[Answers] 2.5.5 Packet Tracer - Configure Initial Switch Settings
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Part 1: Verify the Default Switch Configuration
    Step 2: Examine the current switch configuration.
- How many Fast Ethernet interfaces does the switch have? **24**
- How many Gigabit Ethernet interfaces does the switch have? **2**
- What is the range of values shown for the vty lines? **16**
- Which command will display the current contents of non-volatile random-access memory (NVRAM)?
  - **show startup-config**
  - If it shows "startup-config is not present," that means there is no content in the RAM.
- Why does the switch respond with "startup-config is not present?"
  - Whenever we do configuration in any network device, it will go to RAM, not to NVRAM. So if you want to save from RAM to NVRAM, we have to copy it from RAM to NVRAM. So until and unless we copy the content of RAM to NVRAM, there won't be any content in NVRAM.

Part 2: Create a Basic Switch Configuration
    Step 2: Secure access to the console line.
- Why is the login command required?
  - The login command enables password checking. So whenever we access the device, it will prompt for the password. The command basically activates its job of asking the user for the password.

    Step 7: Verify that the enable secret password is added to the configuration file.
- What is displayed for the enable secret password?
  - An encrypted password, like "5 1mERr$ILwq/b7kc.7X/ejA4Aosn0"
- Why is the enable secret password displayed differently from what we configured?
  - We configured the password to be "secret," so obviously we are going to configure an encrypted password. Thus, the password comes out as a jumble of characters, numbers, and symbols, rather than showing the actual password.
  - If someone is looking over your shoulder or obtains access to the configuration files stored in a backup location, then it would be impossible to understand the encrypted password.

    Step 8: Encrypt the enable and console passwords.
- If you configure any more passwords on the switch, will they be displayed in the configuration file as plain text or in encrypted form? Explain.
  - The passwords will be displayed in encrypted form. The command "service password-encryption," the passwords we set and will set in the future will be encrypted.

Part 3: Configure a MOTD Banner

Step 1: Configure a message of the day (MOTD) banner.

- When will this banner be displayed?
    - When we access console (the level where we have to enter the "letmein" password)
- Why should every switch have a MOTD banner?
    - It's better to set an MOTD banner on every device because it's a security warning to intruders.

Part 4: Save and Verify Configuration Files to NVRAM

Step 1: Verify that the configuration is accurate using the show run command.

- What is the shortest, abbreviated version of the copy running-config startup-config command?
    - cop r st
- Which command will display the contents of NVRAM?
    - show startup-config
- Are all the changes that were entered recorded in the file?
    - yes