255.255.252	
Router	int	encapsulation ppp encapsulation frame-relay	Modifies the router encapsulation method	Serial	Encapsulation method should match for both routers	
Router	#	sh interfaces	Displays all interface configurations including serial connection encapsulation and bandwidth	Interfaces		
Router	#	sh ip int brief	Displays consolidated message about each IP	IP	This includes its IP address, line and protocol status, and how the address was configured (DHCP or Manual).	
Router	#	sh run	Displays clock rate and bandwidth of a serial configuration	Serial		
Router	#	sh controllers [serial interface]	Displays the serial interface configuration	Serial	> sh controllers in s0/0/0 Includes the type of serial cable and which end of the cable is connected to the device, DCE or DTE.	
Router	int	int ser 0/1/0 ip address 192.168.1.229 255.255.255.0 no shutdown	Configurate IP and activate	Serial	configures the IP address 192.168.1.229 with a mask of 255.255.255.0 for the first serial interface on the router and activates the interface	
Router	int	ip nat inside	Configure NAT to specify which interface is on the internal side	Interfaces		
Router	int	ip nat outside	Configure NAT to specify which interface is on the external side	Interfaces		
Router	int	show ip nat translations	Display NAT Table			