

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.

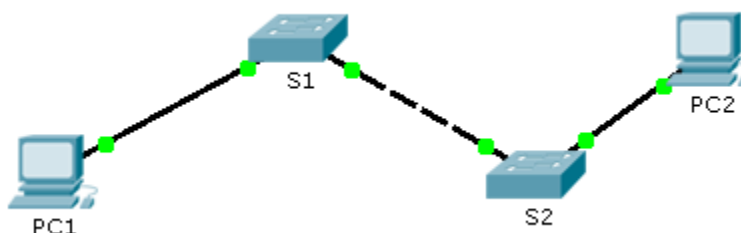
Nota: Clique em **Verificar resultados** para ver seu progresso. Clique em **Redefinir atividade** para gerar um novo conjunto de requisitos. Se você clicar nessa opção antes de concluir a atividade, todas as configurações serão perdidas.

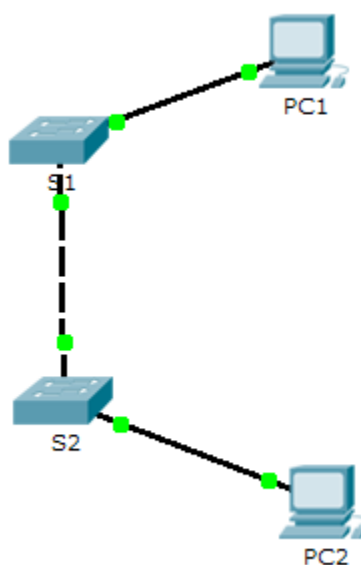
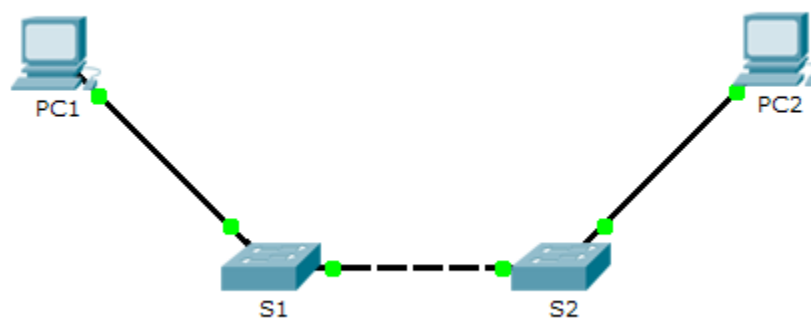
ID: [[indexNames]][[indexPWs]][[indexAddrs]][[indexTopos]]

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

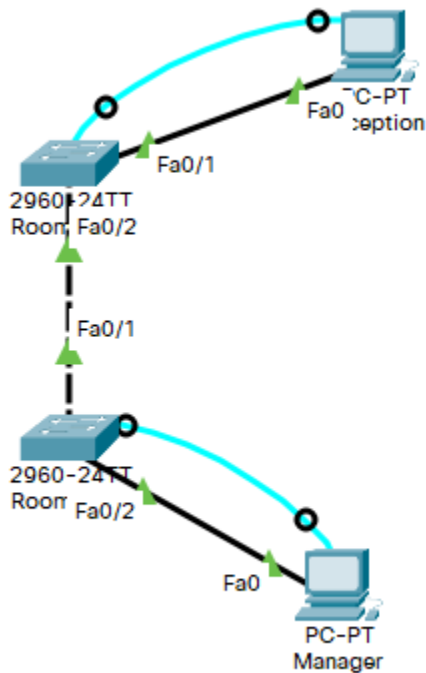
Dispositivo	Interface	Endereço	Máscara de sub-Rede
ASw-1	VLAN 1	10.10.10.100	255.255.255.0
ASw-2	VLAN 1	10.10.10.150	255.255.255.0
User-01	NIC	10.10.10.4	255.255.255.0
User-02	NIC	10.10.10.5	255.255.255.0

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-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 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)#
```

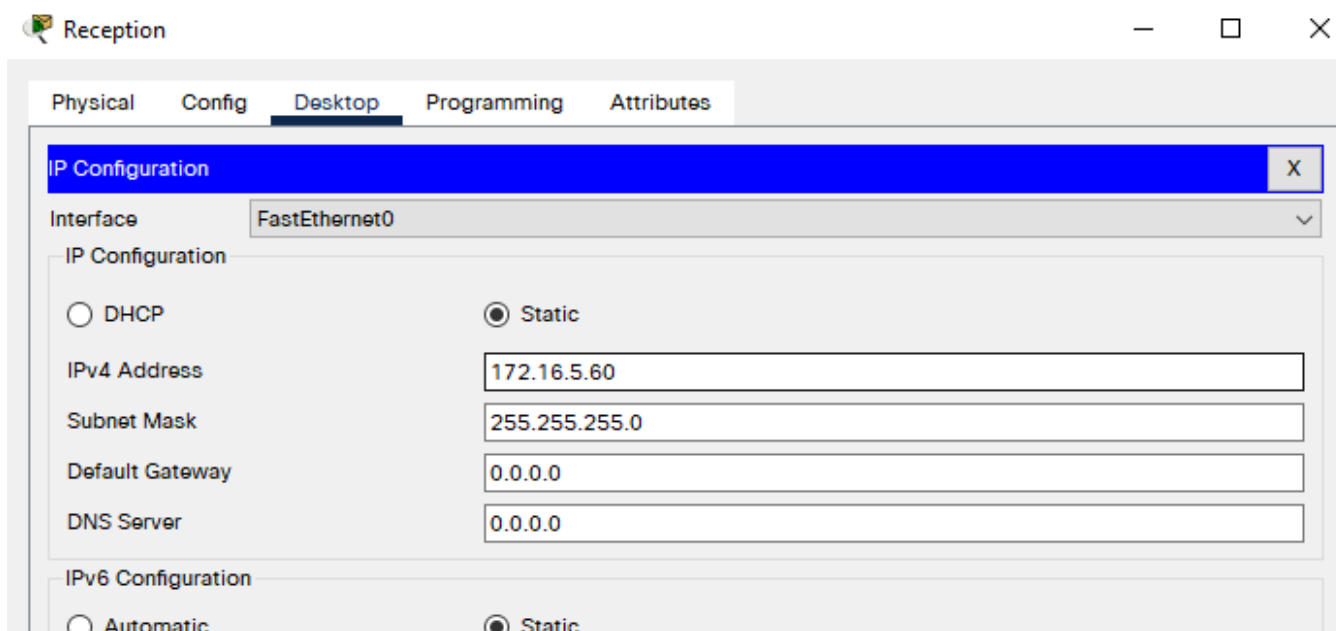
```
Reception>enable
Reception#configure terminal
Enter configuration commands, one per line. End with CNTL/Z.
Reception(config)#enable secret C4aJa
Reception(config)#
```

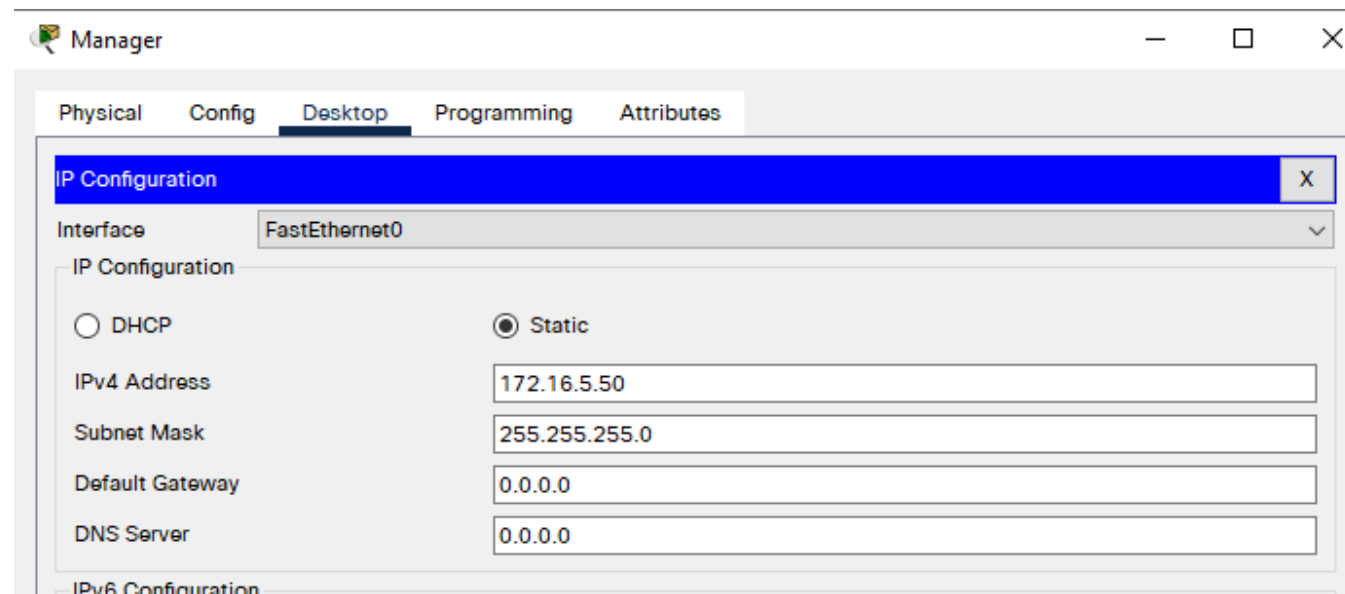
```
Reception>enable
Reception#configure terminal
Enter configuration commands, one per line. End with CNTL/Z.
Reception(config)#enable secret C4aJa
Reception(config)#enable secret C4aJa
Reception(config)#service password-encryption
Reception(config)#
```

```
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)#
```





The screenshot shows the Cisco Packet Tracer Manager window. The 'Desktop' tab is selected. The 'IP Configuration' window is open for the 'FastEthernet0' interface. The 'Static' radio button is selected. The configuration fields are as follows:

Field	Value
IPv4 Address	172.16.5.50
Subnet Mask	255.255.255.0
Default Gateway	0.0.0.0
DNS Server	0.0.0.0

Below the configuration window, there are three terminal windows showing the configuration commands and their output.

```
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:

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Cisco Packet Tracer - C:\Users\israel\Downloads\2.9.1 Packet Tracer - Basic Switch and End Device Configuration (1).pka

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)	Fee
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 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 Confi...	
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 MOTD	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
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Close

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Cisco Packet Tracer - C:\Users\israel\Downloads\2.9.1 Packet Tracer - Basic Switch and End Device Configuration (1).pka

File Edit Options View Tools Extensions Window Help

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)	Fee
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 Confi...	
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 Confi...	
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...	

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
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Close

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Cisco Packet Tracer - C:\Users\israe\Downloads\2.9.1 Packet Tracer - Basic Switch and End Device Configuration (1).pka

File Edit Options View Tools Extensions Window Help

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