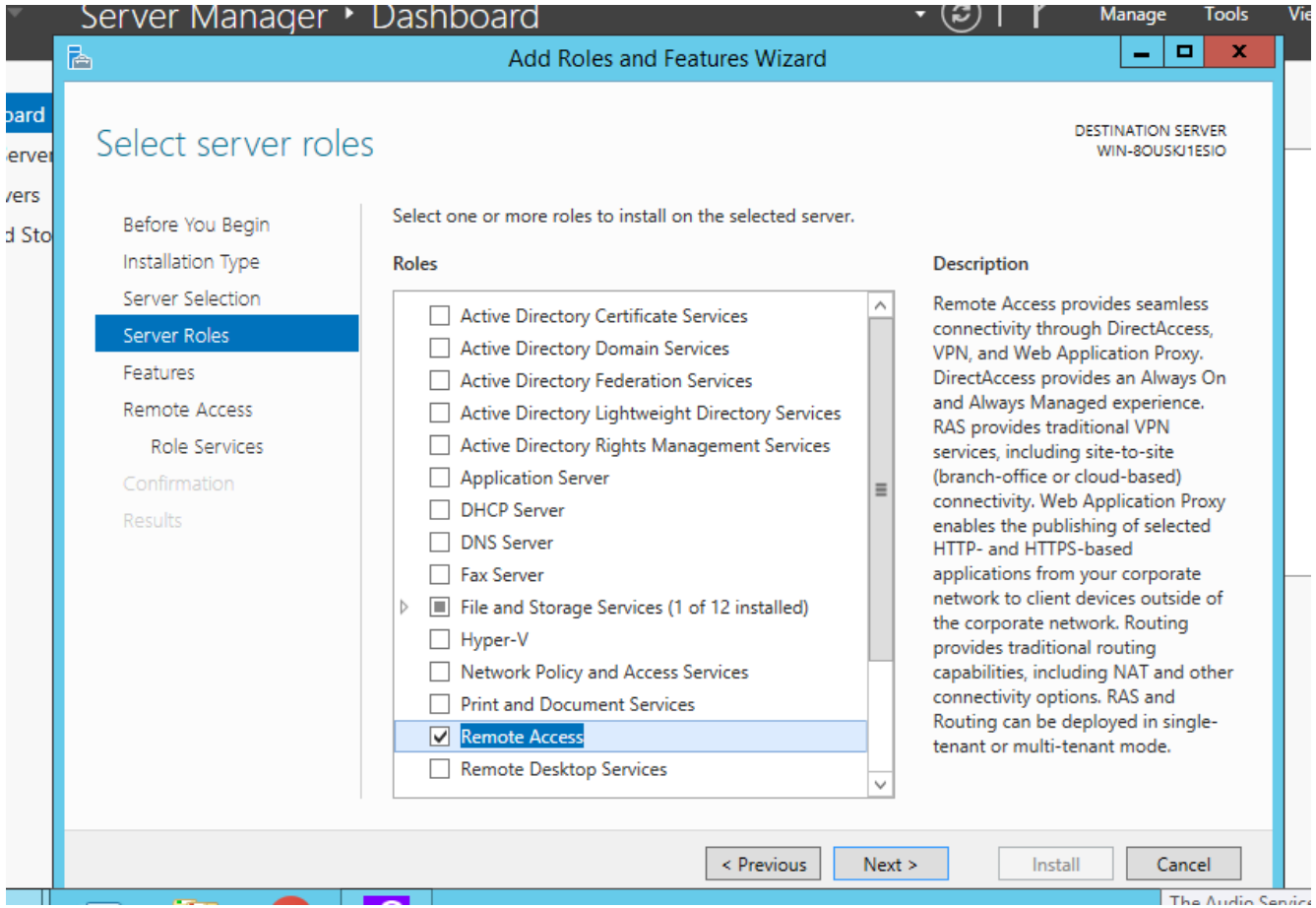
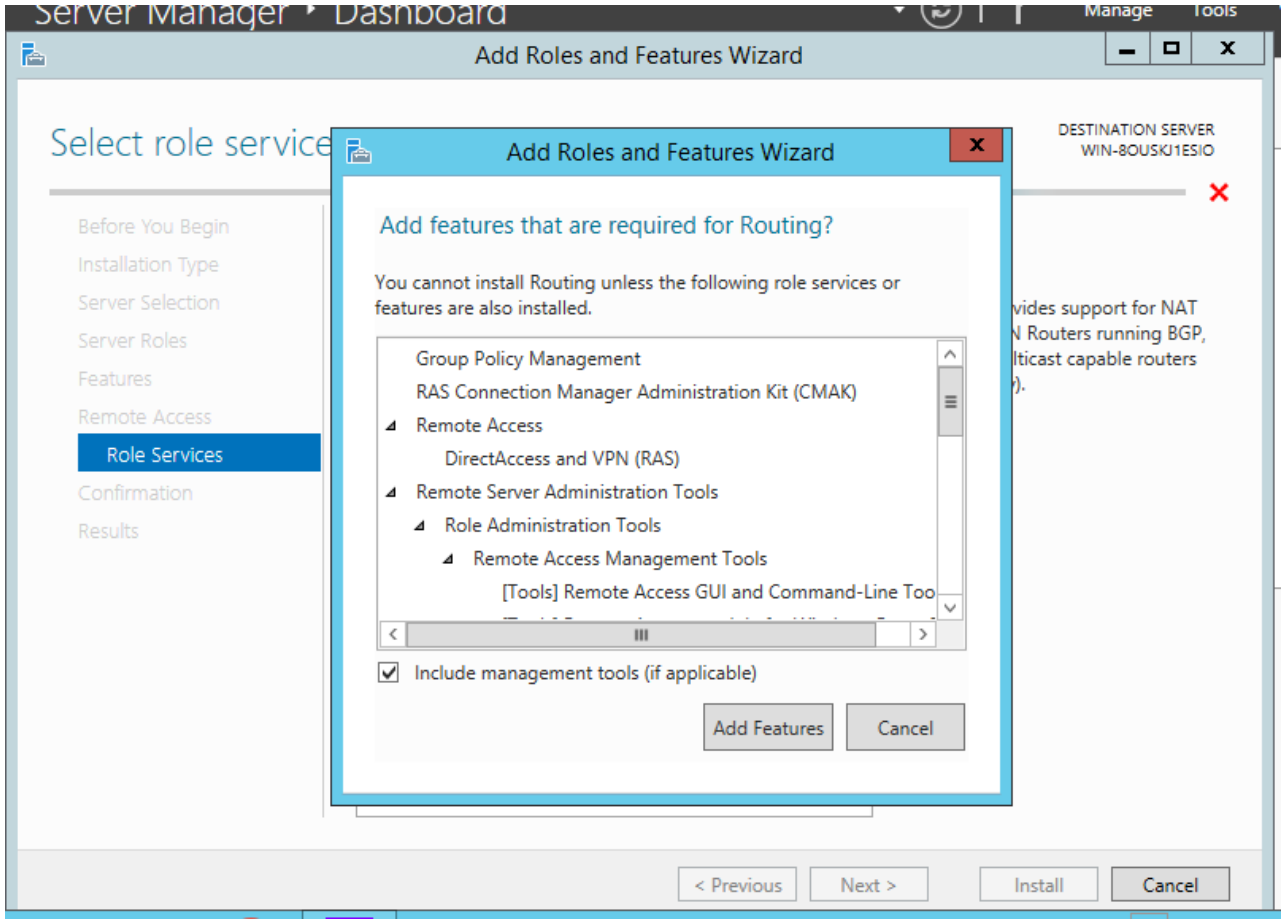
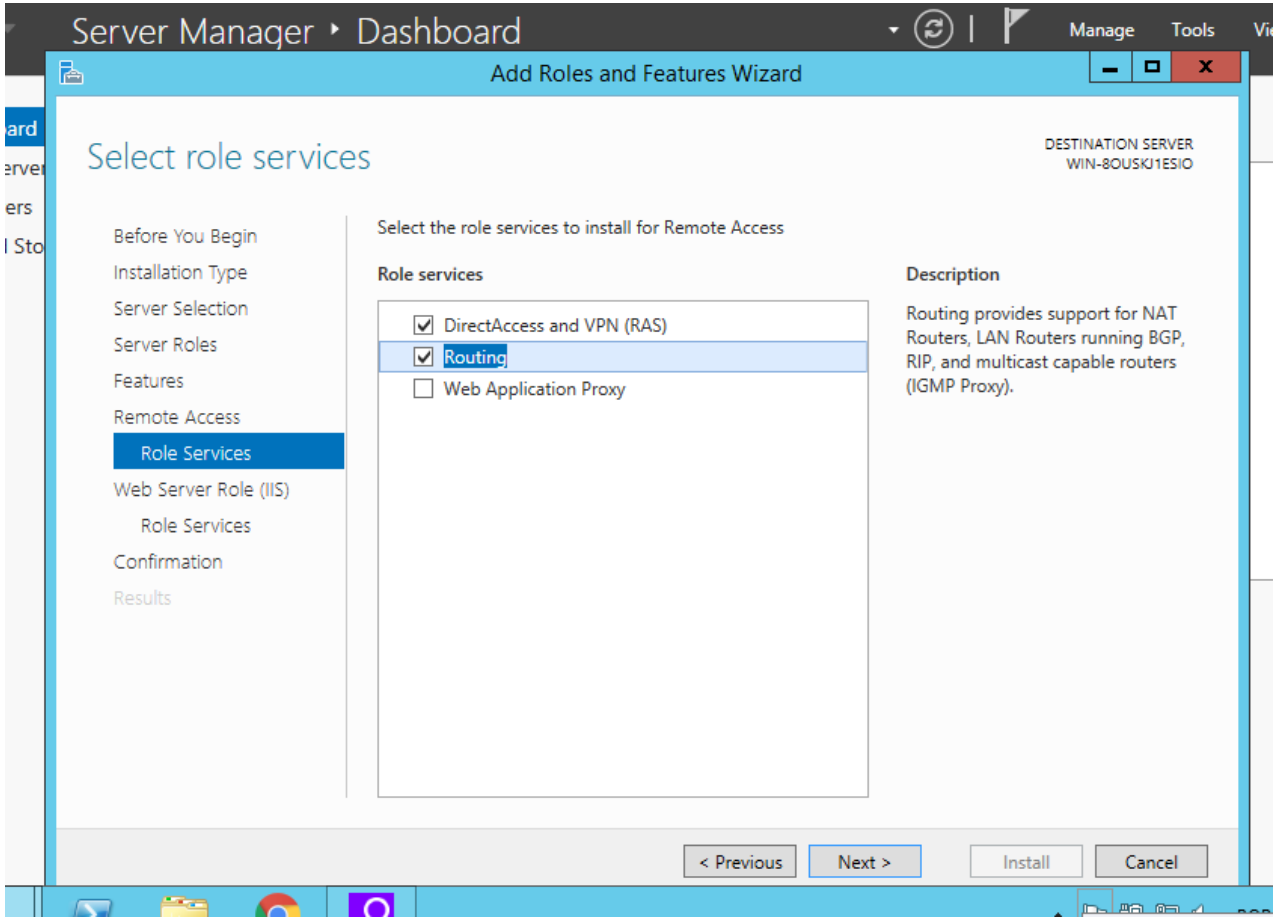
Rafael Filipe Martins Alves

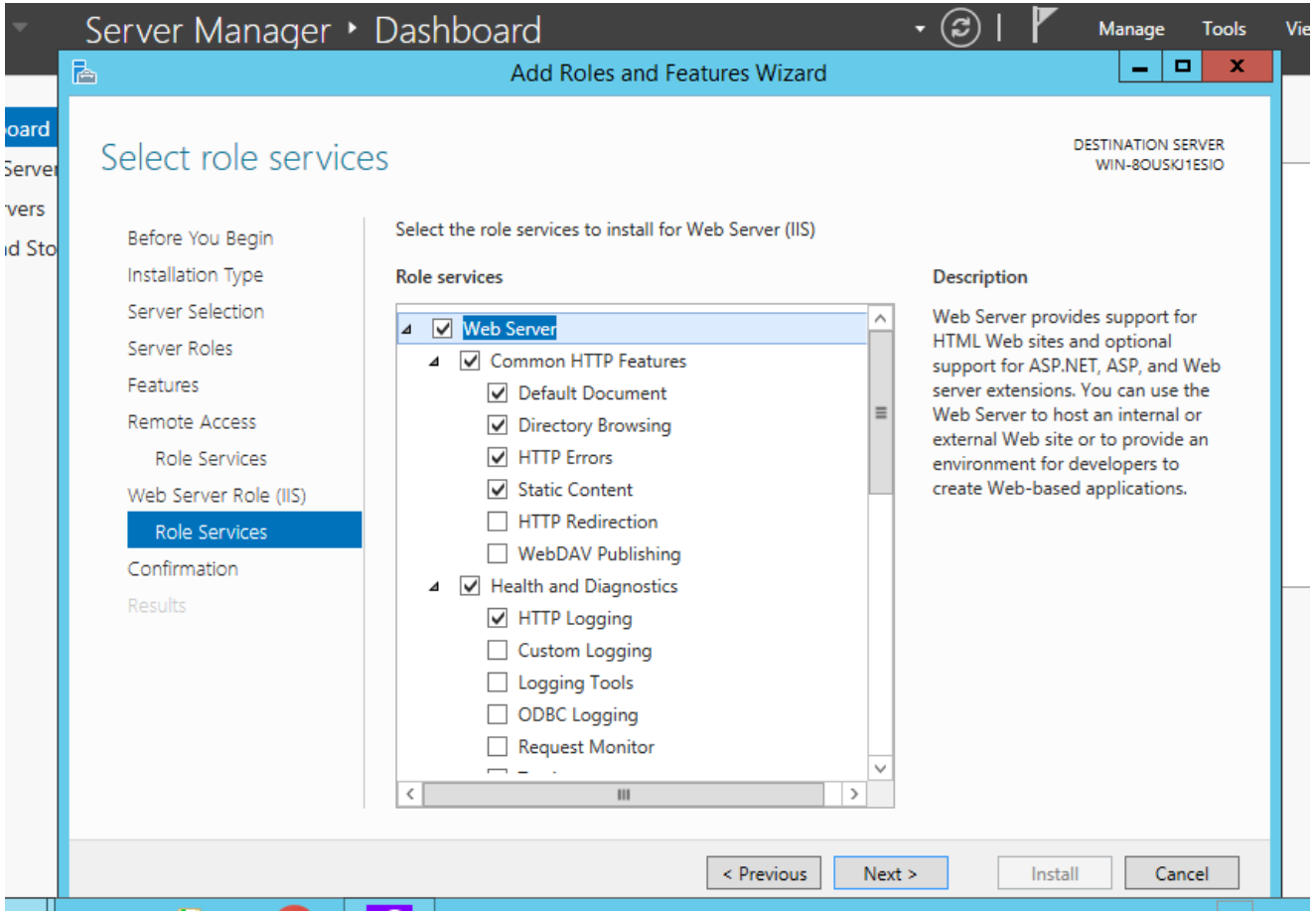
2014013189

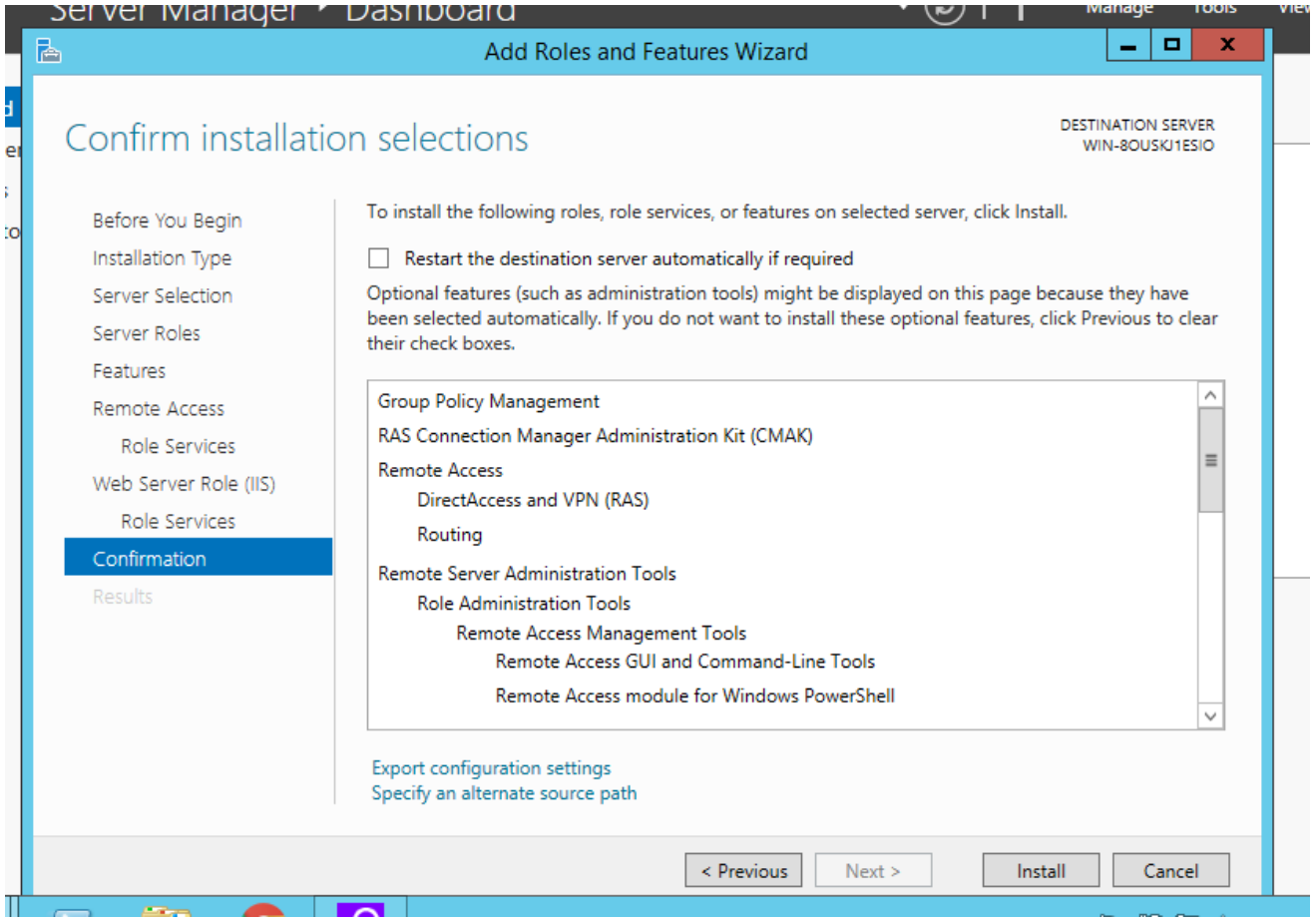
Parte B

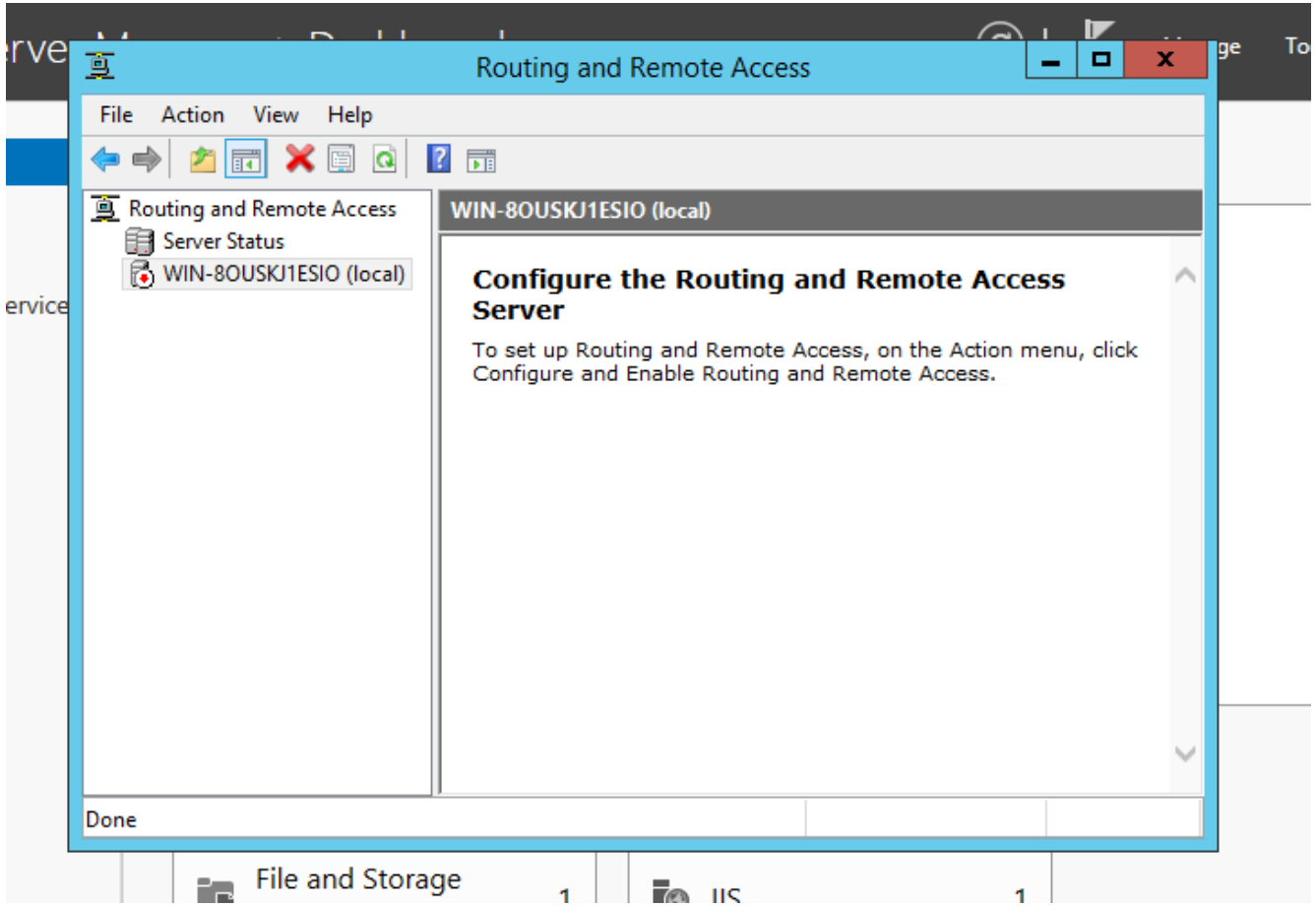

Server Manager ▸ Dashboard
Manage
Tools
Add Roles and Features Wizard
Select server roles
DESTINATION SERVER
WIN-8OUSKJ1ESIO
Before You Begin
Installation Type
Server Selection
Server Roles
Features
Remote Access
Role Services
Confirmation
Results
Select one or more roles to install on the selected server.
Roles
Active Directory Certificate Services
Active Directory Domain Services
Active Directory Federation Services
Active Directory Lightweight Directory Services
Active Directory Rights Management Services
Application Server
DHCP Server
DNS Server
Fax Server
File and Storage Services (1 of 12 installed)
Hyper-V
Network Policy and Access Services
Print and Document Services
Remote Access
Remote Desktop Services
Description
Remote Access provides seamless connectivity through DirectAccess, VPN, and Web Application Proxy. DirectAccess provides an Always On and Always Managed experience. RAS provides traditional VPN services, including site-to-site (branch-office or cloud-based) connectivity. Web Application Proxy enables the publishing of selected HTTP- and HTTPS-based applications from your corporate network to client devices outside of the corporate network. Routing provides traditional routing capabilities, including NAT and other connectivity options. RAS and Routing can be deployed in single-tenant or multi-tenant mode.
< Previous
Next >
Install
Cancel

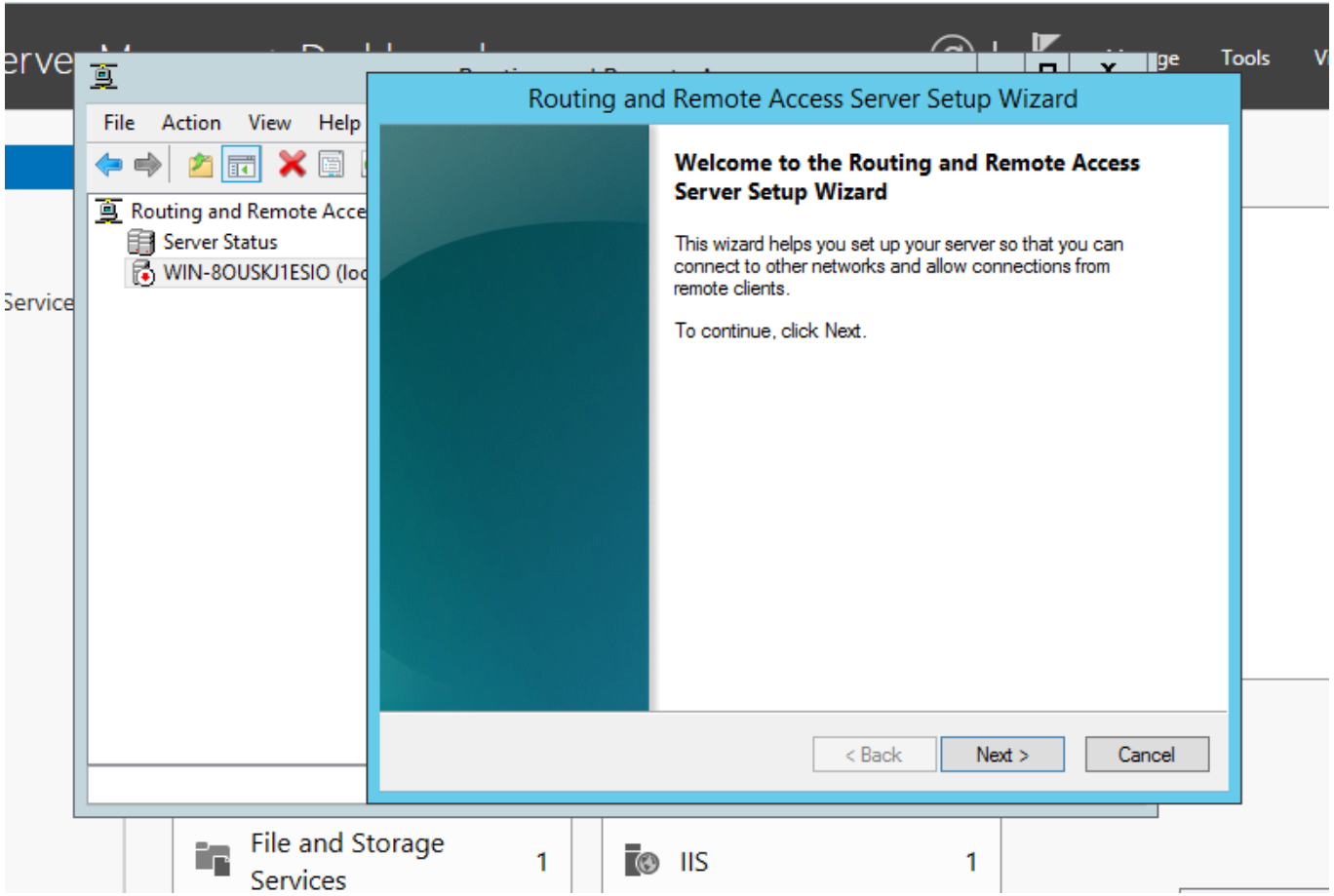

Server Manager ▸ Dashboard
Manage
Tools
Add Roles and Features Wizard
Select role service
DESTINATION SERVER
WIN-8OUSKJ1ESIO
Before You Begin
Installation Type
Server Selection
Server Roles
Features
Remote Access
Role Services
Confirmation
Results
Add Roles and Features Wizard
Add features that are required for Routing?
You cannot install Routing unless the following role services or features are also installed.
Group Policy Management
RAS Connection Manager Administration Kit (CMAK)
Remote Access
DirectAccess and VPN (RAS)
Remote Server Administration Tools
Role Administration Tools
Remote Access Management Tools
[Tools] Remote Access GUI and Command-Line Too
Include management tools (if applicable)
Add Features
Cancel
vides support for NAT
N Routers running BGP,
lticast capable routers
).
< Previous
Next >
Install
Cancel

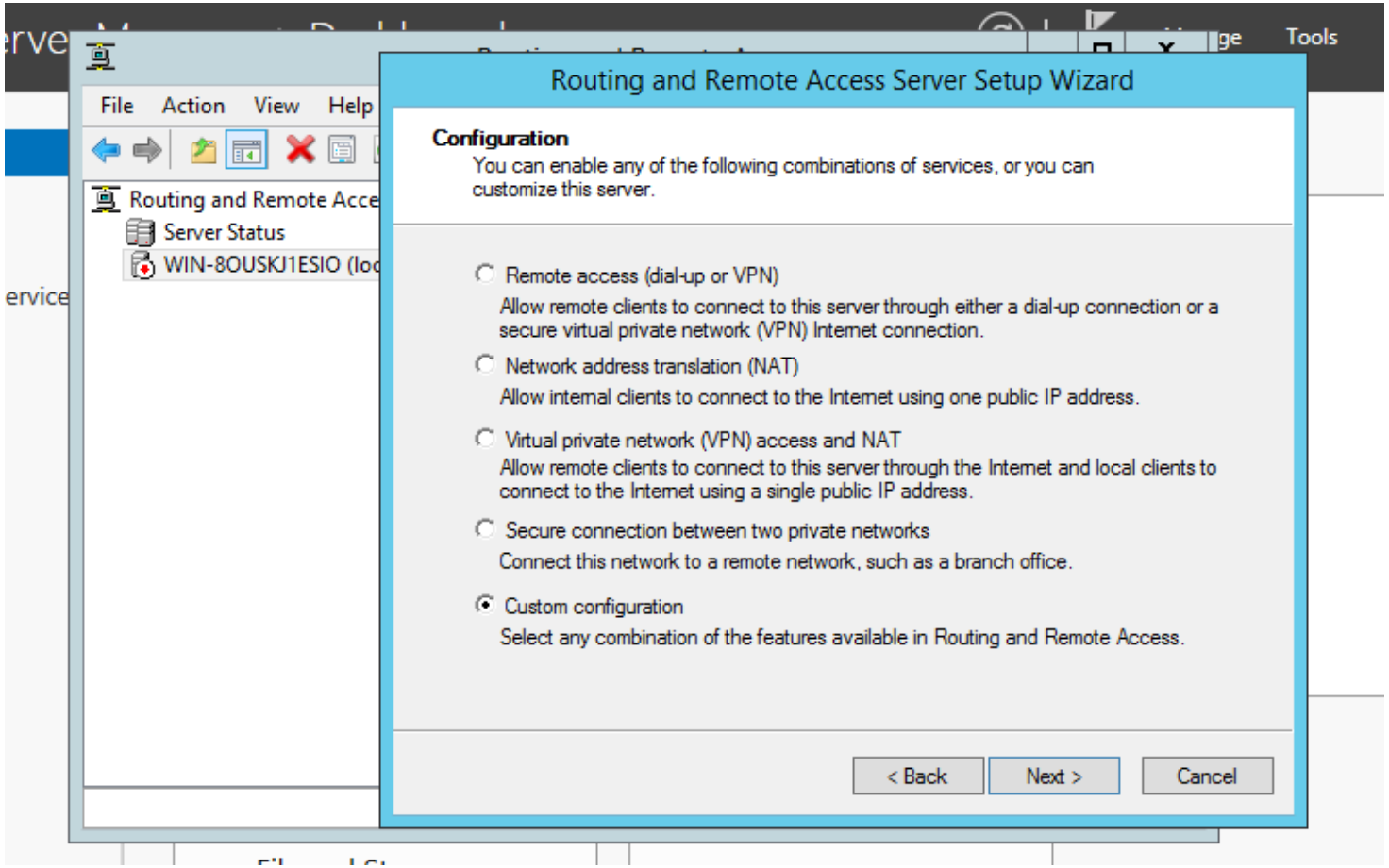

Server Manager ▸ Dashboard
Manage
Tools
Add Roles and Features Wizard
Select role services
DESTINATION SERVER
WIN-8OUSKJ1ESIO
Before You Begin
Installation Type
Server Selection
Server Roles
Features
Remote Access
Role Services
Web Server Role (IIS)
Role Services
Confirmation
Results
Select the role services to install for Remote Access
Role services
DirectAccess and VPN (RAS)
Routing
Web Application Proxy
Description
Routing provides support for NAT Routers, LAN Routers running BGP, RIP, and multicast capable routers (IGMP Proxy).
< Previous
Next >
Install
Cancel

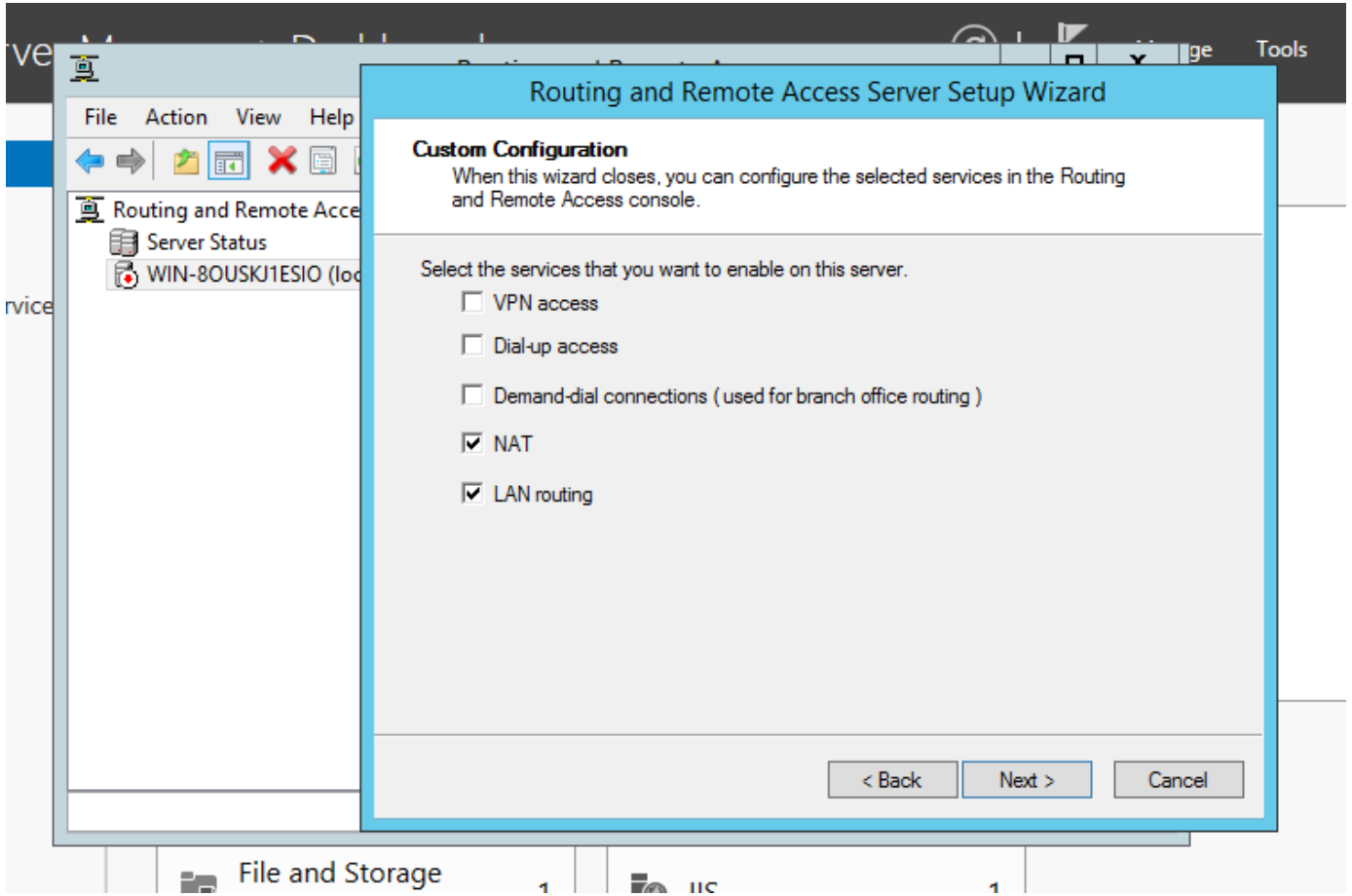

Server Manager ‣ Dashboard
Manage
Tools
Add Roles and Features Wizard
Select role services
DESTINATION SERVER
WIN-8OUSKJ1ESIO
Before You Begin
Installation Type
Server Selection
Server Roles
Features
Remote Access
Role Services
Web Server Role (IIS)
Role Services
Confirmation
Results
Select the role services to install for Web Server (IIS)
Role services
Web Server
Common HTTP Features
Default Document
Directory Browsing
HTTP Errors
Static Content
HTTP Redirection
WebDAV Publishing
Health and Diagnostics
HTTP Logging
Custom Logging
Logging Tools
ODBC Logging
Request Monitor
Description
Web Server provides support for HTML Web sites and optional support for ASP.NET, ASP, and Web server extensions. You can use the Web Server to host an internal or external Web site or to provide an environment for developers to create Web-based applications.
< Previous
Next >
Install
Cancel

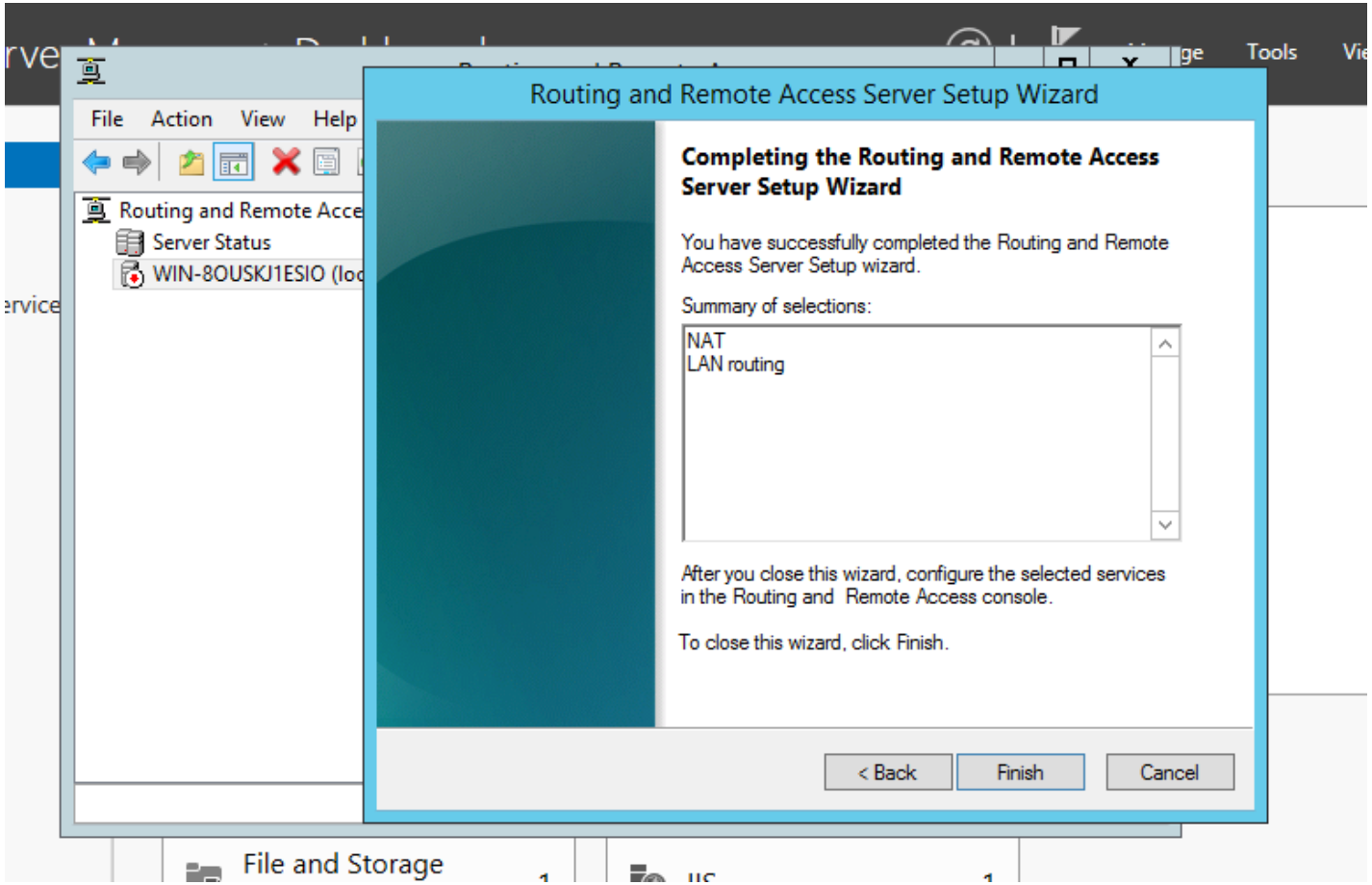

Server Manager ▸ Dashboard
Manage
Tools
Add Roles and Features Wizard
Confirm installation selections
DESTINATION SERVER
WIN-8OUSKJ1ESIO
Before You Begin
Installation Type
Server Selection
Server Roles
Features
Remote Access
Role Services
Web Server Role (IIS)
Role Services
Confirmation
Results
To install the following roles, role services, or features on selected server, click Install.
Restart the destination server automatically if required
Optional features (such as administration tools) might be displayed on this page because they have been selected automatically. If you do not want to install these optional features, click Previous to clear their check boxes.
Group Policy Management
RAS Connection Manager Administration Kit (CMAK)
Remote Access
DirectAccess and VPN (RAS)
Routing
Remote Server Administration Tools
Role Administration Tools
Remote Access Management Tools
Remote Access GUI and Command-Line Tools
Remote Access module for Windows PowerShell
Export configuration settings
Specify an alternate source path
< Previous
Next >
Install
Cancel

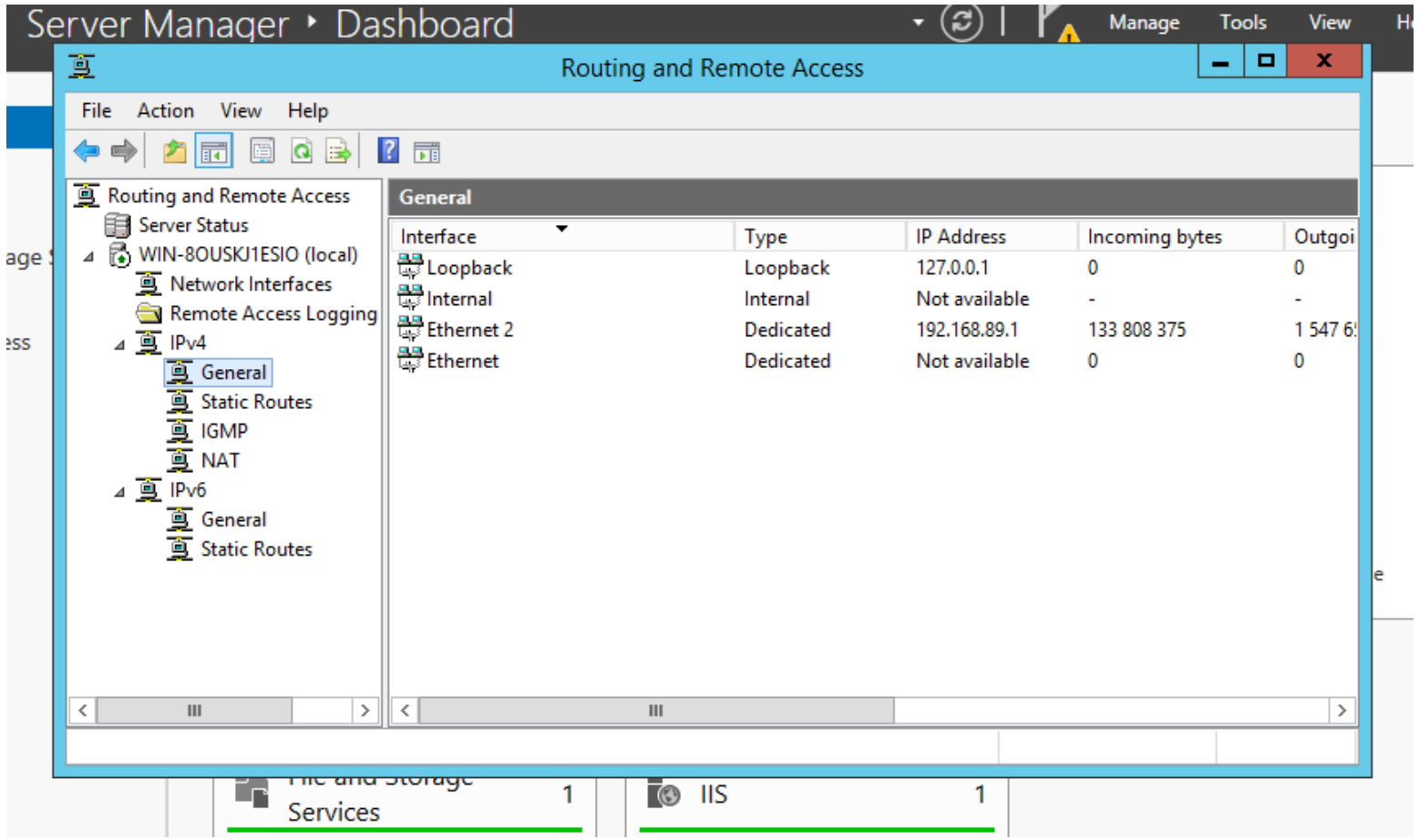

Routing and Remote Access
File
Action
View
Help
Routing and Remote Access
Server Status
WIN-8OUSKJ1ESIO (local)
WIN-8OUSKJ1ESIO (local)
Configure the Routing and Remote Access Server
To set up Routing and Remote Access, on the Action menu, click Configure and Enable Routing and Remote Access.
Done
File and Storage
IIS

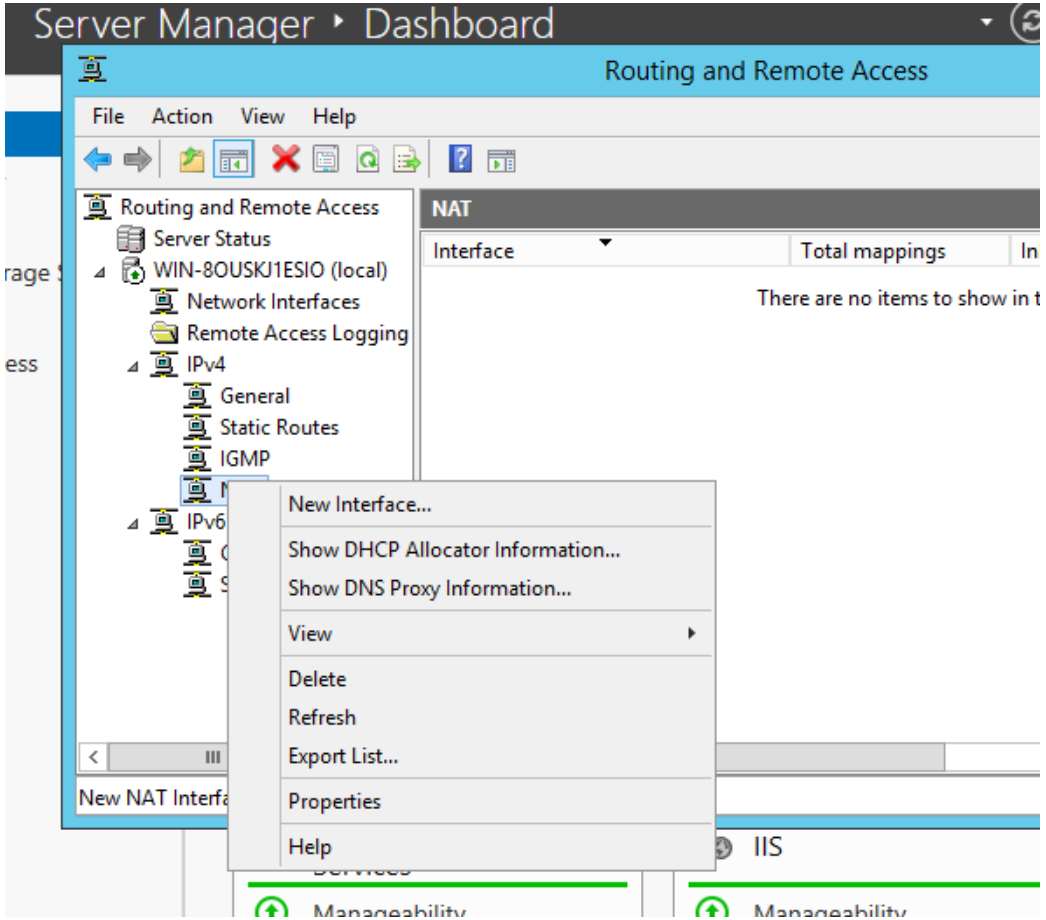

Tools
File
Action
View
Help
Routing and Remote Acce
Server Status
WIN-8OUSKJ1ESIO (loc
Routing and Remote Access Server Setup Wizard
Welcome to the Routing and Remote Access Server Setup Wizard
This wizard helps you set up your server so that you can connect to other networks and allow connections from remote clients.
To continue, click Next.
< Back
Next >
Cancel
File and Storage Services
1
IIS
1


Tools
File
Action
View
Help
Routing and Remote Acce
Server Status
WIN-8OUSKJ1ESIO (loc
Routing and Remote Access Server Setup Wizard
Configuration
You can enable any of the following combinations of services, or you can customize this server.
Remote access (dial-up or VPN)
Allow remote clients to connect to this server through either a dial-up connection or a secure virtual private network (VPN) Internet connection.
Network address translation (NAT)
Allow internal clients to connect to the Internet using one public IP address.
Virtual private network (VPN) access and NAT
Allow remote clients to connect to this server through the Internet and local clients to connect to the Internet using a single public IP address.
Secure connection between two private networks
Connect this network to a remote network, such as a branch office.
Custom configuration
Select any combination of the features available in Routing and Remote Access.
< Back
Next >
Cancel

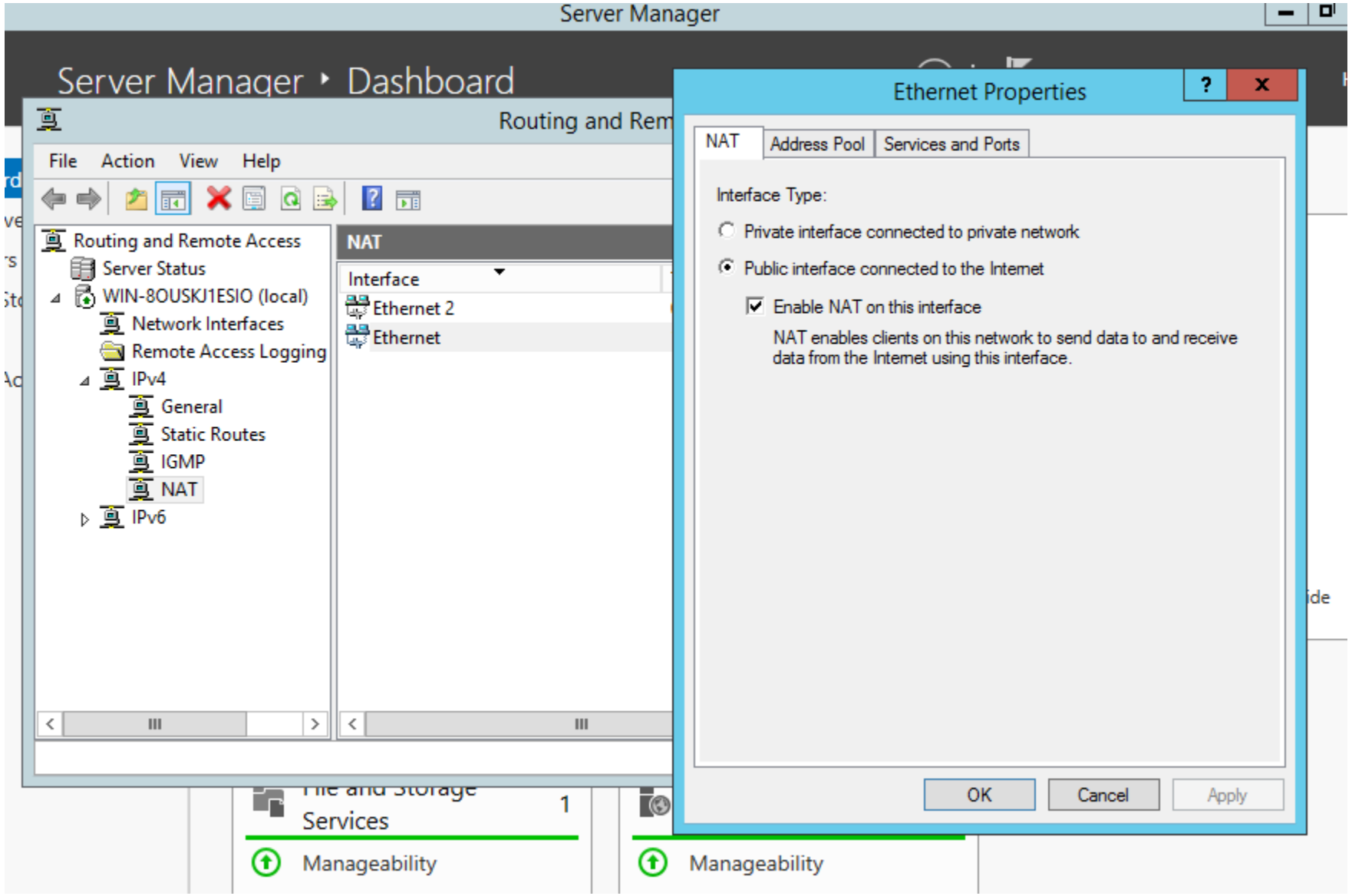

Tools
File Action View Help
Routing and Remote Acce
Server Status
WIN-8OUSKJ1ESIO (loc
Routing and Remote Access Server Setup Wizard
Custom Configuration
When this wizard closes, you can configure the selected services in the Routing and Remote Access console.
Select the services that you want to enable on this server.
VPN access
Dial-up access
Demand-dial connections (used for branch office routing)
NAT
LAN routing
< Back
Next >
Cancel
File and Storage

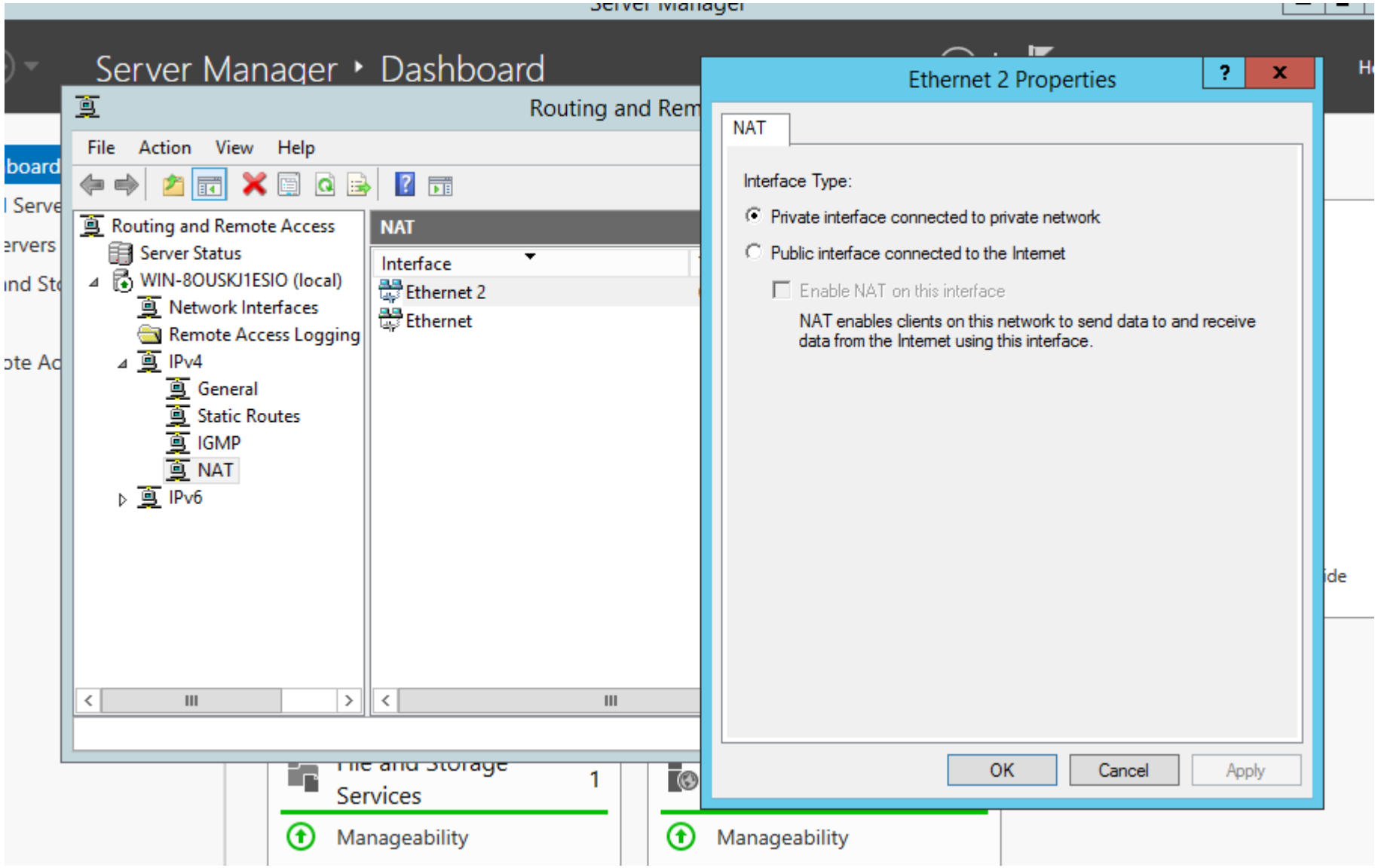

Tools
File
Action
View
Help
Routing and Remote Acce
Server Status
WIN-8OUSKJ1ESIO (loc
Routing and Remote Access Server Setup Wizard
Completing the Routing and Remote Access Server Setup Wizard
You have successfully completed the Routing and Remote Access Server Setup wizard.
Summary of selections:
NAT
LAN routing
After you close this wizard, configure the selected services in the Routing and Remote Access console.
To close this wizard, click Finish.
< Back
Finish
Cancel
File and Storage

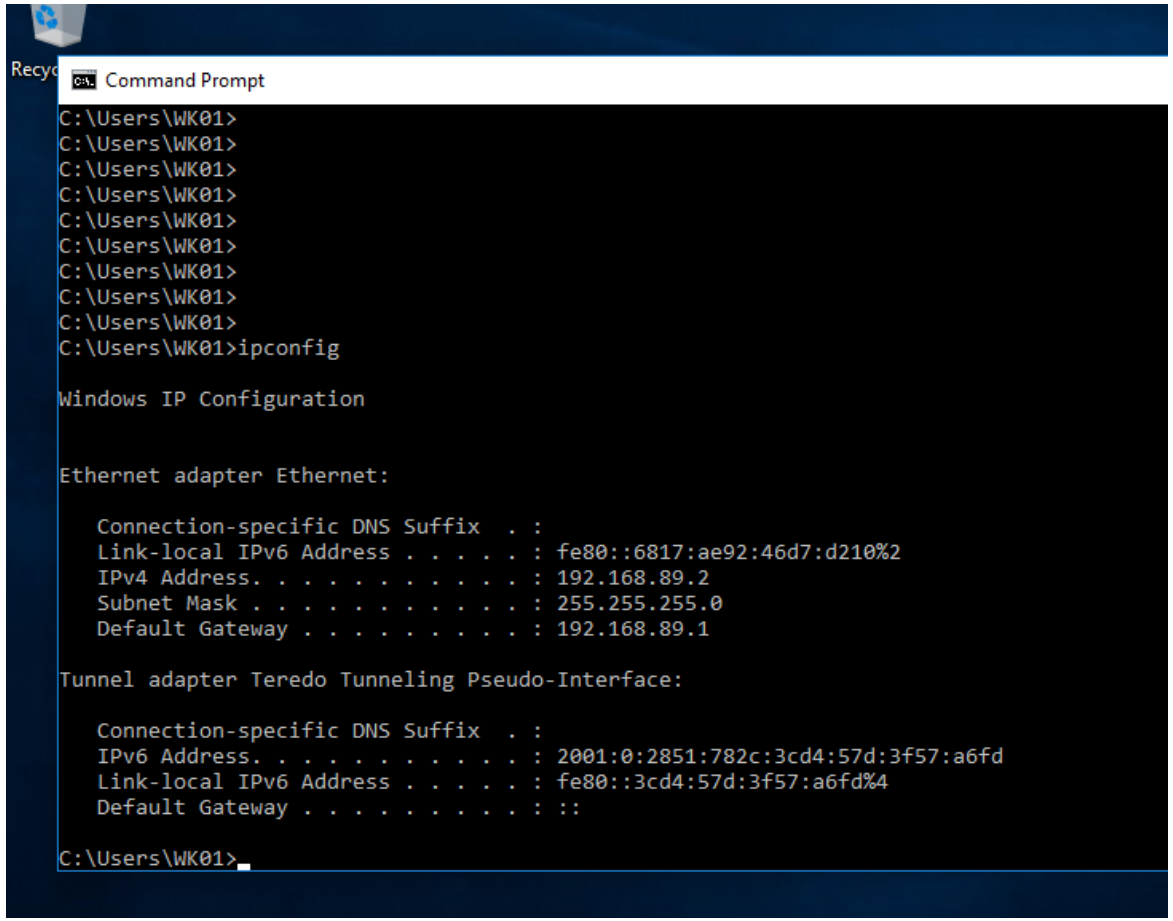

Server Manager ▸ Dashboard
Manage
Tools
View
Routing and Remote Access
File
Action
View
Help
Routing and Remote Access
Server Status
WIN-8OUSKJ1ESIO (local)
Network Interfaces
Remote Access Logging
IPv4
General
Static Routes
IGMP
NAT
IPv6
General
Static Routes
General
Interface
Type
IP Address
Incoming bytes
Outgoi
Loopback
Loopback
127.0.0.1
0
0
Internal
Internal
Not available
-
-
Ethernet 2
Dedicated
192.168.89.1
133 808 375
1 547 6
Ethernet
Dedicated
Not available
0
0
Services
1
IIS
1

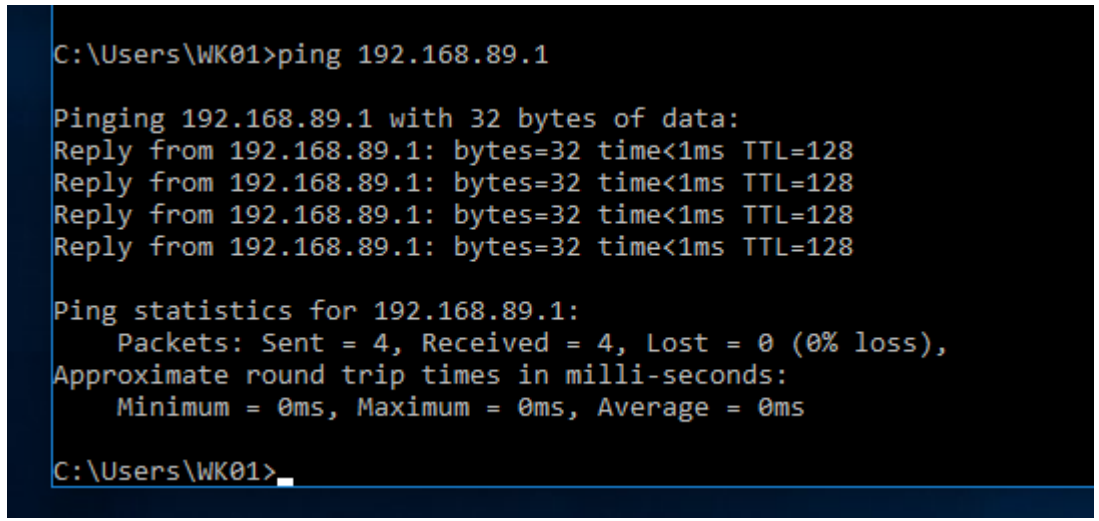


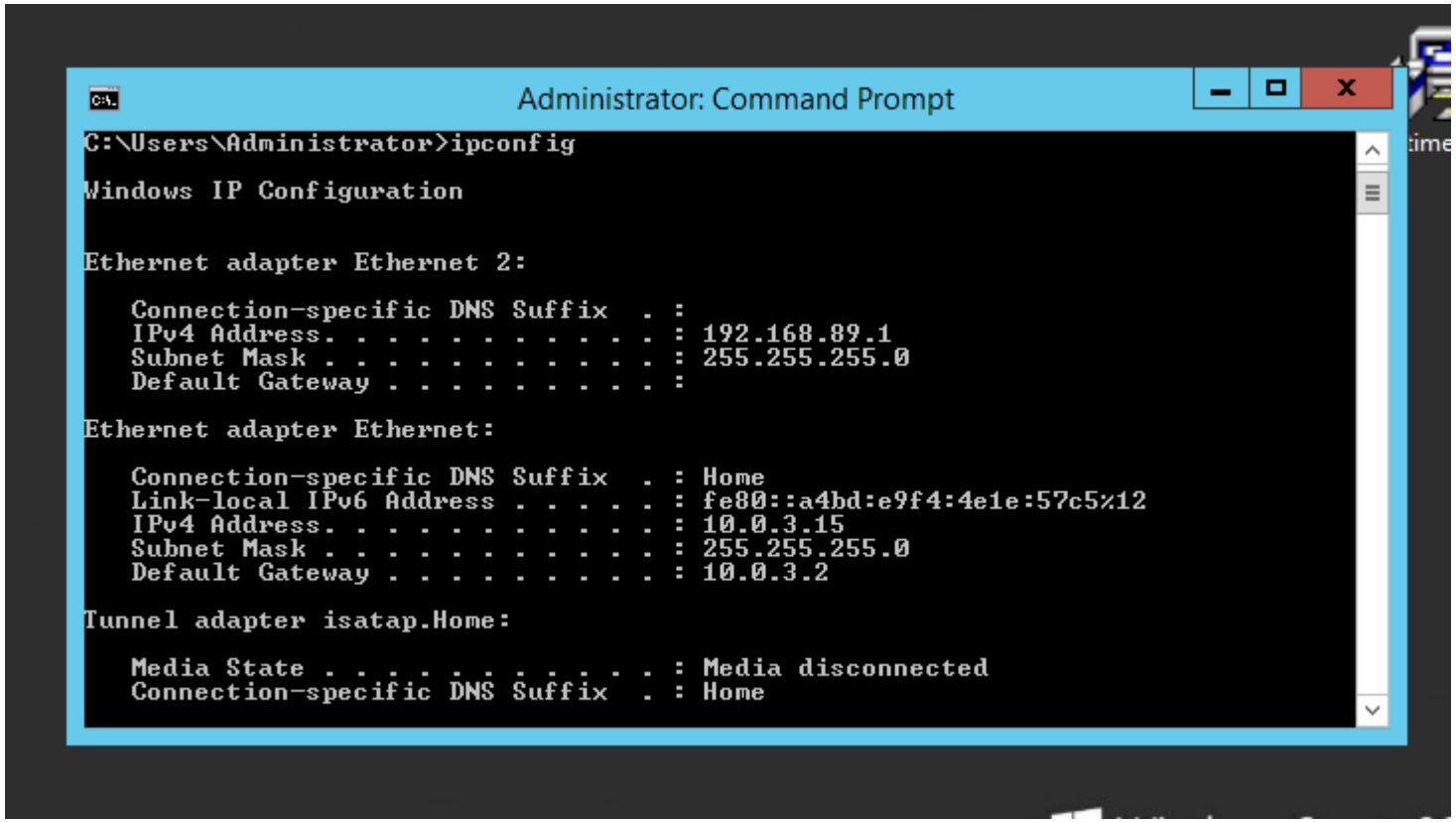
→ NEW INTERFACE

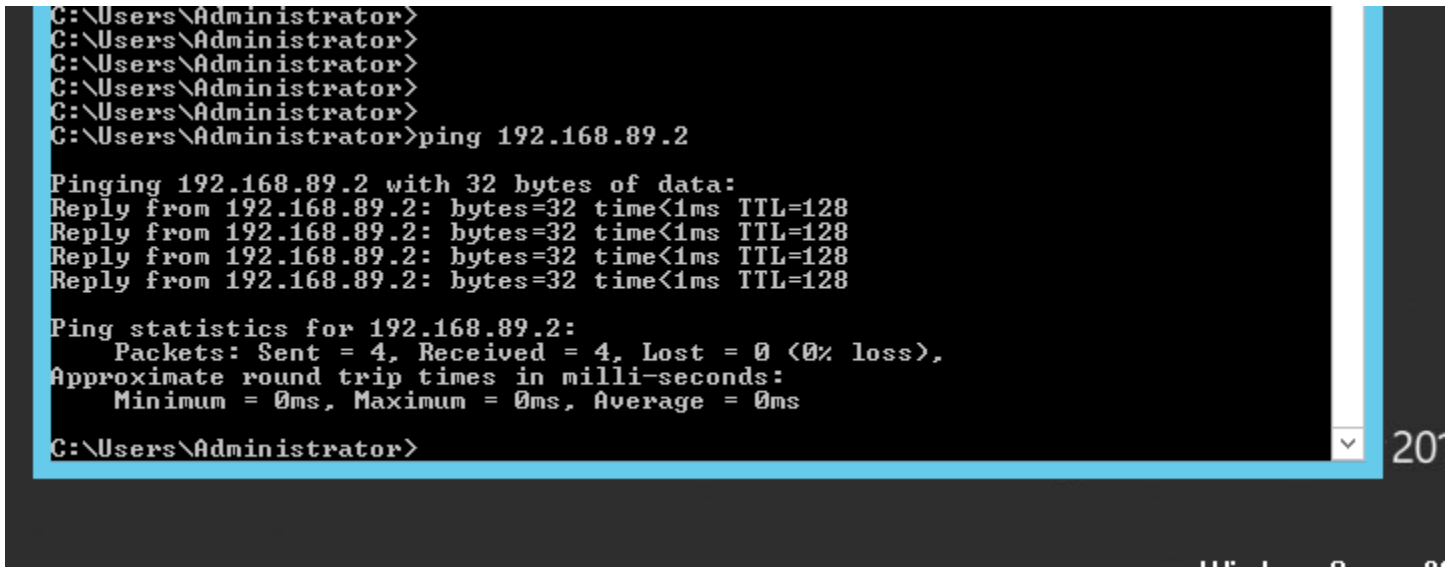

Server Manager
Server Manager ‣ Dashboard
Routing and Rem
File Action View Help
Routing and Remote Access
Server Status
WIN-8OUSKJ1ESIO (local)
Network Interfaces
Remote Access Logging
IPv4
General
Static Routes
IGMP
NAT
IPv6
NAT
Interface
Ethernet 2
Ethernet
Ethernet Properties
NAT
Address Pool
Services and Ports
Interface Type:
Private interface connected to private network
Public interface connected to the Internet
Enable NAT on this interface
NAT enables clients on this network to send data to and receive data from the Internet using this interface.
OK
Cancel
Apply
Services
1
Manageability
Manageability


Server Manager
Server Manager ‣ Dashboard
Routing and Rem
File Action View Help
Routing and Remote Access
Server Status
WIN-8OUSKJ1ESIO (local)
Network Interfaces
Remote Access Logging
IPv4
General
Static Routes
IGMP
NAT
IPv6
NAT
Interface
Ethernet 2
Ethernet
Ethernet 2 Properties
NAT
Interface Type:
Private interface connected to private network
Public interface connected to the Internet
Enable NAT on this interface
NAT enables clients on this network to send data to and receive data from the Internet using this interface.
OK
Cancel
Apply
Services
1
Manageability
Manageability

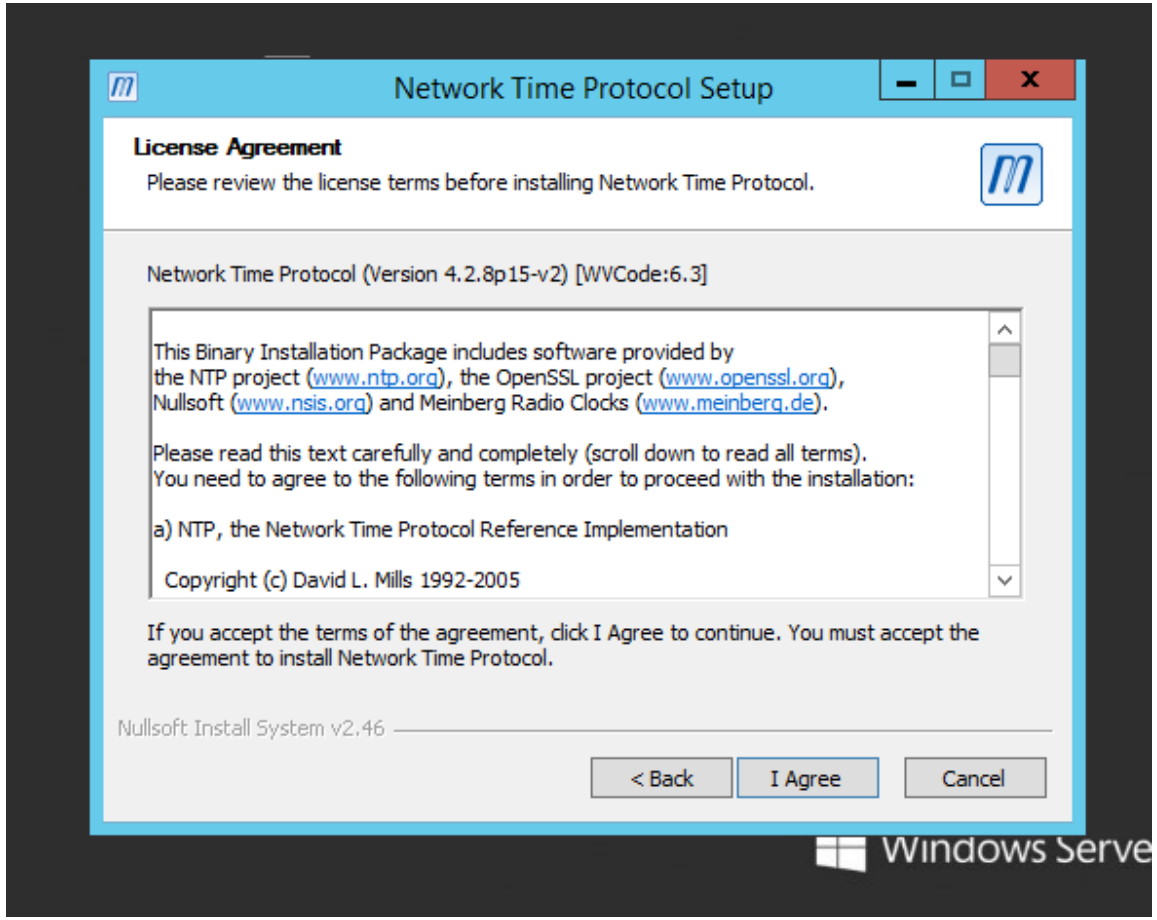

Command Prompt
C:\Users\WK01>
C:\Users\WK01>
C:\Users\WK01>
C:\Users\WK01>
C:\Users\WK01>
C:\Users\WK01>
C:\Users\WK01>
C:\Users\WK01>
C:\Users\WK01>
C:\Users\WK01>ipconfig
Windows IP Configuration
Ethernet adapter Ethernet:
Connection-specific DNS Suffix . :
Link-local IPv6 Address . . . . . : fe80::6817:ae92:46d7:d210%2
IPv4 Address. . . . . : 192.168.89.2
Subnet Mask . . . . . : 255.255.255.0
Default Gateway . . . . . : 192.168.89.1
Tunnel adapter Teredo Tunneling Pseudo-Interface:
Connection-specific DNS Suffix . :
IPv6 Address. . . . . : 2001:0:2851:782c:3cd4:57d:3f57:a6fd
Link-local IPv6 Address . . . . . : fe80::3cd4:57d:3f57:a6fd%4
Default Gateway . . . . . : ::
C:\Users\WK01>

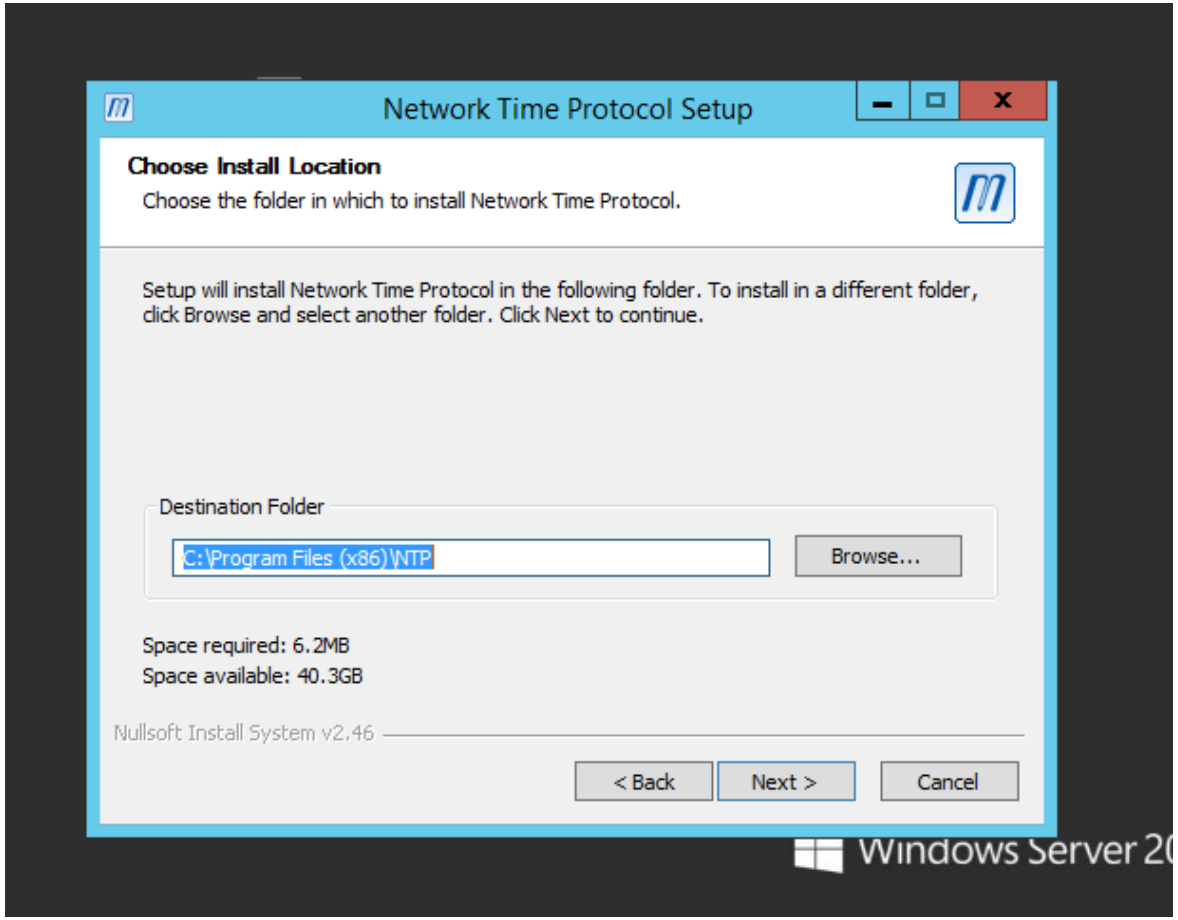

C:\Users\WK01>ping 192.168.89.1
Pinging 192.168.89.1 with 32 bytes of data:
Reply from 192.168.89.1: bytes=32 time<1ms TTL=128
Reply from 192.168.89.1: bytes=32 time<1ms TTL=128
Reply from 192.168.89.1: bytes=32 time<1ms TTL=128
Reply from 192.168.89.1: bytes=32 time<1ms TTL=128
Ping statistics for 192.168.89.1:
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>

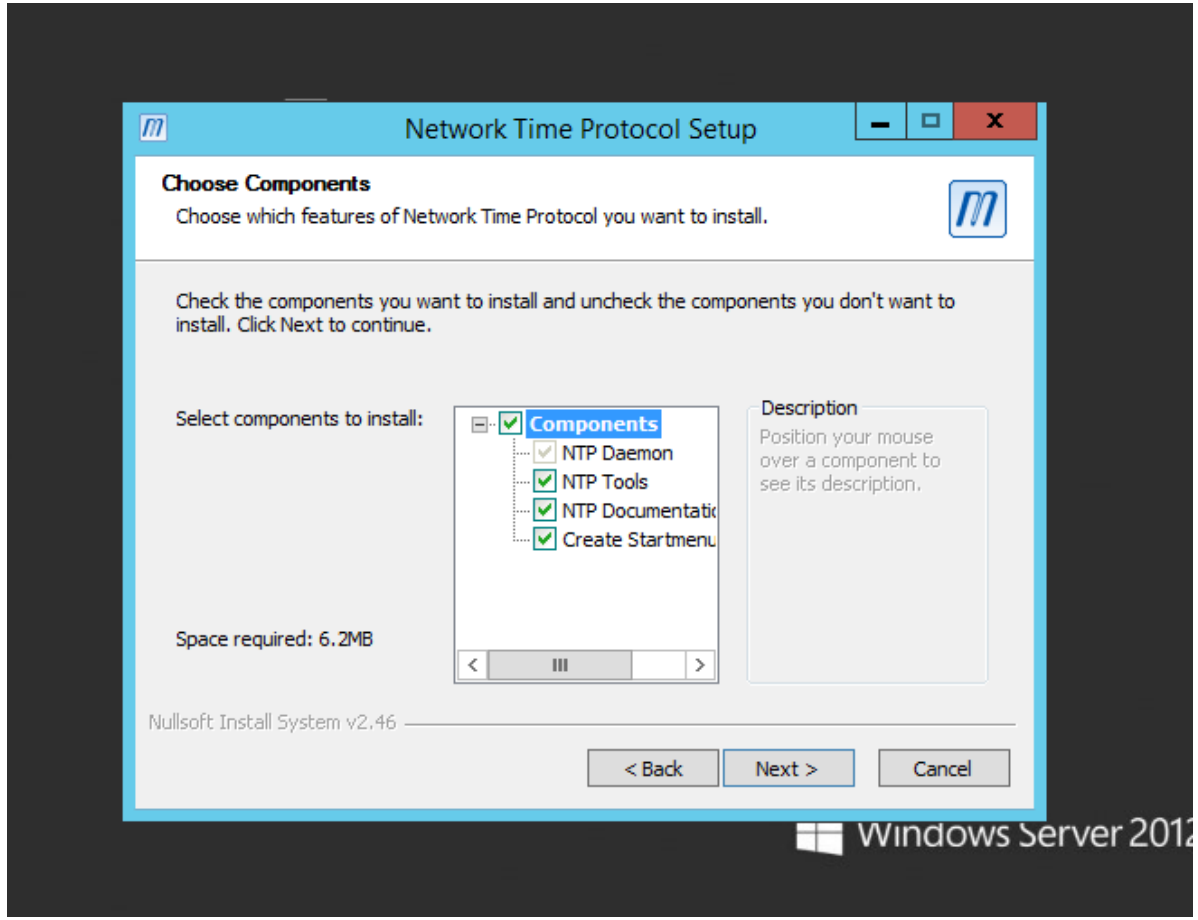

Administrator: Command Prompt
C:\Users\Administrator>ipconfig
Windows IP Configuration
Ethernet adapter Ethernet 2:
Connection-specific DNS Suffix . :
IPv4 Address. . . . . : 192.168.89.1
Subnet Mask . . . . . : 255.255.255.0
Default Gateway . . . . . :
Ethernet adapter Ethernet:
Connection-specific DNS Suffix . : Home
Link-local IPv6 Address . . . . . : fe80::a4bd:e9f4:4e1e:57c5%12
IPv4 Address. . . . . : 10.0.3.15
Subnet Mask . . . . . : 255.255.255.0
Default Gateway . . . . . : 10.0.3.2
Tunnel adapter isatap.Home:
Media State . . . . . : Media disconnected
Connection-specific DNS Suffix . : Home

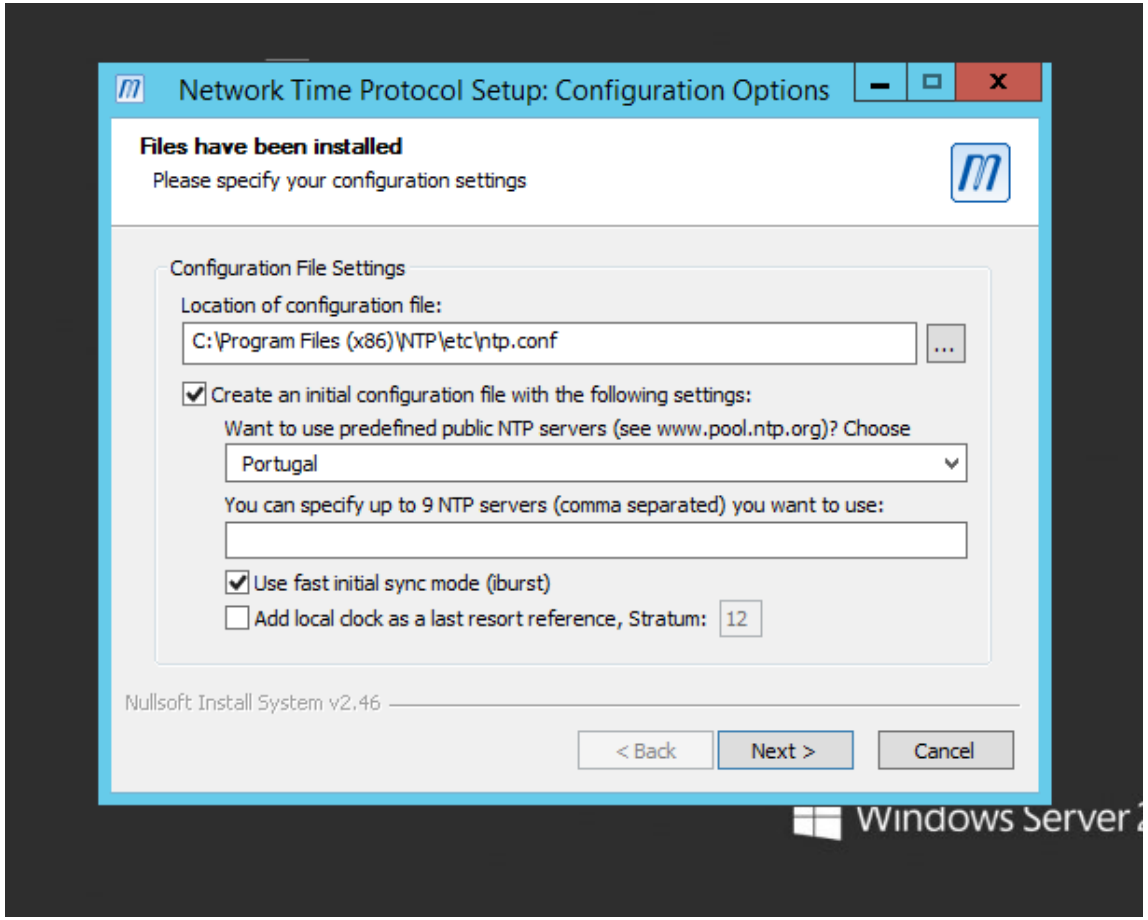

C:\Users\Administrator>
C:\Users\Administrator>
C:\Users\Administrator>
C:\Users\Administrator>
C:\Users\Administrator>
C:\Users\Administrator>ping 192.168.89.2
Pinging 192.168.89.2 with 32 bytes of data:
Reply from 192.168.89.2: bytes=32 time<1ms TTL=128
Reply from 192.168.89.2: bytes=32 time<1ms TTL=128
Reply from 192.168.89.2: bytes=32 time<1ms TTL=128
Reply from 192.168.89.2: bytes=32 time<1ms TTL=128
Ping statistics for 192.168.89.2:
Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),
Approximate round trip times in milli-seconds:
Minimum = 0ms, Maximum = 0ms, Average = 0ms
C:\Users\Administrator>

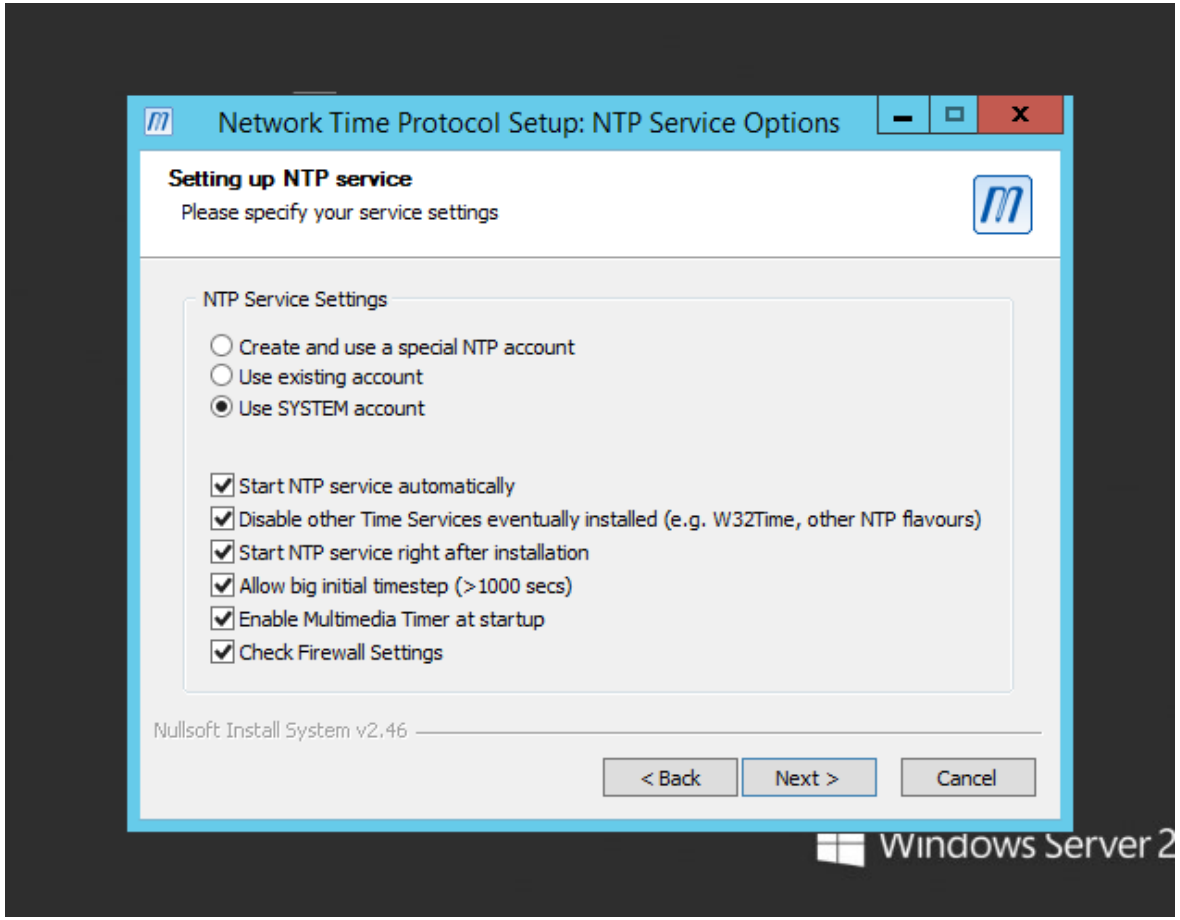
PERGUNTA 4

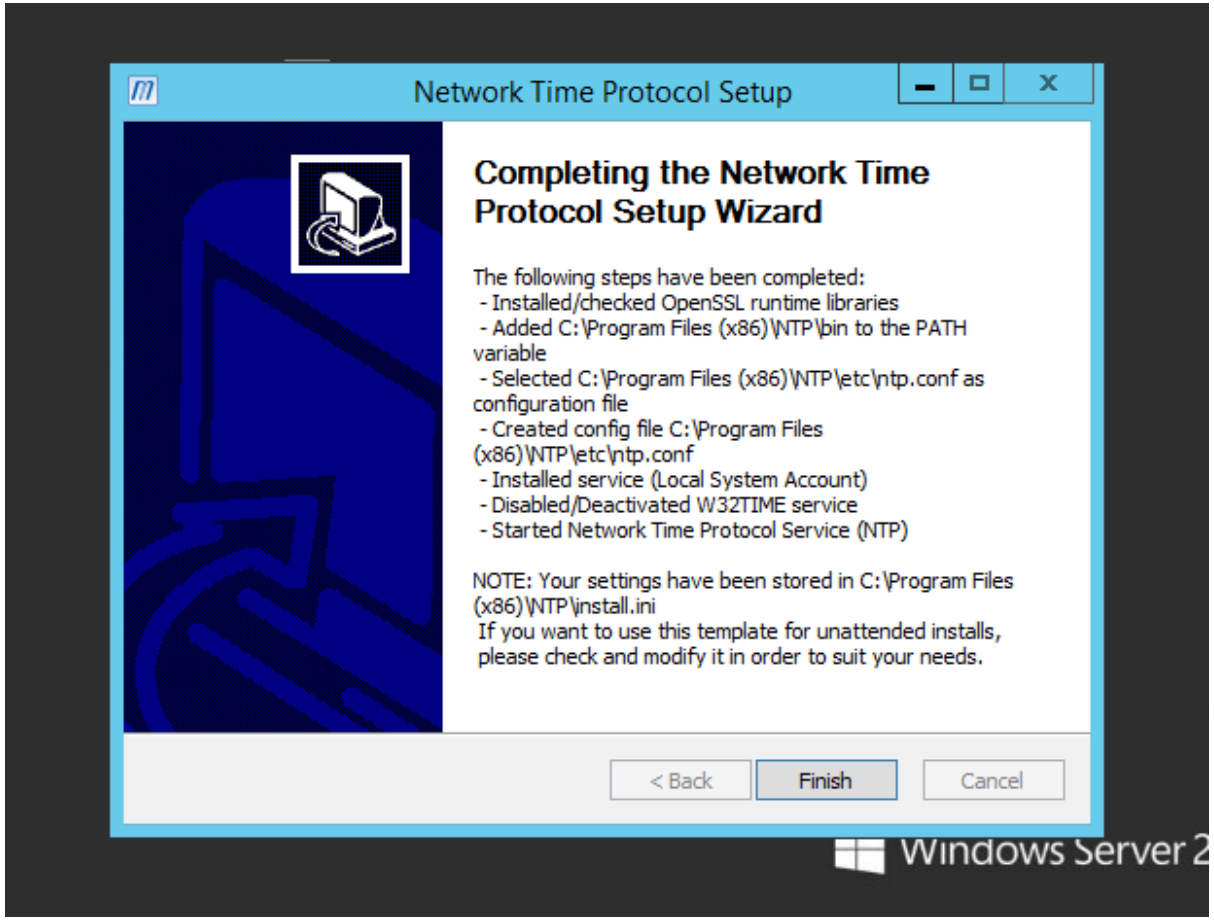

Network Time Protocol Setup
License Agreement
Please review the license terms before installing Network Time Protocol.
Network Time Protocol (Version 4.2.8p15-v2) [WVCode:6.3]
This Binary Installation Package includes software provided by
the NTP project (www.ntp.org), the OpenSSL project (www.openssl.org),
Nullsoft (www.nsis.org) and Meinberg Radio Clocks (www.meinberg.de).
Please read this text carefully and completely (scroll down to read all terms).
You need to agree to the following terms in order to proceed with the installation:
a) NTP, the Network Time Protocol Reference Implementation
Copyright (c) David L. Mills 1992-2005
If you accept the terms of the agreement, click I Agree to continue. You must accept the agreement to install Network Time Protocol.
Nullsoft Install System v2.46
< Back
I Agree
Cancel
Windows Serve

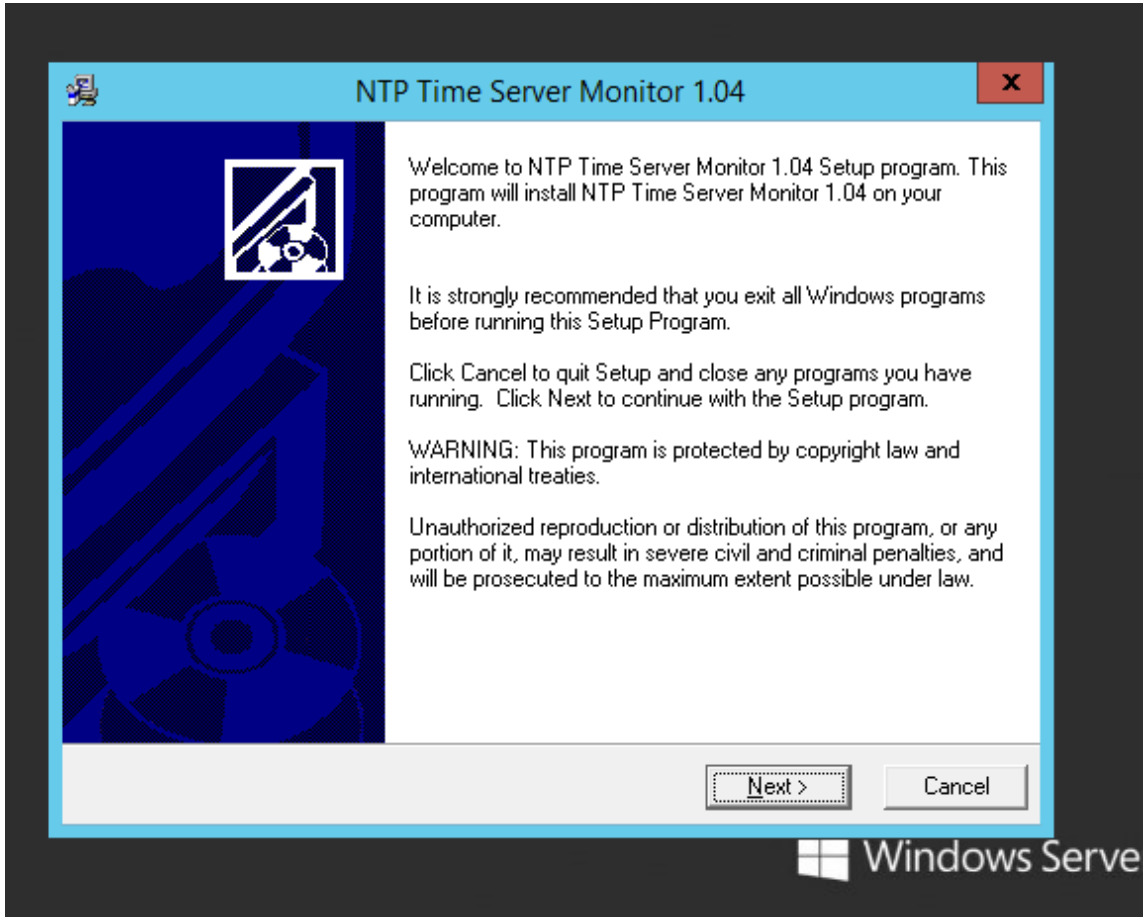

Network Time Protocol Setup
Choose Install Location
Choose the folder in which to install Network Time Protocol.
Setup will install Network Time Protocol in the following folder. To install in a different folder, click Browse and select another folder. Click Next to continue.
Destination Folder
C:\Program Files (x86)\NTP
Browse...
Space required: 6.2MB
Space available: 40.3GB
Nullsoft Install System v2.46
< Back
Next >
Cancel
Windows Server 2

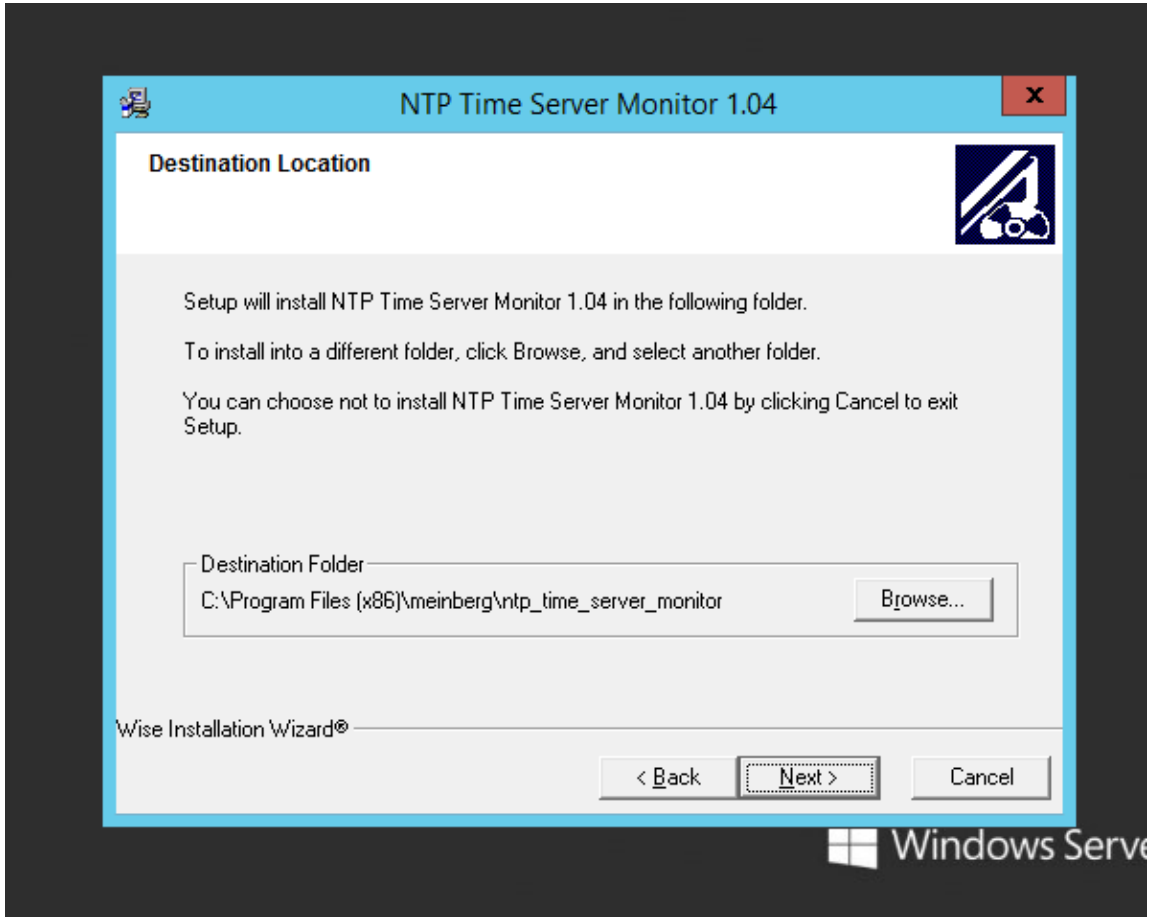

Network Time Protocol Setup
Choose Components
Choose which features of Network Time Protocol you want to install.
Check the components you want to install and uncheck the components you don't want to install. Click Next to continue.
Select components to install:
Components
NTP Daemon
NTP Tools
NTP Documentati
Create Startmenu
Description
Position your mouse over a component to see its description.
Space required: 6.2MB
Nullsoft Install System v2.46
< Back
Next >
Cancel
Windows Server 201

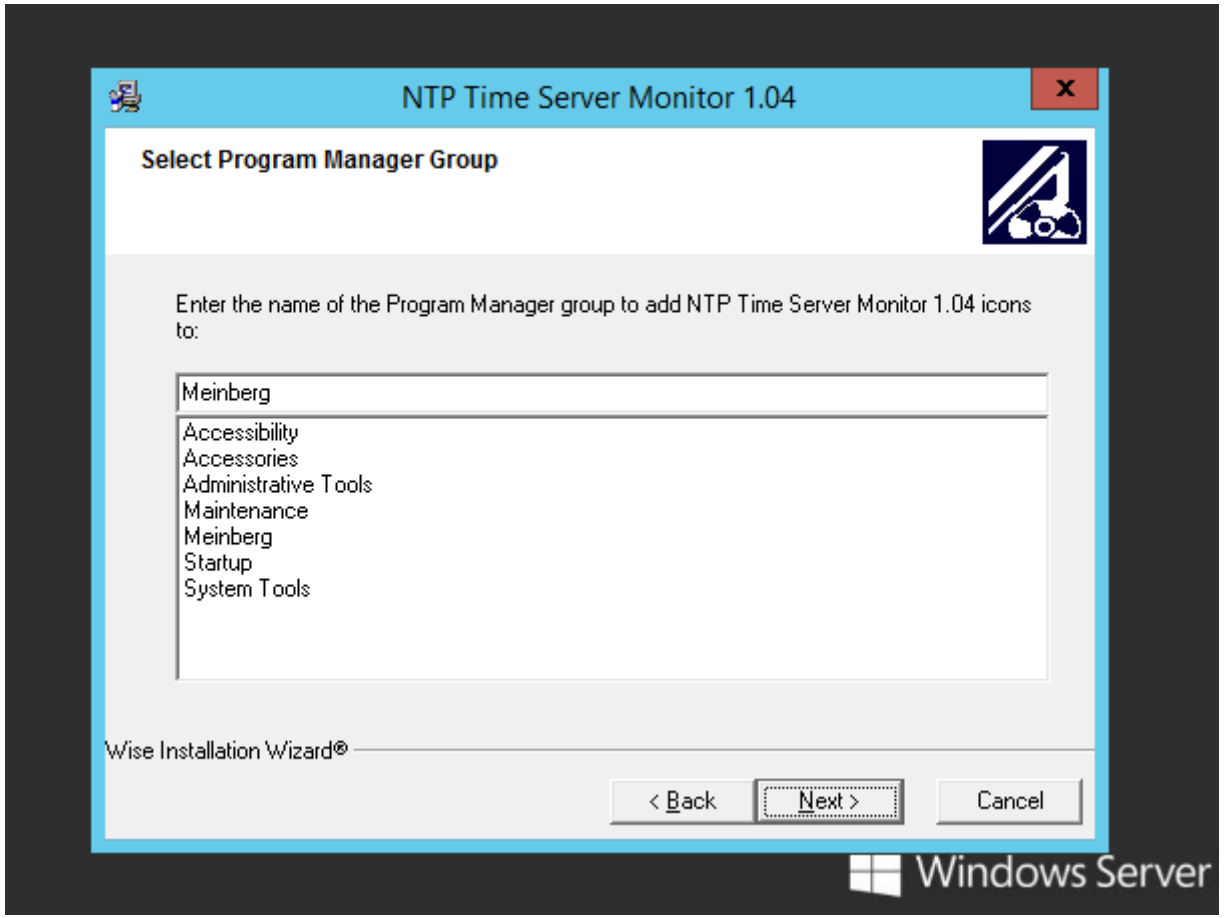

Network Time Protocol Setup: Configuration Options
Files have been installed
Please specify your configuration settings
Configuration File Settings
Location of configuration file:
C:\Program Files (x86)\NTP\etc\ntp.conf
...
Create an initial configuration file with the following settings:
Want to use predefined public NTP servers (see www.pool.ntp.org)? Choose
Portugal
You can specify up to 9 NTP servers (comma separated) you want to use:
Use fast initial sync mode (iburst)
Add local clock as a last resort reference, Stratum: 12
Nullsoft Install System v2.46
< Back
Next >
Cancel
Windows Server

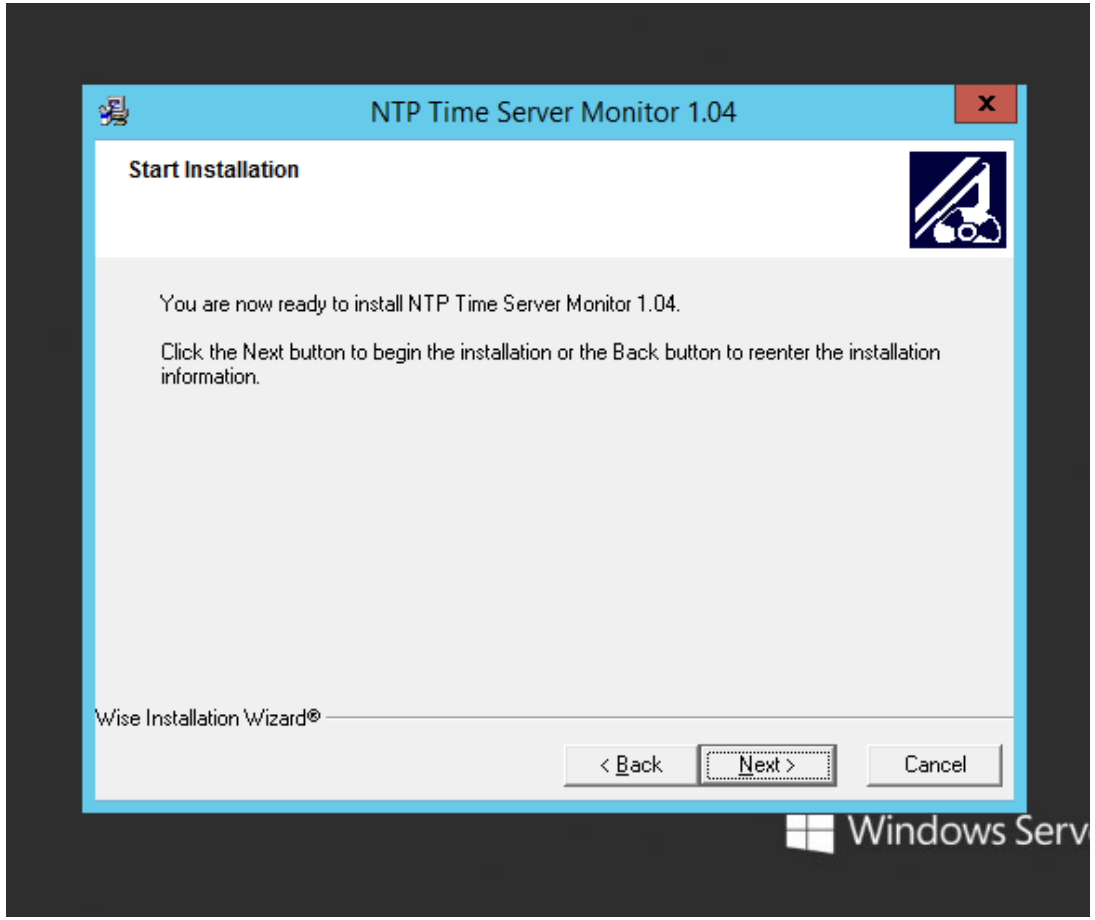

Network Time Protocol Setup: NTP Service Options
Setting up NTP service
Please specify your service settings
NTP Service Settings
Create and use a special NTP account
Use existing account
Use SYSTEM account
Start NTP service automatically
Disable other Time Services eventually installed (e.g. W32Time, other NTP flavours)
Start NTP service right after installation
Allow big initial timestep (>1000 secs)
Enable Multimedia Timer at startup
Check Firewall Settings
Nullsoft Install System v2.46
< Back
Next >
Cancel
Windows Server 2

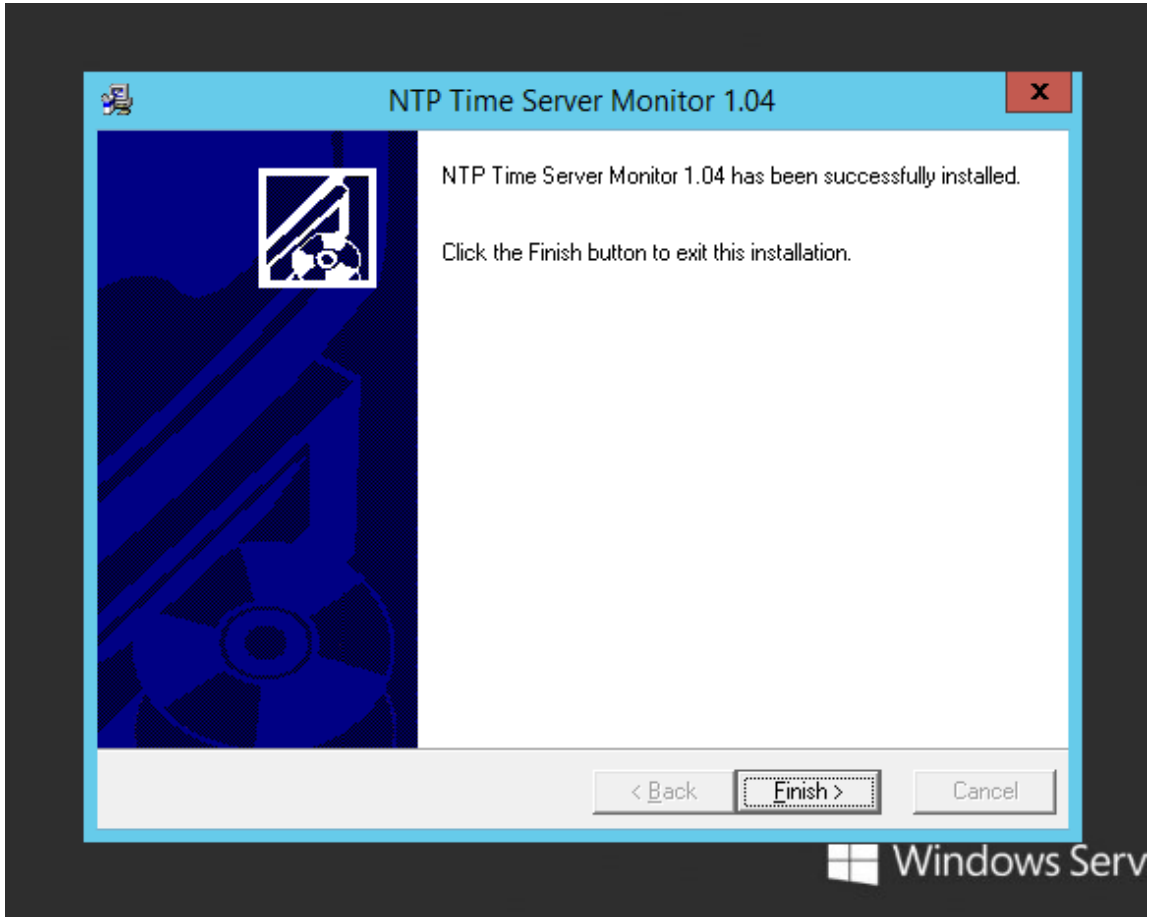

Network Time Protocol Setup
Completing the Network Time Protocol Setup Wizard
The following steps have been completed:
- Installed/checked OpenSSL runtime libraries
- Added C:\Program Files (x86)\NTP\bin to the PATH variable
- Selected C:\Program Files (x86)\NTP\etc\ntp.conf as configuration file
- Created config file C:\Program Files (x86)\NTP\etc\ntp.conf
- Installed service (Local System Account)
- Disabled/Deactivated W32TIME service
- Started Network Time Protocol Service (NTP)
NOTE: Your settings have been stored in C:\Program Files (x86)\NTP\install.ini
If you want to use this template for unattended installs, please check and modify it in order to suit your needs.
< Back
Finish
Cancel
Windows Server 2

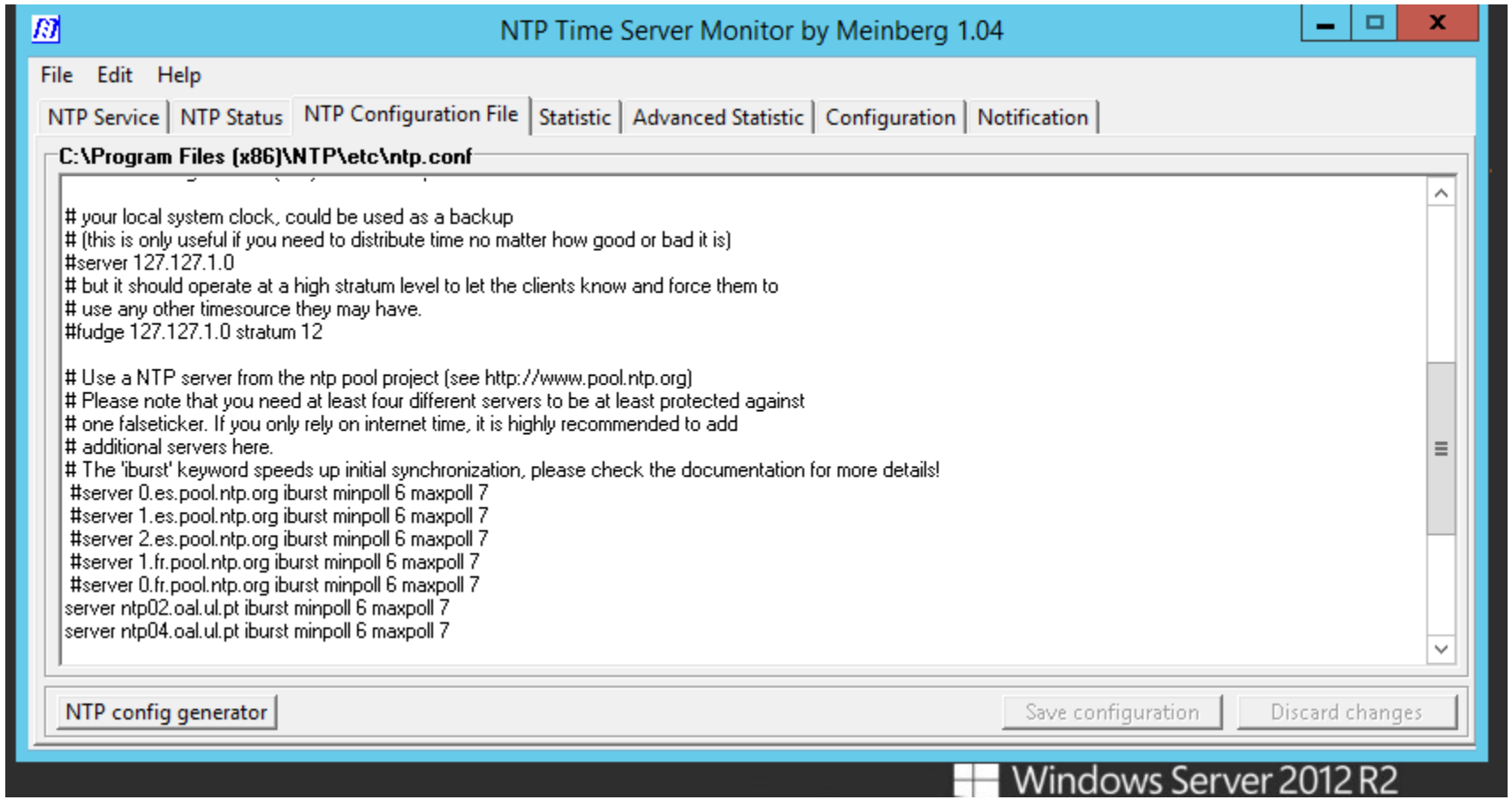

NTP Time Server Monitor 1.04
Welcome to NTP Time Server Monitor 1.04 Setup program. This program will install NTP Time Server Monitor 1.04 on your computer.
It is strongly recommended that you exit all Windows programs before running this Setup Program.
Click Cancel to quit Setup and close any programs you have running. Click Next to continue with the Setup program.
WARNING: This program is protected by copyright law and international treaties.
Unauthorized reproduction or distribution of this program, or any portion of it, may result in severe civil and criminal penalties, and will be prosecuted to the maximum extent possible under law.
Next >
Cancel
Windows Serve

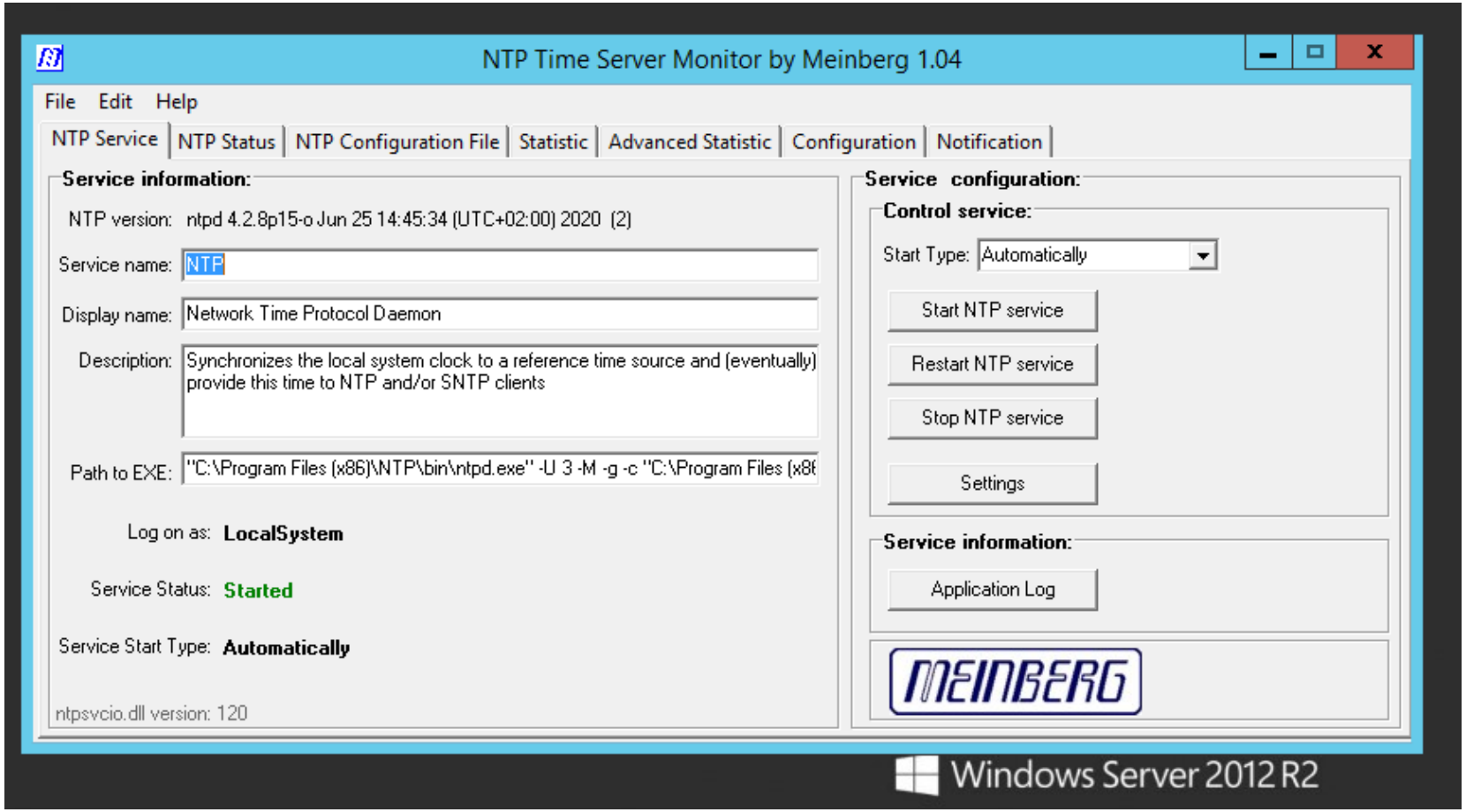

NTP Time Server Monitor 1.04
Destination Location
Setup will install NTP Time Server Monitor 1.04 in the following folder.
To install into a different folder, click Browse, and select another folder.
You can choose not to install NTP Time Server Monitor 1.04 by clicking Cancel to exit Setup.
Destination Folder
C:\Program Files (x86)\meinberg\ntp_time_server_monitor
Browse...
Wise Installation Wizard®
< Back
Next >
Cancel
Windows Serve

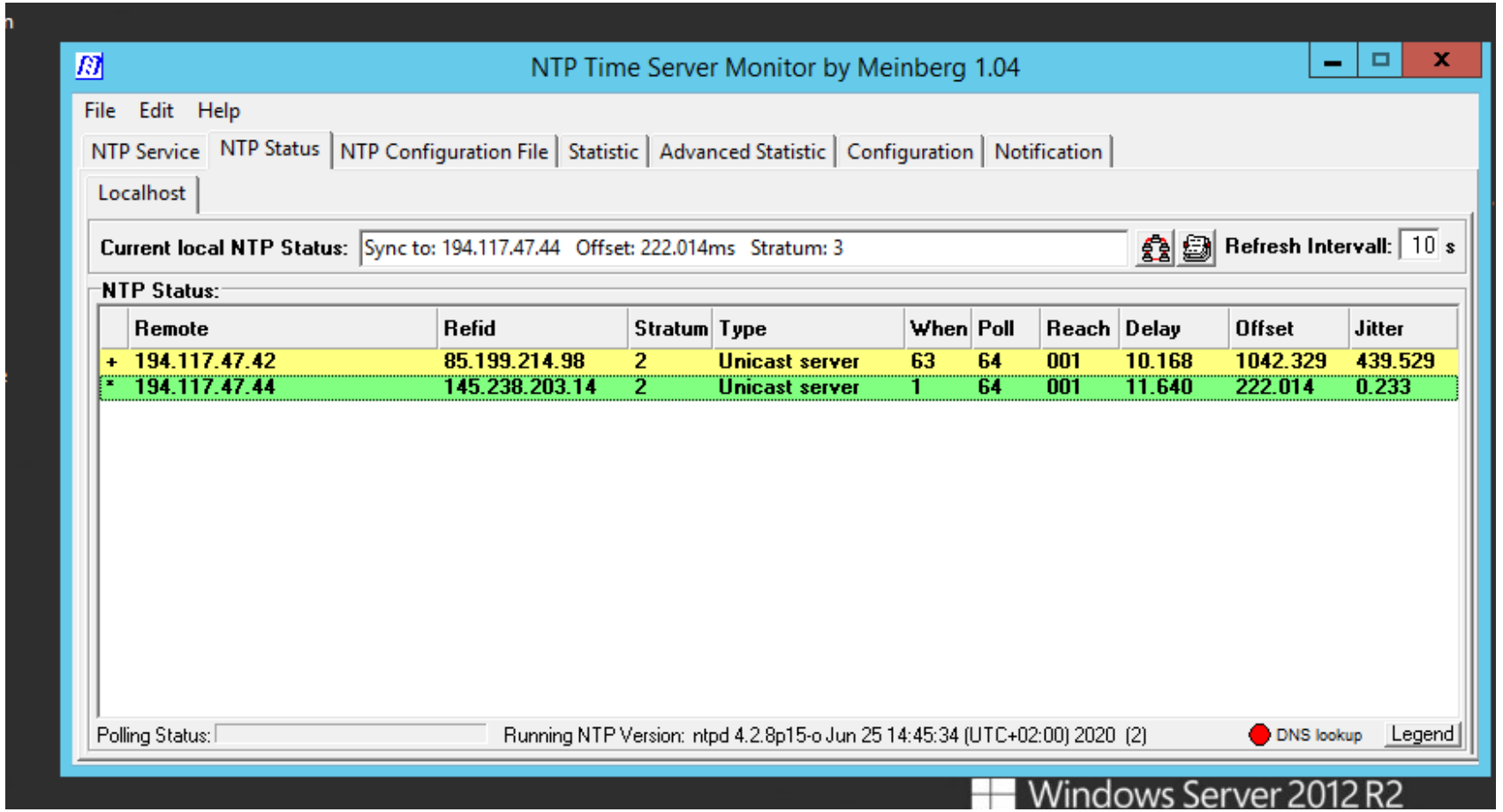

NTP Time Server Monitor 1.04
Select Program Manager Group
Enter the name of the Program Manager group to add NTP Time Server Monitor 1.04 icons to:
Meinberg
Accessibility
Accessories
Administrative Tools
Maintenance
Meinberg
Startup
System Tools
Wise Installation Wizard®
< Back
Next >
Cancel
Windows Server

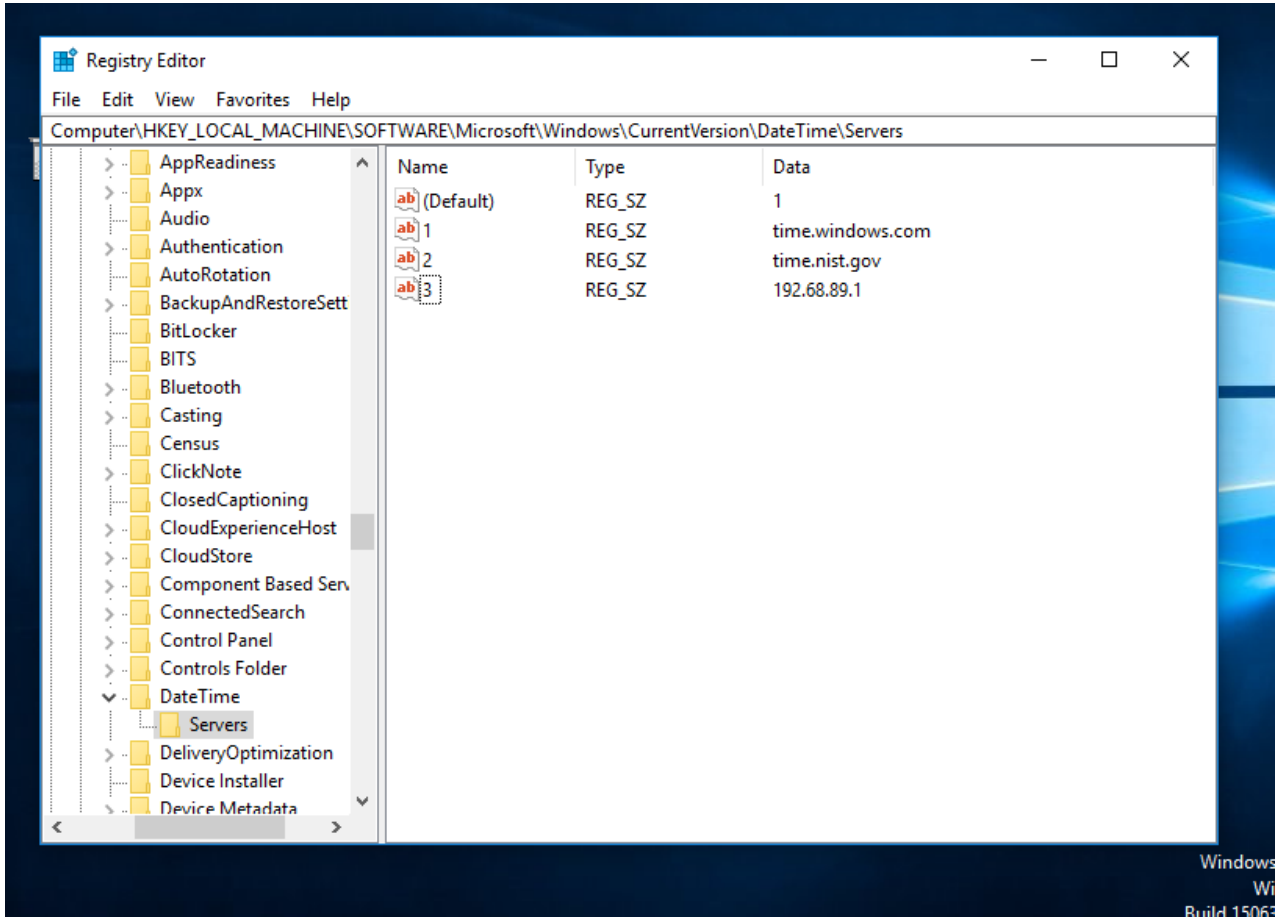

NTP Time Server Monitor 1.04
Start Installation
You are now ready to install NTP Time Server Monitor 1.04.
Click the Next button to begin the installation or the Back button to reenter the installation information.
Wise Installation Wizard®
< Back
Next >
Cancel
Windows Serv

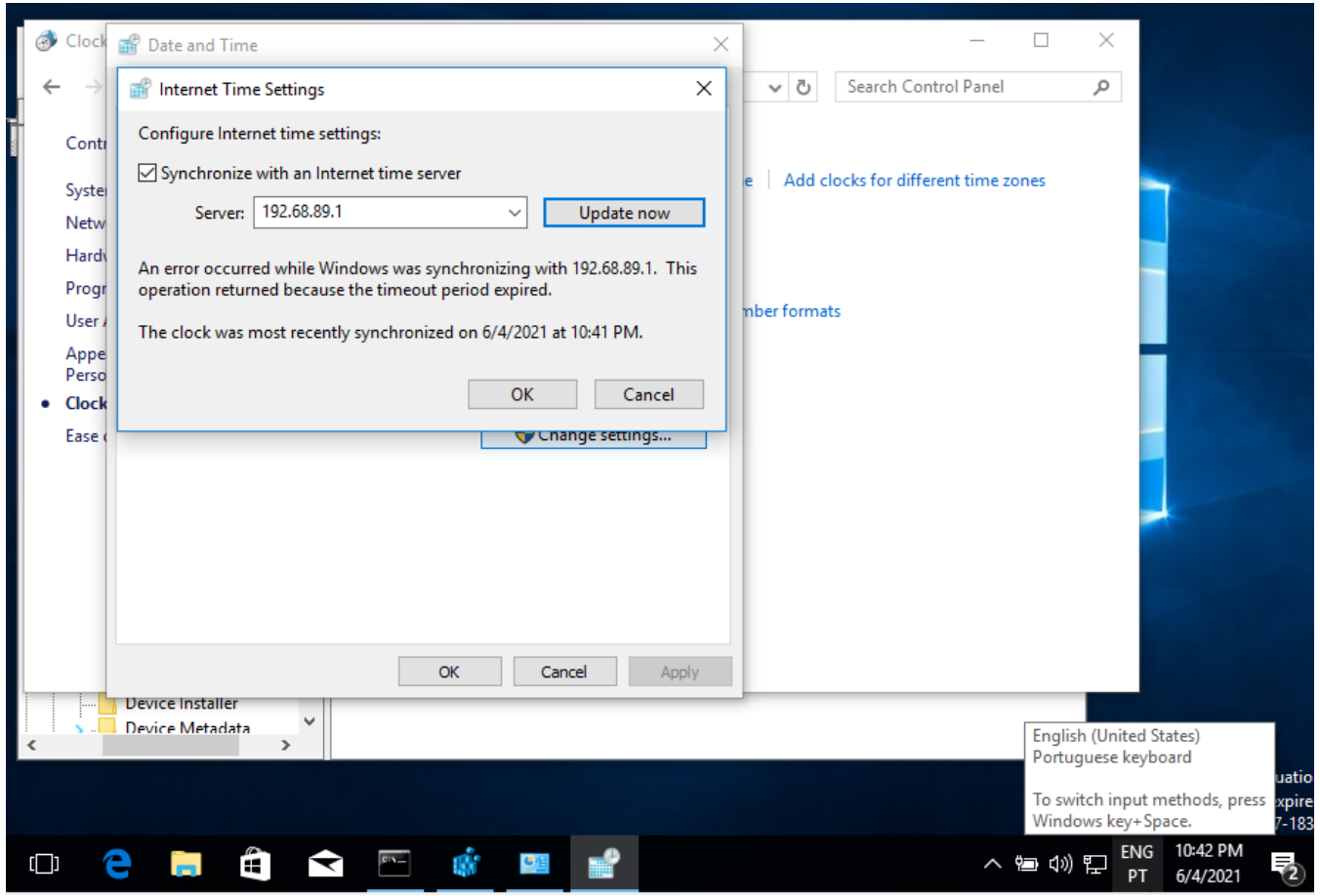

NTP Time Server Monitor 1.04
NTP Time Server Monitor 1.04 has been successfully installed.
Click the Finish button to exit this installation.
< Back
Finish >
Cancel
Windows Serv


NTP Time Server Monitor by Meinberg 1.04
File
Edit
Help
NTP Service
NTP Status
NTP Configuration File
Statistic
Advanced Statistic
Configuration
Notification
C:\Program Files (x86)\NTP\etc\ntp.conf
your local system clock, could be used as a backup
(this is only useful if you need to distribute time no matter how good or bad it is)
#server 127.127.1.0
but it should operate at a high stratum level to let the clients know and force them to
use any other timesource they may have.
#fudge 127.127.1.0 stratum 12
Use a NTP server from the ntp pool project (see http://www.pool.ntp.org)
Please note that you need at least four different servers to be at least protected against
one falseticker. If you only rely on internet time, it is highly recommended to add
additional servers here.
The 'iburst' keyword speeds up initial synchronization, please check the documentation for more details!
#server 0.es.pool.ntp.org iburst minpoll 6 maxpoll 7
#server 1.es.pool.ntp.org iburst minpoll 6 maxpoll 7
#server 2.es.pool.ntp.org iburst minpoll 6 maxpoll 7
#server 1.fr.pool.ntp.org iburst minpoll 6 maxpoll 7
#server 0.fr.pool.ntp.org iburst minpoll 6 maxpoll 7
server ntp02.oal.ul.pt iburst minpoll 6 maxpoll 7
server ntp04.oal.ul.pt iburst minpoll 6 maxpoll 7
NTP config generator
Save configuration
Discard changes
Windows Server 2012 R2


NTP Time Server Monitor by Meinberg 1.04
File
Edit
Help
NTP Service
NTP Status
NTP Configuration File
Statistic
Advanced Statistic
Configuration
Notification
Service information:
NTP version: ntpd 4.2.8p15-o Jun 25 14:45:34 (UTC+02:00) 2020 (2)
Service name: NTP
Display name: Network Time Protocol Daemon
Description: Synchronizes the local system clock to a reference time source and (eventually) provide this time to NTP and/or SNTP clients
Path to EXE: "C:\Program Files (x86)\NTP\bin\ntpd.exe" -U 3 -M -g -c "C:\Program Files (x8
Log on as: LocalSystem
Service Status: Started
Service Start Type: Automatically
ntpsvcio.dll version: 120
Service configuration:
Control service:
Start Type: Automatically
Start NTP service
Restart NTP service
Stop NTP service
Settings
Service information:
Application Log
MEINBERG
Windows Server 2012 R2

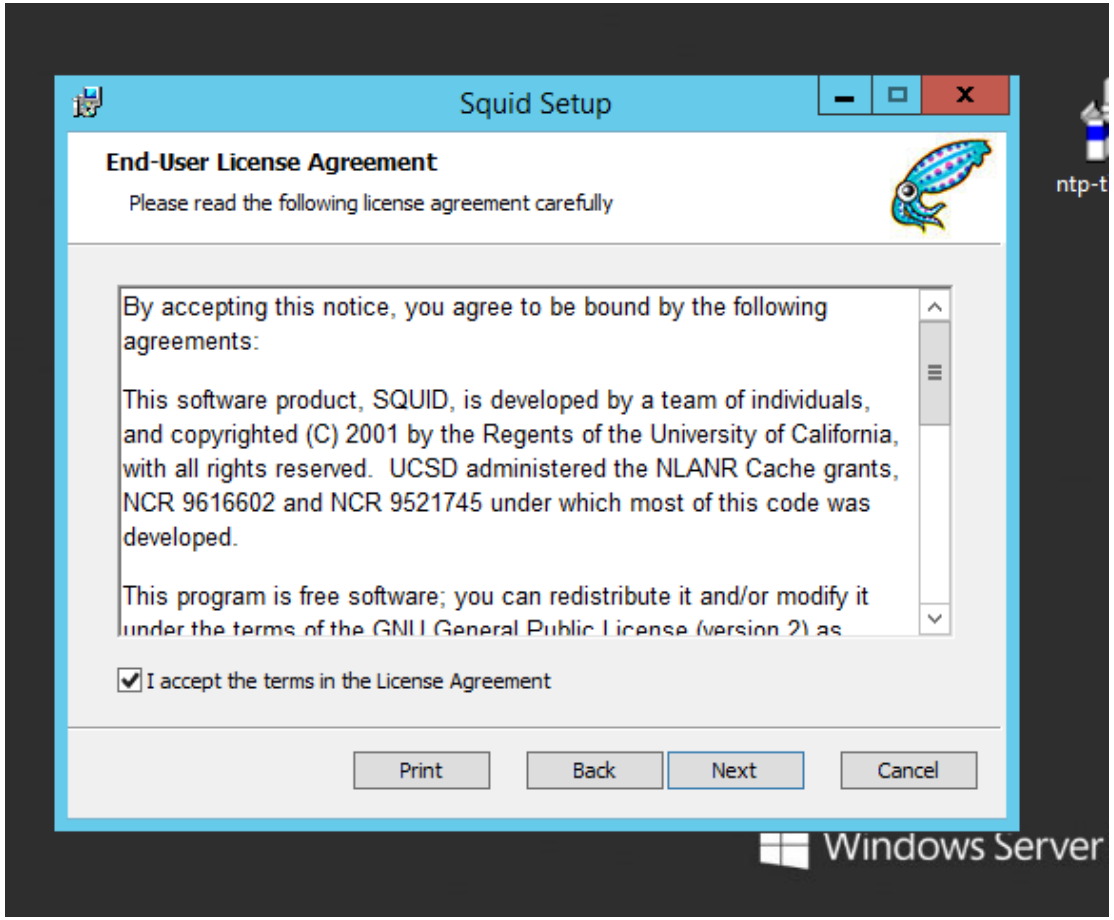

NTP Time Server Monitor by Meinberg 1.04
File Edit Help
NTP Service NTP Status NTP Configuration File Statistic Advanced Statistic Configuration Notification
Localhost
Current local NTP Status: Sync to: 194.117.47.44 Offset: 222.014ms Stratum: 3
Refresh Intervall: 10 s
NTP Status:
Remote Refid Stratum Type When Poll Reach Delay Offset Jitter
+ 194.117.47.42 85.199.214.98 2 Unicast server 63 64 001 10.168 1042.329 439.529
* 194.117.47.44 145.238.203.14 2 Unicast server 1 64 001 11.640 222.014 0.233
Polling Status:
Running NTP Version: ntpd 4.2.8p15-o Jun 25 14:45:34 (UTC+02:00) 2020 (2)
DNS lookup
Legend
Windows Server 2012 R2

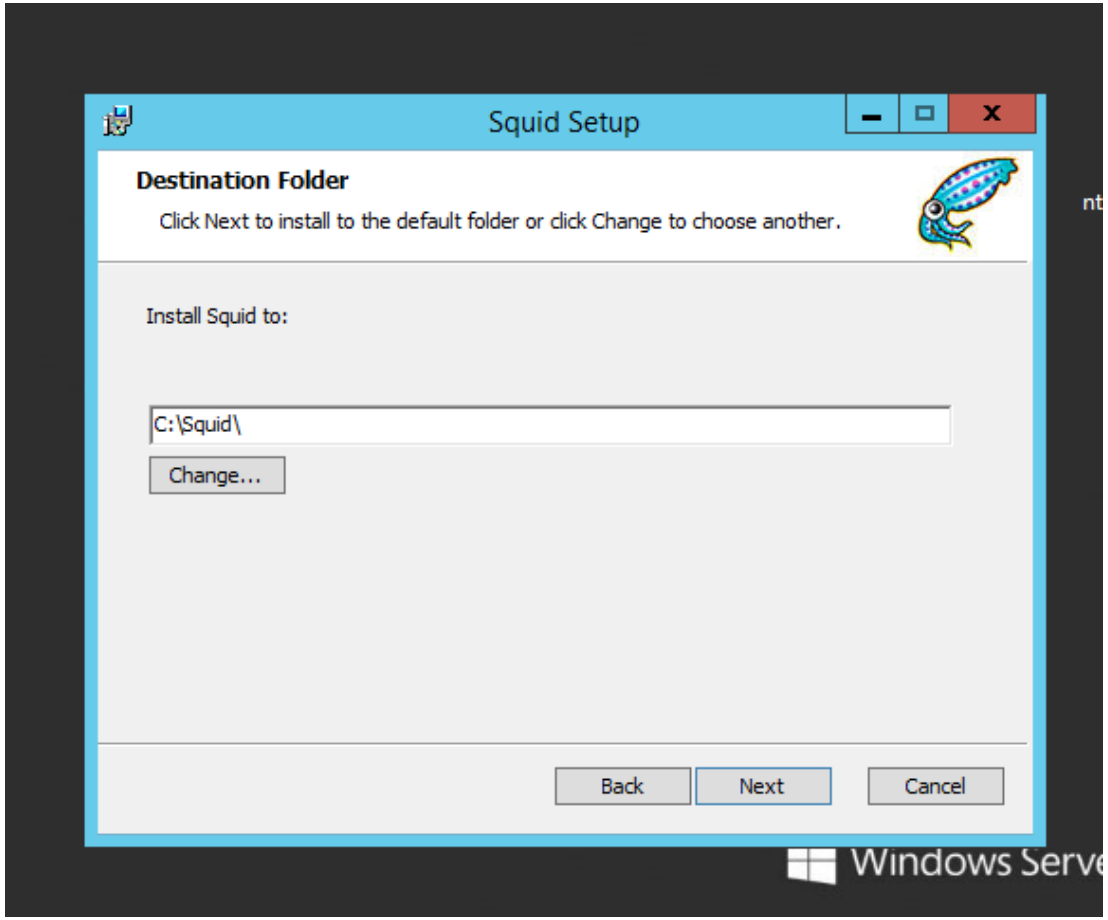

Registry Editor
File Edit View Favorites Help
Computer\HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\Windows\CurrentVersion\DateTime\Servers
AppReadiness
Appx
Audio
Authentication
AutoRotation
BackupAndRestoreSett
BitLocker
BITS
Bluetooth
Casting
Census
ClickNote
ClosedCaptioning
CloudExperienceHost
CloudStore
Component Based Serv
ConnectedSearch
Control Panel
Controls Folder
DateTime
Servers
DeliveryOptimization
Device Installer
Device Metadata
Name Type Data
(Default) REG_SZ 1
1 REG_SZ time.windows.com
2 REG_SZ time.nist.gov
3 REG_SZ 192.68.89.1
Windows
Wi
Build 15063

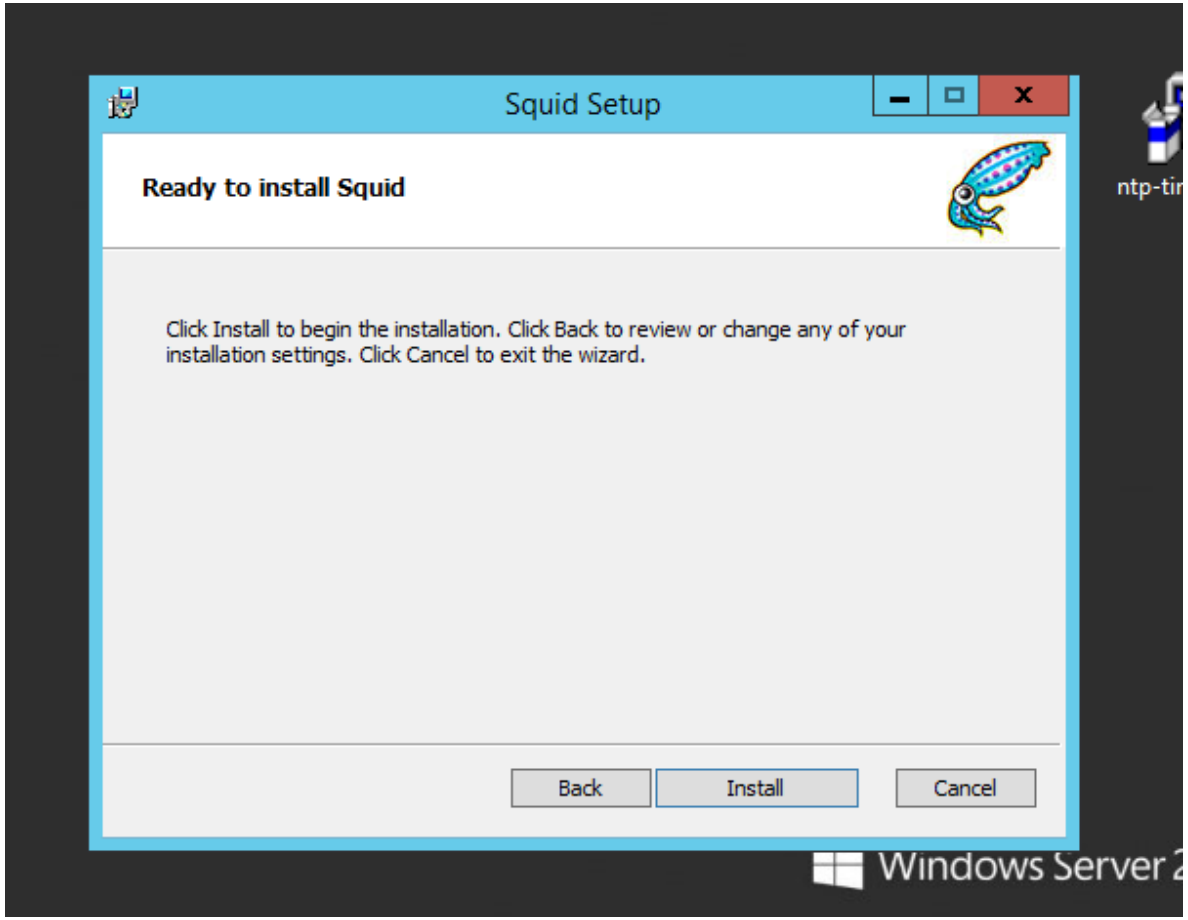

Date and Time
Internet Time Settings
Configure Internet time settings:
Synchronize with an Internet time server
Server: 192.68.89.1
Update now
An error occurred while Windows was synchronizing with 192.68.89.1. This operation returned because the timeout period expired.
The clock was most recently synchronized on 6/4/2021 at 10:41 PM.
OK
Cancel
Change settings...
OK
Cancel
Apply
Search Control Panel
Add clocks for different time zones
Device Installer
Device Metadata
English (United States)
Portuguese keyboard
To switch input methods, press Windows key+Space.
ENG
PT
10:42 PM
6/4/2021

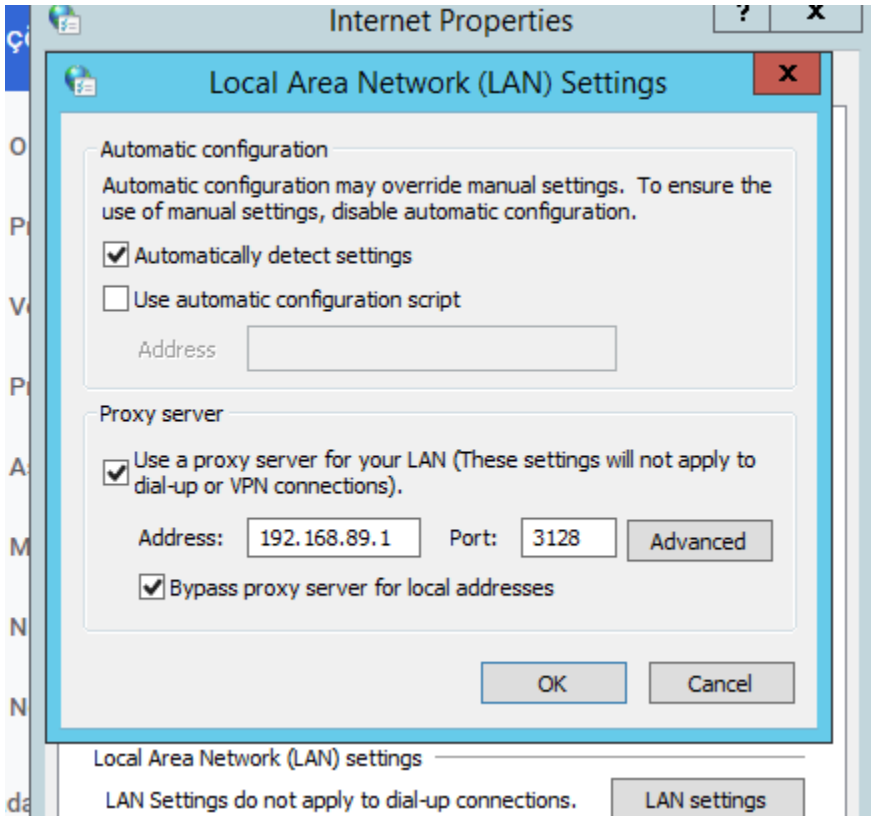
PERGUNTA 3

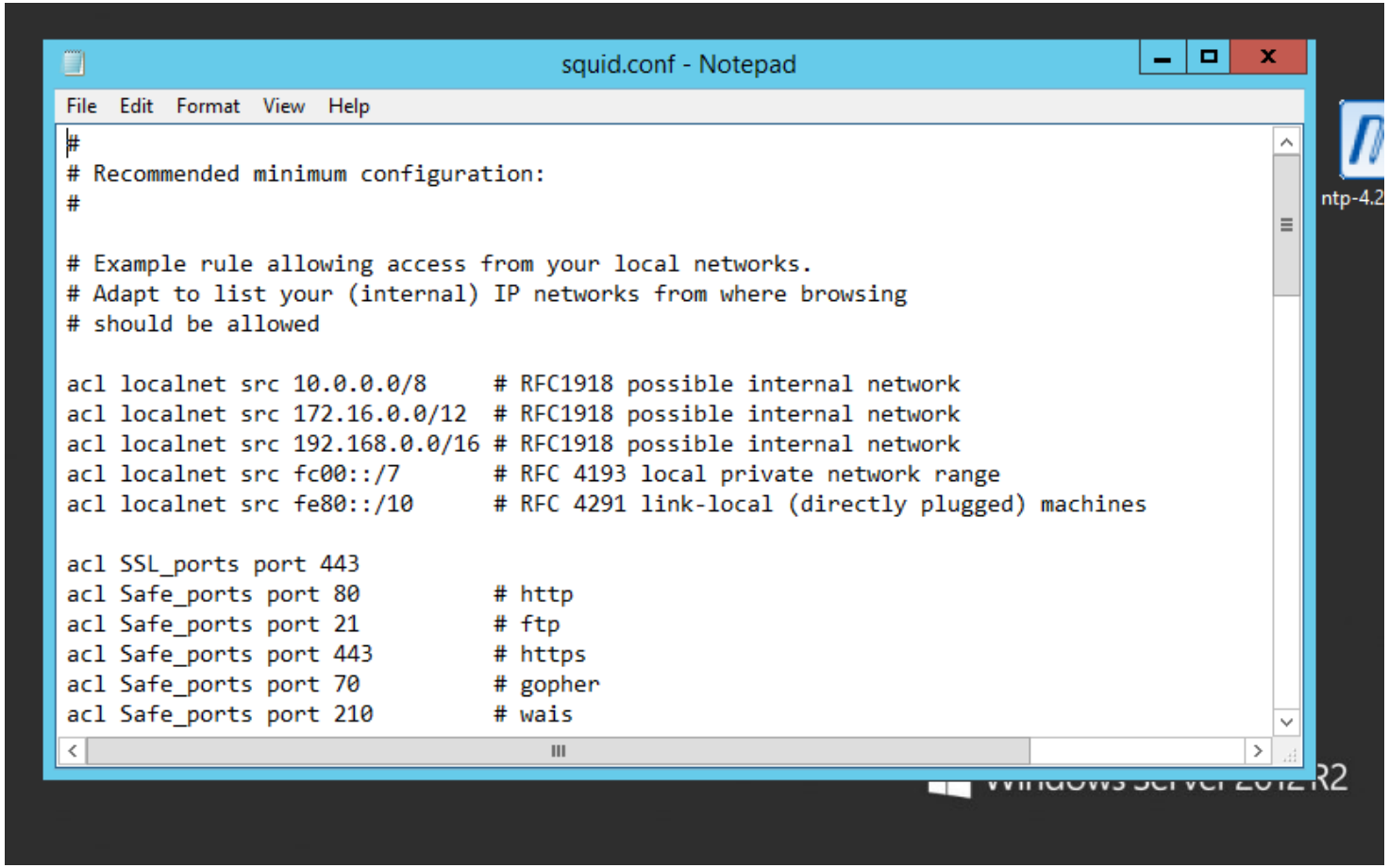

Squid Setup
Welcome to the Squid Setup Wizard
The Setup Wizard will install Squid on your computer. Click Next to continue or Cancel to exit the Setup Wizard.
Back
Next
Cancel
ntp-
Windows Server

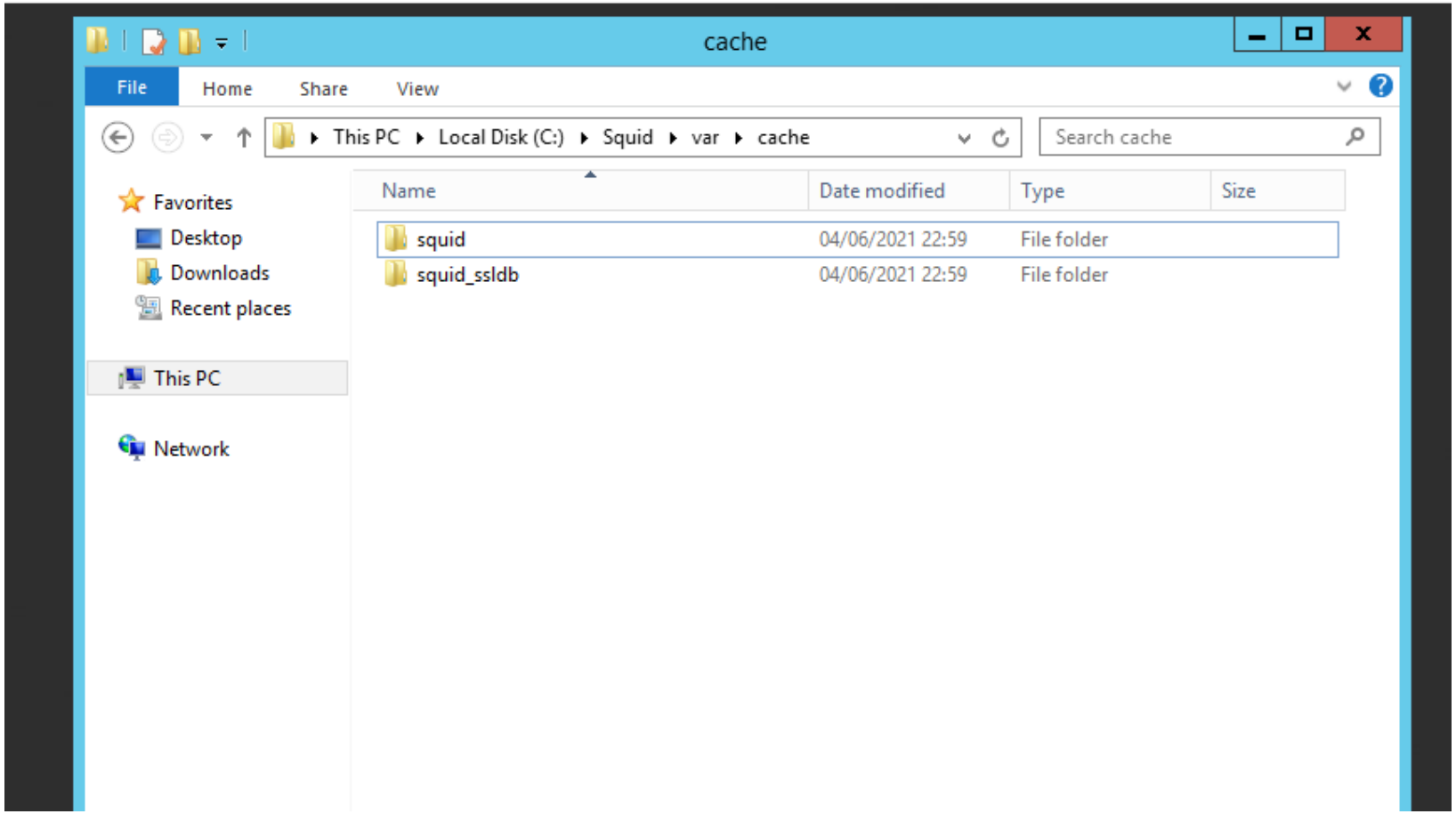

Squid Setup
End-User License Agreement
Please read the following license agreement carefully
By accepting this notice, you agree to be bound by the following agreements:
This software product, SQUID, is developed by a team of individuals, and copyrighted (C) 2001 by the Regents of the University of California, with all rights reserved. UCSD administered the NLANR Cache grants, NCR 9616602 and NCR 9521745 under which most of this code was developed.
This program is free software; you can redistribute it and/or modify it
I accept the terms in the License Agreement
Print
Back
Next
Cancel
ntp-t
Windows Server


Squid Setup
Destination Folder
Click Next to install to the default folder or click Change to choose another.
Install Squid to:
C:\Squid\
Change...
Back
Next
Cancel


Squid Setup
Ready to install Squid
Click Install to begin the installation. Click Back to review or change any of your installation settings. Click Cancel to exit the wizard.
Back
Install
Cancel
ntp-tir
Windows Server 2

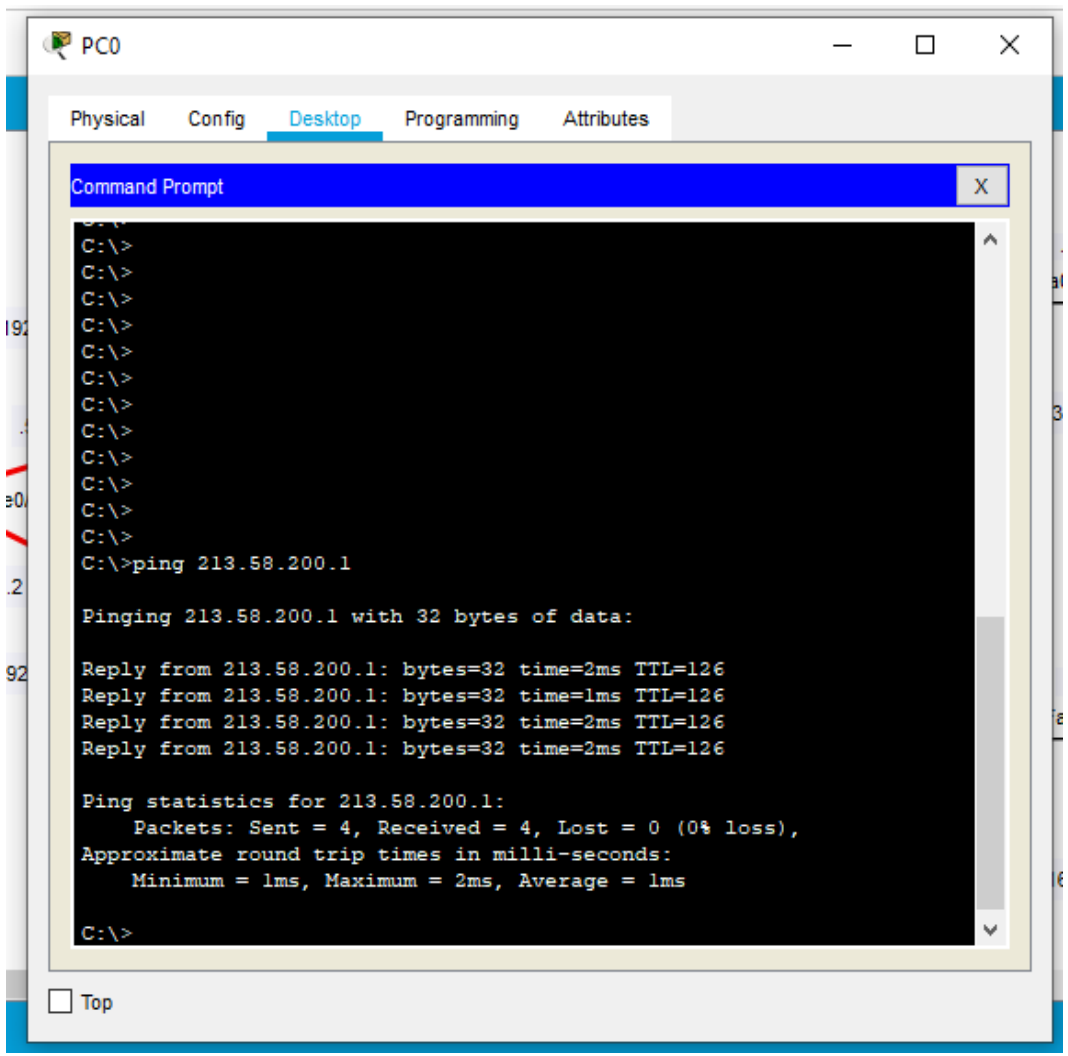

Internet Properties
Local Area Network (LAN) Settings
Automatic configuration
Automatic configuration may override manual settings. To ensure the use of manual settings, disable automatic configuration.
Automatically detect settings
Use automatic configuration script
Address
Proxy server
Use a proxy server for your LAN (These settings will not apply to dial-up or VPN connections).
Address: 192.168.89.1
Port: 3128
Advanced
Bypass proxy server for local addresses
OK
Cancel
Local Area Network (LAN) settings
LAN Settings do not apply to dial-up connections.
LAN settings

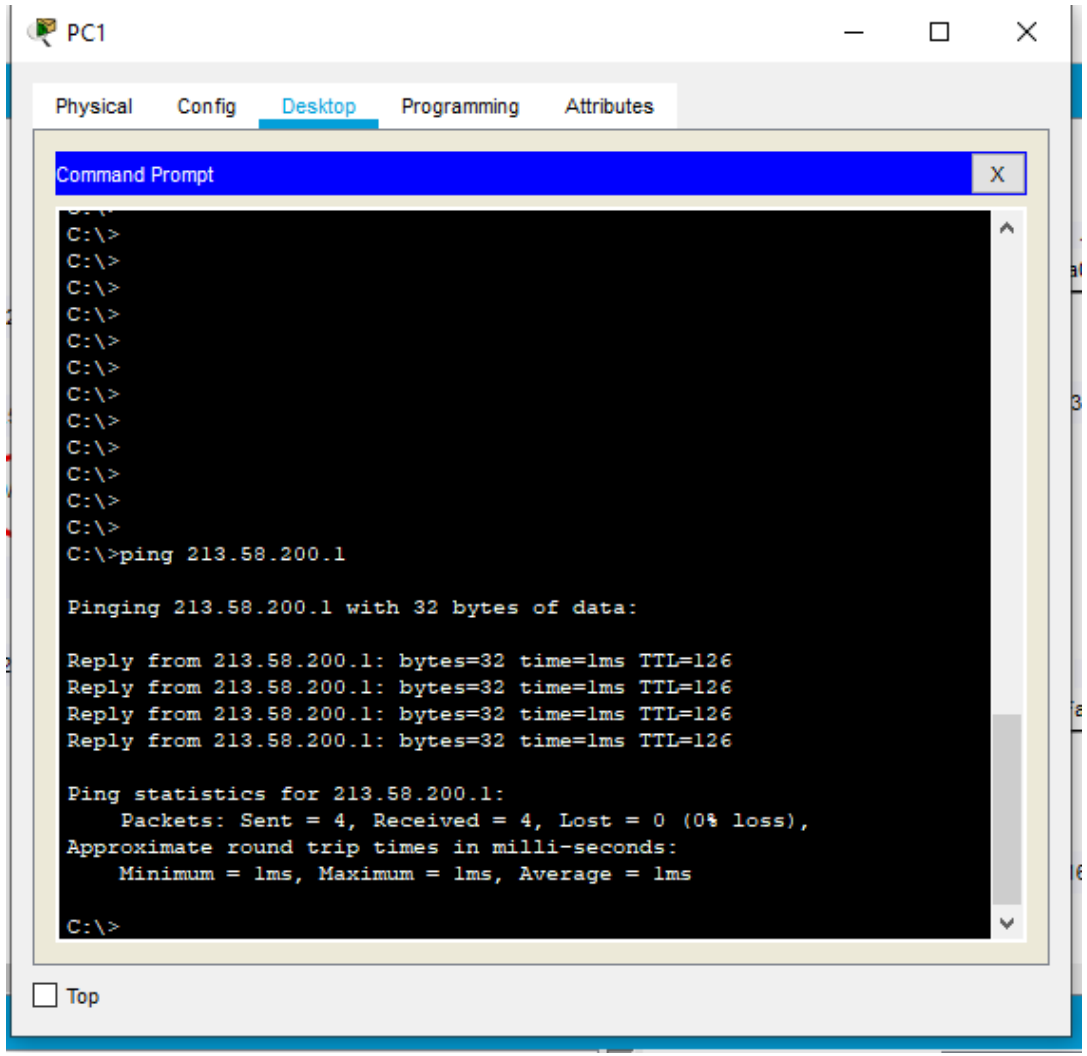

squid.conf - Notepad
File Edit Format View Help
#
Recommended minimum configuration:
#
Example rule allowing access from your local networks.
Adapt to list your (internal) IP networks from where browsing
should be allowed
acl localnet src 10.0.0.0/8 # RFC1918 possible internal network
acl localnet src 172.16.0.0/12 # RFC1918 possible internal network
acl localnet src 192.168.0.0/16 # RFC1918 possible internal network
acl localnet src fc00::/7 # RFC 4193 local private network range
acl localnet src fe80::/10 # RFC 4291 link-local (directly plugged) machines
acl SSL_ports port 443
acl Safe_ports port 80 # http
acl Safe_ports port 21 # ftp
acl Safe_ports port 443 # https
acl Safe_ports port 70 # gopher
acl Safe_ports port 210 # wais
ntp-4.2


cache
File
Home
Share
View
This PC
Local Disk (C:)
Squid
var
cache
Search cache
Favorites
Desktop
Downloads
Recent places
This PC
Network
Name
Date modified
Type
Size
squid
04/06/2021 22:59
File folder
squid_ssldb
04/06/2021 22:59
File folder

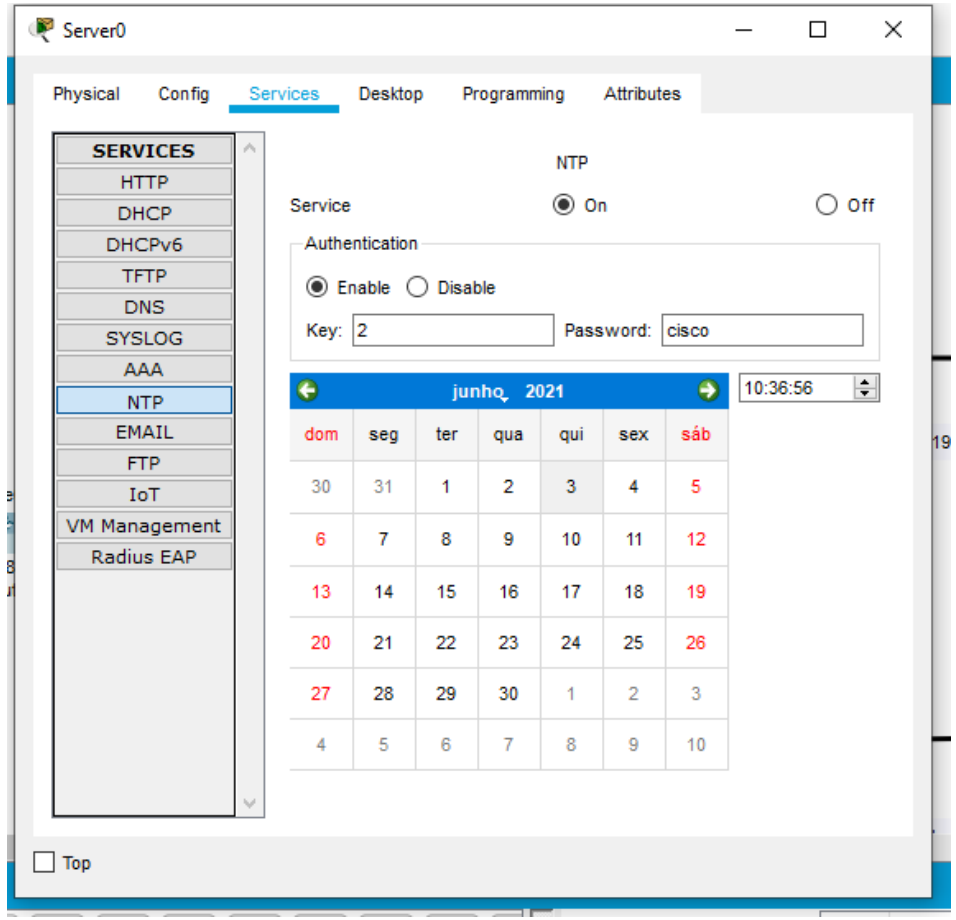
CLIENTE

PARTE A

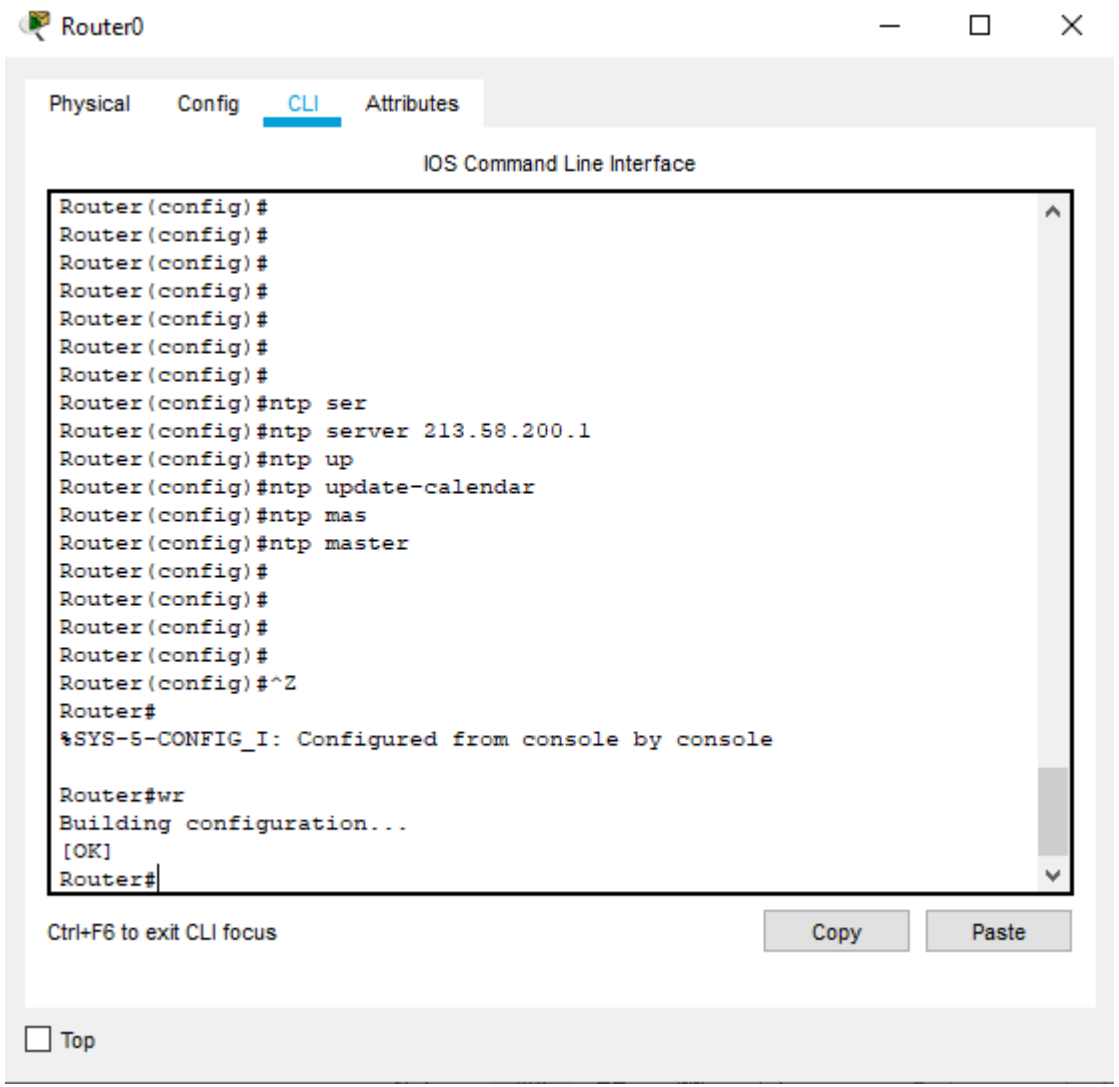

PC0
Physical
Config
Desktop
Programming
Attributes
Command Prompt
X
C:\>
C:\>
C:\>
C:\>
C:\>
C:\>
C:\>
C:\>
C:\>
C:\>
C:\>
C:\>
C:\>ping 213.58.200.1
Pinging 213.58.200.1 with 32 bytes of data:
Reply from 213.58.200.1: bytes=32 time=2ms TTL=126
Reply from 213.58.200.1: bytes=32 time=1ms TTL=126
Reply from 213.58.200.1: bytes=32 time=2ms TTL=126
Reply from 213.58.200.1: bytes=32 time=2ms 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 = 2ms, Average = 1ms
C:\>
Top

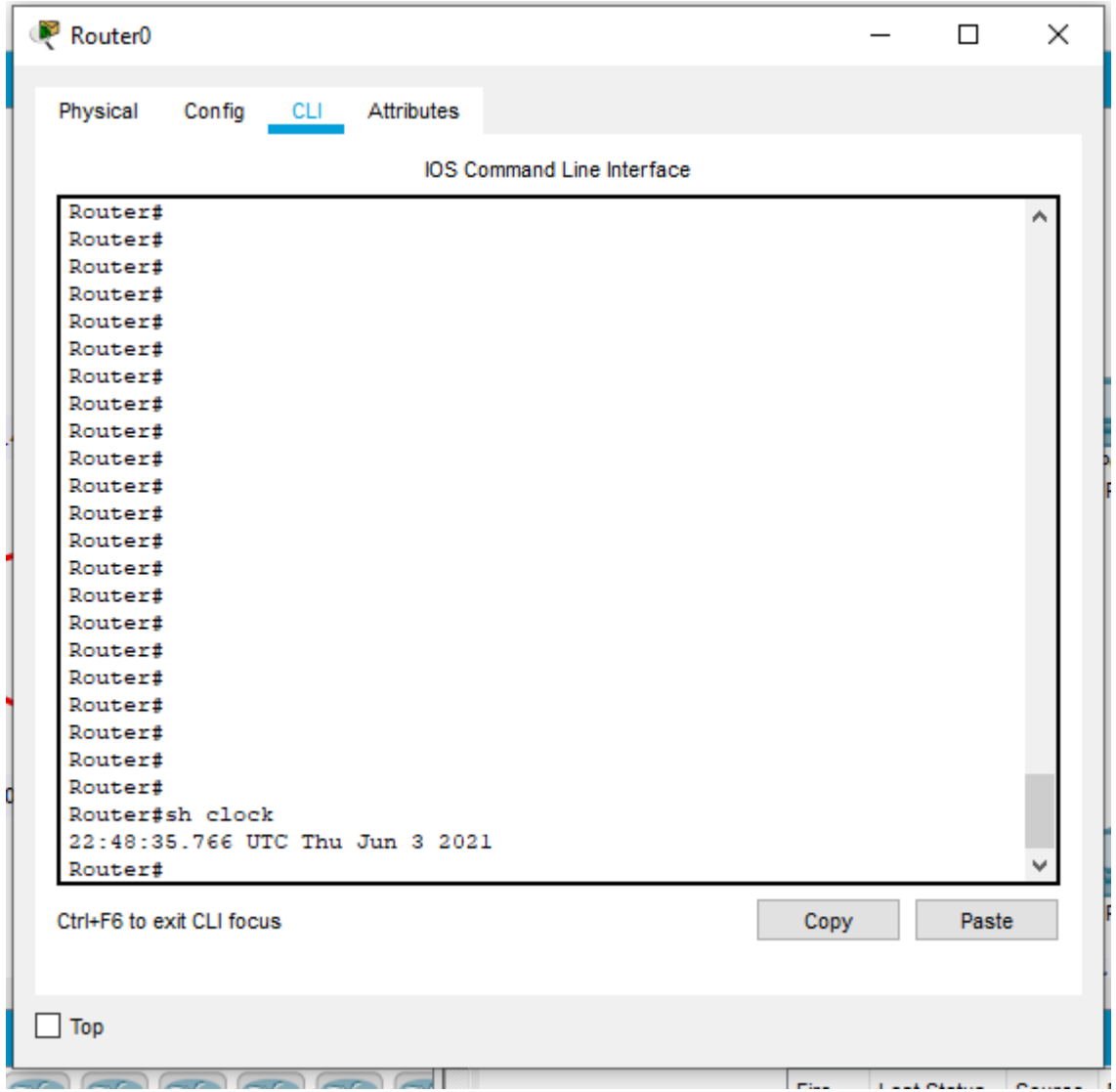

PC1
Physical
Config
Desktop
Programming
Attributes
Command Prompt
X
C:\>
C:\>
C:\>
C:\>
C:\>
C:\>
C:\>
C:\>
C:\>
C:\>
C:\>
C:\>
C:\>ping 213.58.200.1
Pinging 213.58.200.1 with 32 bytes of data:
Reply from 213.58.200.1: bytes=32 time=1ms TTL=126
Reply from 213.58.200.1: bytes=32 time=1ms TTL=126
Reply from 213.58.200.1: bytes=32 time=1ms 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 = 1ms, Average = 1ms
C:\>
Top

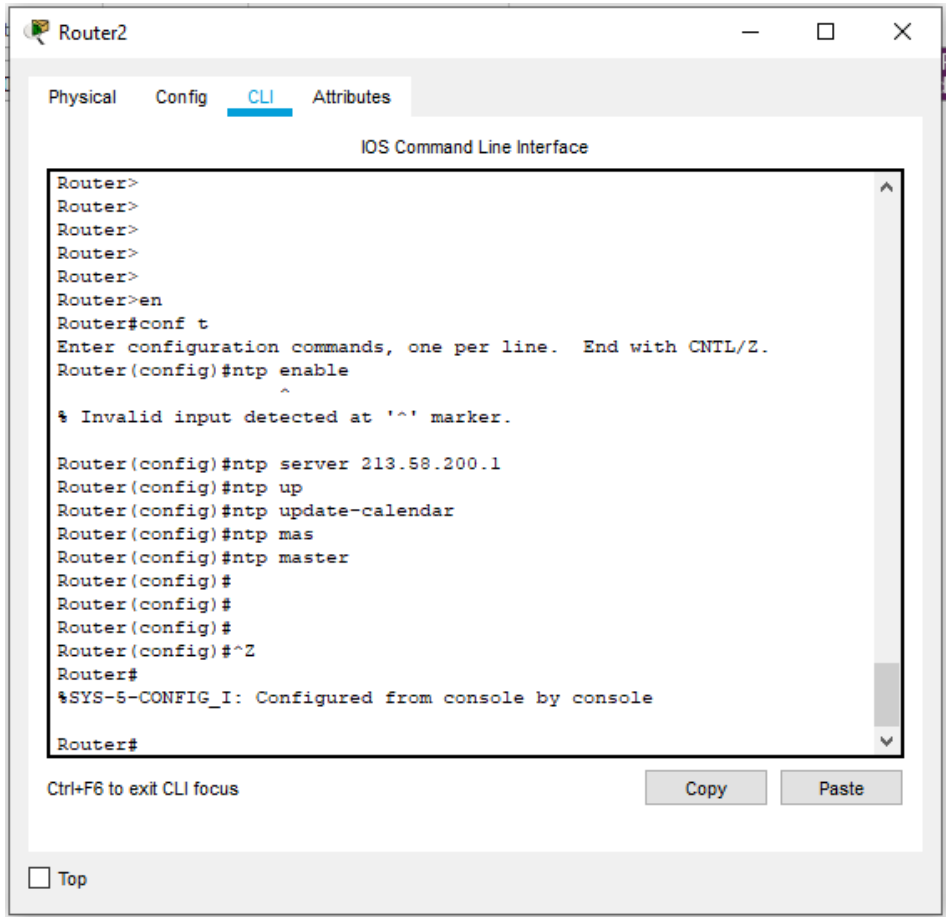
PERGUNTA 1

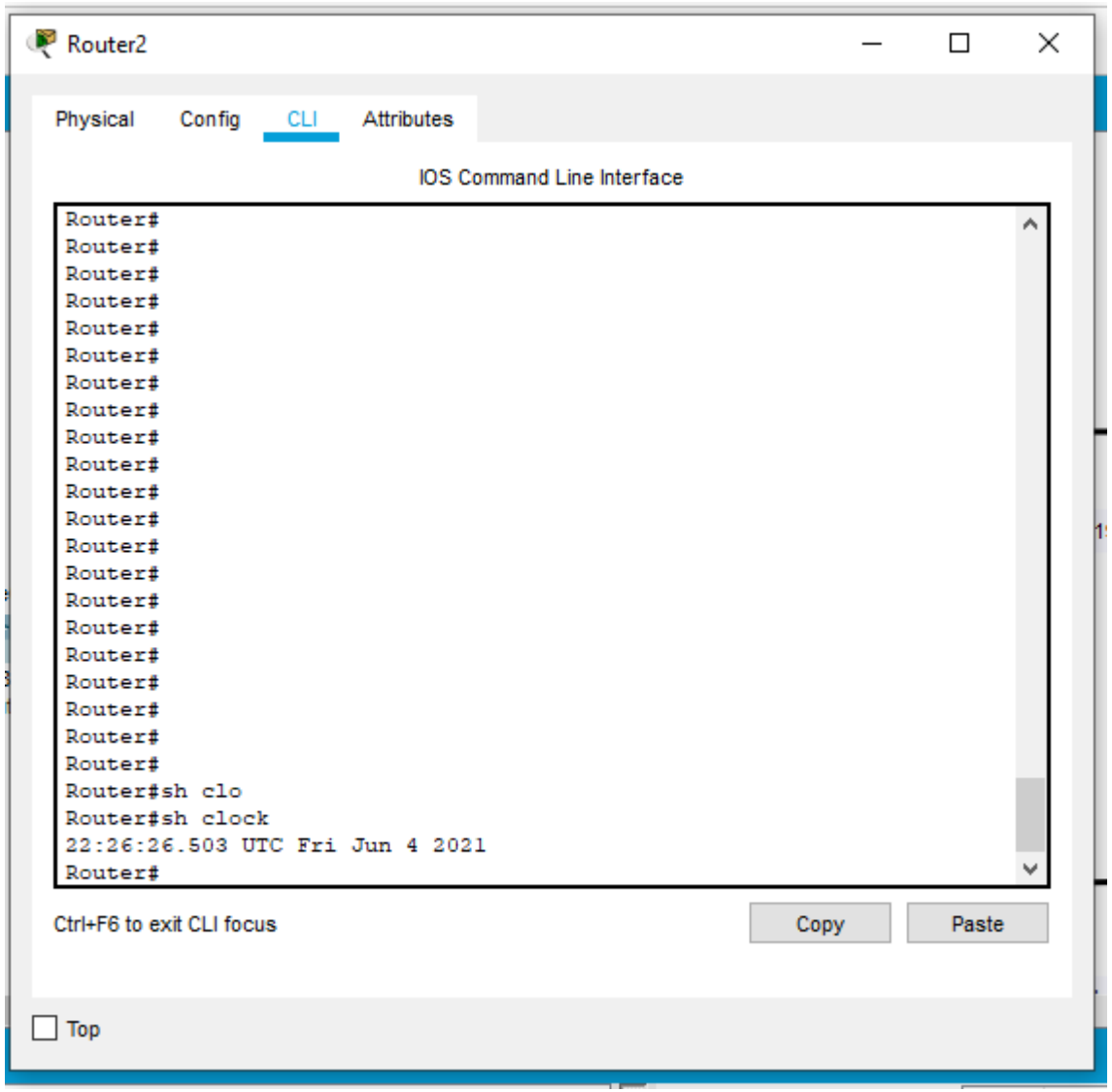

Server0
Physical
Config
Services
Desktop
Programming
Attributes
SERVICES
HTTP
DHCP
DHCPv6
TFTP
DNS
SYSLOG
AAA
NTP
EMAIL
FTP
IoT
VM Management
Radius EAP
NTP
Service
On
Off
Authentication
Enable
Disable
Key:
2
Password:
cisco
junho
2021
10:36:56
dom
seg
ter
qua
qui
sex
sáb
30 31 1 2 3 4 5
6 7 8 9 10 11 12
13 14 15 16 17 18 19
20 21 22 23 24 25 26
27 28 29 30 1 2 3
4 5 6 7 8 9 10
Top

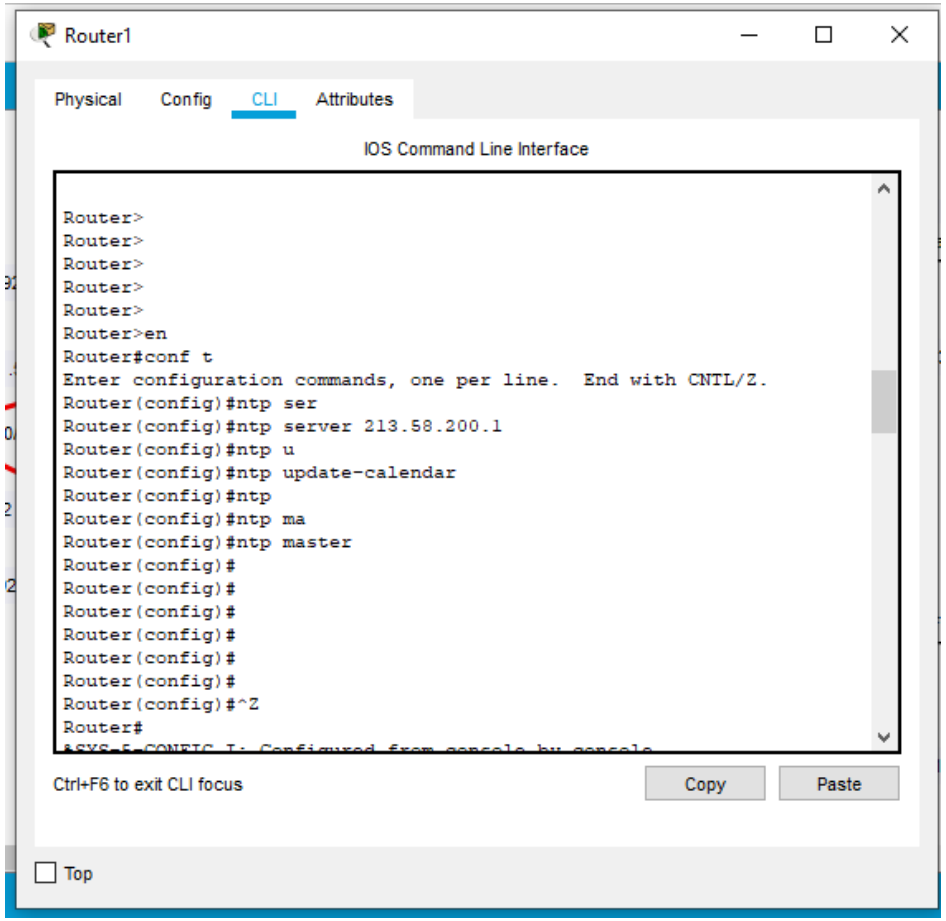
R0 não atualizou !!!

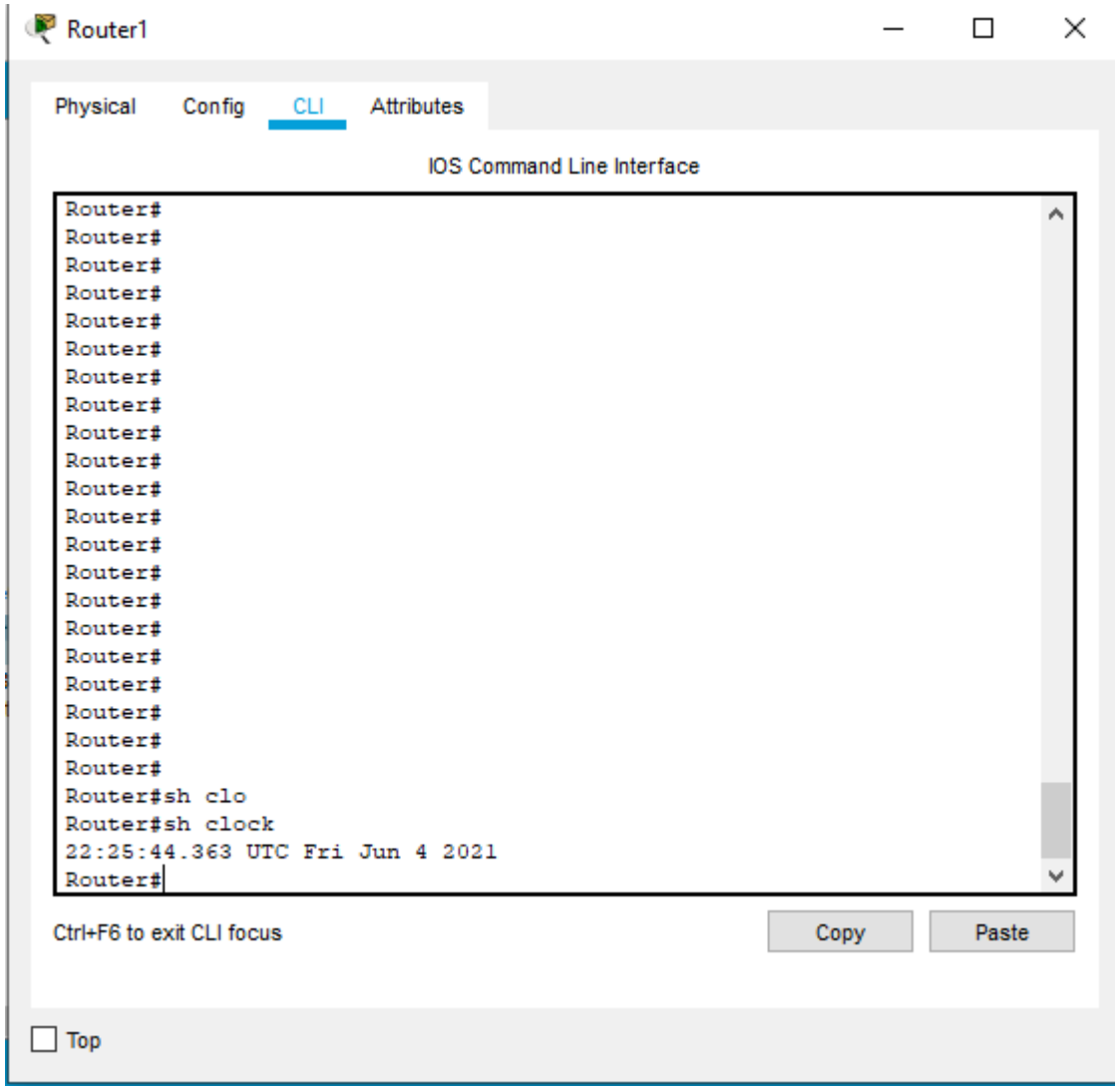


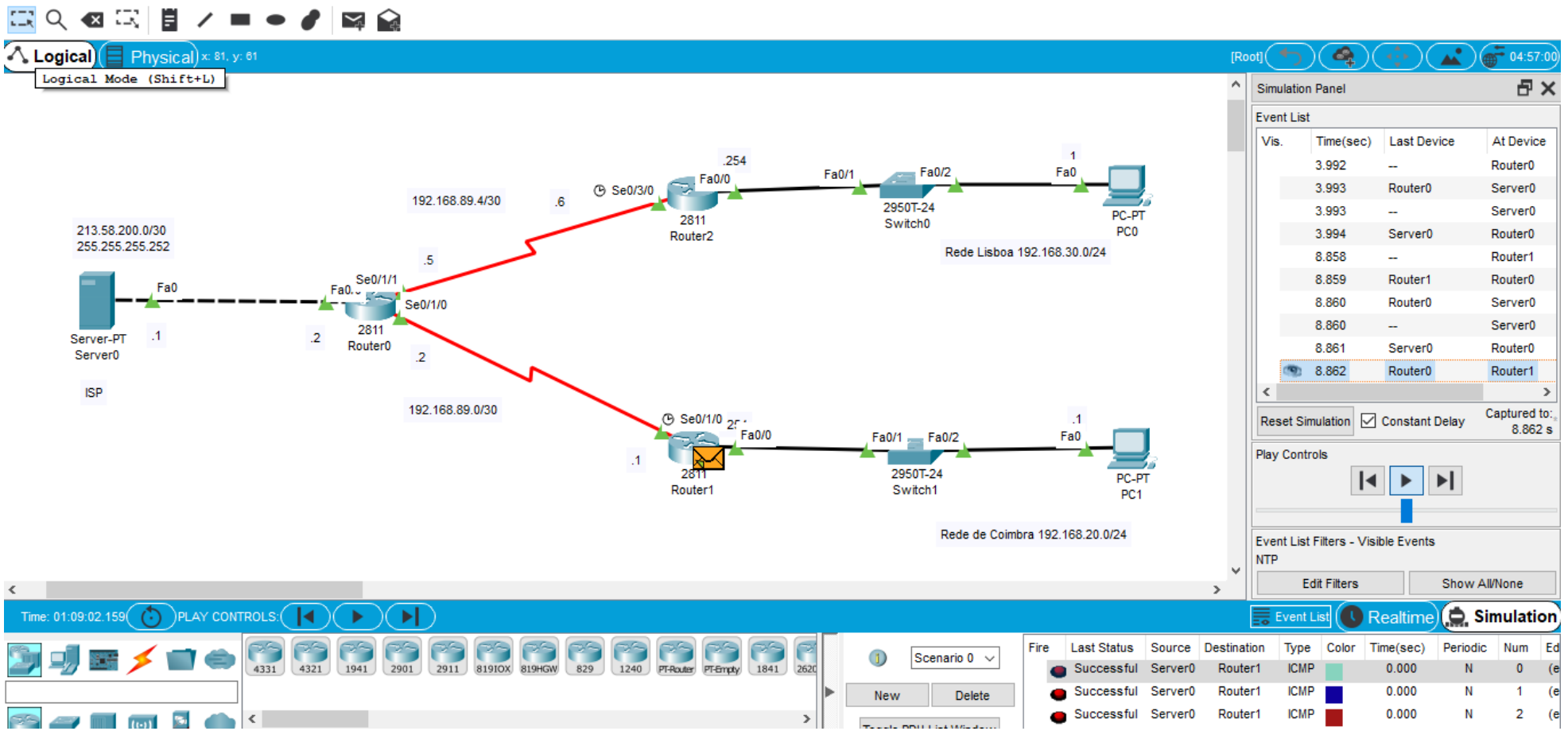



Router2
Physical
Config
CLI
Attributes
IOS Command Line Interface
Router>
Router>
Router>
Router>
Router>
Router>en
Router#conf t
Enter configuration commands, one per line. End with CNTL/Z.
Router(config)#ntp enable
                ^
% Invalid input detected at '^' marker.
Router(config)#ntp server 213.58.200.1
Router(config)#ntp up
Router(config)#ntp update-calendar
Router(config)#ntp mas
Router(config)#ntp master
Router(config)#
Router(config)#
Router(config)#
Router(config)#^Z
Router#
%SYS-5-CONFIG_I: Configured from console by console
Router#
Ctrl+F6 to exit CLI focus
Copy
Paste
Top

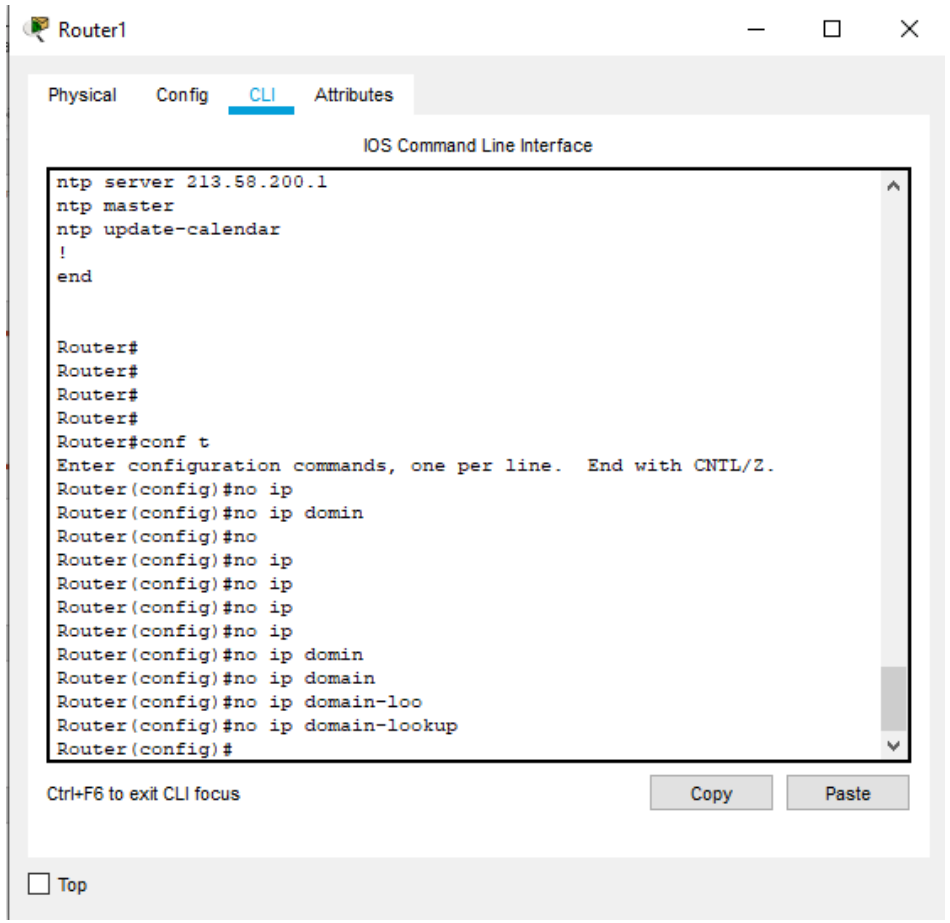

Router2
Physical
Config
CLI
Attributes
IOS Command Line Interface
Router#
Router#
Router#
Router#
Router#
Router#
Router#
Router#
Router#
Router#
Router#
Router#
Router#
Router#
Router#
Router#
Router#
Router#
Router#
Router#
Router#
Router#
Router#sh clo
Router#sh clock
22:26:26.503 UTC Fri Jun 4 2021
Router#
Ctrl+F6 to exit CLI focus
Copy
Paste
Top

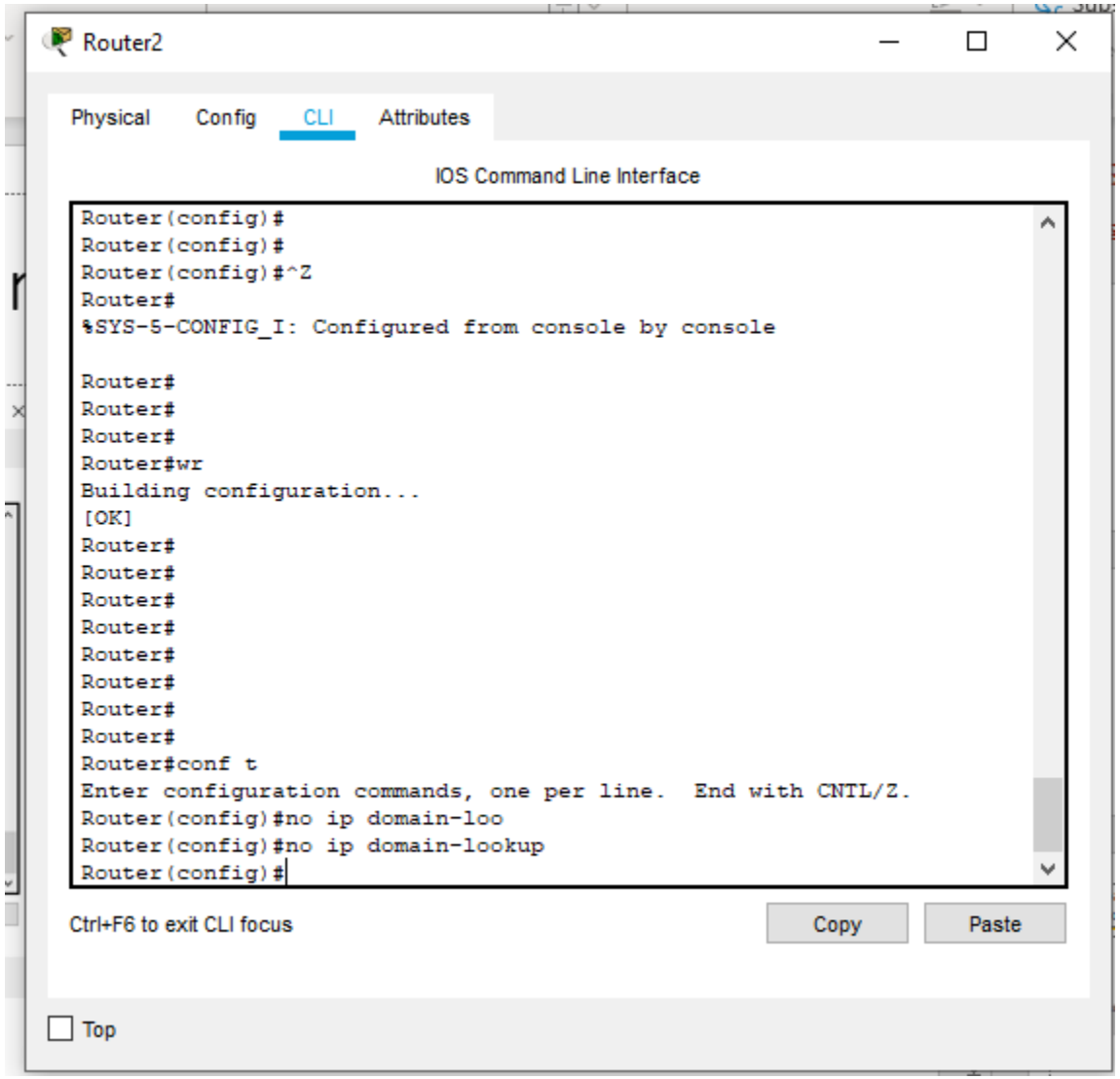

Router1
Physical
Config
CLI
Attributes
IOS Command Line Interface
Router>
Router>
Router>
Router>
Router>
Router>en
Router#conf t
Enter configuration commands, one per line. End with CNTL/Z.
Router(config)#ntp ser
Router(config)#ntp server 213.58.200.1
Router(config)#ntp u
Router(config)#ntp update-calendar
Router(config)#ntp
Router(config)#ntp ma
Router(config)#ntp master
Router(config)#
Router(config)#
Router(config)#
Router(config)#
Router(config)#
Router(config)#
Router(config)#^Z
Router#
Ctrl+F6 to exit CLI focus
Copy
Paste
Top

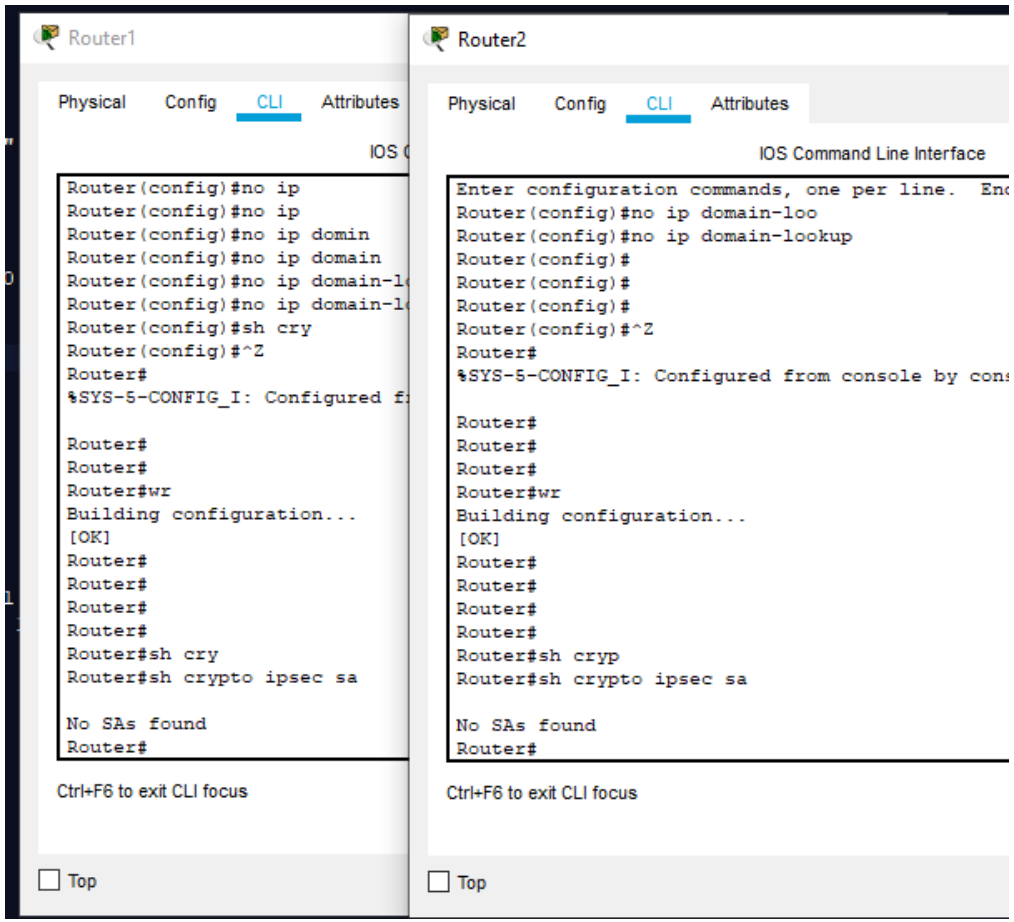

Router1
Physical
Config
CLI
Attributes
IOS Command Line Interface
Router#
Router#
Router#
Router#
Router#
Router#
Router#
Router#
Router#
Router#
Router#
Router#
Router#
Router#
Router#
Router#
Router#
Router#
Router#
Router#
Router#
Router#sh clo
Router#sh clock
22:25:44.363 UTC Fri Jun 4 2021
Router#
Ctrl+F6 to exit CLI focus
Copy
Paste
Top

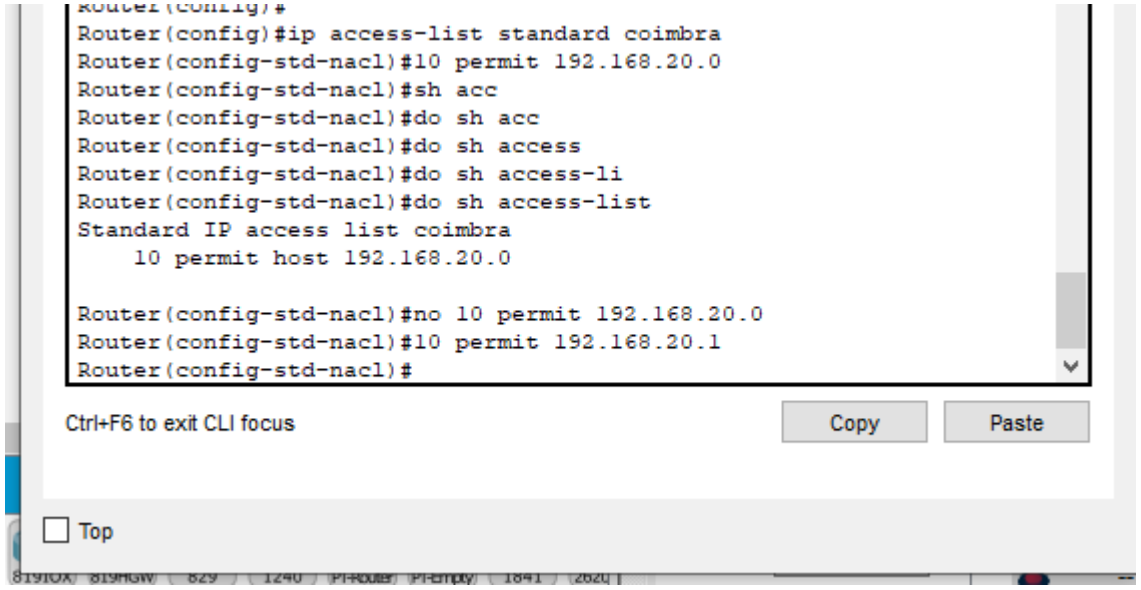

Logical
Physical
x: 81, y: 61
Logical Mode (Shift+L)
[Root]
04:57:00
213.58.200.0/30
255.255.255.252
Server-PT
Server0
Fa0
.1
ISP
.2
Fa0/
Se0/1/1
Se0/1/0
2811
Router0
192.168.89.4/30
.5
.6
Se0/3/0
.254
Fa0/0
2811
Router2
Fa0/1
Fa0/2
2950T-24
Switch0
.1
Fa0
PC-PT
PC0
Rede Lisboa 192.168.30.0/24
192.168.89.0/30
Se0/1/0
Fa0/0
.1
2811
Router1
Fa0/1
Fa0/2
2950T-24
Switch1
.1
Fa0
PC-PT
PC1
Rede de Coimbra 192.168.20.0/24
Simulation Panel
Event List
Vis.
Time(sec)
Last Device
At Device
3.992 -- Router0
3.993 Router0 Server0
3.993 -- Server0
3.994 Server0 Router0
8.858 -- Router1
8.859 Router1 Router0
8.860 Router0 Server0
8.860 -- Server0
8.861 Server0 Router0
8.862 Router0 Router1
Reset Simulation
Constant Delay
Captured to: 8.862 s
Play Controls
Event List Filters - Visible Events
NTP
Edit Filters
Show All/None
Time: 01:09:02.159
PLAY CONTROLS:
Event List
Realtime
Simulation
4331
4321
1941
2901
2911
819IOX
819HGW
829
1240
PT-Router
PT-Empty
1841
Scenario 0
New
Delete
Fire
Last Status
Source
Destination
Type
Color
Time(sec)
Periodic
Num
Successful Server0 Router1 ICMP 0.000 N 0
Successful Server0 Router1 ICMP 0.000 N 1
Successful Server0 Router1 ICMP 0.000 N 2

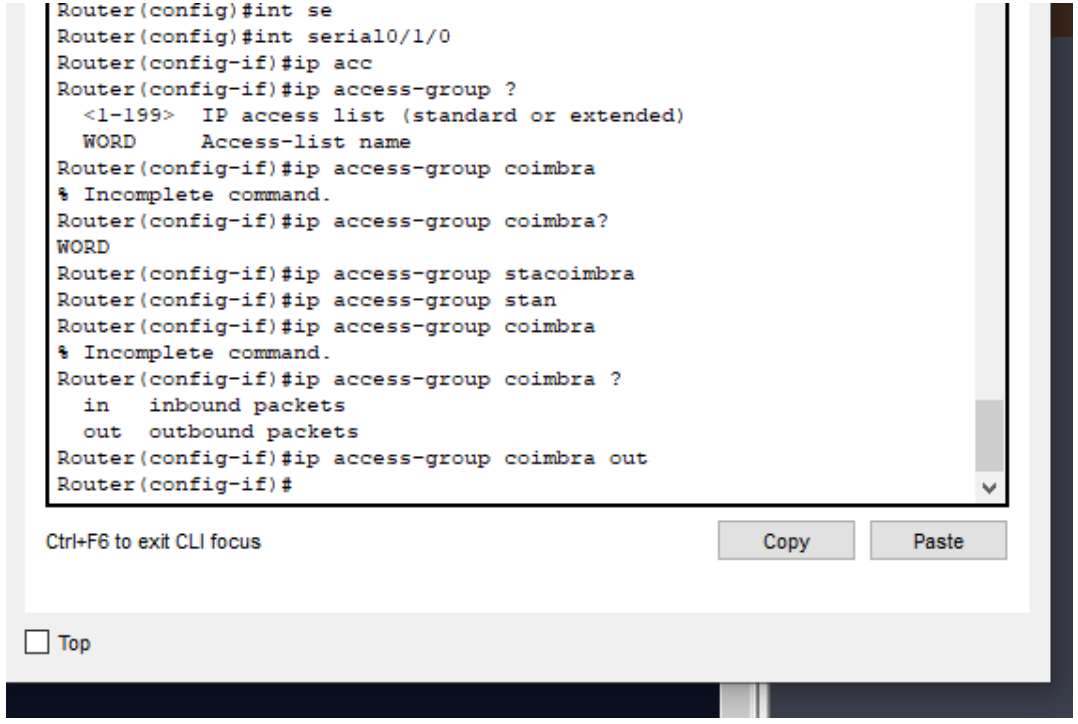
PERGUNTA 2

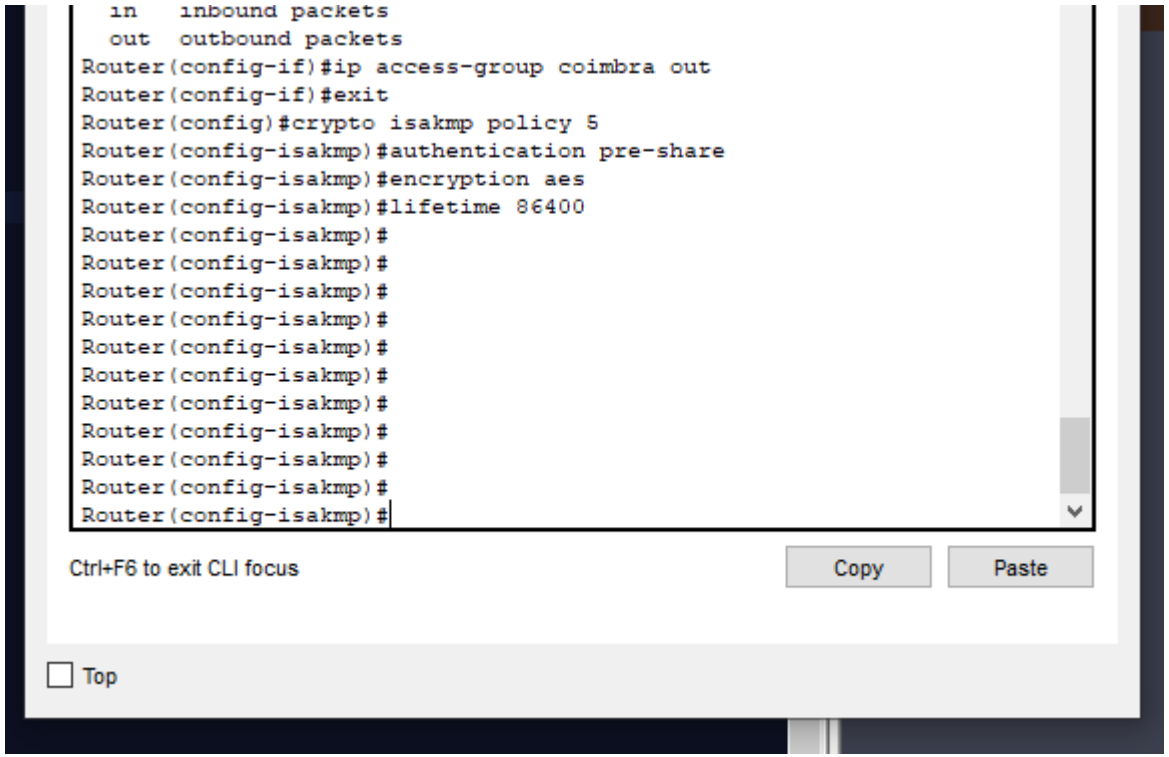

Router1
Physical
Config
CLI
Attributes
IOS Command Line Interface
ntp server 213.58.200.1
ntp master
ntp update-calendar
!
end
Router#
Router#
Router#
Router#
Router#conf t
Enter configuration commands, one per line. End with CNTL/Z.
Router(config)#no ip
Router(config)#no ip domin
Router(config)#no
Router(config)#no ip
Router(config)#no ip
Router(config)#no ip
Router(config)#no ip
Router(config)#no ip domin
Router(config)#no ip domain
Router(config)#no ip domain-loo
Router(config)#no ip domain-lookup
Router(config)#
Ctrl+F6 to exit CLI focus
Copy
Paste
Top

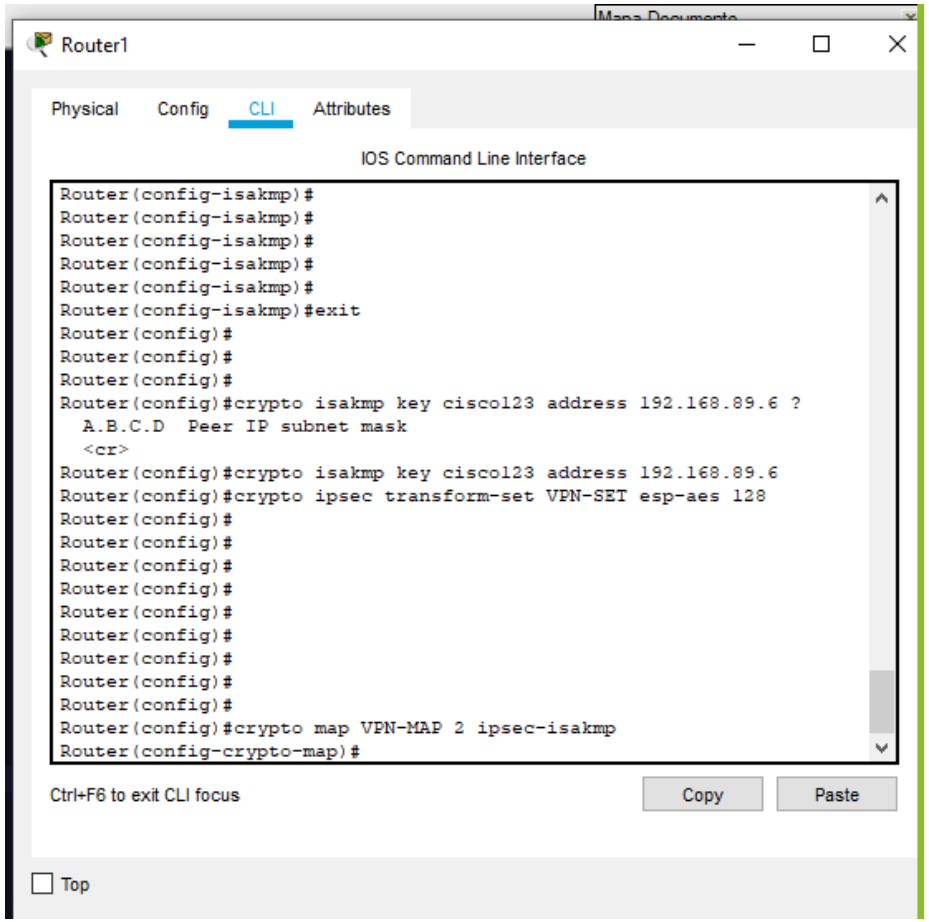

Router2
Physical
Config
CLI
Attributes
IOS Command Line Interface
Router(config)#
Router(config)#
Router(config)#^Z
Router#
%SYS-5-CONFIG_I: Configured from console by console
Router#
Router#
Router#
Router#wr
Building configuration...
[OK]
Router#
Router#
Router#
Router#
Router#
Router#
Router#
Router#
Router#conf t
Enter configuration commands, one per line. End with CNTL/Z.
Router(config)#no ip domain-loo
Router(config)#no ip domain-lookup
Router(config)#
Ctrl+F6 to exit CLI focus
Copy
Paste
Top

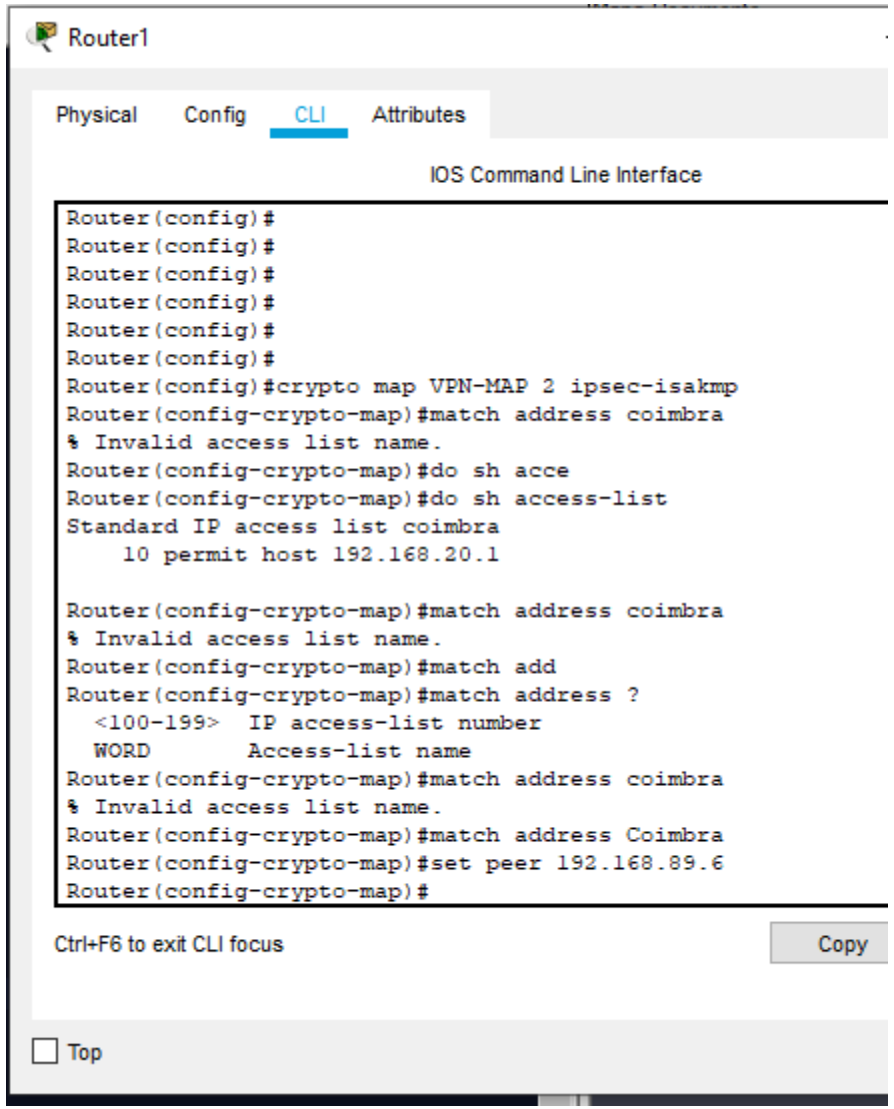

Router1
Physical
Config
CLI
Attributes
IOS
Router(config)#no ip
Router(config)#no ip
Router(config)#no ip domin
Router(config)#no ip domain
Router(config)#no ip domain-l
Router(config)#no ip domain-l
Router(config)#sh cry
Router(config)#^Z
Router#
%SYS-5-CONFIG_I: Configured f
Router#
Router#
Router#wr
Building configuration...
[OK]
Router#
Router#
Router#
Router#
Router#sh cry
Router#sh crypto ipsec sa
No SAs found
Router#
Ctrl+F6 to exit CLI focus
Top
Router2
Physical
Config
CLI
Attributes
IOS Command Line Interface
Enter configuration commands, one per line. End
Router(config)#no ip domain-loo
Router(config)#no ip domain-lookup
Router(config)#
Router(config)#
Router(config)#
Router(config)#^Z
Router#
%SYS-5-CONFIG_I: Configured from console by cons
Router#
Router#
Router#
Router#wr
Building configuration...
[OK]
Router#
Router#
Router#
Router#
Router#sh cryp
Router#sh crypto ipsec sa
No SAs found
Router#
Ctrl+F6 to exit CLI focus
Top

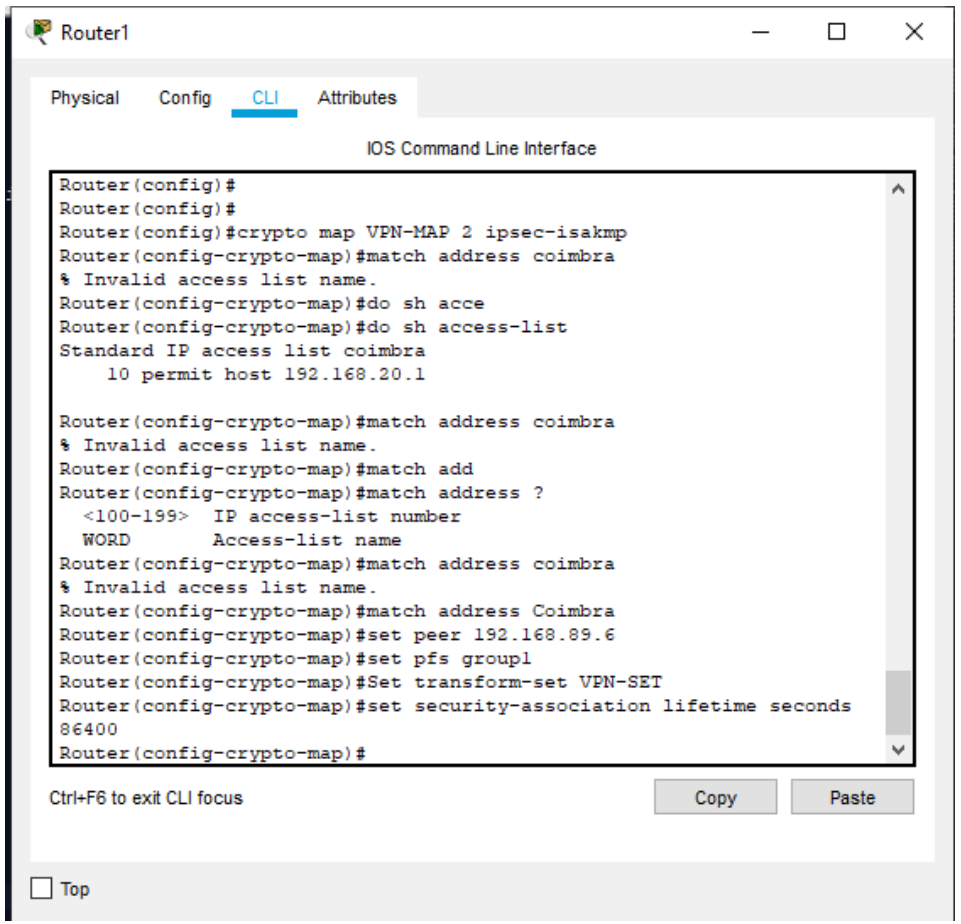

Router(config)#
Router(config)#ip access-list standard coimbra
Router(config-std-nacl)#10 permit 192.168.20.0
Router(config-std-nacl)#sh acc
Router(config-std-nacl)#do sh acc
Router(config-std-nacl)#do sh access
Router(config-std-nacl)#do sh access-li
Router(config-std-nacl)#do sh access-list
Standard IP access list coimbra
10 permit host 192.168.20.0
Router(config-std-nacl)#no 10 permit 192.168.20.0
Router(config-std-nacl)#10 permit 192.168.20.1
Router(config-std-nacl)#
Ctrl+F6 to exit CLI focus
Copy
Paste
Top


Router(config)#int se
Router(config)#int serial0/1/0
Router(config-if)#ip acc
Router(config-if)#ip access-group ?
<1-199> IP access list (standard or extended)
WORD Access-list name
Router(config-if)#ip access-group coimbra
% Incomplete command.
Router(config-if)#ip access-group coimbra?
WORD
Router(config-if)#ip access-group stacoimbra
Router(config-if)#ip access-group stan
Router(config-if)#ip access-group coimbra
% Incomplete command.
Router(config-if)#ip access-group coimbra ?
in inbound packets
out outbound packets
Router(config-if)#ip access-group coimbra out
Router(config-if)#
Ctrl+F6 to exit CLI focus
Copy
Paste
Top


in inbound packets
out outbound packets
Router(config-if)#ip access-group coimbra out
Router(config-if)#exit
Router(config)#crypto isakmp policy 5
Router(config-isakmp)#authentication pre-share
Router(config-isakmp)#encryption aes
Router(config-isakmp)#lifetime 86400
Router(config-isakmp)#
Router(config-isakmp)#
Router(config-isakmp)#
Router(config-isakmp)#
Router(config-isakmp)#
Router(config-isakmp)#
Router(config-isakmp)#
Router(config-isakmp)#
Router(config-isakmp)#
Router(config-isakmp)#
Router(config-isakmp)#
Ctrl+F6 to exit CLI focus
Copy
Paste
Top


Router1
Physical
Config
CLI
Attributes
IOS Command Line Interface
Router(config-isakmp)#
Router(config-isakmp)#
Router(config-isakmp)#
Router(config-isakmp)#
Router(config-isakmp)#
Router(config-isakmp)#exit
Router(config)#
Router(config)#
Router(config)#
Router(config)#crypto isakmp key ciscol23 address 192.168.89.6 ?
A.B.C.D Peer IP subnet mask
<cr>
Router(config)#crypto isakmp key ciscol23 address 192.168.89.6
Router(config)#crypto ipsec transform-set VPN-SET esp-aes 128
Router(config)#
Router(config)#
Router(config)#
Router(config)#
Router(config)#
Router(config)#
Router(config)#
Router(config)#
Router(config)#
Router(config)#crypto map VPN-MAP 2 ipsec-isakmp
Router(config-crypto-map)#
Ctrl+F6 to exit CLI focus
Copy
Paste
Top


Router1
Physical
Config
CLI
Attributes
IOS Command Line Interface
Router(config)#
Router(config)#
Router(config)#
Router(config)#
Router(config)#
Router(config)#
Router(config)#crypto map VPN-MAP 2 ipsec-isakmp
Router(config-crypto-map)#match address coimbra
% Invalid access list name.
Router(config-crypto-map)#do sh acce
Router(config-crypto-map)#do sh access-list
Standard IP access list coimbra
10 permit host 192.168.20.1
Router(config-crypto-map)#match address coimbra
% Invalid access list name.
Router(config-crypto-map)#match add
Router(config-crypto-map)#match address ?
<100-199> IP access-list number
WORD Access-list name
Router(config-crypto-map)#match address coimbra
% Invalid access list name.
Router(config-crypto-map)#match address Coimbra
Router(config-crypto-map)#set peer 192.168.89.6
Router(config-crypto-map)#
Ctrl+F6 to exit CLI focus
Copy
Top


Router1
Physical
Config
CLI
Attributes
IOS Command Line Interface
Router(config)#
Router(config)#
Router(config)#crypto map VPN-MAP 2 ipsec-isakmp
Router(config-crypto-map)#match address coimbra
% Invalid access list name.
Router(config-crypto-map)#do sh acce
Router(config-crypto-map)#do sh access-list
Standard IP access list coimbra
10 permit host 192.168.20.1
Router(config-crypto-map)#match address coimbra
% Invalid access list name.
Router(config-crypto-map)#match add
Router(config-crypto-map)#match address ?
<100-199> IP access-list number
WORD Access-list name
Router(config-crypto-map)#match address coimbra
% Invalid access list name.
Router(config-crypto-map)#match address Coimbra
Router(config-crypto-map)#set peer 192.168.89.6
Router(config-crypto-map)#set pfs group1
Router(config-crypto-map)#Set transform-set VPN-SET
Router(config-crypto-map)#set security-association lifetime seconds
86400
Router(config-crypto-map)#
Ctrl+F6 to exit CLI focus
Copy
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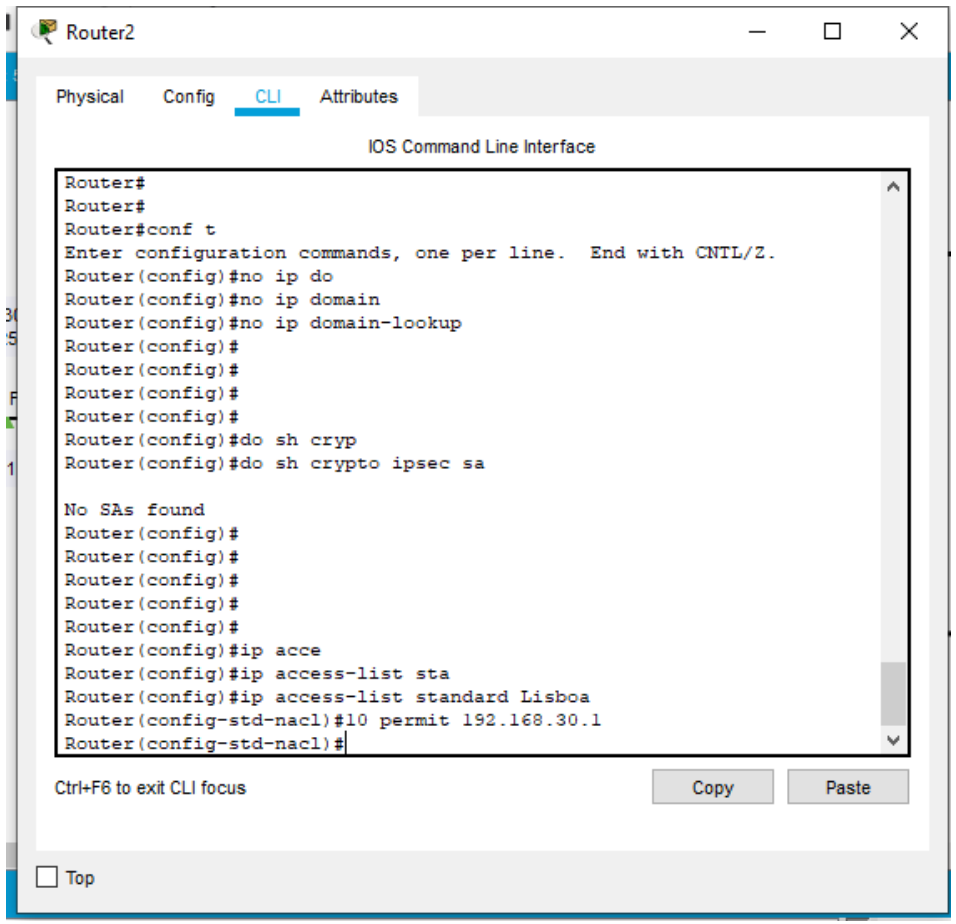
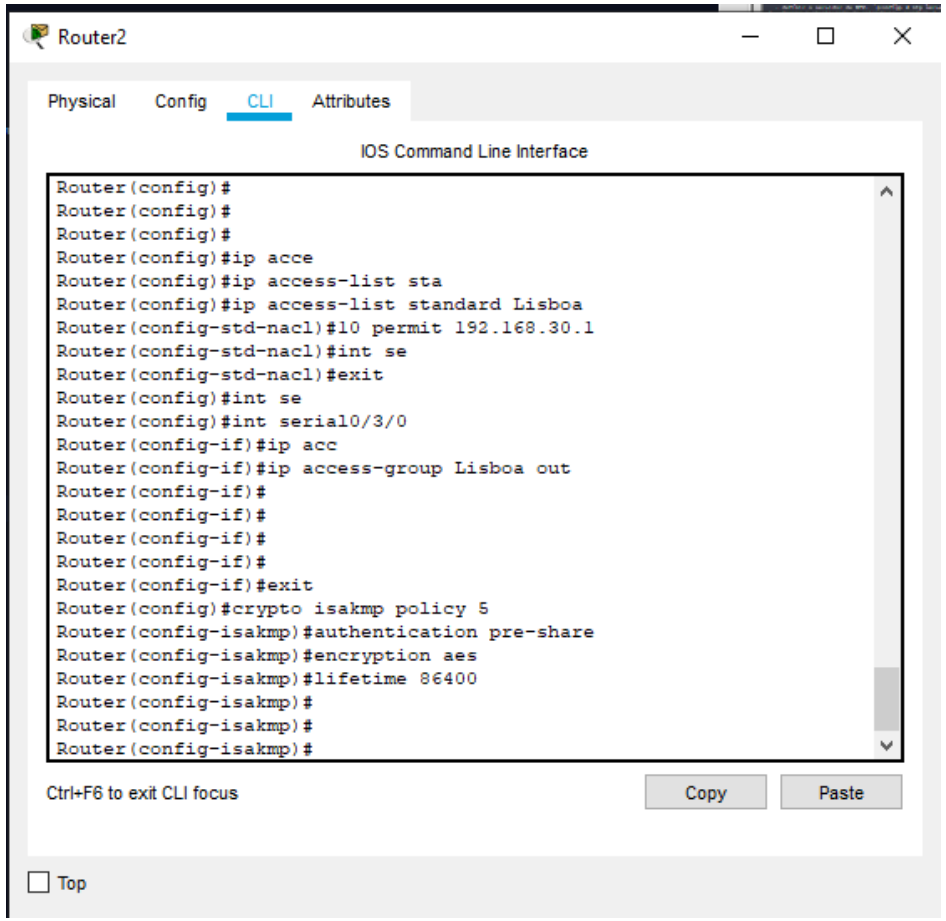
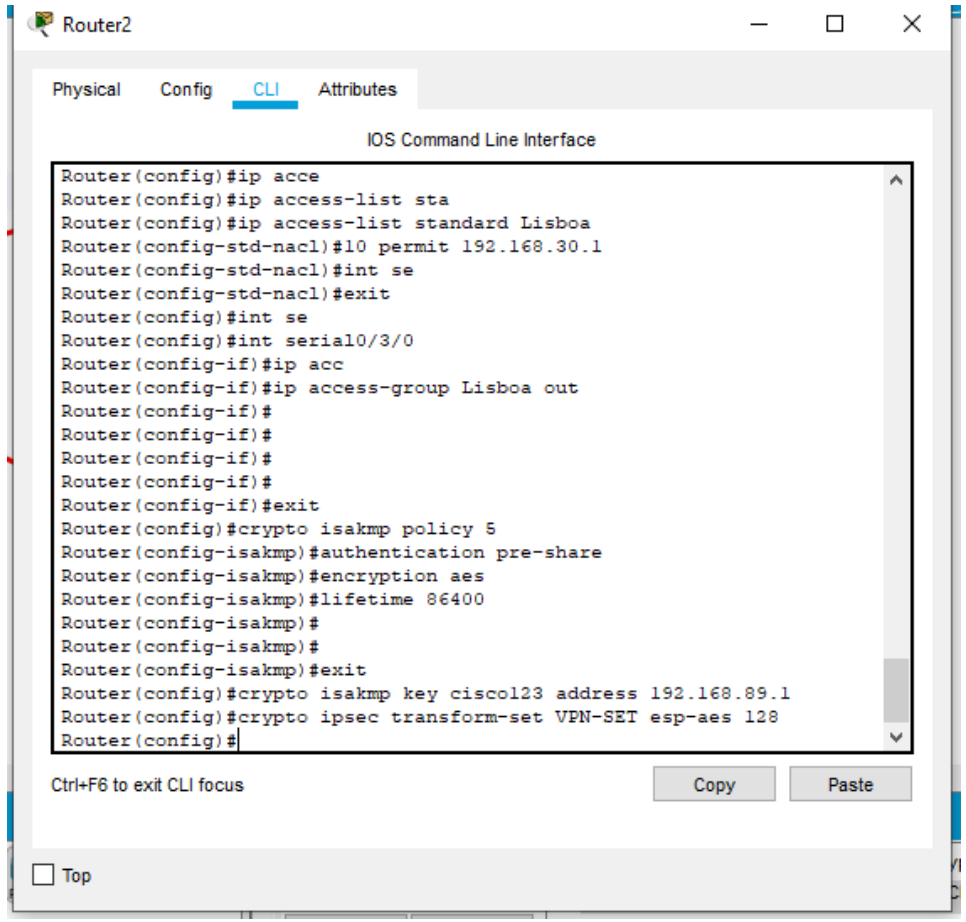
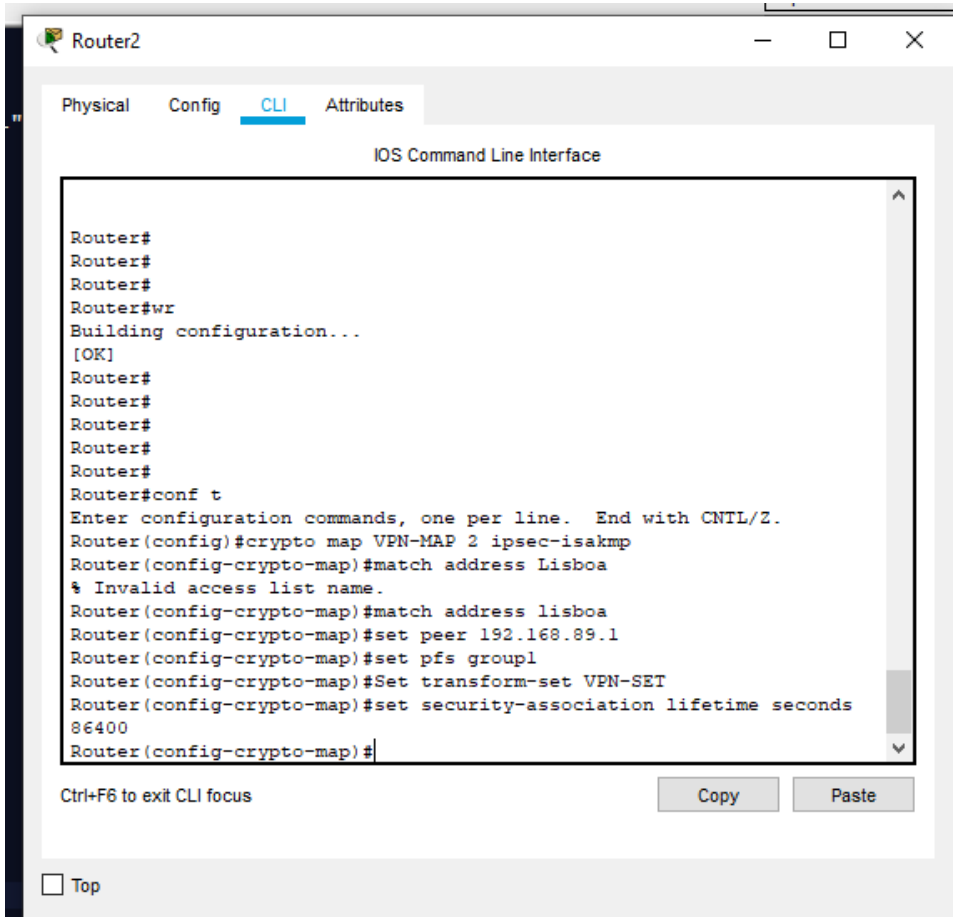
Top


Router2
Physical
Config
CLI
Attributes
IOS Command Line Interface
Router#
Router#
Router#conf t
Enter configuration commands, one per line. End with CNTL/Z.
Router(config)#no ip do
Router(config)#no ip domain
Router(config)#no ip domain-lookup
Router(config)#
Router(config)#
Router(config)#
Router(config)#
Router(config)#do sh cryp
Router(config)#do sh crypto ipsec sa
No SAs found
Router(config)#
Router(config)#
Router(config)#
Router(config)#
Router(config)#
Router(config)#ip acce
Router(config)#ip access-list sta
Router(config)#ip access-list standard Lisboa
Router(config-std-nacl)#10 permit 192.168.30.1
Router(config-std-nacl)#
Ctrl+F6 to exit CLI focus
Copy
Paste
Top


Router2
Physical
Config
CLI
Attributes
IOS Command Line Interface
Router(config)#
Router(config)#
Router(config)#
Router(config)#ip acce
Router(config)#ip access-list sta
Router(config)#ip access-list standard Lisboa
Router(config-std-nacl)#10 permit 192.168.30.1
Router(config-std-nacl)#int se
Router(config-std-nacl)#exit
Router(config)#int se
Router(config)#int serial0/3/0
Router(config-if)#ip acc
Router(config-if)#ip access-group Lisboa out
Router(config-if)#
Router(config-if)#
Router(config-if)#
Router(config-if)#
Router(config-if)#exit
Router(config)#crypto isakmp policy 5
Router(config-isakmp)#authentication pre-share
Router(config-isakmp)#encryption aes
Router(config-isakmp)#lifetime 86400
Router(config-isakmp)#
Router(config-isakmp)#
Router(config-isakmp)#
Ctrl+F6 to exit CLI focus
Copy
Paste
Top


Router2
Physical
Config
CLI
Attributes
IOS Command Line Interface
Router(config)#ip acce
Router(config)#ip access-list sta
Router(config)#ip access-list standard Lisboa
Router(config-std-nacl)#10 permit 192.168.30.1
Router(config-std-nacl)#int se
Router(config-std-nacl)#exit
Router(config)#int se
Router(config)#int serial0/3/0
Router(config-if)#ip acc
Router(config-if)#ip access-group Lisboa out
Router(config-if)#
Router(config-if)#
Router(config-if)#
Router(config-if)#
Router(config-if)#exit
Router(config)#crypto isakmp policy 5
Router(config-isakmp)#authentication pre-share
Router(config-isakmp)#encryption aes
Router(config-isakmp)#lifetime 86400
Router(config-isakmp)#
Router(config-isakmp)#
Router(config-isakmp)#exit
Router(config)#crypto isakmp key cisco123 address 192.168.89.1
Router(config)#crypto ipsec transform-set VPN-SET esp-aes 128
Router(config)#
Ctrl+F6 to exit CLI focus
Copy
Paste
Top


Router2
Physical
Config
CLI
Attributes
IOS Command Line Interface
Router#
Router#
Router#
Router#wr
Building configuration...
[OK]
Router#
Router#
Router#
Router#
Router#
Router#conf t
Enter configuration commands, one per line. End with CNTL/Z.
Router(config)#crypto map VPN-MAP 2 ipsec-isakmp
Router(config-crypto-map)#match address Lisboa
% Invalid access list name.
Router(config-crypto-map)#match address lisboa
Router(config-crypto-map)#set peer 192.168.89.1
Router(config-crypto-map)#set pfs group1
Router(config-crypto-map)#Set transform-set VPN-SET
Router(config-crypto-map)#set security-association lifetime seconds
86400
Router(config-crypto-map)#
Ctrl+F6 to exit CLI focus
Copy
Paste
Top