Packet Tracer - Skills Integration Challenge

Addressing Table

Device:	Interface:	IP Address:	Subnet Mask:
-Main	-G0/0	-10.10.10.1	-255.255.255.0
-NetAdmin	-NIC	-10.10.10.2	-255.255.255.0

Scenario
The network administrator has asked you to prepare a router for deployment. Before it can be connected to the network, security measures must be enabled. In this activity, you will encrypt and configure strong passwords. You will then configure SSH for remote access and demonstrate that you can access the router from a PC.

Requirements
- Configure IP addressing on NetAdmin and Main.
- Configure the hostname as Main and encrypt all plain text passwords.
- Set a strong secret password of your choosing.
- Set the domain name to Main (case-sensitive).
- Create a user of your choosing with a strong password.
- Generate 1024-bit RSA keys.

Note: In Packet Tracer, enter the crypto key generate rsa command, and press Enter to continue.

- Block anyone for three minutes who fails to log in after four attempts within a two-minute period.
- Configure line the VTY lines for SSH access and require the local user profiles.
- Save the configuration to NVRAM.
- Be prepared to demonstrate to your instructor that you have established SSH access from NetAdmin to Main.

Step 1: - Configure IP addressing on NetAdmin and Main.
- To configure the NetAdmin...
- Click 'NetAdmin'; Desktop; IP Configuration;
- Enter 'IP Address': 10.10.10.2 and 'Subnet Mask': 255.255.255.0
- Click X

- To configure the Main...
- Click 'NetAdmin'; Terminal; OK;
- Enter: enable
- Enter: configure terminal
- Enter: int g0/0
- Enter: ip address 10.10.10.1 255.255.255.0
- Enter: no shutdown

Step 2: - Configure the hostname as Main and encrypt all plain text passwords.
- Enter: exit
- Enter: hostname Main
- Enter: service password-encryption

Step 3: - Set a strong secret password of your choosing.
- Enter: enable secret itsasecret

Step 4: - Set the domain name to Main (case-sensitive).
- Enter: ip domain-name Main

Step 5: - Create a user of your choosing with a strong password.
- Enter: username admin password c1$c0

Step 6: - Generate 1024-bit RSA keys.

Note: In Packet Tracer, enter the crypto key generate rsa command, and press Enter to continue.

- Enter: crypto key generate rsa
- Enter: 1024

Step 7: - Block anyone for three minutes who fails to log in after four attempts within a two-minute period.
- Enter: login block-for 180 attempts 4 within 120

Step 8: - Configure line the VTY lines for SSH access and require the local user profiles.
- Enter: line vty 0 15
- Enter: transport input ssh
- Enter: login local
- Enter: exit

Step 9: - Save the configuration to NVRAM.
- Enter: end
- Enter: copy running startup

Step 10: - Be prepared to demonstrate to your instructor that you have established SSH access from NetAdmin to Main.
- Enter: ssh -l admin 10.10.10.1
- Enter: c1$c0

- Enter: enable
- Enter: itsasecret
Optional - Enter: show run

Click 'NetAdmin', if necessary; Select 'IP Configuration';
--Under 'Default Gateway':
- Enter: 10.10.10.1