

Packet Tracer - Configuração básica do switch e do dispositivo final

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Tabela de Endereçamento

Dispositivo	Interface	Endereço IP	Máscara de sub-rede
[[S1Name]]	VLAN 1	[[S1Add]]	255.255.255.0
[[S2Name]]	VLAN 1	[[S2Add]]	255.255.255.0
[[PC1Name]]	NIC	[[PC1Add]]	255.255.255.0
[[PC2Name]]	NIC	[[PC2Add]]	255.255.255.0

Objetivos

- Configurar nomes de host e endereços IP em dois switches Cisco Internetwork Operating System (IOS) pela interface de linha de comando (CLI).
- Usar comandos do Cisco IOS para especificar ou limitar o acesso às configurações de dispositivo.
- Usar os comandos IOS para salvar a configuração em execução.
- Configurar dois dispositivos host com endereços IP.
- Verificar a conectividade entre os dois dispositivos finais de PC.

Cenário

Como um técnico de LAN recém-contratado, o gerente de redes pediu que você demonstrasse sua habilidade para configurar uma pequena LAN. Suas tarefas incluem definir as configurações iniciais em dois switches com Cisco IOS e configurar parâmetros de endereço IP nos dispositivos host para fornecer conectividade completa. Você usará dois switches e dois hosts/PCs em uma rede cabeada e ligada.

Instruções

Configure os dispositivos para atender aos requisitos abaixo.

Requisitos

- Use uma conexão de console para acessar cada switch.
- Nomeie os switches como **[[S1Name]]** e **[[S2Name]]**.
- Use a senha **[[LinePW]]** para todas as linhas.
- Use a senha secreta **[[SecretPW]]**.
- Criptografe todas as senhas em texto simples.
- Configure um banner de mensagem do dia (MOTD) apropriado.
- Configure o endereçamento de todos os dispositivos de acordo com a Tabela de endereços.
- Salve suas configurações.

- Verifique a conectividade entre todos os dispositivos.

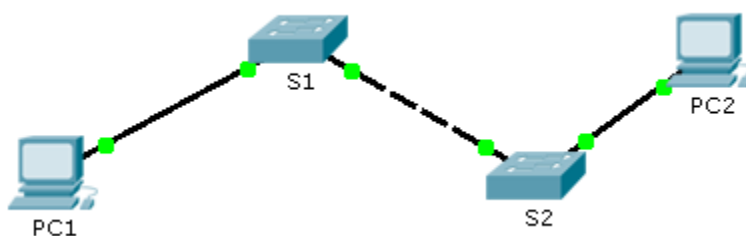
Nota: Clique em **Verificar resultados** para ver seu progresso. Clique em **Redefinir atividade** para gerar um novo conjunto de requisitos. Se você clicar nessa opção antes de concluir a atividade, todas as configurações serão perdidas.

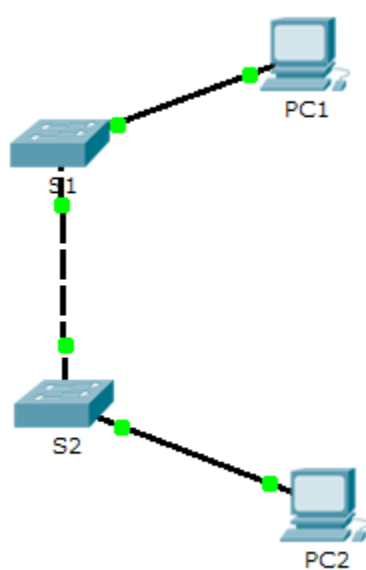
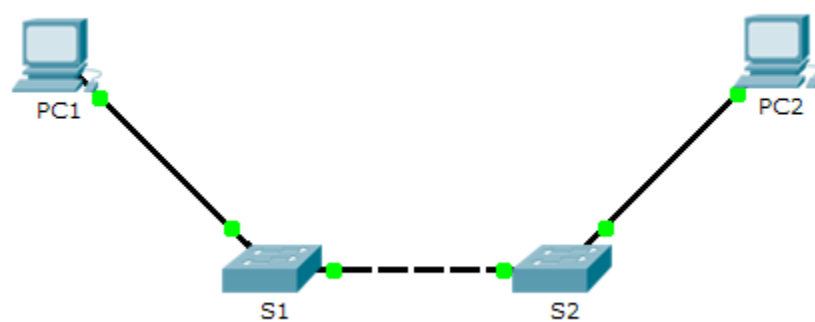
ID: [[indexNames]][[indexPWs]][[indexAddrs]][[indexTopos]]

Dispositivo	Interface	Endereço	Máscara de sub-rede
ASw-1	VLAN 1	128.107.20.10	255.255.255.0
ASw-2	VLAN 1	128.107.20.15	255.255.255.0
User-01	NIC	128.107.20.25	255.255.255.0
User-02	NIC	128.107.20.30	255.255.255.0

Dispositivo	Interface	Endereço IP	Máscara de sub-rede
ASw-1	VLAN 1	172.16.5.35	255.255.255.0
ASw-2	VLAN 1	172.16.5.40	255.255.255.0
User-01	NIC	172.16.5.50	255.255.255.0
User-02	NIC	172.16.5.60	255.255.255.0

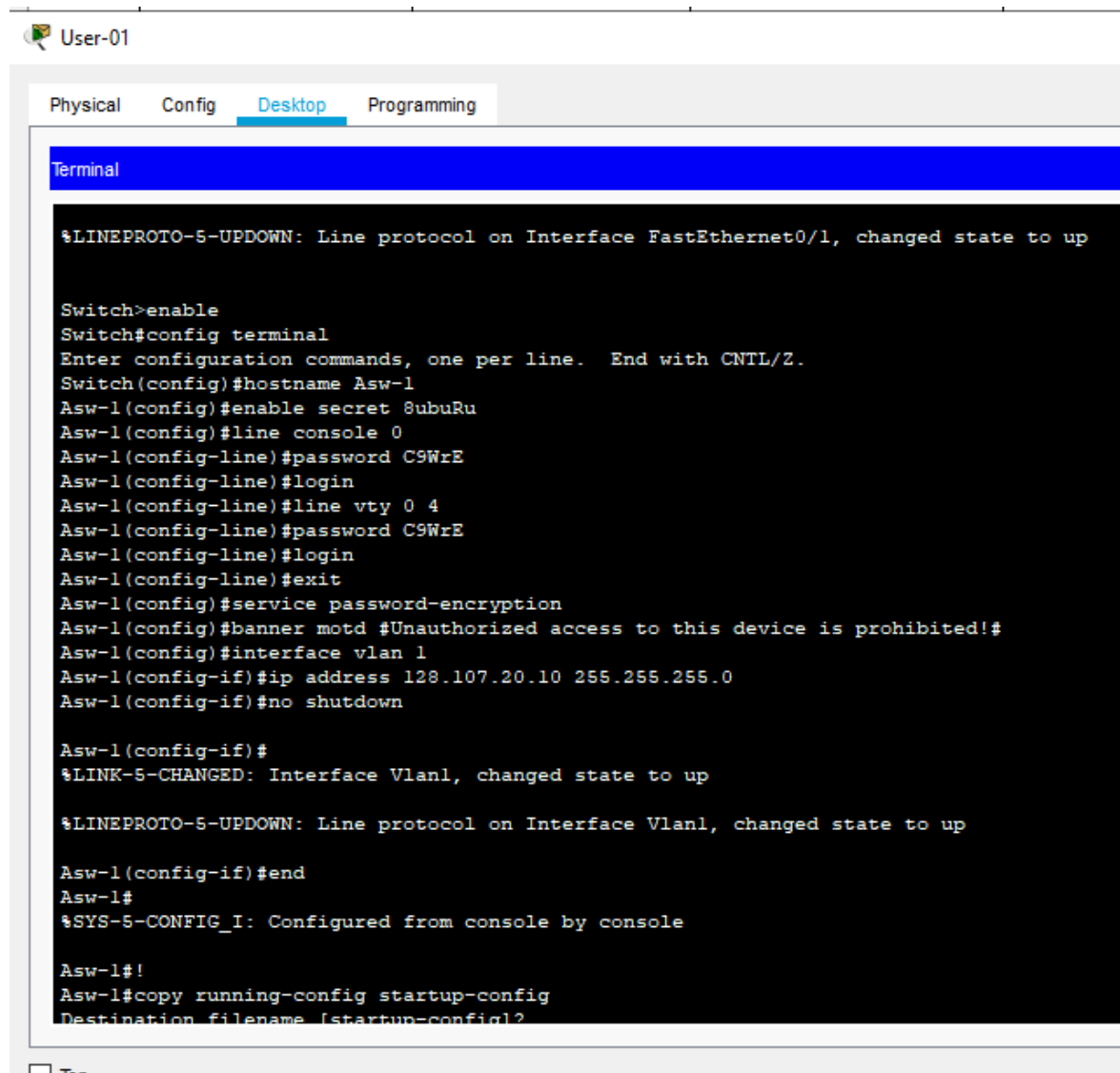
Dispositivo	Interface	Endereço	Máscara de sub-rede
Room-145	VLAN 1	172.16.5.35	255.255.255.0
Room-146	VLAN 1	172.16.5.40	255.255.255.0
Manager	NIC	172.16.5.50	255.255.255.0
Reception	NIC	172.16.5.60	255.255.255.0





Evidencias da realização da atividade: PARTE 1

User-01/ASw-1



User-01

Physical Config **Desktop** Programming

Terminal

```
%LINEPROTO-5-UPDOWN: Line protocol on Interface FastEthernet0/1, changed state to up

Switch>enable
Switch#config terminal
Enter configuration commands, one per line. End with CNTL/Z.
Switch(config)#hostname Asw-1
Asw-1(config)#enable secret 8ubuRu
Asw-1(config)#line console 0
Asw-1(config-line)#password C9WrE
Asw-1(config-line)#login
Asw-1(config-line)#line vty 0 4
Asw-1(config-line)#password C9WrE
Asw-1(config-line)#login
Asw-1(config-line)#exit
Asw-1(config)#service password-encryption
Asw-1(config)#banner motd #Unauthorized access to this device is prohibited!#
Asw-1(config)#interface vlan 1
Asw-1(config-if)#ip address 128.107.20.10 255.255.255.0
Asw-1(config-if)#no shutdown

Asw-1(config-if)#
%LINK-5-CHANGED: Interface Vlan1, changed state to up

%LINEPROTO-5-UPDOWN: Line protocol on Interface Vlan1, changed state to up

Asw-1(config-if)#end
Asw-1#
%SYS-5-CONFIG_I: Configured from console by console

Asw-1#!
Asw-1#copy running-config startup-config
Destination filename [startup-config]?
```

User-01

Physical Config **Desktop** Programming

IP Configuration X

Interface: FastEthernet0

IP Configuration

☐ DHCP ☒ Static

IP Address: 128.107.20.25

Subnet Mask: 255.255.0.0

Default Gateway: 0.0.0.0

DNS Server: 0.0.0.0

IPv6 Configuration

☐ DHCP ☐ Auto Config ☒ Static

IPv6 Address: /

Link Local Address:

IPv6 Gateway:

IPv6 DNS Server:

802.1X

☐ Use 802.1X Security


Authentication: MD5

Username:

Password:

☐ Top

User-02/ASw-2

 User-02

Physical Config **Desktop** Programming

Terminal

```
AsW-2>config terminal
^
% Invalid input detected at '^' marker.

AsW-2>enable
AsW-2#config t
Enter configuration commands, one per line. End with CNTL/Z.
AsW-2(config)#enable secret C9Wre
AsW-2(config)#line console 0
AsW-2(config-line)#password 8ubRu
AsW-2(config-line)#login
AsW-2(config-line)#line vty 0 4
AsW-2(config-line)#password 8ubRu
AsW-2(config-line)#login
AsW-2(config-line)#exit
AsW-2(config)#service password-encryption
AsW-2(config)#banner motd #Unauthorized access to this device is prohibited!#
AsW-2(config)#interface vlan 1
AsW-2(config-if)#ip address 128.107.20.15 255.255.255.0
AsW-2(config-if)#no shutdown

AsW-2(config-if)#
%LINK-5-CHANGED: Interface Vlan1, changed state to up

%LINEPROTO-5-UPDOWN: Line protocol on Interface Vlan1, changed state to up
end
AsW-2#
%SYS-5-CONFIG_I: Configured from console by console

AsW-2#copy running-config startup-config
Destination filename [startup-config]?
Building configuration...
[OK]
```

Physical Config **Desktop** Programming

IP Configuration

Interface: FastEthernet0

IP Configuration

☐ DHCP ☒ Static

IP Address: 128.107.20.30

Subnet Mask: 255.255.0.0

Default Gateway: 0.0.0.0

DNS Server: 0.0.0.0

IPv6 Configuration

☐ DHCP ☐ Auto Config ☒ Static

IPv6 Address:

Link Local Address:

IPv6 Gateway:

IPv6 DNS Server:

802.1X

☐ Use 802.1X Security

Authentication: MD5

Username:

Password:

☐ Top

PARTE 2:

ASw-1/User-01

User-01

Physical Config **Desktop** Programming

Terminal

```
%LINK-5-CHANGED: Interface FastEthernet0/1, changed state to up

%LINEPROTO-5-UPDOWN: Line protocol on Interface FastEthernet0/1, changed state to up

Switch>enable
Switch#config t
Enter configuration commands, one per line. End with CNTL/Z.
Switch(config)#hostname ASw-2
ASw-2(config)#enable secret 6EBUp
ASw-2(config)#line console 0
ASw-2(config-line)#password xAw6k
ASw-2(config-line)#login
ASw-2(config-line)#line vty 0 4
ASw-2(config-line)#password xAw6k
ASw-2(config-line)#login
ASw-2(config-line)#exit
ASw-2(config)#service password-encryption
ASw-2(config)#banner motd #Unauthorized access to this device is prohibited!#
ASw-2(config)#interface vlan 1
ASw-2(config-if)#ip address 172.16.5.35 255.255.255.0
^
% Invalid input detected at '^' marker.

ASw-2(config-if)#ip address 172.16.5.35 255.255.255.0
ASw-2(config-if)#no shutdown

ASw-2(config-if)#
%LINK-5-CHANGED: Interface Vlan1, changed state to up

%LINEPROTO-5-UPDOWN: Line protocol on Interface Vlan1, changed state to up
end
ASw-2#
%SYS-5-CONFIG_I: Configured from console by console
copy running-config startup-config
Destination filename [startup-config]?
Building configuration...
[OK]
ASw-2#
```

☐ Top

ASw-2/User-02

User-02

Physical Config **Desktop** Programming

Terminal

```
Switch>enable
Switch#config t
Enter configuration commands, one per line. End with CNTL/Z.
Switch(config)#hostname ASw-2
ASw-2(config)#enable secret 6EBUp
ASw-2(config)#line console 0
ASw-2(config-line)#password
% Incomplete command.
ASw-2(config-line)#password xAw6k
ASw-2(config-line)#login
ASw-2(config-line)#line vty 0 4
ASw-2(config-line)#password xAw6k
ASw-2(config-line)#login
ASw-2(config-line)#exit
ASw-2(config)#service password-encryption
ASw-2(config)#banner motd #Unauthorized access to this device is prohibited!#
ASw-2(config)#
ASw-2(config)#interface vlan 1
ASw-2(config-if)#ip address 128.16.5.40 255.255.255.0
ASw-2(config-if)#no shutdown

ASw-2(config-if)#
%LINK-5-CHANGED: Interface Vlan1, changed state to up

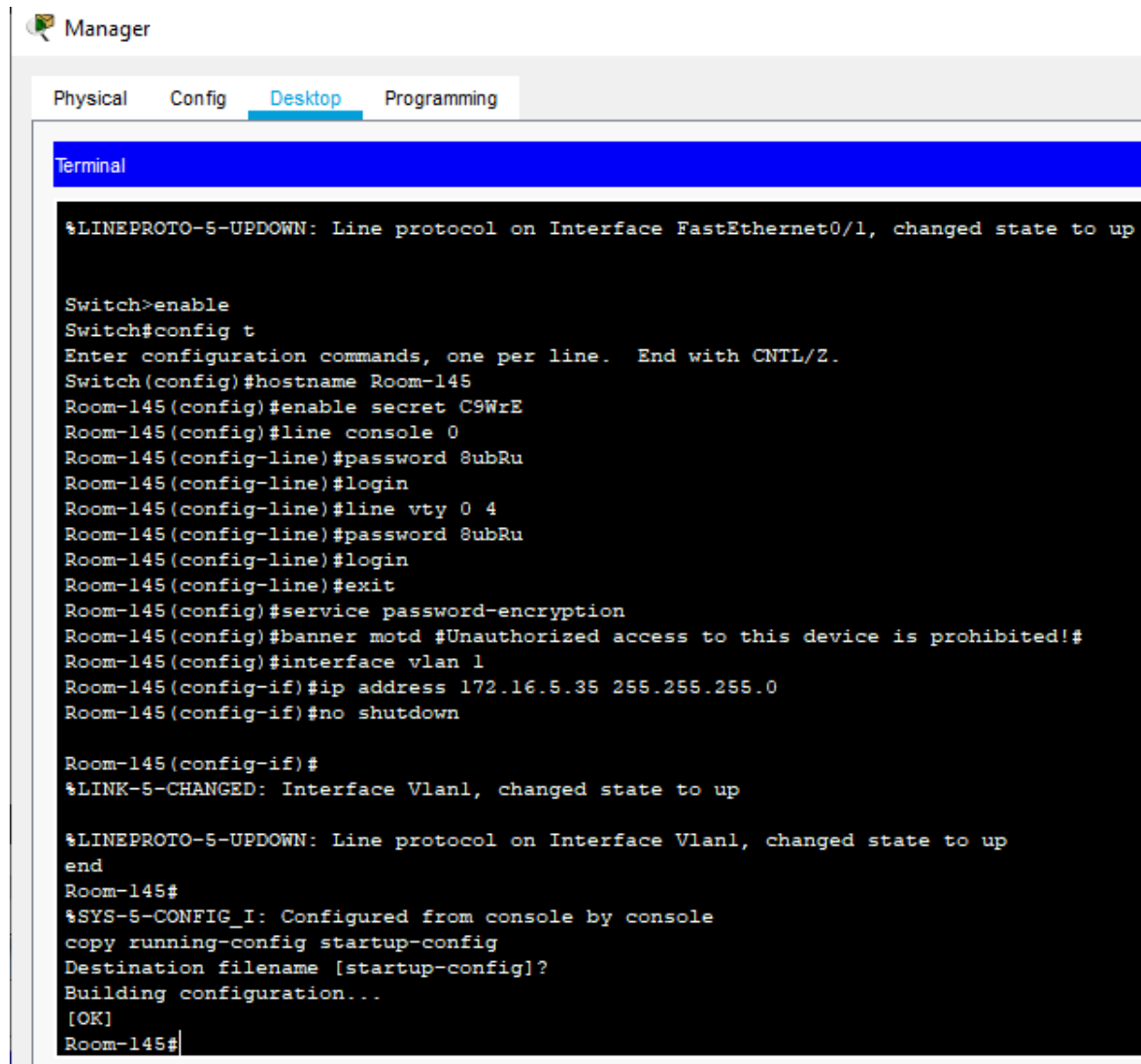
%LINEPROTO-5-UPDOWN: Line protocol on Interface Vlan1, changed state to up
end
ASw-2#
%SYS-5-CONFIG_I: Configured from console by console
copy running-config startup-config
Destination filename [startup-config]?
Building configuration...
[OK]
ASw-2#
```

☐ Top

(Acabei resetando antes de tirar print dos ips config, nessa terceira parte irei adicionar)

PARTE 3:

Room-145/Manager



The screenshot shows the Cisco Packet Tracer Manager interface. At the top, there are four tabs: Physical, Config, Desktop, and Programming. The Desktop tab is selected. Below the tabs is a terminal window titled "Terminal". The terminal displays the following commands and output:

```
%LINEPROTO-5-UPDOWN: Line protocol on Interface FastEthernet0/1, changed state to up

Switch>enable
Switch#config t
Enter configuration commands, one per line. End with CNTL/Z.
Switch(config)#hostname Room-145
Room-145(config)#enable secret C9WrE
Room-145(config)#line console 0
Room-145(config-line)#password 8ubRu
Room-145(config-line)#login
Room-145(config-line)#line vty 0 4
Room-145(config-line)#password 8ubRu
Room-145(config-line)#login
Room-145(config-line)#exit
Room-145(config)#service password-encryption
Room-145(config)#banner motd #Unauthorized access to this device is prohibited!#
Room-145(config)#interface vlan 1
Room-145(config-if)#ip address 172.16.5.35 255.255.255.0
Room-145(config-if)#no shutdown

Room-145(config-if)#
%LINK-5-CHANGED: Interface Vlan1, changed state to up

%LINEPROTO-5-UPDOWN: Line protocol on Interface Vlan1, changed state to up
end
Room-145#
%SYS-5-CONFIG_I: Configured from console by console
copy running-config startup-config
Destination filename [startup-config]?
Building configuration...
[OK]
Room-145#
```

Manager

Physical Config **Desktop** Programming

IP Configuration X

Interface FastEthernet0

IP Configuration

☐ DHCP ☒ Static

IP Address 172.16.5.50

Subnet Mask 255.255.0.0

Default Gateway 0.0.0.0

DNS Server 0.0.0.0

IPv6 Configuration

☐ DHCP ☐ Auto Config ☒ Static

IPv6 Address /

Link Local Address

IPv6 Gateway

IPv6 DNS Server

802.1X

☐ Use 802.1X Security

Authentication MD5

Username

Password

Top

Room-146/Reception

Reception

Physical Config **Desktop** Programming

Terminal

```
%LINEPROTO-5-UPDOWN: Line protocol on Interface FastEthernet0/1, changed state to up
%LINK-5-CHANGED: Interface FastEthernet0/2, changed state to up
%LINEPROTO-5-UPDOWN: Line protocol on Interface FastEthernet0/2, changed state to up

Switch>enable
Switch#config t
Enter configuration commands, one per line. End with CNTL/Z.
Switch(config)#enable secret C9WrE
Switch(config)#line console 0
Switch(config-line)#password 8ubRu
Switch(config-line)#login
Switch(config-line)#line vty 0 4
Switch(config-line)#password 8ubRu
Switch(config-line)#login
Switch(config-line)#exit
Switch(config)#service password-encryption
Switch(config)#banner motd #Unauthorized access to this device is prohibited!#
Switch(config)#interface vlan 1
Switch(config-if)#ip address 172.16.5.40
% Incomplete command.
Switch(config-if)#ip address 172.16.5.40 255.255.255.0
Switch(config-if)#no shutdown

Switch(config-if)#
%LINK-5-CHANGED: Interface Vlan1, changed state to up

%LINEPROTO-5-UPDOWN: Line protocol on Interface Vlan1, changed state to up
end
Switch#
%SYS-5-CONFIG_I: Configured from console by console
copy running-config startup-config
```

☐ Top