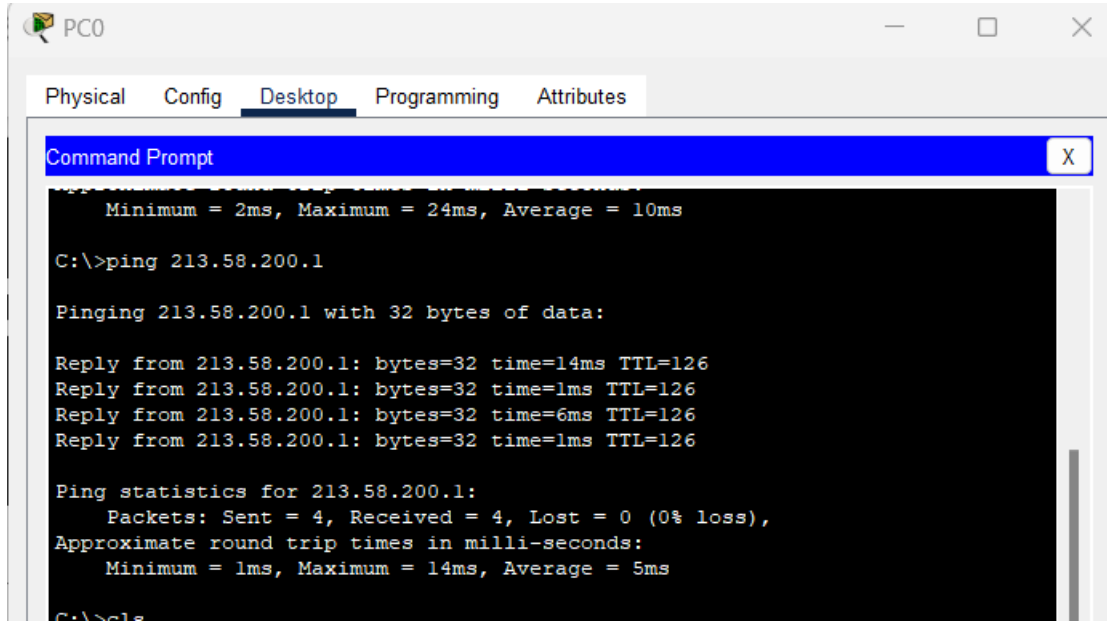




**PEDRO MIGUEL NEVES MARTINS**

**2021135054**

# PARTE A



PC0

Physical Config Desktop Programming Attributes

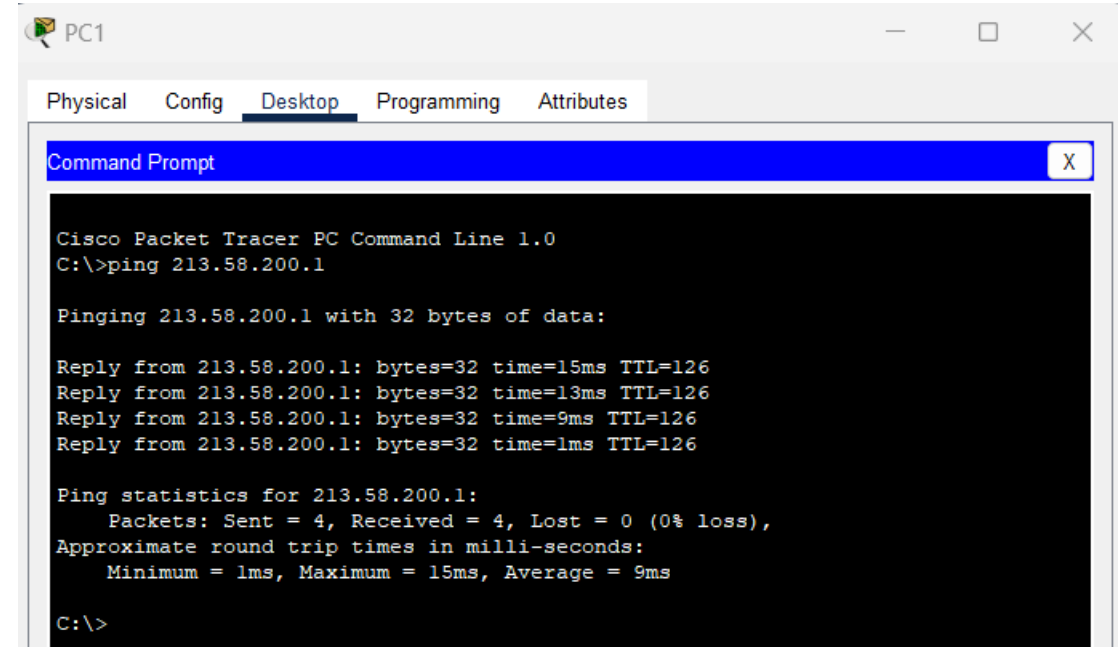
Command Prompt

```
Minimum = 2ms, Maximum = 24ms, Average = 10ms
C:\>ping 213.58.200.1

Pinging 213.58.200.1 with 32 bytes of data:

Reply from 213.58.200.1: bytes=32 time=14ms TTL=126
Reply from 213.58.200.1: bytes=32 time=1ms TTL=126
Reply from 213.58.200.1: bytes=32 time=6ms TTL=126
Reply from 213.58.200.1: bytes=32 time=1ms TTL=126

Ping statistics for 213.58.200.1:
    Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),
    Approximate round trip times in milli-seconds:
        Minimum = 1ms, Maximum = 14ms, Average = 5ms
C:\>
```



PC1

Physical Config Desktop Programming Attributes

Command Prompt

```
Cisco Packet Tracer PC Command Line 1.0
C:\>ping 213.58.200.1

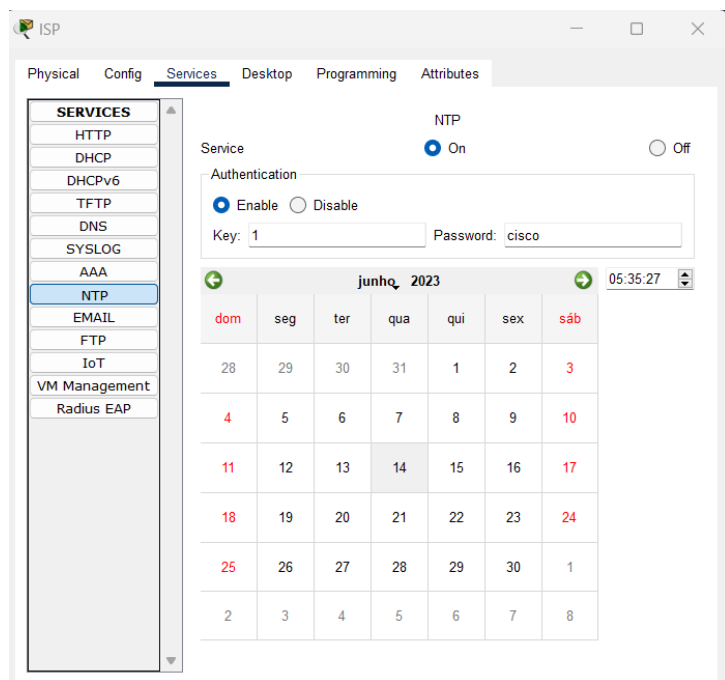
Pinging 213.58.200.1 with 32 bytes of data:

Reply from 213.58.200.1: bytes=32 time=15ms TTL=126
Reply from 213.58.200.1: bytes=32 time=13ms TTL=126
Reply from 213.58.200.1: bytes=32 time=9ms TTL=126
Reply from 213.58.200.1: bytes=32 time=1ms TTL=126

Ping statistics for 213.58.200.1:
    Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),
    Approximate round trip times in milli-seconds:
        Minimum = 1ms, Maximum = 15ms, Average = 9ms
C:\>
```

# PERGUNTA 1

Desativei todos os serviços  
no servidor, exceto o NTP

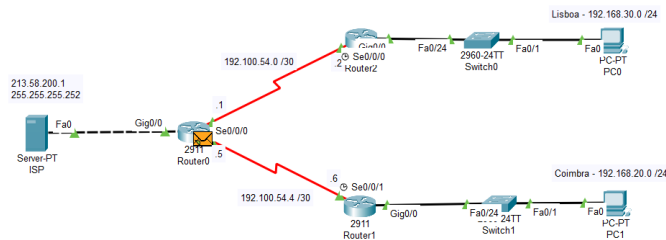


```
R0>en
R0#conf t
Enter configuration commands, one per line. End with CNTL/Z.
R0(config)#hostname Router0
Router0(config)#ntp server 213.58.200.1
Router0(config)#ntp u
Router0(config)#ntp update-calendar
Router0(config)#
```

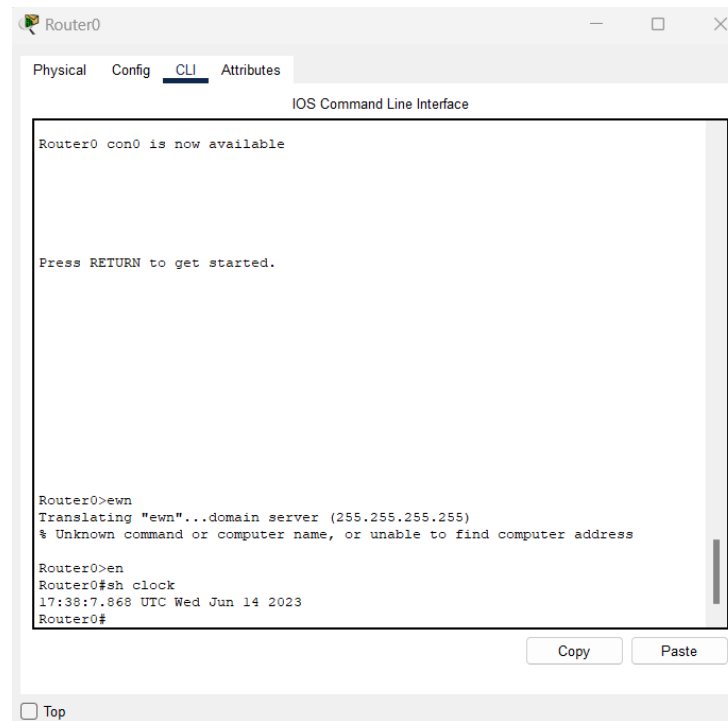
```
R2 (config) #ntp server 213.58.200.1
R2 (config) #ntp up
R2 (config) #ntp update-calendar
R2 (config) #
```

```
R1>en
R1#conf t
Enter configuration commands, one per line. End with CNTL/Z.
R1(config)#ntp server 213.58.200.1
R1(config)#ntp upa
R1(config)#ntp up
R1(config)#ntp update-calendar
R1(config)#
```

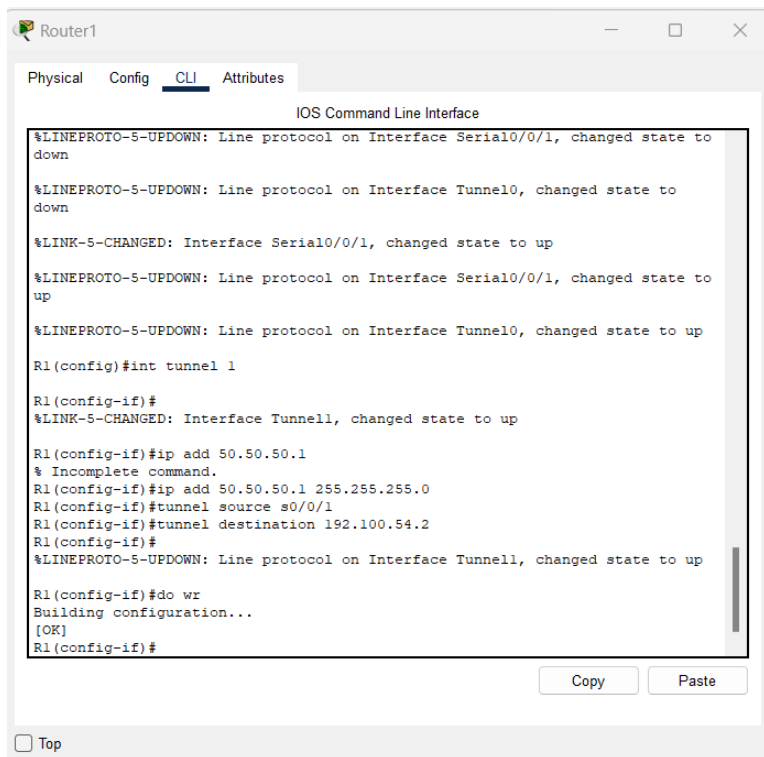
# PERGUNTA 1



0.006	Router0	ISP	ICMP
0.007	Router0	ISP	ICMP
0.770	--	Router2	NTP
0.771	Router2	Router0	NTP
0.772	Router0	ISP	NTP
0.772	--	ISP	NTP
0.773	ISP	Router0	NTP
0.774	Router0	Router2	NTP
15.778	--	Router1	NTP
15.779	Router1	Router0	NTP
15.780	Router0	ISP	NTP
15.780	--	ISP	NTP
15.781	ISP	Router0	NTP
15.782	Router0	Router1	NTP
15.794	--	Router0	NTP
15.795	Router0	ISP	NTP
15.795	--	ISP	NTP
15.796	ISP	Router0	NTP



# PERGUNTA 2



Router1

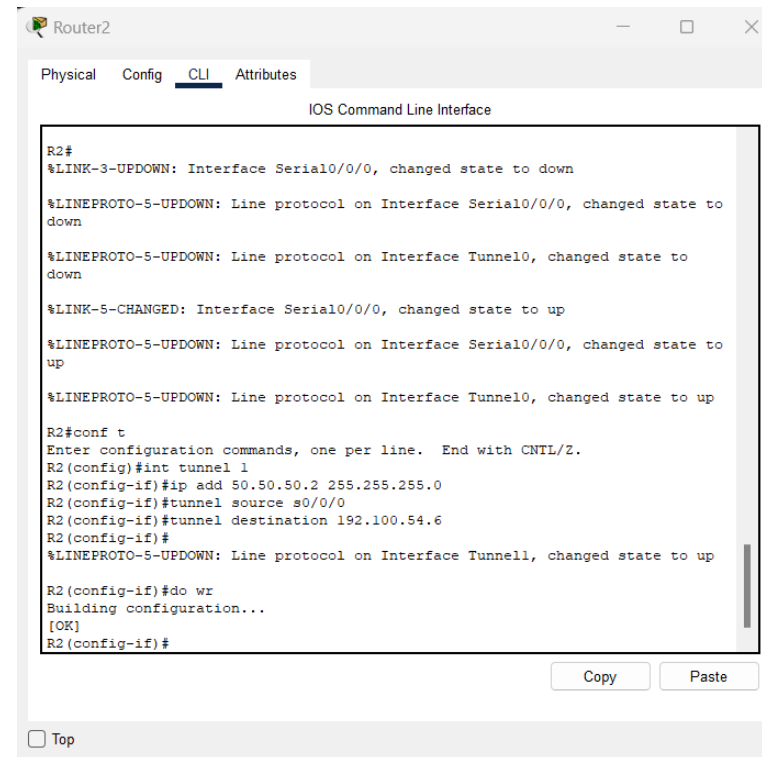
Physical Config CLI Attributes

IOS Command Line Interface

```
%LINEPROTO-5-UPDOWN: Line protocol on Interface Serial0/0/1, changed state to down
%LINEPROTO-5-UPDOWN: Line protocol on Interface Tunnel0, changed state to down
%LINK-5-CHANGED: Interface Serial0/0/1, changed state to up
%LINEPROTO-5-UPDOWN: Line protocol on Interface Serial0/0/1, changed state to up
%LINEPROTO-5-UPDOWN: Line protocol on Interface Tunnel0, changed state to up
R1(config)#int tunnel 1
R1(config-if)#
%LINK-5-CHANGED: Interface Tunnel1, changed state to up
R1(config-if)#ip add 50.50.50.1
% Incomplete command.
R1(config-if)#ip add 50.50.50.1 255.255.255.0
R1(config-if)#tunnel source s0/0/1
R1(config-if)#tunnel destination 192.100.54.2
R1(config-if)#
%LINEPROTO-5-UPDOWN: Line protocol on Interface Tunnel1, changed state to up
R1(config-if)#do wr
Building configuration...
[OK]
R1(config-if)#
```

Copy Paste

☐ Top



Router2

Physical Config CLI Attributes

IOS Command Line Interface

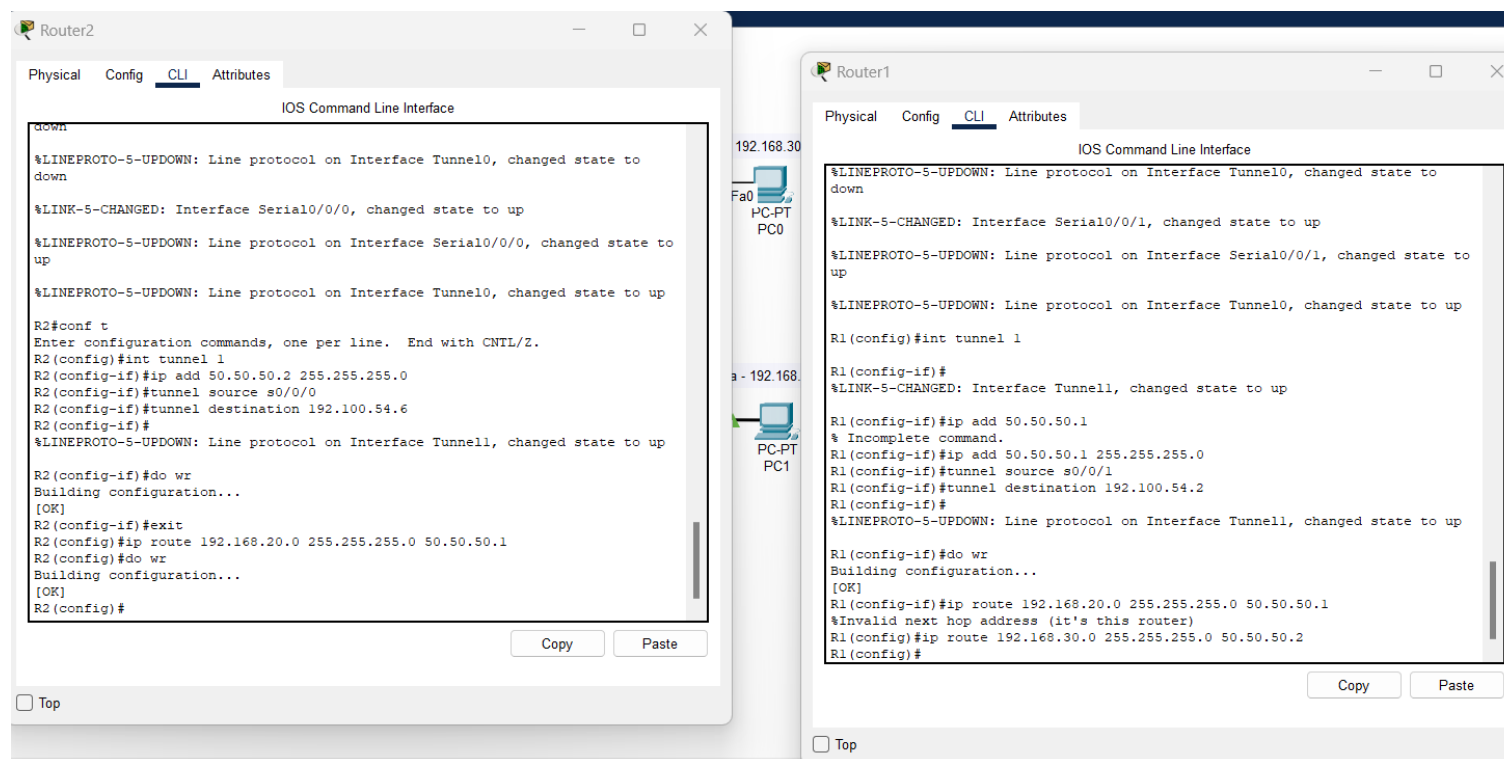
```
R2#
%LINK-3-UPDOWN: Interface Serial0/0/0, changed state to down
%LINEPROTO-5-UPDOWN: Line protocol on Interface Serial0/0/0, changed state to down
%LINEPROTO-5-UPDOWN: Line protocol on Interface Tunnel0, changed state to down
%LINK-5-CHANGED: Interface Serial0/0/0, changed state to up
%LINEPROTO-5-UPDOWN: Line protocol on Interface Serial0/0/0, changed state to up
%LINEPROTO-5-UPDOWN: Line protocol on Interface Tunnel0, changed state to up
R2#conf t
Enter configuration commands, one per line. End with CNTL/Z.
R2(config)#int tunnel 1
R2(config-if)#ip add 50.50.50.2 255.255.255.0
R2(config-if)#tunnel source s0/0/0
R2(config-if)#tunnel destination 192.100.54.6
R2(config-if)#
%LINEPROTO-5-UPDOWN: Line protocol on Interface Tunnel1, changed state to up
R2(config-if)#do wr
Building configuration...
[OK]
R2(config-if)#
```

Copy Paste

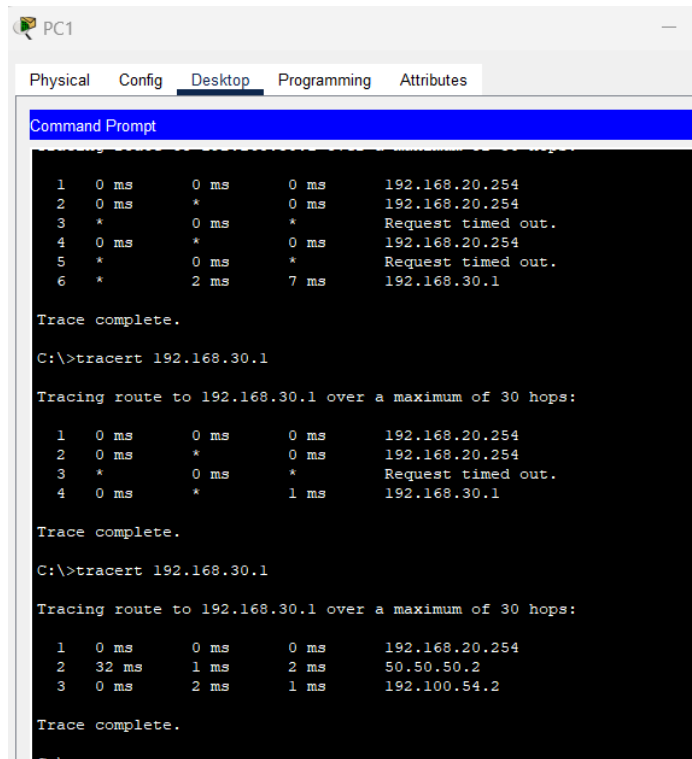
☐ Top



# PERGUNTA 2



# PERGUNTA 2



PC1

Physical Config Desktop Programming Attributes

Command Prompt

```
1 0 ms 0 ms 0 ms 192.168.20.254
2 0 ms * 0 ms 192.168.20.254
3 * 0 ms * Request timed out.
4 0 ms * 0 ms 192.168.20.254
5 * 0 ms * Request timed out.
6 * 2 ms 7 ms 192.168.30.1

Trace complete.

C:\>tracert 192.168.30.1

Tracing route to 192.168.30.1 over a maximum of 30 hops:

 1 0 ms 0 ms 0 ms 192.168.20.254
 2 0 ms * 0 ms 192.168.20.254
 3 * 0 ms * Request timed out.
 4 0 ms * 1 ms 192.168.30.1

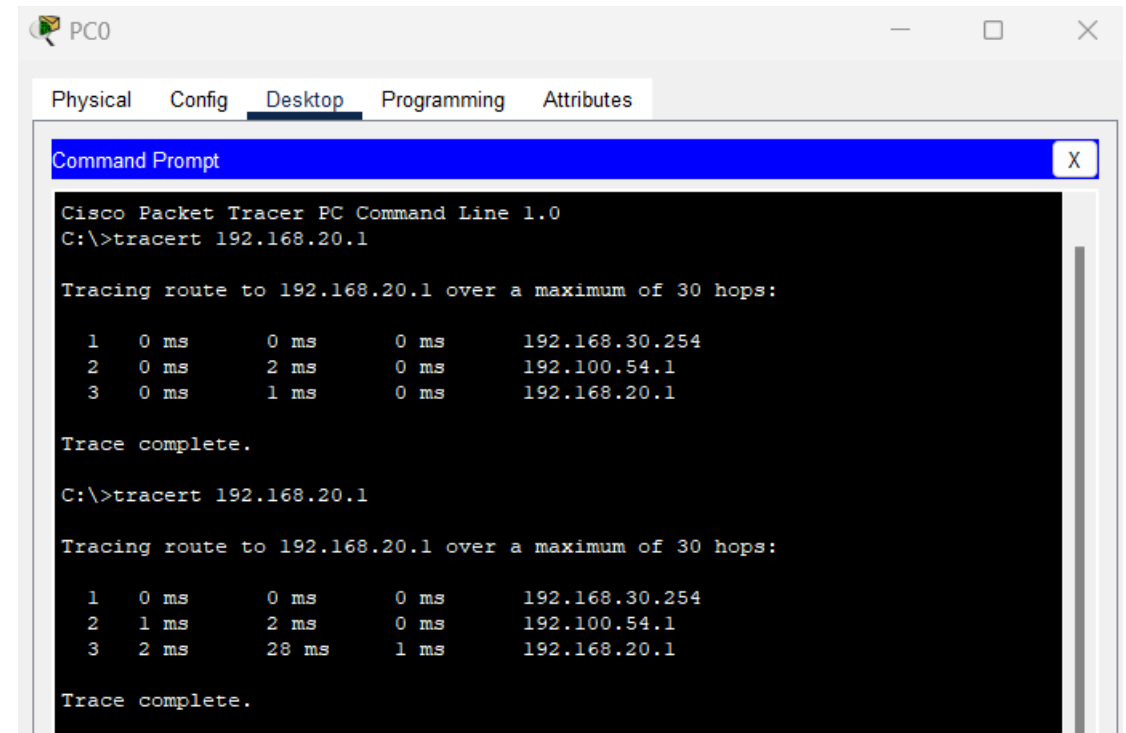
Trace complete.

C:\>tracert 192.168.30.1

Tracing route to 192.168.30.1 over a maximum of 30 hops:

 1 0 ms 0 ms 0 ms 192.168.20.254
 2 32 ms 1 ms 2 ms 50.50.50.2
 3 0 ms 2 ms 1 ms 192.100.54.2

Trace complete.
```



PC0

Physical Config Desktop Programming Attributes

Command Prompt

```
Cisco Packet Tracer PC Command Line 1.0
C:\>tracert 192.168.20.1

Tracing route to 192.168.20.1 over a maximum of 30 hops:

 1 0 ms 0 ms 0 ms 192.168.30.254
 2 0 ms 2 ms 0 ms 192.100.54.1
 3 0 ms 1 ms 0 ms 192.168.20.1

Trace complete.

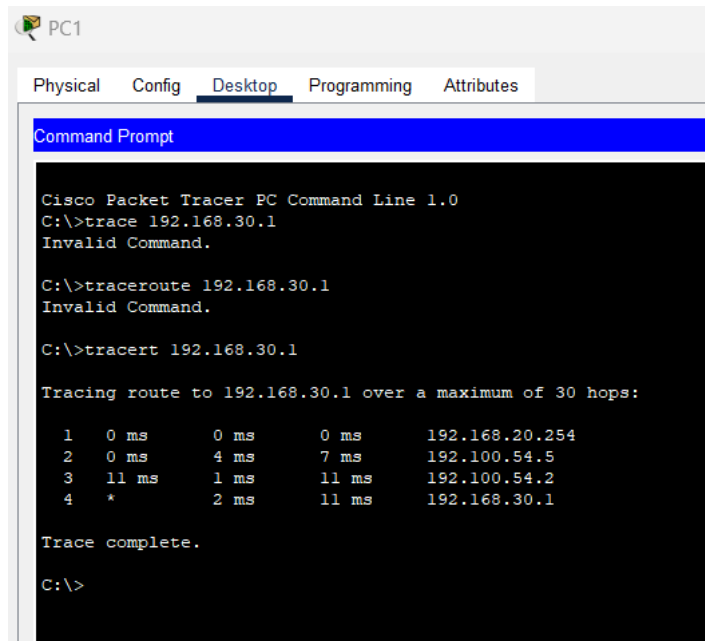
C:\>tracert 192.168.20.1

Tracing route to 192.168.20.1 over a maximum of 30 hops:

 1 0 ms 0 ms 0 ms 192.168.30.254
 2 1 ms 2 ms 0 ms 192.100.54.1
 3 2 ms 28 ms 1 ms 192.168.20.1

Trace complete.
```

# PERGUNTA 2



The screenshot shows the Cisco Packet Tracer PC Command Line interface for PC1. The interface has tabs for Physical, Config, Desktop, Programming, and Attributes. The Desktop tab is selected, and the Command Prompt window is open. The Command Prompt shows the following commands and output:

```
Cisco Packet Tracer PC Command Line 1.0
C:\>trace 192.168.30.1
Invalid Command.

C:\>tracert 192.168.30.1
Invalid Command.

C:\>tracert 192.168.30.1

Tracing route to 192.168.30.1 over a maximum of 30 hops:

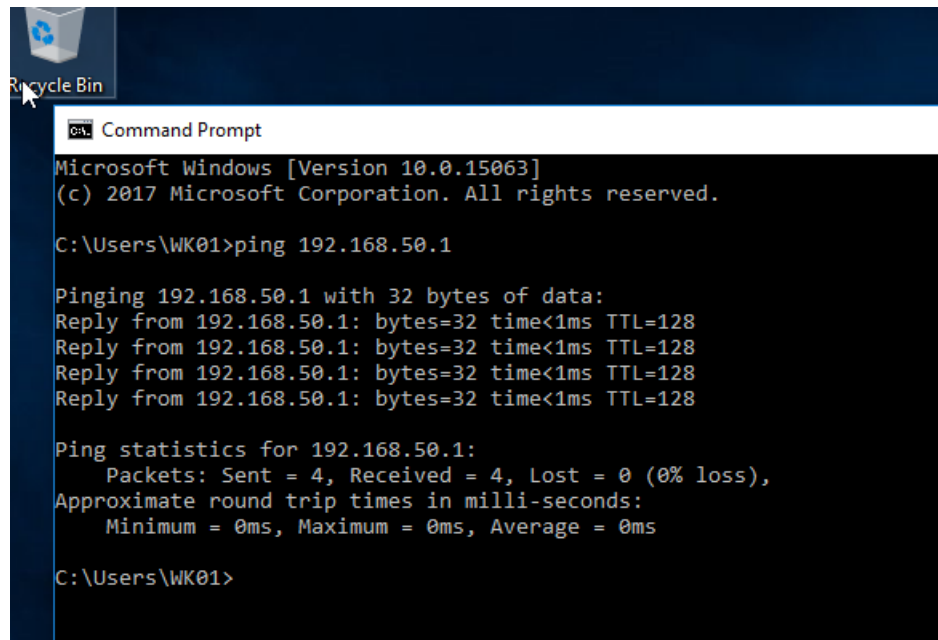
  1  0 ms    0 ms    0 ms    192.168.20.254
  2  0 ms    4 ms    7 ms    192.100.54.5
  3  11 ms   1 ms   11 ms   192.100.54.2
  4  *        2 ms   11 ms   192.168.30.1

Trace complete.

C:\>
```



# PARTE B

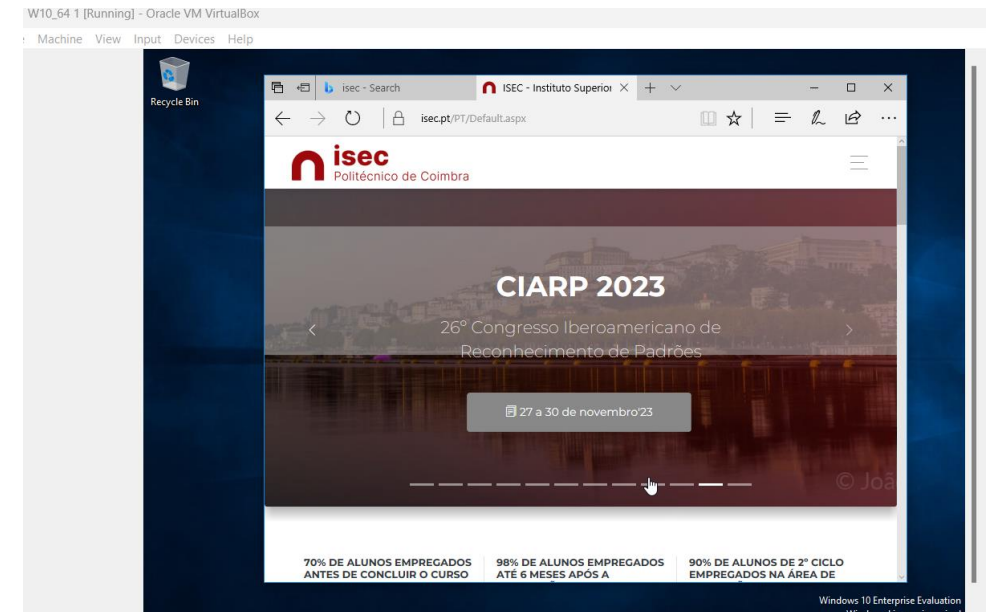


```
Recycle Bin
C:\Users\WK01>ping 192.168.50.1

Pinging 192.168.50.1 with 32 bytes of data:
Reply from 192.168.50.1: bytes=32 time<1ms TTL=128
Reply from 192.168.50.1: bytes=32 time<1ms TTL=128
Reply from 192.168.50.1: bytes=32 time<1ms TTL=128
Reply from 192.168.50.1: bytes=32 time<1ms TTL=128

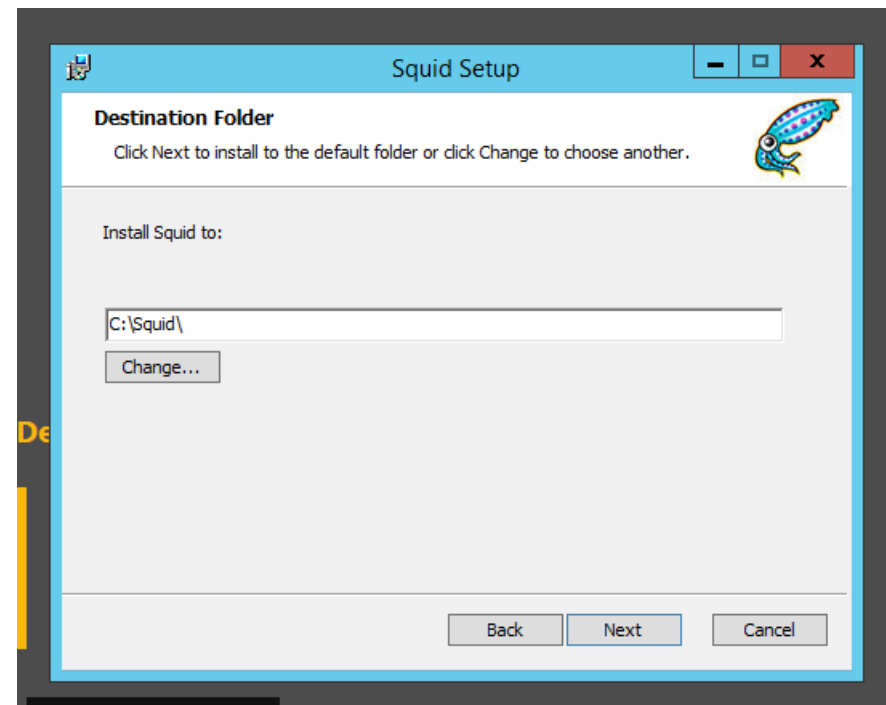
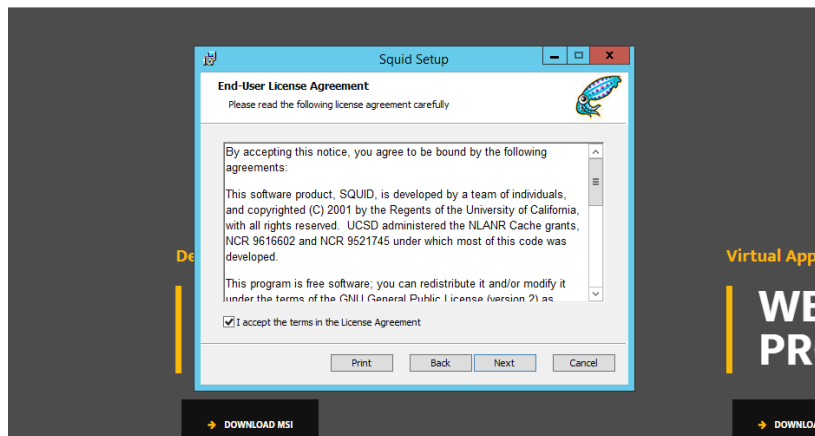
Ping statistics for 192.168.50.1:
    Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),
    Approximate round trip times in milli-seconds:
        Minimum = 0ms, Maximum = 0ms, Average = 0ms

C:\Users\WK01>
```

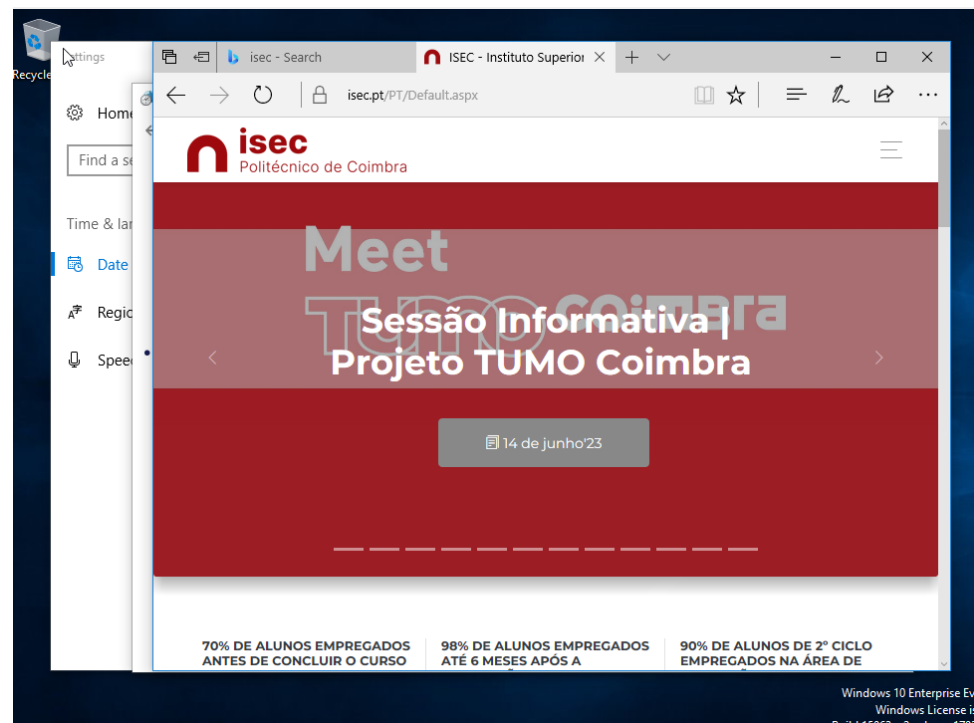
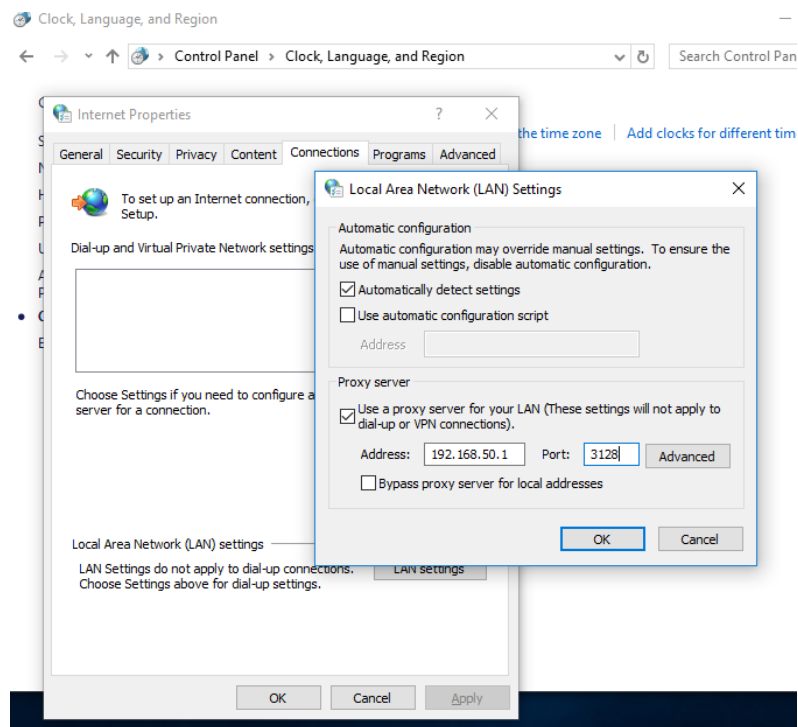


# PERGUNTA 3

SQUID PROXY WEB PROXY FOR WINDOWS WEB SAFETY PROXY



# PERGUNTA 3

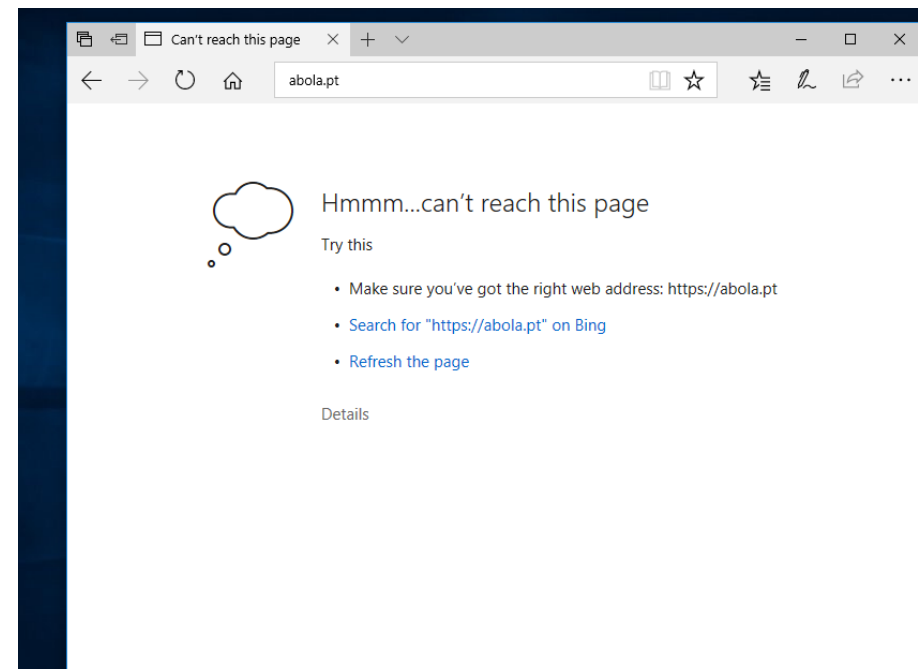


# PERGUNTA 3

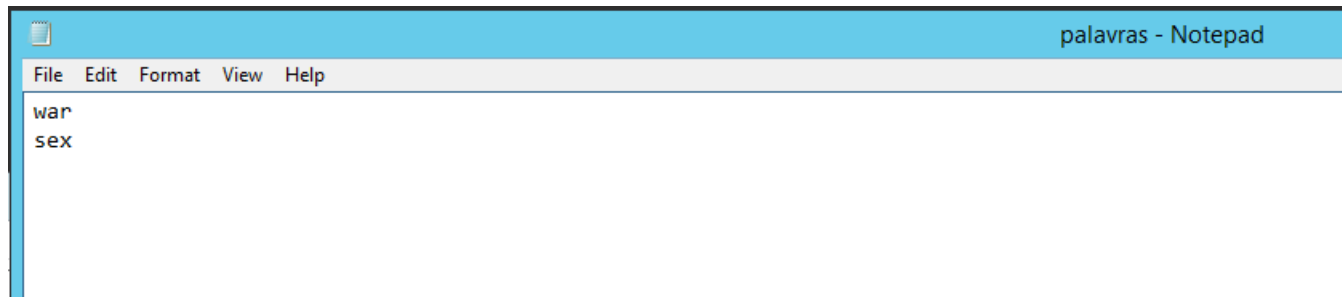
```
bloqueios - Notepad
File Edit Format View Help
.abola.pt
.orecord.pt
.ojogo.pt
```

```
acl Safe_ports port 777      # multiling http
acl CONNECT method CONNECT

acl bloqueio dstdomain "C:\Squid\bloqueios\bloqueios.txt"
http_access deny bloqueio
```

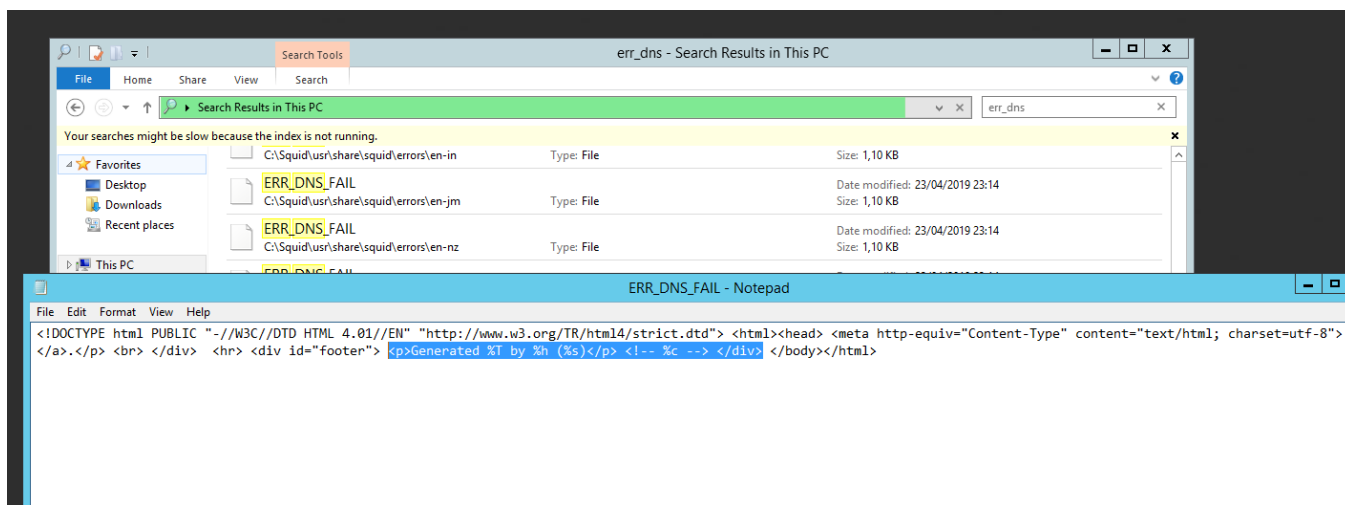


# PERGUNTA 3



```
acl bloqueio dstdomain "C:\Squid\bloqueios\bloqueios.txt"  
http_access deny bloqueio  
  
acl palavras url_regex -i "C:\Squid\bloqueios\bloqueios.txt"  
http_access deny palavras  
  
#
```

# PERGUNTA 3





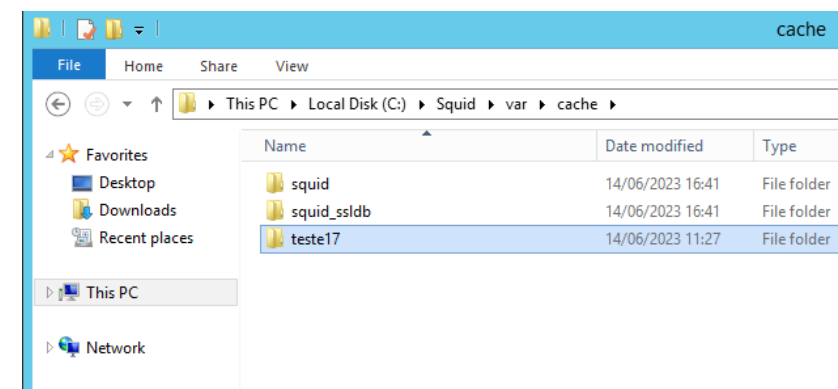
# PERGUNTA 3

```
# Add any of your own refresh_pattern entries above these.
refresh_pattern ^ftp:          1440      20%      10080
refresh_pattern ^gopher:      1440      0%       1440
refresh_pattern -i (/cgi-bin/|\?) 0        0%        0
refresh_pattern .              0         20%     4320

dns_nameservers 8.8.8.8 208.67.222.222

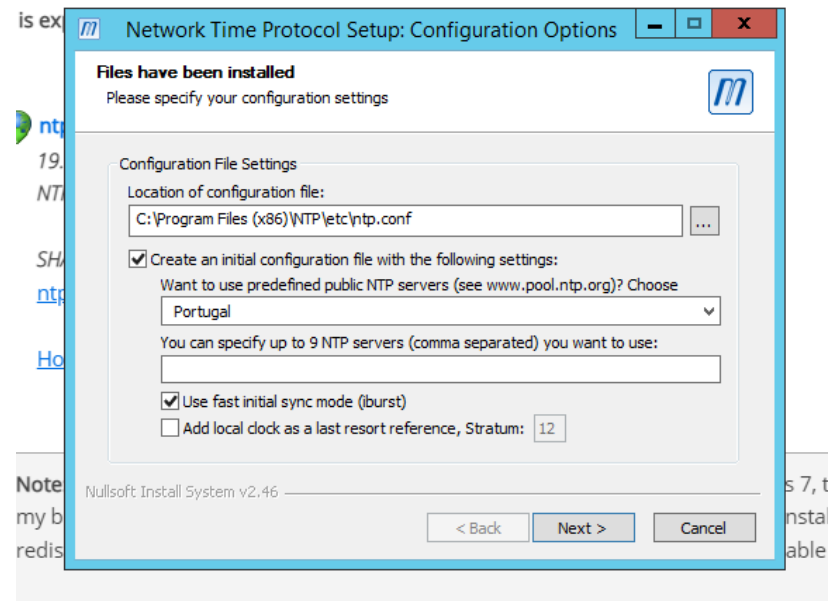
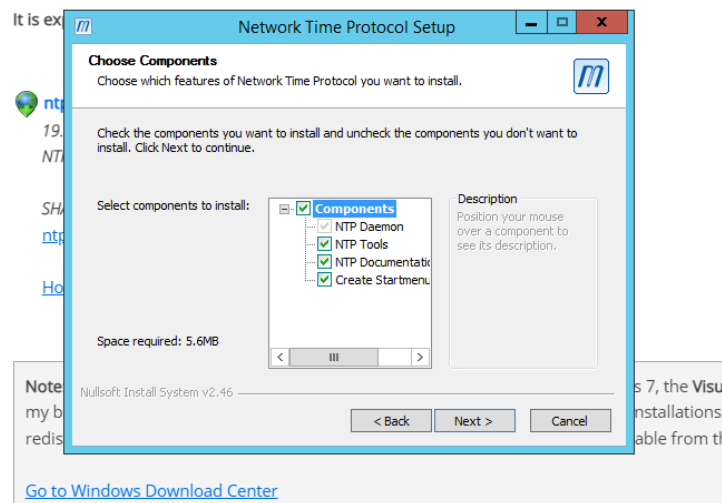
cache_dir usf /var/cache/teste17 254 128 256
```

```
Administrator: Squid Terminal
C:\Squid>./squid -h
2023/06/14 17:47:46.1 Startup: Initializing Authentication Scheme ...
2023/06/14 17:47:46.1 Startup: Initializing Authentication Scheme 'basic'
2023/06/14 17:47:46.1 Startup: Initializing Authentication Scheme 'digest'
2023/06/14 17:47:46.1 Startup: Initializing Authentication Scheme 'negotiate'
2023/06/14 17:47:46.1 Startup: Initializing Authentication Scheme 'ntlm'
2023/06/14 17:47:46.1 Processing configuration file: c:\var\cache\squid\conf\squid.conf (depth 0)
2023/06/14 17:47:46.1 Processing: acl localhost src 10.0.0.0/8 # RFC1918 possible
2023/06/14 17:47:46.1 Processing: acl localhost src 172.16.0.0/12 # RFC1918 possible
2023/06/14 17:47:46.1 Processing: acl localhost src 192.168.0.0/16 # RFC1918 possible
2023/06/14 17:47:46.1 Processing: acl localhost src fe80::/7 # RFC 4291 link-local
2023/06/14 17:47:46.1 Processing: acl localhost src fe80::/10 # RFC 4291 link-local (directly plugged) machines
2023/06/14 17:47:46.1 Processing: acl Safe_ports port 80 # http
2023/06/14 17:47:46.1 Processing: acl Safe_ports port 81 # http
2023/06/14 17:47:46.1 Processing: acl Safe_ports port 443 # https
2023/06/14 17:47:46.1 Processing: acl Safe_ports port 443 # https
2023/06/14 17:47:46.1 Processing: acl Safe_ports port 21 # ftp
2023/06/14 17:47:46.1 Processing: acl Safe_ports port 210 # gopher
2023/06/14 17:47:46.1 Processing: acl Safe_ports port 210 # gopher
2023/06/14 17:47:46.1 Processing: acl Safe_ports port 1025-65535 # unregistered ports
2023/06/14 17:47:46.1 Processing: acl Safe_ports port 280 # http-alt
2023/06/14 17:47:46.1 Processing: acl Safe_ports port 488 # http-alt
2023/06/14 17:47:46.1 Processing: acl Safe_ports port 591 # filemaker
2023/06/14 17:47:46.1 Processing: acl Safe_ports port 777 # multihop
2023/06/14 17:47:46.1 Processing: acl CONNECT method CONNECT
2023/06/14 17:47:46.1 Processing: acl http_access deny localhost
2023/06/14 17:47:46.1 Processing: http_access deny localhost
2023/06/14 17:47:46.1 Processing: http_access deny localhost
2023/06/14 17:47:46.1 Processing: http_access deny CONNECT localhost
2023/06/14 17:47:46.1 Processing: http_access allow localhost
2023/06/14 17:47:46.1 Processing: http_access allow localhost
2023/06/14 17:47:46.1 Processing: http_access deny all
2023/06/14 17:47:46.1 Processing: refresh_pattern ^ftp: 1440 20% 10080
2023/06/14 17:47:46.1 Processing: refresh_pattern ^gopher: 1440 0% 1440
2023/06/14 17:47:46.1 Processing: refresh_pattern -i (/cgi-bin/|\?) 0 0% 0
2023/06/14 17:47:46.1 Processing: dns_nameservers 8.8.8.8 208.67.222.222
2023/06/14 17:47:46.1 Processing: cache_dir usf /var/cache/teste17 254 128 256
2023/06/14 17:47:46.1 ERROR: This proxy does not support the 'usf' cache type.
2023/06/14 17:47:46.1 Processing: max_filedescriptors 32768
2023/06/14 17:47:46.1 Initializing https:// proxy context
C:\Squid>
```

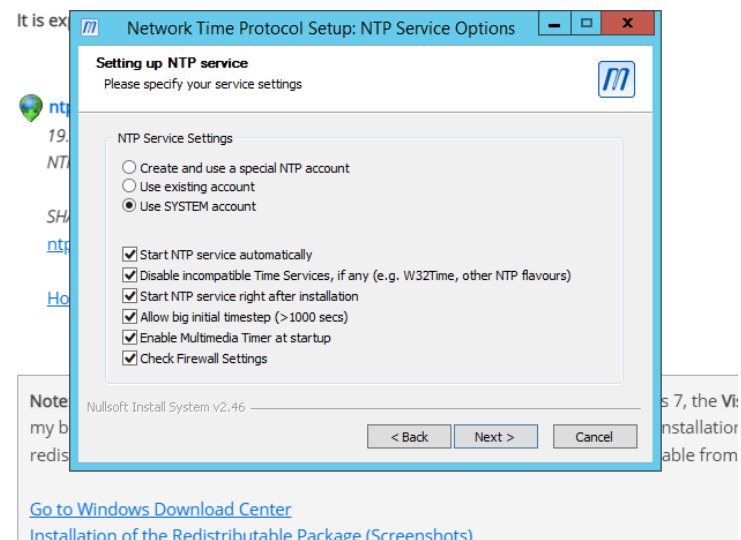


# PERGUNTA 4

This package also includes the current openssl libcrypto DLL v1.1.1t.

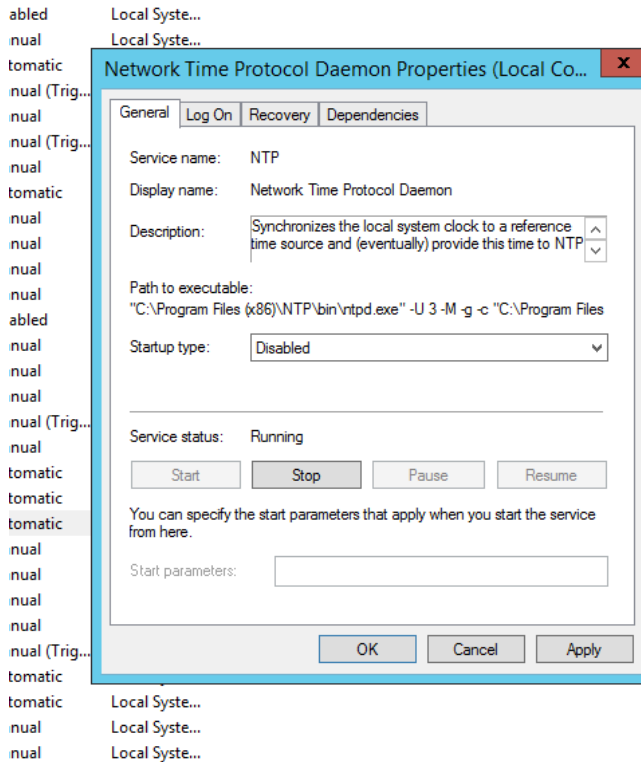


This package also includes the current openssl libcrypto DLL v1.1.1t.

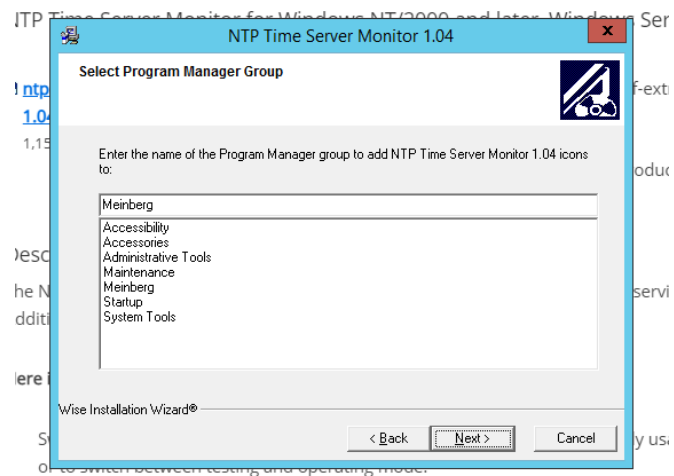
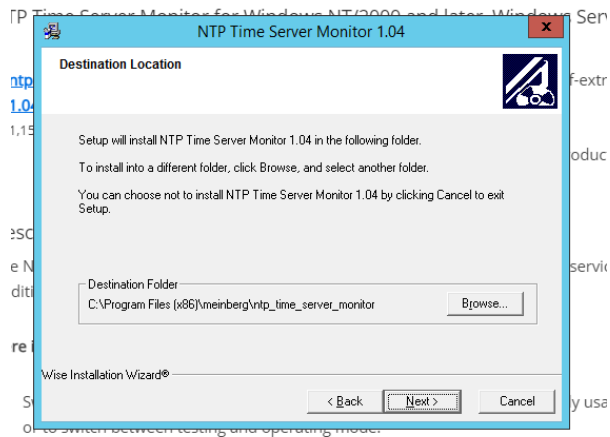


# PERGUNTA 4

Desabilitar o W32 Time.



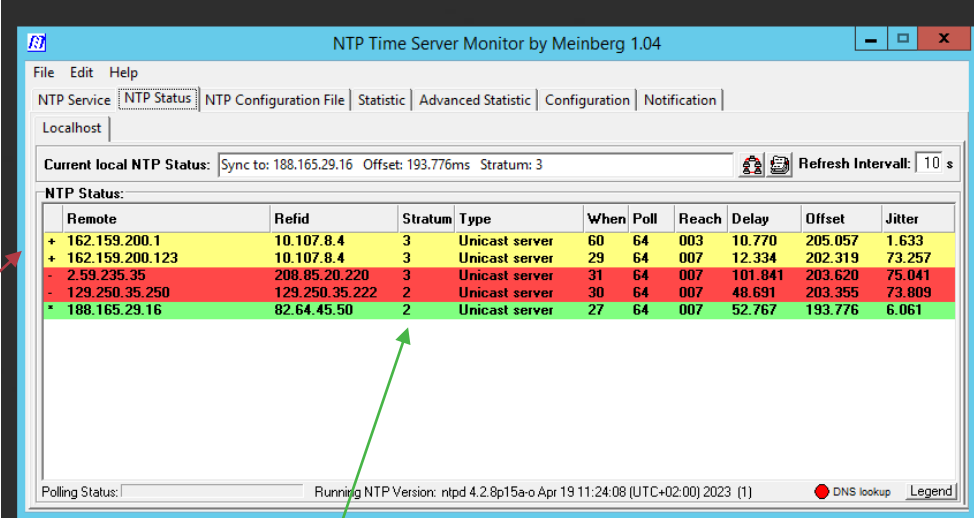
# PERGUNTA 4



# PERGUNTA 4

A coluna do *stratum* está indicada pela seta verde.

A coluna do system peer está indicada pela seta a vermelho.



NTP Time Server Monitor by Meinberg 1.04

File Edit Help

NTP Service | NTP Status | NTP Configuration File | Statistic | Advanced Statistic | Configuration | Notification

Localhost

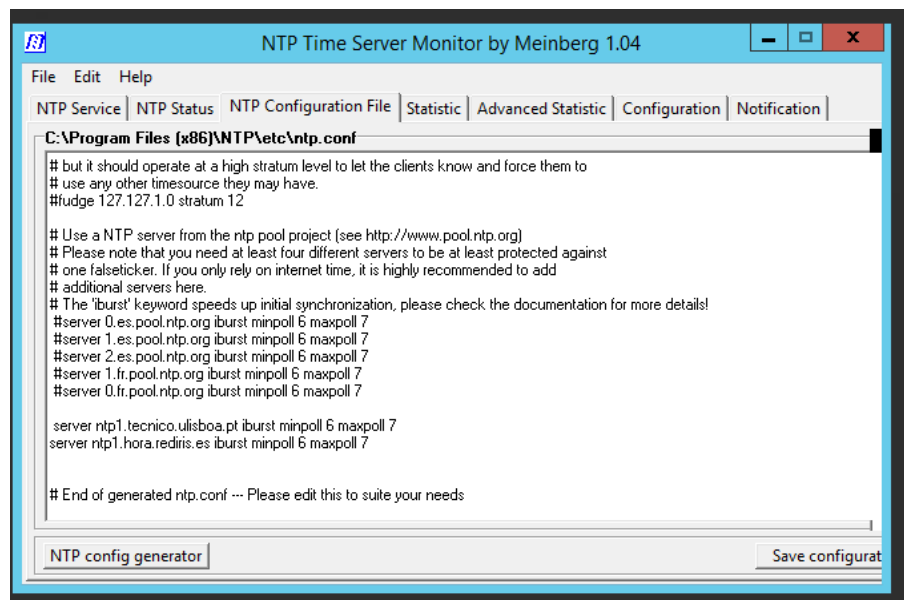
Current local NTP Status: Sync to: 188.165.29.16 Offset: 193.776ms Stratum: 3 Refresh Interval: 10 s

NTP Status:

Remote	Refid	Stratum	Type	When	Poll	Reach	Delay	Offset	Jitter
+ 162.159.200.1	10.107.8.4	3	Unicast server	60	64	003	10.770	205.057	1.633
+ 162.159.200.123	10.107.8.4	3	Unicast server	29	64	007	12.334	202.319	73.257
- 2.59.235.35	208.85.20.220	3	Unicast server	31	64	007	101.841	203.620	75.041
- 129.250.35.250	129.250.35.222	2	Unicast server	30	64	007	48.691	203.355	73.809
* 188.165.29.16	82.64.45.50	2	Unicast server	27	64	007	52.767	193.776	6.061

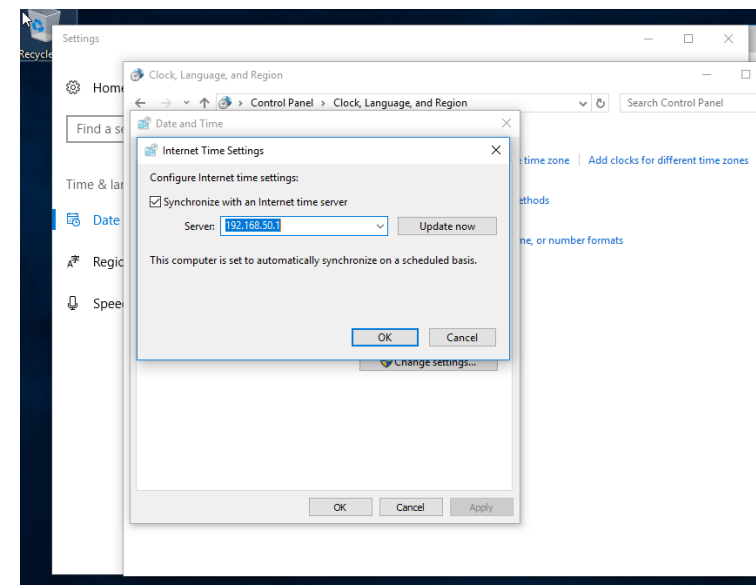
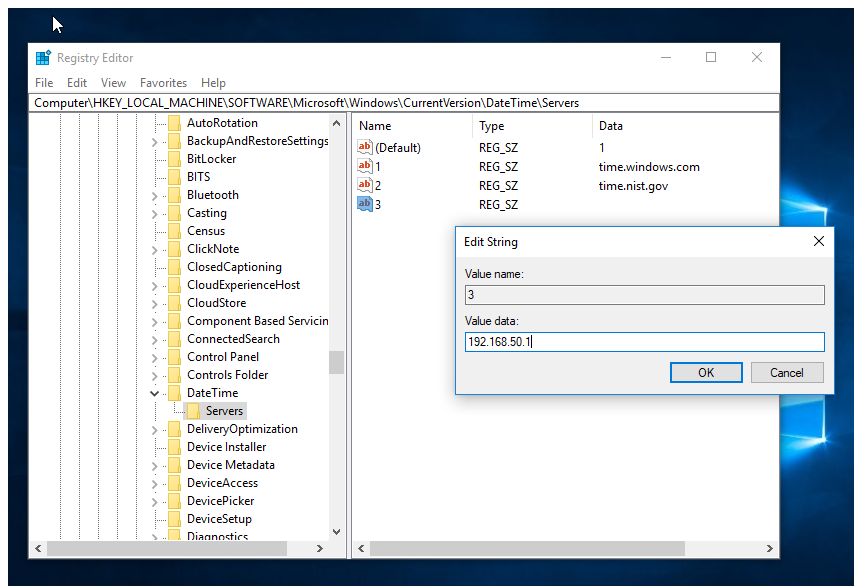
Polling Status: Running NTP Version: ntpd 4.2.8p15a-o Apr 19 11:24:08 (UTC+02:00) 2023 (1) DNS lookup Legend

# PERGUNTA 4





# PERGUNTA 4



# PERGUNTA 4

