

SwitchRouterCommands

These commands applies to both switch and routers.

SNo:	Action	Commands
1	Assign hostname to a switch	Switch>enable Switch#config terminal Switch(config)# hostname S! (name of switch as chosen by lecturer) S1(config)# exit
2	Disable DNS lookup	S1>enable S1#configure terminal S1(config)#no ip domain-lookup
3	Secure access to the console line (set password for access to user executive mode)	S1> enable S1# configure terminal S1(config)# line console 0 S1(config-line)# password letmein (password as assigned by lecturer) S1(config-line)# login S1(config-line)# exit S1(config)# exit %SYS-5-CONFIG_I: Configured from console by console S1#
4	Secure privilege mode access (set password for access to privileged executive mode)	S1>enable S1# configure terminal S1(config)# enable password cisco (password as assigned by lecturer) S1(config) # exit SYS-5-CONFIG_I: Configured from console by console S1#
5	Secure privilege mode access secret (set encrypted password for access to privilege executive mode) Note: "enable secret" will overwrite "enable password" in (3)	S1>enable S1# configure terminal S1(config)# enable secret cisco_secret (password as assigned by lecturer) S1(config)#exit S1#
6	To encrypt service password (This command is used only when you have forgotten to encrypt your password as in 4)	S1# config t S1(config)# service password-encryption S1(config) # exit S1#
7	To remove password	S1>enable S1#configure terminal S1(config)# no enable password

		S1(config)# exit S1#
8	To remove secret password	S1>enable S1#configure terminal S1(config)# no enable secret S1(config)# exit S1#
9	Configure a MOTD Banner	S1# config t S1(config)# banner motd #This is a secure system. Authorized Access only# S1(config)# exit
10	To assign ip address to an interface	S1> enable S1# configure terminal S1(config)#interface fa0/0 S1(config-if)#ip address 192.168.110.120 255.255.255.0 S1(config-if)#no shut S1(config-if)# exit S1(config)#exit S1#exit S1>
11	To configure VTY line for Telnet remote access	(assign IP address for vlan1) Switch1(config)#int vlan1 Switch1(config-if)#ip address 10.0.0.1 255.0.0.0 Switch1(config-if)#no shut
12	Set enable password and assign to vty lines.	Switch1(config)#line vty 0 4 Switch1(config-line)#password cisco Switch1(config-line)#login
13	Save configuration files to NVRAM	S1# copy running-config startup-config Destination filename (startup-config)? [Enter] Build configuration..... [ok]
14	To configure Telnet	<ol style="list-style-type: none"> 1) Configure Privilege Exec encrypted password 2) Configure console password and enable login 3) Assign console password as the VTY password and enable login 4) Encrypt plaintext passwords 5) Configure domain for the device: eg. R1(config)# ip domain-name ccna-lab.com 6) Configure encryption key method ---- R1(config)# crypto key generate rsa Enter bit --- (modulus – 1024)

		<p>7) Configure a local database username --- R1(config)# username admin privilege 15 secret adminpass (privilege level of 15 gives the user administrator rights)</p> <p>8) Enable VTY lines R1(config)# line vty 0 4 R1(config-line)# transport input telnet R1(config-line)# transport input ssh (either telnet or ssh but not both at the same time.)</p> <p>9) Change login method to use the local database for user verification. R1(config)# login local R1(config)# end</p> <p>10) Save running configuration: R1# copy running-config startup-config</p>
15	Telnet command	At command prompt Pc>telnet 192.168.1.1
16	Ssh command	At command prompt Pc>ssh -l admin 192.168.1.1 Note "l" is a character
17	Router – rip, set to version 2 to allow ClassLess Subnet Mask e.g. with subnet mask of 25 to 27 bits.	R1>enable R1#config t R1(config)#router rip R1(config-router)# version 2
18	Configure domain name	Ri(config)# ip domain-name domain.com (eg. Ccna-lab.com)
19	Configure encryption key method	R1(config)# crypto key generate rsa How many bits in the modulus [512] : 1024 The name for the keys will be: R1.ccna-lab.com
20	Configure a local database username	R1(config)# username admin privilege 15 secret adminpass
21	Enable SSH on the VTY lines	R1(config)# line vty 0 4 R1(config-line)# transport input telnet ssh
22	Change login method to use local database for user verification	R1(config-line)# login local R1(config-line)# end