

Segunda tarefa do segundo bimestre

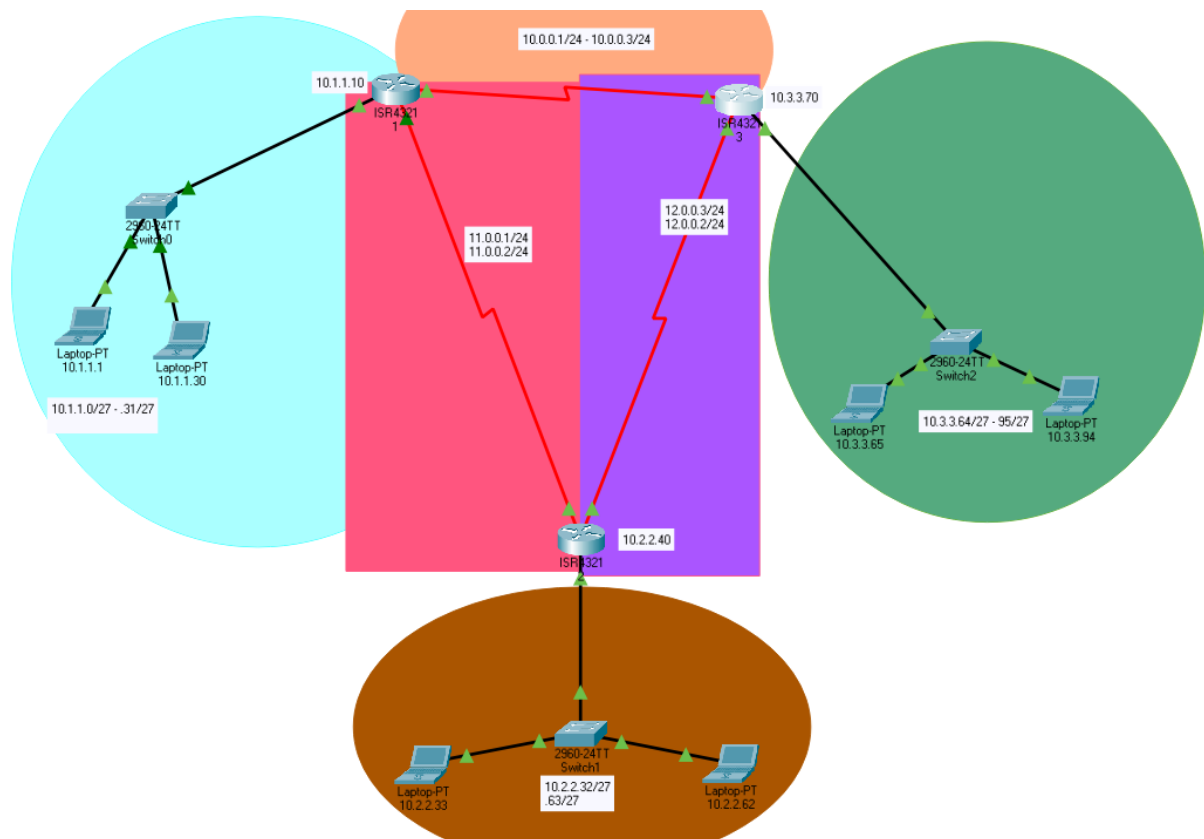
Caio Pereira

Para realizar esse trabalho vocês deverão criar uma rede com roteamento estático contendo pelo menos 3 roteadores para realizar a comunicação de duas redes distintas. Além disso você deverá informar como foi realizada a configuração nos roteadores. Lembro que você poderá utilizar a configuração realizada na APS para desenvolver seu trabalho. É importante informar toda a configuração realizada para fazer com que os roteadores se comuniquem, para isso vocês podem realizar o print da tela como foi feito na APS. Além disso deverá ser apresentado também print do ping para mostrar que a conexão está sendo bem sucedida.

****ARQUIVOS APENAS COM A REDE MONTADA EM UM DOCUMENTO WORD SEM AS DEVIDAS EXPLICAÇÕES SERÃO DESCONSIDERADOS.****

O valor do trabalho é 3 pontos, e poderá ser entregue até o dia 26/11/2020 às 23:59. A CONFIGURAÇÃO CORRETA DE CADA ROTEADOR E A CONEXÃO BEM SUCEDIDA VALERÁ 1 PONTO. COMO SÃO 3 ROTEADORES, SERÃO 3 PONTOS NO TOTAL.

Utilizando da mesma **Rede** da APS e da **Atividade Um**, configurarei o Roteamento **Estático**.



Desta forma, a configuração do mesmo **Roteador 1**, fica da seguinte maneira:

Physical Config CLI Attributes

GLOBAL

Settings

Algorithm Settings

ROUTING

Static

RIP

SWITCHING

VLAN Database

INTERFACE

GigabitEthernet0/0/0

GigabitEthernet0/0/1

Serial0/1/0

Serial0/1/1

Serial0/2/0

Serial0/2/1

Static Routes

Network 10.2.2.32

Mask 255.255.255.224

Next Hop 11.0.0.2

Add

Network Address

10.3.3.64/27 via 10.0.0.3

10.2.2.32/27 via 11.0.0.2

Remove

Onde informamos que a **Rede 10.2.2.32/27** pode ser encontrada no **Salto 11.0.0.2**, Endereço este do **Roteador 2**.

Ao replicar este mesmo passo, endereçando corretamente, obtemos as seguintes configurações

Physical Config CLI Attributes

GLOBAL

Settings

Algorithm Settings

ROUTING

Static

RIP

SWITCHING

VLAN Database

INTERFACE

GigabitEthernet0/0/0

GigabitEthernet0/0/1

Serial0/1/0

Serial0/1/1

Serial0/2/0

Serial0/2/1

Static Routes

Network 10.3.3.64

Mask 255.255.255.224

Next Hop 10.0.0.3

Add

Network Address

10.1.1.0/27 via 10.0.0.1

10.3.3.64/27 via 12.0.0.3

Remove

Equivalent IOS Commands

```
Router>enable
Router#
Router#configure terminal
Enter configuration commands, one per line. End with CNTL/Z.
Router(config)#
Router(config)#ip route 10.3.3.64 255.255.255.224 10.0.0.3
Router(config)#ip route 10.2.2.32 255.255.255.224 12.0.0.2
Router(config)#
```

Physical Config CLI Attributes

GLOBAL

Settings

Algorithm Settings

ROUTING

Static

RIP

SWITCHING

VLAN Database

INTERFACE

GigabitEthernet0/0/0

GigabitEthernet0/0/1

Serial0/1/0

Serial0/1/1

Serial0/2/0

Serial0/2/1

Static Routes

Network 10.1.1.0

Mask 255.255.255.224

Next Hop 10.0.0.1

Add

Network Address

10.1.1.0/27 via 10.0.0.1

10.2.2.32/27 via 12.0.0.2

Remove

Equivalent IOS Commands

```
Router>enable
Router#
Router#configure terminal
Enter configuration commands, one per line. End with CNTL/Z.
Router(config)#
Router(config)#ip route 10.1.1.0 255.255.255.224 10.0.0.1
Router(config)#ip route 10.3.3.64 255.255.255.224 12.0.0.3
Router(config)#
```

Physical Config CLI Attributes

GLOBAL

Settings

Algorithm Settings

ROUTING

Static

RIP

SWITCHING

VLAN Database

INTERFACE

GigabitEthernet0/0/0

GigabitEthernet0/0/1

Serial0/1/0

Serial0/1/1

Serial0/2/0

Serial0/2/1

Static Routes

Network 10.2.2.32

Mask 255.255.255.224

Next Hop 12.0.0.2

Add

Network Address

10.1.1.0/27 via 10.0.0.1

10.2.2.32/27 via 12.0.0.2

Remove

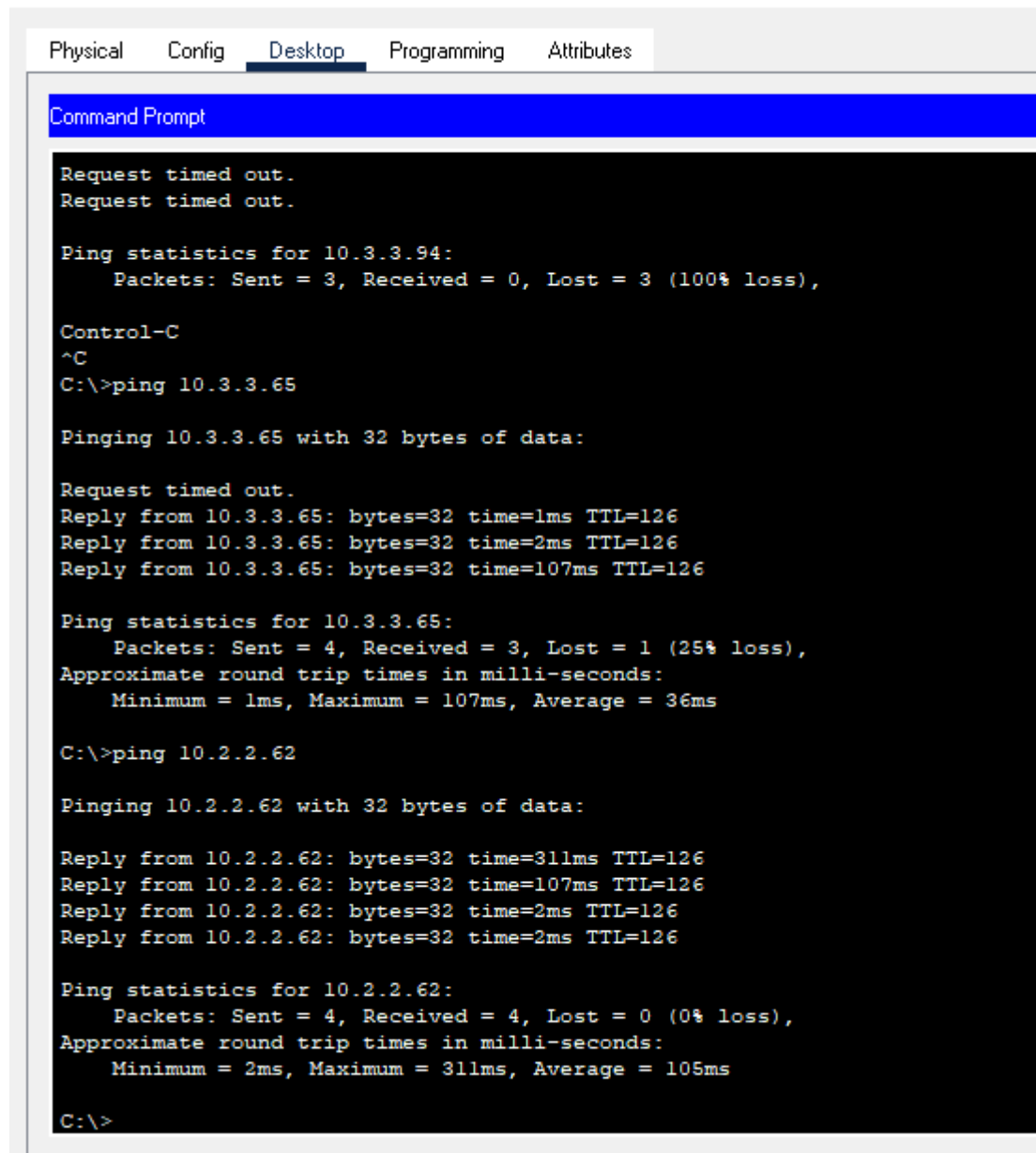
Equivalent IOS Commands

```
Router>enable
Router#
Router#configure terminal
Enter configuration commands, one per line. End with CNTL/Z.
Router(config)#
Router(config)#ip route 10.1.1.0 255.255.255.224 10.0.0.1
Router(config)#ip route 10.2.2.32 255.255.255.224 12.0.0.2
Router(config)#
```

No campo **Network** informamos ao Roteador, qual a Rede que desejamos encontrar. Em **Mask** detalhamos a qual máscara esta rede pertence. E por último, em **NEXT HOP**, indicamos qual rota o **Pacote** deve prosseguir para encontrar a dita **Rede**.

Comandos Ping de Confirmação

Dispositivo da **Rede 10.1.1.0/27** para dispositivos da **Rede 10.2.2.32/27** e **Rede 10.3.3.64/27**



The screenshot shows a network configuration interface with tabs for Physical, Config, Desktop, Programming, and Attributes. The 'Desktop' tab is active, displaying a 'Command Prompt' window. The command prompt shows the results of ping tests to 10.3.3.94 and 10.3.3.65, followed by a ping test to 10.2.2.62.

```
Request timed out.
Request timed out.

Ping statistics for 10.3.3.94:
    Packets: Sent = 3, Received = 0, Lost = 3 (100% loss),

Control-C
^C
C:\>ping 10.3.3.65

Pinging 10.3.3.65 with 32 bytes of data:

Request timed out.
Reply from 10.3.3.65: bytes=32 time=1ms TTL=126
Reply from 10.3.3.65: bytes=32 time=2ms TTL=126
Reply from 10.3.3.65: bytes=32 time=107ms TTL=126

Ping statistics for 10.3.3.65:
    Packets: Sent = 4, Received = 3, Lost = 1 (25% loss),
Approximate round trip times in milli-seconds:
    Minimum = 1ms, Maximum = 107ms, Average = 36ms

C:\>ping 10.2.2.62

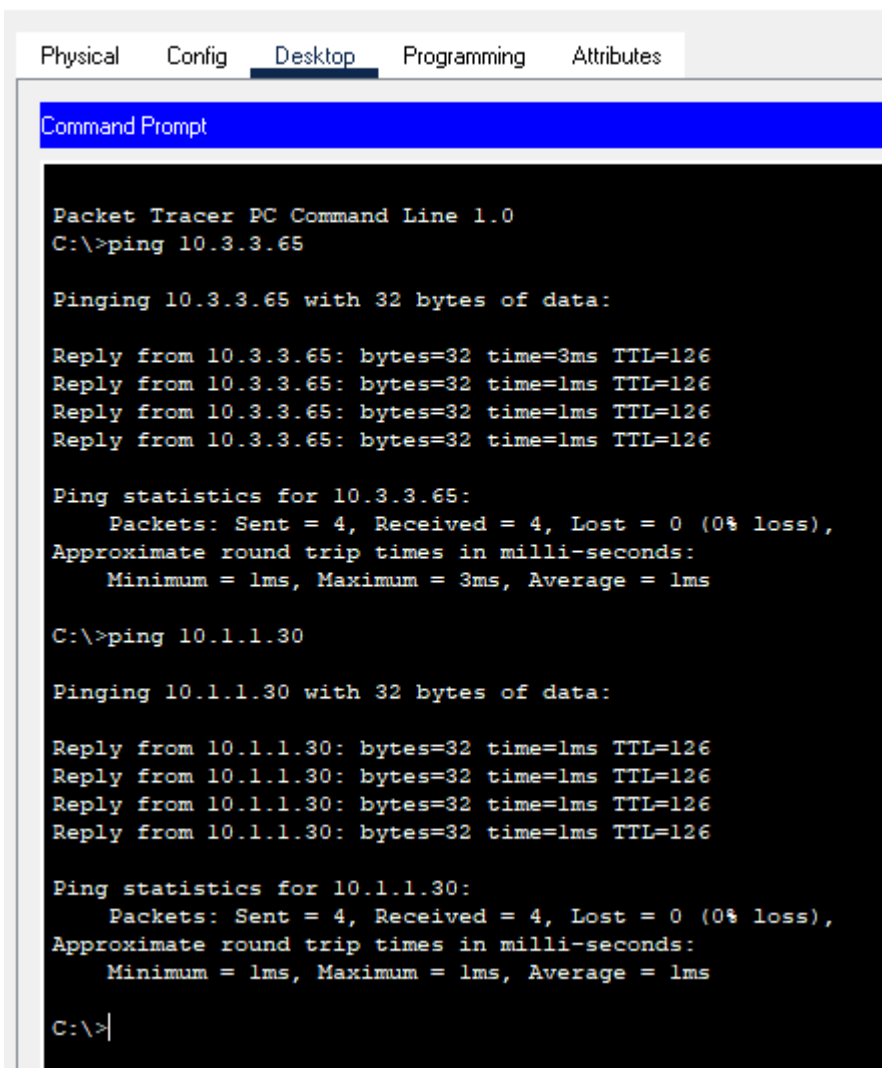
Pinging 10.2.2.62 with 32 bytes of data:

Reply from 10.2.2.62: bytes=32 time=311ms TTL=126
Reply from 10.2.2.62: bytes=32 time=107ms TTL=126
Reply from 10.2.2.62: bytes=32 time=2ms TTL=126
Reply from 10.2.2.62: bytes=32 time=2ms TTL=126

Ping statistics for 10.2.2.62:
    Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),
Approximate round trip times in milli-seconds:
    Minimum = 2ms, Maximum = 311ms, Average = 105ms

C:\>
```

Dispositivo da Rede 10.2.2.32/27 para dispositivos da Rede 10.1.1.0/27 e Rede 10.3.3.64/27



The screenshot shows the Packet Tracer Desktop environment. The 'Desktop' tab is selected in the top navigation bar. A 'Command Prompt' window is open, displaying the following text:

```
Packet Tracer PC Command Line 1.0
C:\>ping 10.3.3.65

Pinging 10.3.3.65 with 32 bytes of data:

Reply from 10.3.3.65: bytes=32 time=3ms TTL=126
Reply from 10.3.3.65: bytes=32 time=1ms TTL=126
Reply from 10.3.3.65: bytes=32 time=1ms TTL=126
Reply from 10.3.3.65: bytes=32 time=1ms TTL=126

Ping statistics for 10.3.3.65:
    Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),
    Approximate round trip times in milli-seconds:
        Minimum = 1ms, Maximum = 3ms, Average = 1ms

C:\>ping 10.1.1.30

Pinging 10.1.1.30 with 32 bytes of data:

Reply from 10.1.1.30: bytes=32 time=1ms TTL=126
Reply from 10.1.1.30: bytes=32 time=1ms TTL=126
Reply from 10.1.1.30: bytes=32 time=1ms TTL=126
Reply from 10.1.1.30: bytes=32 time=1ms TTL=126

Ping statistics for 10.1.1.30:
    Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),
    Approximate round trip times in milli-seconds:
        Minimum = 1ms, Maximum = 1ms, Average = 1ms

C:\>|
```

Dispositivo da Rede 10.3.3.64/27 para dispositivos da Rede 10.1.1.0/27 e Rede 10.2.2.32/27W

Physical Config **Desktop** Programming Attributes

Command Prompt

```
Request timed out.  
Reply from 10.1.1.1: bytes=32 time=268ms TTL=126  
Reply from 10.1.1.1: bytes=32 time=7ms TTL=126  
  
Ping statistics for 10.1.1.1:  
    Packets: Sent = 4, Received = 2, Lost = 2 (50% loss),  
Approximate round trip times in milli-seconds:  
    Minimum = 7ms, Maximum = 268ms, Average = 137ms  
  
C:\>ping 10.1.1.1  
  
Pinging 10.1.1.1 with 32 bytes of data:  
  
Reply from 10.1.1.1: bytes=32 time=1ms TTL=126  
Reply from 10.1.1.1: bytes=32 time=1ms TTL=126  
Reply from 10.1.1.1: bytes=32 time=1ms TTL=126  
Reply from 10.1.1.1: bytes=32 time=102ms TTL=126  
  
Ping statistics for 10.1.1.1:  
    Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),  
Approximate round trip times in milli-seconds:  
    Minimum = 1ms, Maximum = 102ms, Average = 26ms  
  
C:\>ping 10.2.2.33  
  
Pinging 10.2.2.33 with 32 bytes of data:  
  
Request timed out.  
Reply from 10.2.2.33: bytes=32 time=1ms TTL=126  
Reply from 10.2.2.33: bytes=32 time=1ms TTL=126  
Reply from 10.2.2.33: bytes=32 time=106ms TTL=126  
  
Ping statistics for 10.2.2.33:  
    Packets: Sent = 4, Received = 3, Lost = 1 (25% loss),  
Approximate round trip times in milli-seconds:  
    Minimum = 1ms, Maximum = 106ms, Average = 36ms  
  
C:\>
```

☐ Top