

## Scenario

You are interviewing with Verizon for a possible hiring as a security administrator. The interviewing team provided you with a console session to a CISCO 2911 router, 2960 Switch and a server. Install packet tracer then demonstrate to the interviewing team your ability to perform basic security procedures for the three devices. Open CISCO packet tracer, add and connect the three devices correctly, then complete this project.

1. Configure the router and the switch physical and logical as follow  
R your assigned number and S your assigned number Example(S5 R5 if 5 is my assigned number)
2. Set the correct date and time for the router and the switch
3. Prevent the router from attempting to resolve command line entries to IP addresses.
4. Prevent device status messages from interrupting command line entries at the device console.

5. Require newly entered passwords to have a minimum length of 10 characters.
6. Create a user with the name **admin** and a secret password of **class2022+your number** Give the user the highest administrative privileges
7. Making this account the only allowed user to login to all intermediary network devices.
8. Protect device configurations from unauthorized access with the encrypted privileged exec password. **class2022+your number**
9. Secure the console terminal, and auxiliary lines. (Aux Router Only)
10. Configure the router and the switch to only accept in-band management connections over the protocol that is more secure than Telnet. Use the value **1024** for encryption key strength
11. Prevent all passwords from being viewed in clear text in the device configuration file.
12. Configure a message-of-the-day banner.
13. (authorized access only)

14. Create a user banner that Display  
(!!Warning this is a restricted access.  
Unauthorized access is prohibited)
15. On the switch , using your assigned number,  
create a management VLAN, and add all the  
interfaces to it.
16. Create a vlan interface for it and assign the  
second usable IP address to it
17. SwitchVLAN IP address 10.16.99.2/27
18. RouterGigabit 0/0 IP Address 10.16.99.1/27
19. TFTP Server IP address 10.16.99.3/27
20. Update all IOSs on bothe network devices  
to the latest IOS available on the TFTP server
21. Backup all network configuration to the  
TFTP.

Save the project as

**First+Last name+date+security Project**

**Upload your final project to this assignment**

First name	Last name	Number
Maricris	Flores	12
Brian	Gomez	14
Clayton	Heidt	16
Jacob	Jones	18

Gurleen	Kaur	20
Lap	Le	22
Seung Kyu	Lee	24
Mohit	patel	26
RUTVIK	PATEL	28
Rutvik	Patel	30
Usman	Raees	32
Danny-Kyrollo s	Said	34
Obson	Saint-fleur	36
Andrew	Suarez	38
Marco	wadea	40