

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.

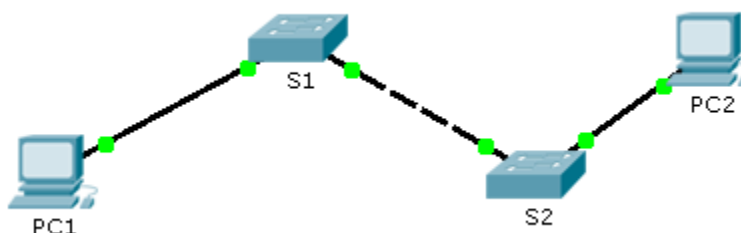
Nota: Clique em **Verificar resultados** para ver seu progresso. Clique em **Redefinir atividade** para gerar um novo conjunto de requisitos. Se você clicar nessa opção antes de concluir a atividade, todas as configurações serão perdidas.

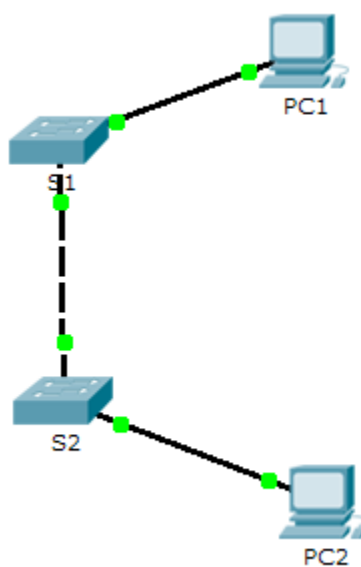
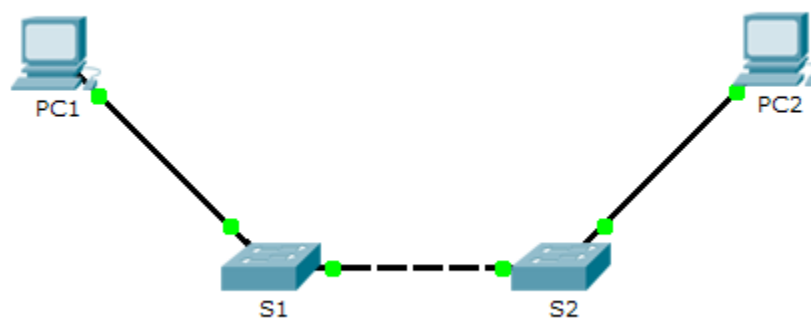
ID: [[indexNames]][[indexPWs]][[indexAddrs]][[indexTopos]]

Dispositivo	Interface	Endereço	Máscara de sub-Rede
Room-145	VLAN 1	10.10.10.100	255.255.255.0
Room-146	VLAN 1	10.10.10.150	255.255.255.0
Manager	NIC	10.10.10.4	255.255.255.0
Reception	NIC	10.10.10.5	255.255.255.0

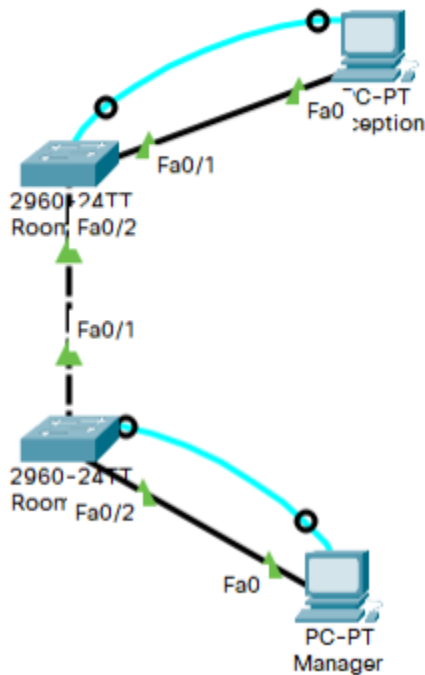
Dispositivo	Interface	Endereço	Máscara de sub-Rede
ASw-1	VLAN 1	10.10.10.100	255.255.255.0
ASw-2	VLAN 1	10.10.10.150	255.255.255.0
User-01	NIC	10.10.10.4	255.255.255.0
User-02	NIC	10.10.10.5	255.255.255.0

Dispositivo	Interface	Endereço	Máscara de sub-Rede
Class-A	VLAN 1	10.10.10.100	255.255.255.0
Class-B	VLAN 1	10.10.10.150	255.255.255.0
Student-1	NIC	10.10.10.4	255.255.255.0
Student-2	NIC	10.10.10.5	255.255.255.0





Requisitos:



```
%LINK-S-CHANGED: Interface FastEthernet0/1, changed state to up
%LINEPROTO-S-UPDOWN: Line protocol on Interface FastEthernet0/1, changed state to up
%LINK-S-CHANGED: Interface FastEthernet0/2, changed state to up
%LINEPROTO-S-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 Manager
Manager(config)#
```

```
%LINEPROTO-S-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 Reception
Reception(config)#
```

```
Reception>enable
Reception#configure terminal
Enter configuration commands, one per line. End with CNTL/Z.
Reception(config)#line console 0
Reception(config-line)#password 8ubRu
Reception(config-line)#exit
Reception(config)#line vty 0 15
Reception(config-line)#pass
Reception(config-line)#password
Reception(config-line)#password 7
Reception(config-line)#password 8ubRu
Reception(config-line)#login
Reception(config-line)#exit
```

```
Manager(config-line)#line vty 0 15
Manager(config-line)#password 8ubRu
Manager(config-line)#login
Manager(config-line)#
```

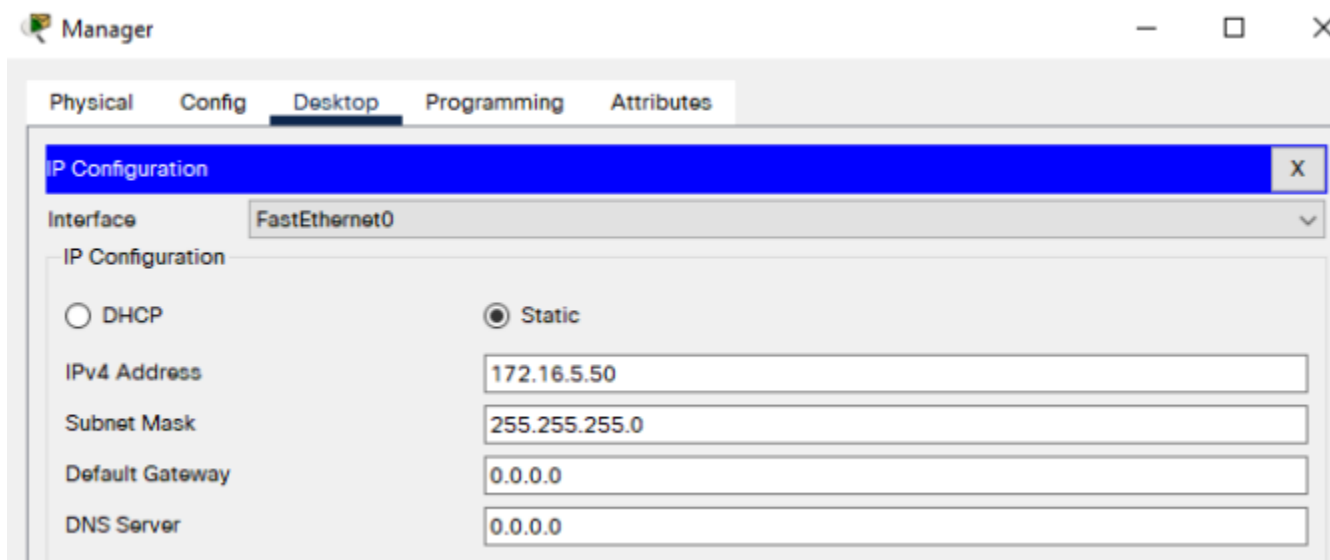
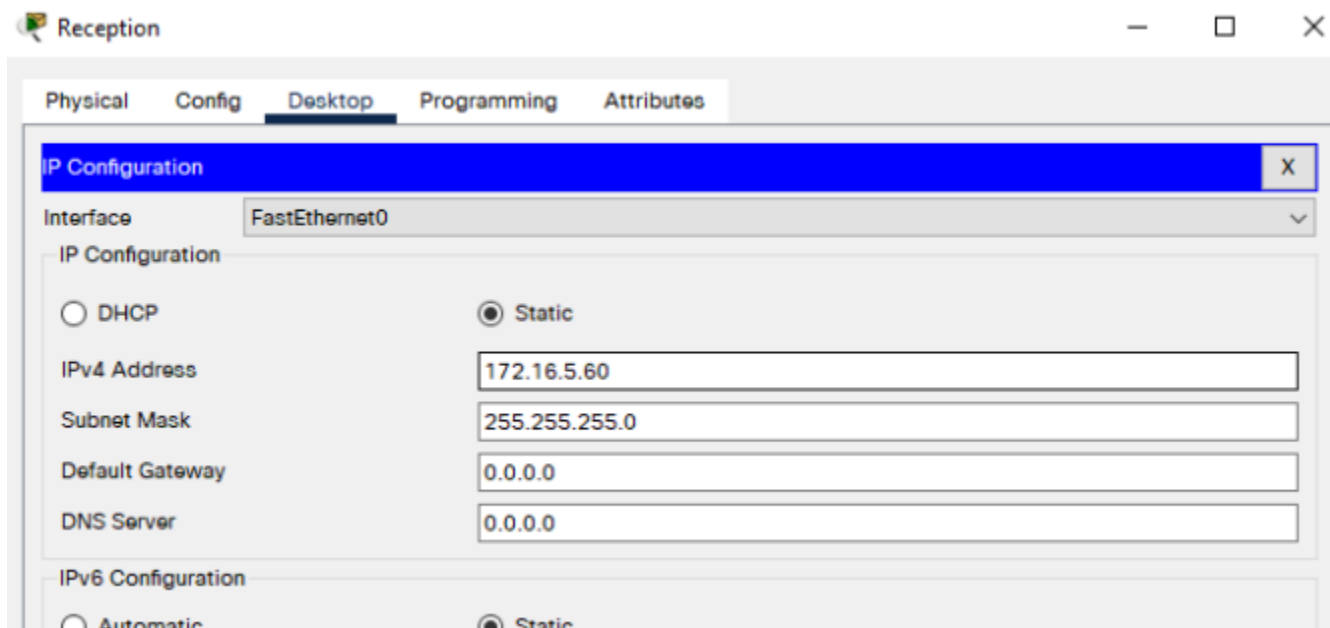
```
Reception>enable
Reception#configure terminal
Enter configuration commands, one per line. End with CNTL/Z.
Reception(config)#enable secret C4aJa
Reception(config)#
```

```
Reception>enable
Reception#configure terminal
Enter configuration commands, one per line. End with CNTL/Z.
Reception(config)#enable secret C4aJa
Reception(config)#enable secret C4aJa
Reception(config)#service password-encryption
Reception(config)#
```

```
Manager>enable
Manager#configure terminal
Enter configuration commands, one per line. End with CNTL/Z.
Manager(config)#service password-encryption
Manager(config)#
```

```
Reception>enable
Reception#configure terminal
Enter configuration commands, one per line. End with CNTL/Z.
Reception(config)#enable secret C4aJa
Reception(config)#enable secret C4aJa
Reception(config)#service password-encryption
Reception(config)#banner motd "Aviso! Acesso nao autorizado e estritamente proibido"
Reception(config)#
```

```
Manager>enable
Manager#configure terminal
Enter configuration commands, one per line. End with CNTL/Z.
Manager(config)#service password-encryption
Manager(config)#banner motd &Acesso nao autorizado e estreitamente proibido&
Manager(config)#
```



```
Manager>enable
Manager#configure terminal
Enter configuration commands, one per line. End with CNTL/Z.
Manager(config)#interface vlan 1
Manager(config-if)#ip address 172.16.5.35 255.255.255.0
Manager(config-if)#no shutdown

Manager(config-if)#
%LINK-5-CHANGED: Interface Vlan1, changed state to up
%LINEPROTO-5-UPDOWN: Line protocol on Interface Vlan1, changed state to up
```

```
Reception(config-if)#ip address 172.16.5.40 255.255.255.0
Reception(config-if)#no shutdown
Reception(config-if)#
```

```
Manager#copy run
Manager#copy running-config st
Manager#copy running-config startup-config
Destination filename [startup-config]?
Building configuration...
[OK]
Manager#
```

```
Reception#copy run
Reception#copy running-config st
Reception#copy running-config startup-config
Destination filename [startup-config]?
Building configuration...
[OK]
Reception#
```

```
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:\>|
```

Atividades Completas:

File Edit Options View Tools Extensions Window Help

Activity Results Time Elapsed: 09:13:23

Congratulations Guest! You completed the activity.

Overall Feedback **Assessment Items** Connectivity Tests

Expand/Collapse All Show Incorrect Items

Assessment Items	Status	Points	Component(s)	Feedback
Network				
Manager				
Ports				
FastEthernet0				
IP Address	Correct	8	IPv4 Host Addr...	
Subnet Mask	Correct	8	IPv4 Host Addr...	
Reception				
Ports				
FastEthernet0				
IP Address	Correct	8	IPv4 Host Addr...	
Subnet Mask	Correct	8	IPv4 Host Addr...	
Room-145				
Banner MOTO	Correct	2	Basic Security ...	
Console Line		0	Other	
Password	Correct	1	Basic Security ...	
Enable Secret	Correct	2	Basic Security ...	
Host Name	Correct	1	Hostname Conf...	
Ports				
Vlan1				
IP Address	Correct	7	IPv4 Host Addr...	
Port Status	Correct	5	IPv4 Host Addr...	
Subnet Mask	Correct	7	IPv4 Host Addr...	
Service Password Encryption	Correct	1	Basic Security ...	
Startup Config	Correct	2	Configuration M...	
VTY Lines		0	Other	
VTY Line 0		0	Other	
Password	Correct	1	Basic Security ...	
Room-146				
Banner MOTO	Correct	2	Basic Security ...	
Console Line		0	Other	
Password	Correct	1	Basic Security ...	

Score : 100/100

Item Count : 24/24

Component	Items/Total	Score
Basic Security Configuration	10/10	14/14
Configuration Management	2/2	4/4
Hostname Configuration	2/2	2/2
IPv4 Host Address Configuration	10/10	70/70
Connectivity		
Connectivity Tests	6/6	10/10

Close

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Activity Results Time Elapsed: 00:15:24

Congratulations Guest! You completed the activity.

Overall Feedback **Assessment Items** Connectivity Tests

Expand/Collapse All Show Incorrect Items

Assessment Items	Status	Points	Component(s)	Feedback
Network				
ASw-1				
Banner MOTD	Correct	2	Basic Security ...	
Console Line		0	Other	
Password	Correct	1	Basic Security ...	
Enable Secret	Correct	2	Basic Security ...	
Host Name	Correct	1	Hostname Confl...	
Ports				
Vlan1				
IP Address	Correct	7	IPv4 Host Addr...	
Port Status	Correct	5	IPv4 Host Addr...	
Subnet Mask	Correct	7	IPv4 Host Addr...	
Service Password Encryption	Correct	1	Basic Security ...	
Startup Config	Correct	2	Configuration M...	
VTY Lines		0	Other	
VTY Line 0		0	Other	
Password	Correct	1	Basic Security ...	
ASw-2				
Banner MOTD	Correct	2	Basic Security ...	
Console Line		0	Other	
Password	Correct	1	Basic Security ...	
Enable Secret	Correct	2	Basic Security ...	
Host Name	Correct	1	Hostname Confl...	
Ports				
Vlan1				
IP Address	Correct	7	IPv4 Host Addr...	
Port Status	Correct	5	IPv4 Host Addr...	
Subnet Mask	Correct	7	IPv4 Host Addr...	
Service Password Encryption	Correct	1	Basic Security ...	
Startup Config	Correct	2	Configuration M...	

Component	Items/Total	Score
Basic Security Configuration	10/10	14/14
Configuration Management	2/2	4/4
Hostname Configuration	2/2	2/2
IPv4 Host Address Configuration	10/10	70/70
Connectivity		
Connectivity Tests	6/6	10/10

Close

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Activity Results Time Elapsed: 00:14:14

Congratulations Guest! You completed the activity.

Overall Feedback **Assessment Items** Connectivity Tests

Expand/Collapse All Show Incorrect Items

Assessment Items	Status	Points	Component(s)	Fee
Network				
Class-A				
✓ Banner MOTD	Correct	2	Basic Security ...	
Console Line		0	Other	
✓ Password	Correct	1	Basic Security ...	
✓ Enable Secret	Correct	2	Basic Security ...	
✓ Host Name	Correct	1	Hostname Conf...	
Ports				
Vlan1				
✓ IP Address	Correct	7	IPv4 Host Addr...	
✓ Port Status	Correct	5	IPv4 Host Addr...	
✓ Subnet Mask	Correct	7	IPv4 Host Addr...	
✓ Service Password Encryption	Correct	1	Basic Security ...	
✓ Startup Config	Correct	2	Configuration M...	
VTY Lines		0	Other	
VTY Line 0		0	Other	
✓ Password	Correct	1	Basic Security ...	
Class-B				
✓ Banner MOTD	Correct	2	Basic Security ...	
Console Line		0	Other	
✓ Password	Correct	1	Basic Security ...	
✓ Enable Secret	Correct	2	Basic Security ...	
✓ Host Name	Correct	1	Hostname Conf...	
Ports				
Vlan1				
✓ IP Address	Correct	7	IPv4 Host Addr...	
✓ Port Status	Correct	5	IPv4 Host Addr...	
✓ Subnet Mask	Correct	7	IPv4 Host Addr...	
✓ Service Password Encryption	Correct	1	Basic Security ...	
✓ Startup Config	Correct	2	Configuration M...	

Component	Items/Total	Score
Basic Security Configuration	10/10	14/14
Configuration Management	2/2	4/4
Hostname Configuration	2/2	2/2
IPv4 Host Address Configuration	10/10	70/70
Connectivity		
Connectivity Tests	6/6	10/10

Close