

## Packet Tracer - Configuração básica do switch e do dispositivo final

### 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.

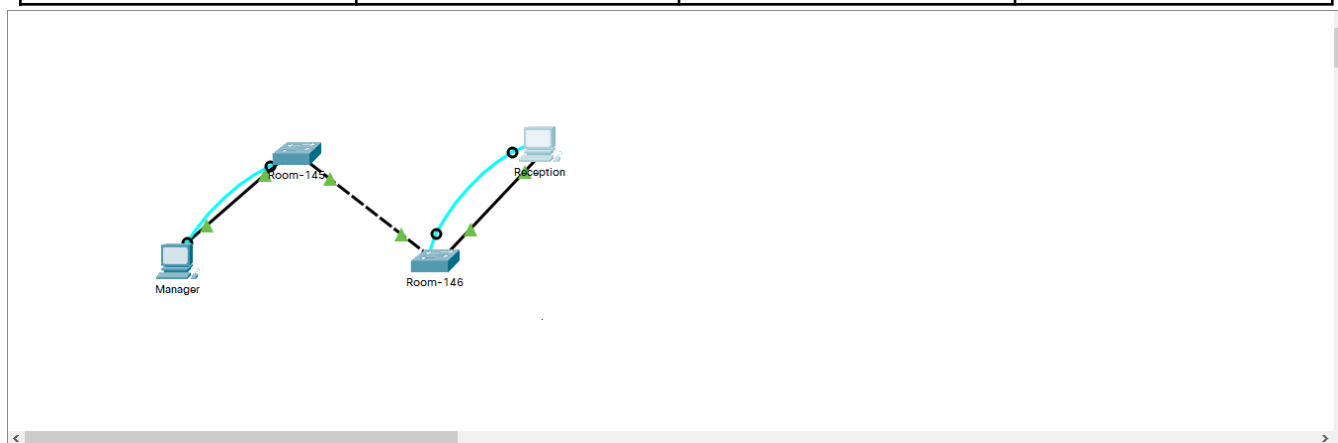
### Requisitos

- 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
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



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

Switch>enable
Switch#configure terminal
Enter configuration commands, one per line. End with CNTL/Z.
Switch(config)#hostname Room-145
Room-145(config)#line console 0
Room-145(config-line)# password 8ubRu
Room-145(config-line)#login
Room-145(config-line)#exit
Room-145(config)#line vty 0 15
Room-145(config-line)#password 8ubRu
Room-145(config-line)#login
Room-145(config-line)#exit
Room-145(config)#enable secret C9WrE
Room-145(config)#service password-encryption
Room-145(config)#banner motd "NAO PERMITIDO A ENTRADA SEM AUTENTICACAO"
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

Room-145(config-if)#^Z
Room-145#
%SYS-5-CONFIG_I: Configured from console by console

Room-145#copy running-config startup-config
Destination filename [startup-config]?
Building configuration...
[OK]
Room-145#
```

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

Switch>enable
Switch#configure terminal
Enter configuration commands, one per line.  End with CNTL/Z.
Switch(config)#hostname Room-146
Room-146(config)#line console 0
Room-146(config-line)#password 8ubRu
Room-146(config-line)#login
Room-146(config-line)#exit
Room-146(config)#line vty 0 15
Room-146(config-line)#password 8ubRu
Room-146(config-line)#login
Room-146(config-line)#exit
Room-146(config)#enable secret C9WrE
Room-146(config)#service password-encryption
Room-146(config)#banner motd "NAO PERMITIDO A ENTRADA SEM AUTENTICACAO"
Room-146(config)#interface vlan1
Room-146(config-if)#ip address 172.16.5.40 255.255.255.0
Room-146(config-if)#no shutdown

Room-146(config-if)#
%LINK-5-CHANGED: Interface Vlan1, changed state to up

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

Room-146(config-if)#^Z
Room-146#
%SYS-5-CONFIG_I: Configured from console by console

Room-146#copy running-config startup-config
Destination filename [startup-config]?
Building configuration...
[OK]
Room-146#
```

```

Packet Tracer PC Command Line 1.0
C:\>ping 172.16.5.60

Pinging 172.16.5.60 with 32 bytes of data:

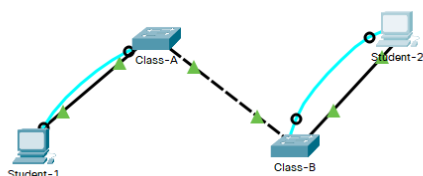
Reply from 172.16.5.60: bytes=32 time<1ms TTL=128
Reply from 172.16.5.60: bytes=32 time<1ms TTL=128
Reply from 172.16.5.60: bytes=32 time<1ms TTL=128
Reply from 172.16.5.60: bytes=32 time<1ms TTL=128

Ping statistics for 172.16.5.60:
    Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),
    Approximate round trip times in milli-seconds:
        Minimum = 0ms, Maximum = 0ms, Average = 0ms

C:\>

```

Dispositivo	Interface	Endereço	Máscara de sub-Rede
Class-A	VLAN 1	128.107.20.10	255.255.255.0
Class-B	VLAN 1	128.107.20.15	255.255.255.0
Student-1	NIC	128.107.20.25	255.255.255.0
Student-2	NIC	128.107.20.30	255.255.255.0



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

Switch>enable
Switch#configure terminal
Enter configuration commands, one per line. End with CNTL/Z.
Switch(config)#hostname Class-A
Class-A(config)#line console 0
Class-A(config-line)#password R4Xe3
Class-A(config-line)#login
Class-A(config-line)#exit
Class-A(config)#line vty 0 15
Class-A(config-line)#password R4Xe3
Class-A(config-line)#login
Class-A(config-line)#exit
Class-A(config)#enable secret C4aJa
Class-A(config)#service password-encryption
Class-A(config)#banner motd "NAO E PERMITIDO A ENTRADA SEM SENHA"
Class-A(config)#interface vlan 1
Class-A(config-if)#ip address 128.107.20.10 255.255.255.0
Class-A(config-if)#no shutdown

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

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

Class-A(config-if)#^Z
Class-A#
%SYS-5-CONFIG_I: Configured from console by console

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

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

Switch>enable
Switch#configure terminal
Enter configuration commands, one per line.  End with CNTL/Z.
Switch(config)#hostname Class-B
Class-B(config)#line console 0
Class-B(config-line)#password R4Xe3
Class-B(config-line)#login
Class-B(config-line)#exit
Class-B(config)#line vty 0 15
Class-B(config-line)#password R4Xe3
Class-B(config-line)#login
Class-B(config-line)#exit
Class-B(config)#enable secret C4aJa
Class-B(config)#service password-encryption
Class-B(config)#banner motd "NAO E PERMITIDO A ENTRADA SEM SENHA"
Class-B(config)#interface vlan 1
Class-B(config-if)#ip address 128.107.20.15 255.255.255.0
Class-B(config-if)#no shutdown

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

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

Class-B(config-if)#^Z
Class-B#
%SYS-5-CONFIG_I: Configured from console by console

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

```
Packet Tracer PC Command Line 1.0
C:\>ping 128.107.20.30

Pinging 128.107.20.30 with 32 bytes of data:

Reply from 128.107.20.30: bytes=32 time<1ms TTL=128
Reply from 128.107.20.30: bytes=32 time<1ms TTL=128
Reply from 128.107.20.30: bytes=32 time<1ms TTL=128
Reply from 128.107.20.30: bytes=32 time=9ms TTL=128

Ping statistics for 128.107.20.30:
    Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),
Approximate round trip times in milli-seconds:
    Minimum = 0ms, Maximum = 9ms, Average = 2ms

C:\>
```



```

Packet Tracer PC Command Line 1.0
C:\>ping 128.107.20.25

Pinging 128.107.20.25 with 32 bytes of data:

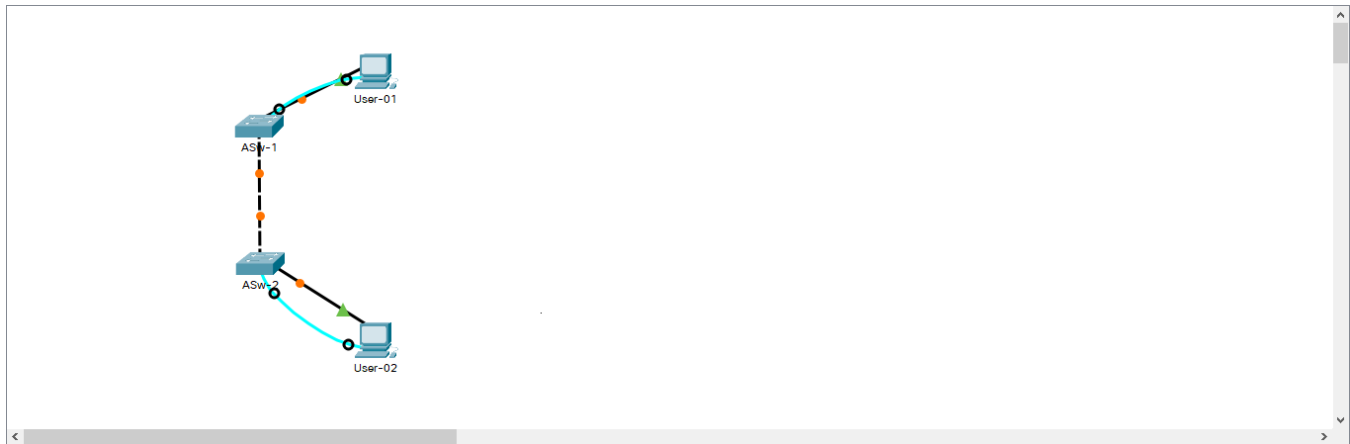
Reply from 128.107.20.25: bytes=32 time<1ms TTL=128
Reply from 128.107.20.25: bytes=32 time<1ms TTL=128
Reply from 128.107.20.25: bytes=32 time<1ms TTL=128
Reply from 128.107.20.25: bytes=32 time=9ms TTL=128

Ping statistics for 128.107.20.25:
    Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),
Approximate round trip times in milli-seconds:
    Minimum = 0ms, Maximum = 9ms, Average = 2ms

C:\>

```

Dispositivo	Interface	Endereço	Máscara de sub-Rede
ASw-1	VLAN 1	10.10.10.100	255.255.255.0
ASw-2	VLAN 1	10.10.10.150	255.255.255.0
User-01	NIC	10.10.10.4	255.255.255.0
User-02	NIC	10.10.10.5	255.255.255.0



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

```
Switch>enable
Switch#configure terminal
Enter configuration commands, one per line. End with CNTL/Z.
Switch(config)#hostname ASw-1
ASw-1(config)#line console 0
ASw-1(config-line)#password xAw6k
ASw-1(config-line)#login
ASw-1(config-line)#exit
ASw-1(config)#line vty 0 15
ASw-1(config-line)#password xAw6k
ASw-1(config-line)#login
ASw-1(config-line)#exit
ASw-1(config)#enable secret 6EBUp
ASw-1(config)#service password-encryption
ASw-1(config)#banner motd "NAO E PERMITIDO ENTRADA SEM SENHA"
ASw-1(config)#interface vlan 1
ASw-1(config-if)#ip address 10.10.10.100 255.255.255.0
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)#^Z
ASw-1#
%SYS-5-CONFIG_I: Configured from console by console
```

```
ASw-1#copy running-config startup-config
Destination filename [startup-config]?
Building configuration...
[OK]
ASw-1#
```

## Packet Tracer - Configuração básica do switch e do dispositivo final

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

```
Switch>enable
Switch#configure terminal
Enter configuration commands, one per line. End with CNTL/Z.
Switch(config)#hostname ASw-2
ASw-2(config)#line console 0
ASw-2(config-line)#password xAw6k
ASw-2(config-line)#login
ASw-2(config-line)#exit
ASw-2(config)#line vty 0 15
ASw-2(config-line)#password xAw6k
ASw-2(config-line)#login
ASw-2(config-line)#exit
ASw-2(config)#enable secret 6EBUp
ASw-2(config)#service password-encryption
ASw-2(config)#banner motd "NÃO É PERMITIDO A ENTRADA SEM SENHAS"
ASw-2(config)#interface vlan 1
ASw-2(config-if)#ip address 10.10.10.150 255.255.255.0
ASw-2(config-if)#no shutdown
^
% Invalid input detected at '^' marker.
ASw-2(config-if)#
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
ASw-2(config-if)#^Z
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]
ASw-2#
```

Packet Tracer PC Command Line 1.0

C:\>ping 10.10.10.5

Pinging 10.10.10.5 with 32 bytes of data:

```
Reply from 10.10.10.5: bytes=32 time<1ms TTL=128
Reply from 10.10.10.5: bytes=32 time<1ms TTL=128
Reply from 10.10.10.5: bytes=32 time<1ms TTL=128
Reply from 10.10.10.5: bytes=32 time=10ms TTL=128
```

Ping statistics for 10.10.10.5:

```
Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),
Approximate round trip times in milli-seconds:
    Minimum = 0ms, Maximum = 10ms, Average = 2ms
```

C:\>

