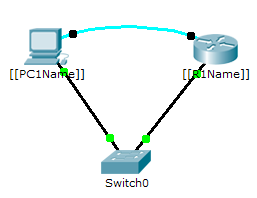
Packet Tracer – Configuring Secure Passwords and SSH

Topology



Addressing Table

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Device | Interface | IP Address | Subnet Mask | Default Gateway |
|  | G0/0 |  | 255.255.255.0 | N/A |
|  | NIC |  | 255.255.255.0 |  |

1. Scenario

The network administrator has asked you to prepare **\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_** for deployment. Before it can be connected to the network, security measures must be enabled.

Requirements

* Configure IP addressing on **\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_** according to the Addressing Table.
* Console into **\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_** from the Terminal on PC-A.
* Configure IP addressing on **\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_** and enable the interface.
* Configure the hostname as **\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**.
* Encrypt all plaintext passwords.

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_(config)# **service password-encryption**

* Set a strong secret password of your choosing.
* Set the domain name to **\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_.com** (case-sensitive for scoring in PT).

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_(config)# **ip domain-name [[R1Name]].com**

* Create a user of your choosing with a strong password.

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_(config)# **username *any\_user* password *any\_password***

* Generate 1024-bit RSA keys.

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

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_(config)# **crypto key generate rsa**

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

* Block anyone for three minutes who fails to log in after four attempts within a two-minute period.

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_(config)# **login block-for 180 attempts 4 within 120**

* Configure the VTY lines for SSH access and use the local user profiles for authentication.

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_(config)# **line vty 0 4**

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_(config-line)# **transport input ssh**

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_(config-line)# **login local**

* Save the configuration to NVRAM.
* Be prepared to demonstrate to your instructor that you have established SSH access from **\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_** to **\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**.

Isomorph ID: **\_\_\_\_\_\_\_ \_\_\_\_\_\_\_ \_\_\_\_\_\_\_**