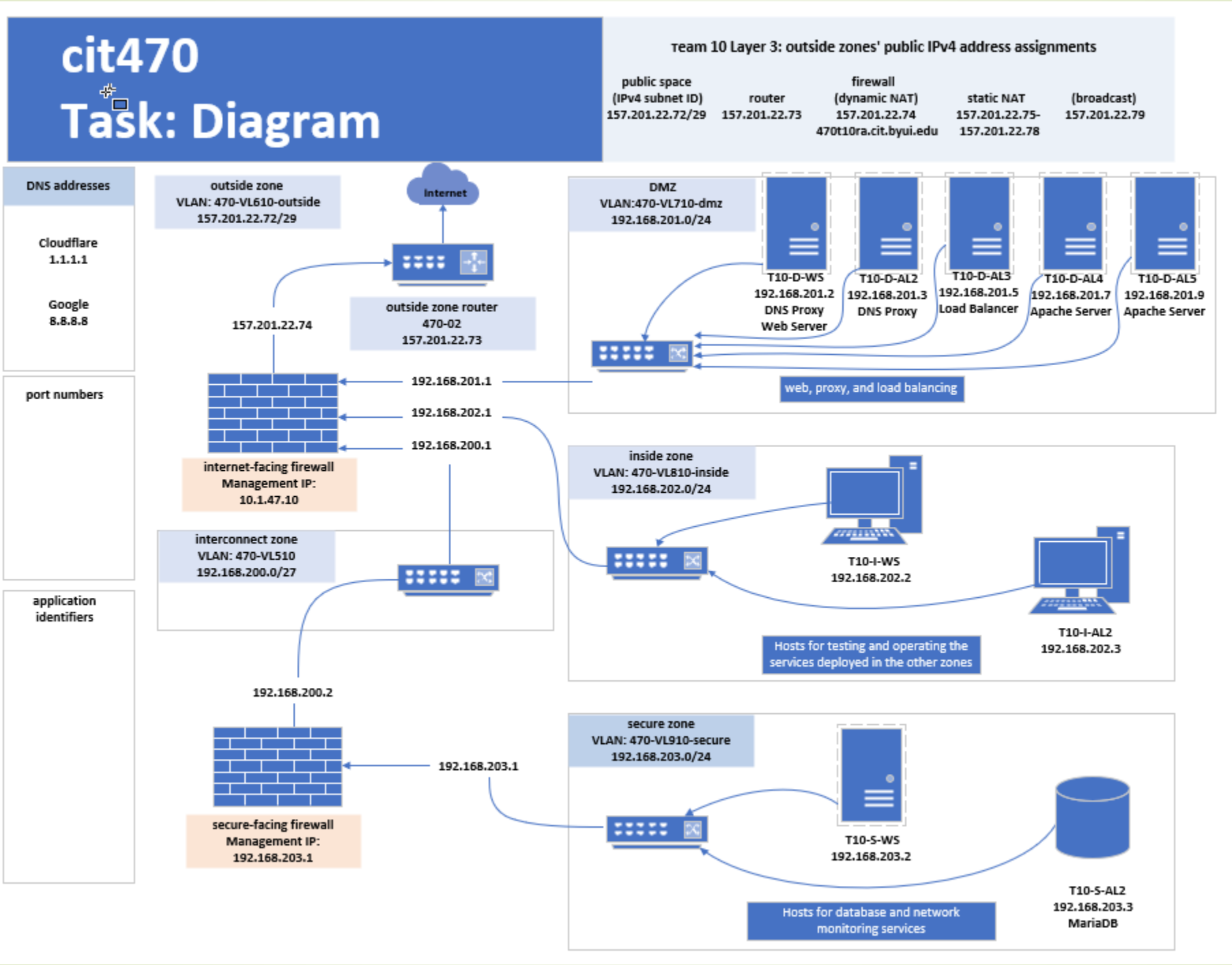
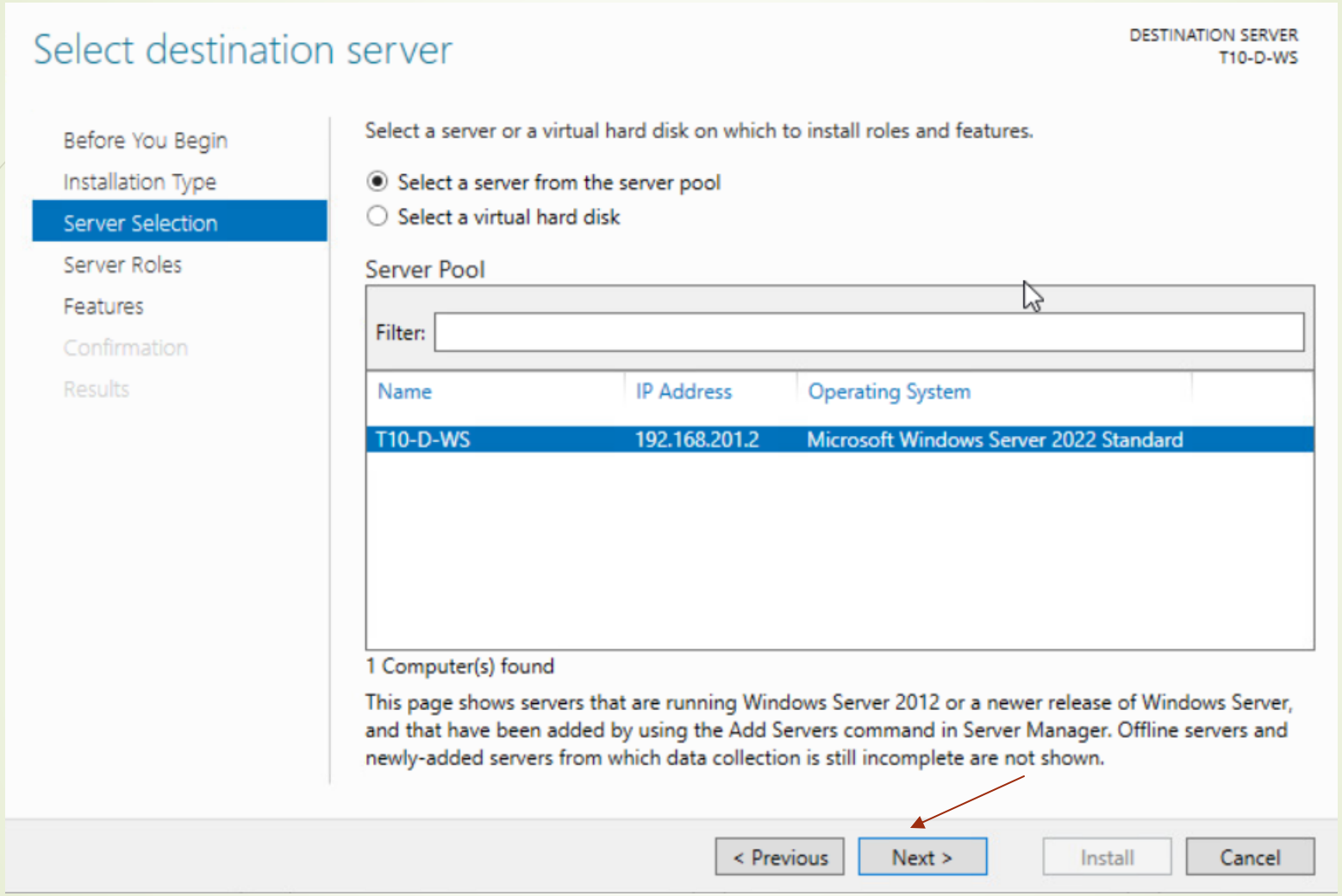
Task: Above-and-Beyond 3

cit470
Task: Diagram



Active Directory Installation

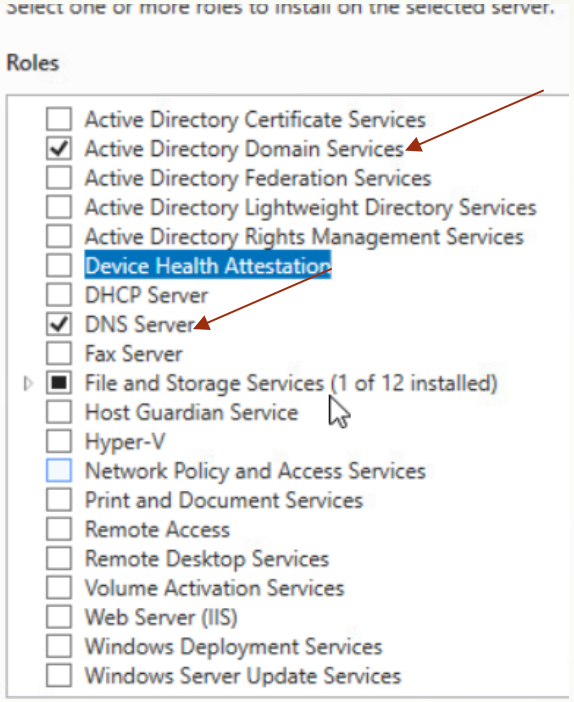

Select destination server
DESTINATION SERVER
T10-D-WS
Before You Begin
Installation Type
Server Selection
Server Roles
Features
Confirmation
Results
Select a server or a virtual hard disk on which to install roles and features.
Select a server from the server pool
Select a virtual hard disk
Server Pool
Filter:
Name
IP Address
Operating System
T10-D-WS
192.168.201.2
Microsoft Windows Server 2022 Standard
1 Computer(s) found
This page shows servers that are running Windows Server 2012 or a newer release of Windows Server, and that have been added by using the Add Servers command in Server Manager. Offline servers and newly-added servers from which data collection is still incomplete are not shown.
< Previous
Next >
Install
Cancel

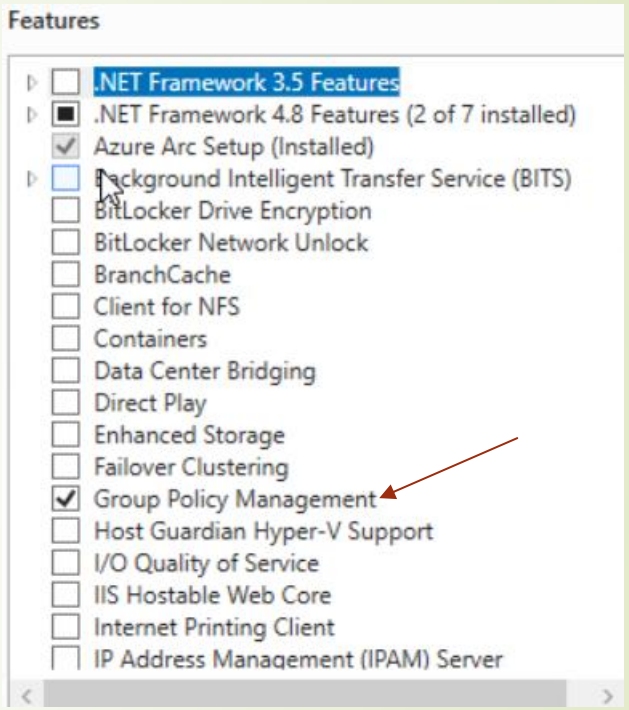
Active Directory Installation

Under "Roles" Select the "Active Directory Domain Services" and the "DNS Server" options.

Under "Features" make sure that "Group Policy Manager" is selected.

Click Next and then click Next on the following two pages.

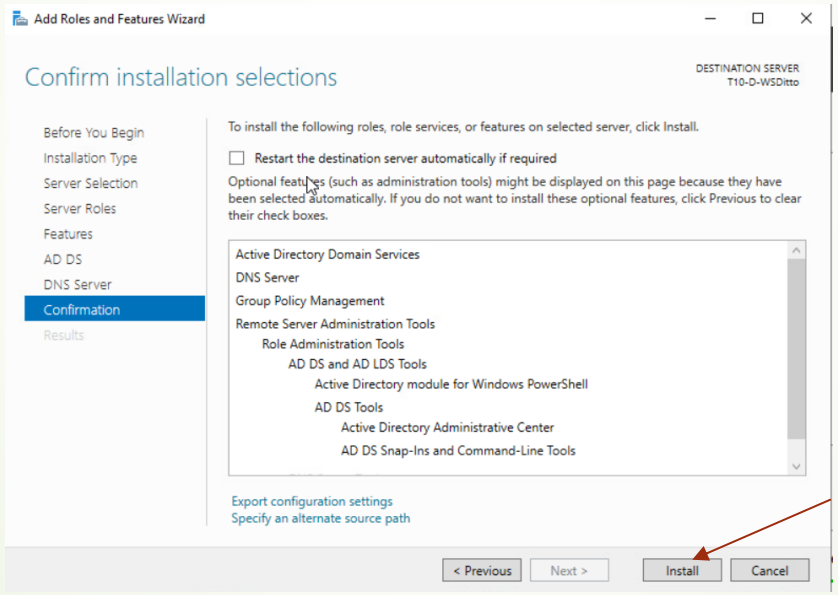


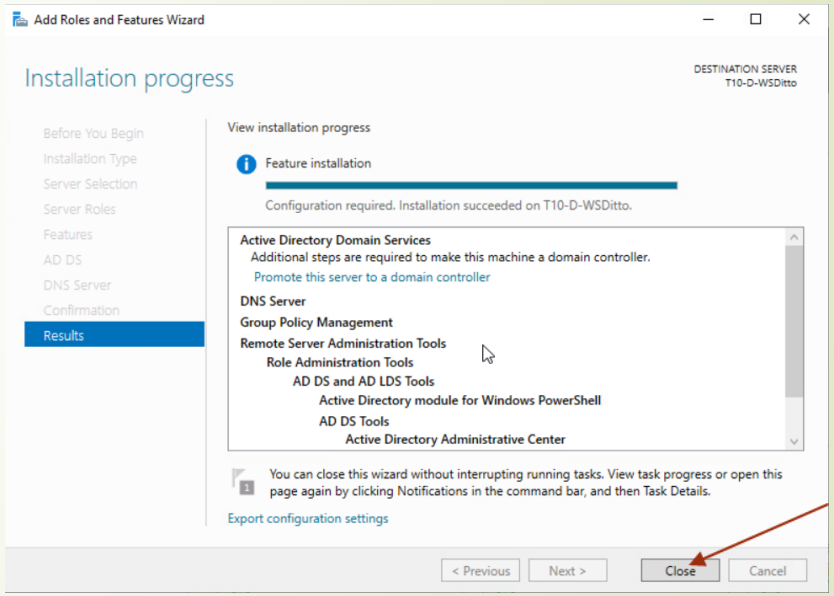


Active Directory Installation

Click "Install"

Click "Close"



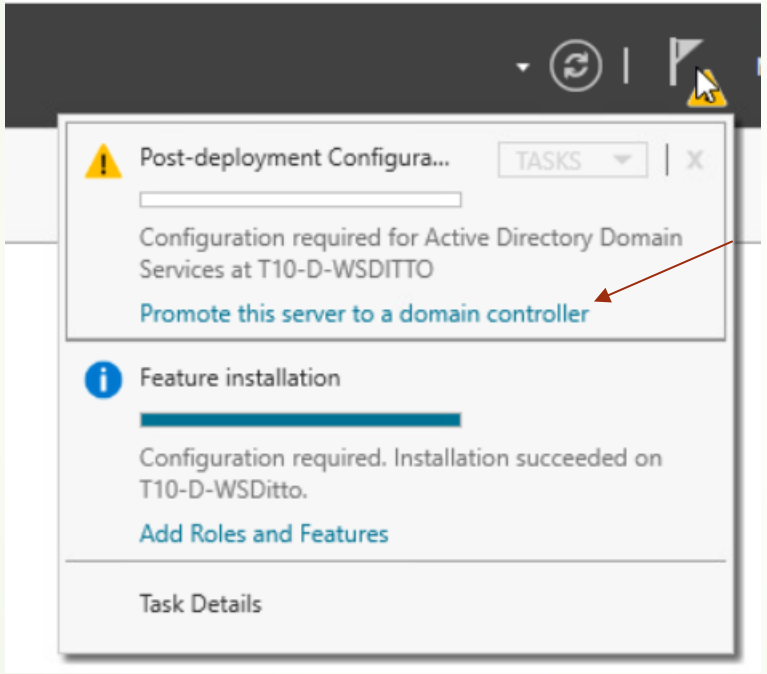


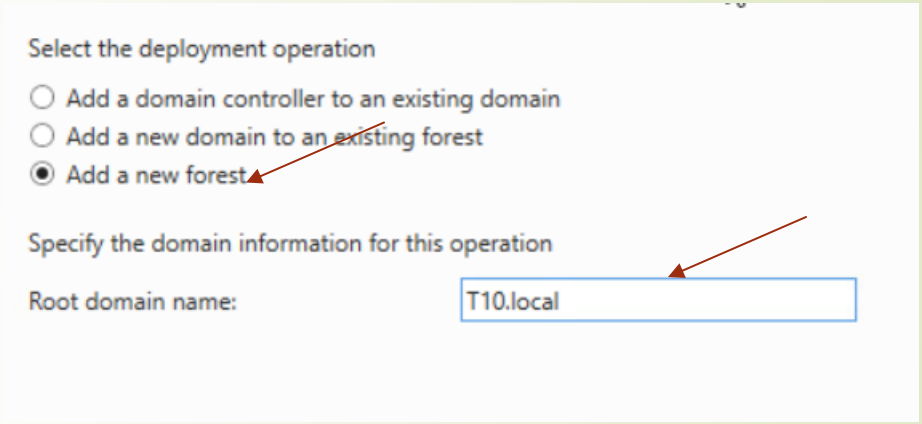
Active Directory Installation

Click on the exclamation flag and then select "Promote this server to domain controller".

When the Active Directory Domain Services Configuration Wizard opens, Select "Add a new forest".

Enter your Domain name and click "Next".



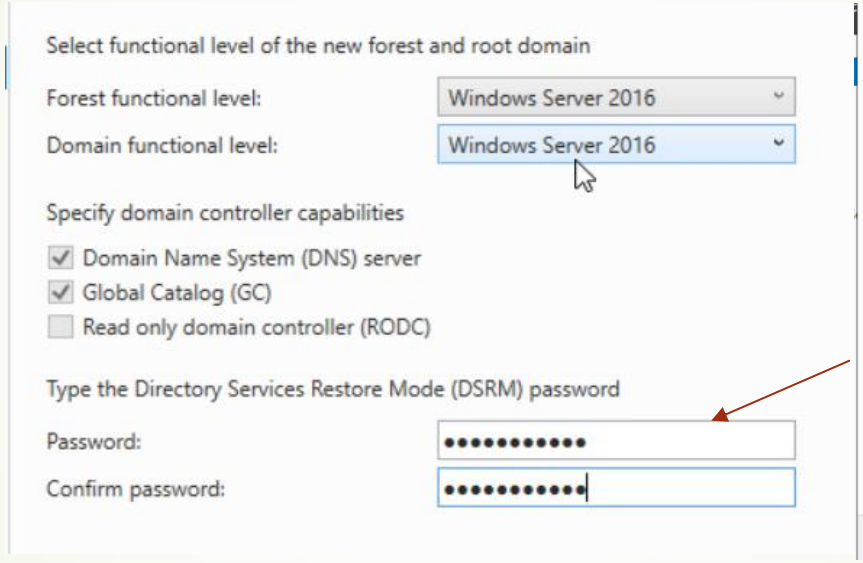


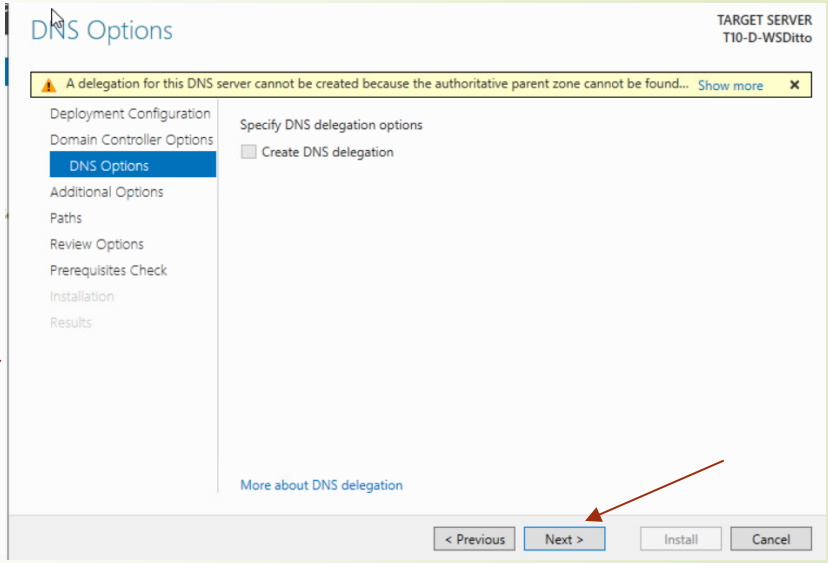
Active Directory Installation

Enter a DSRM Password

Click "Next"

On the DNS Options page click "Next"

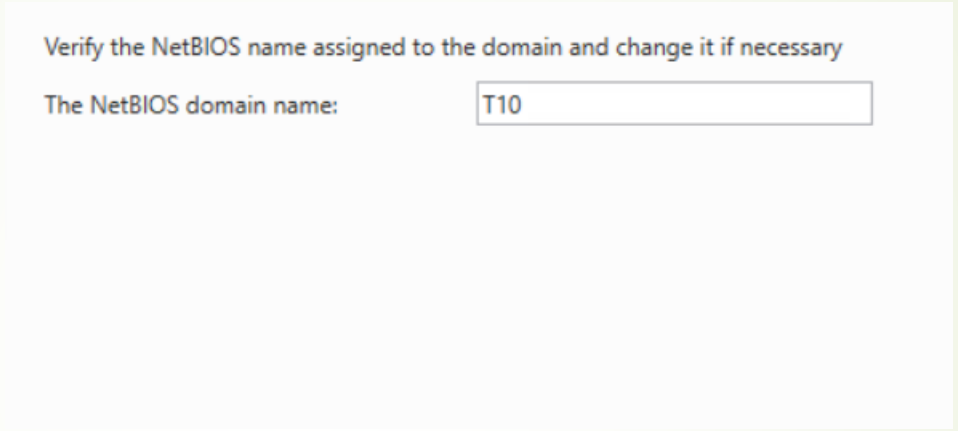


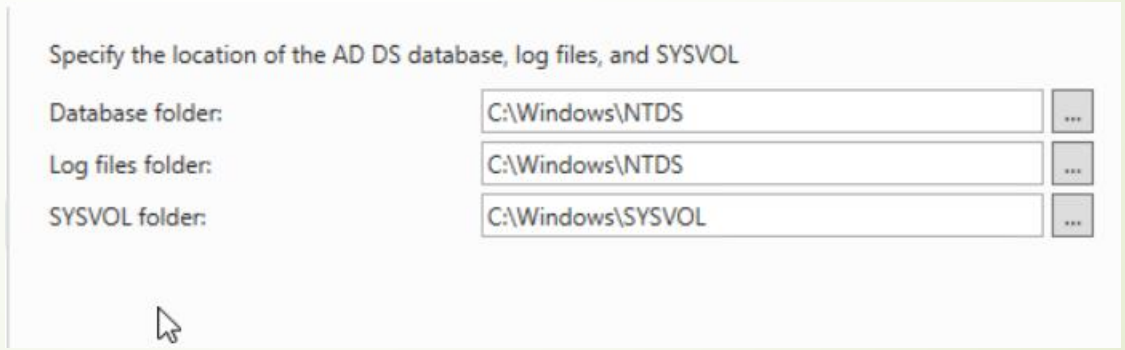


Active Directory Installation

Active Directory Installation

On the other Options Page and the Paths page leave the default settings and click "Next".



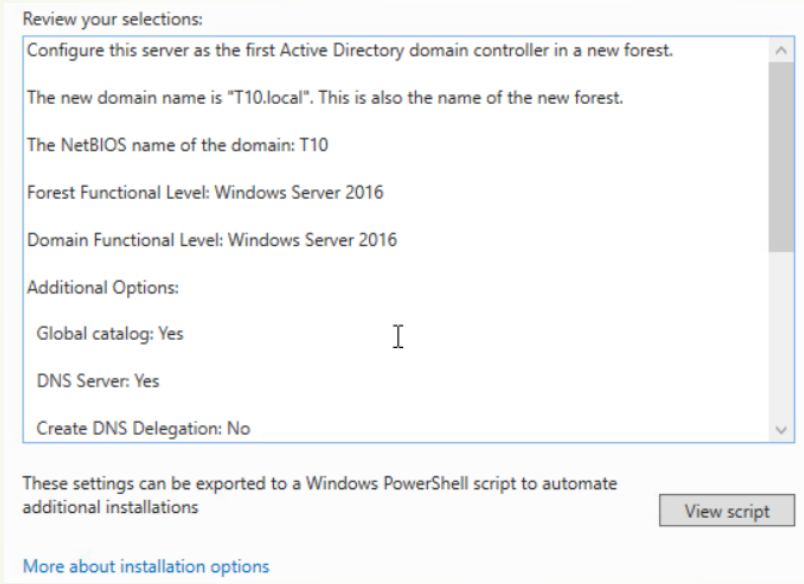


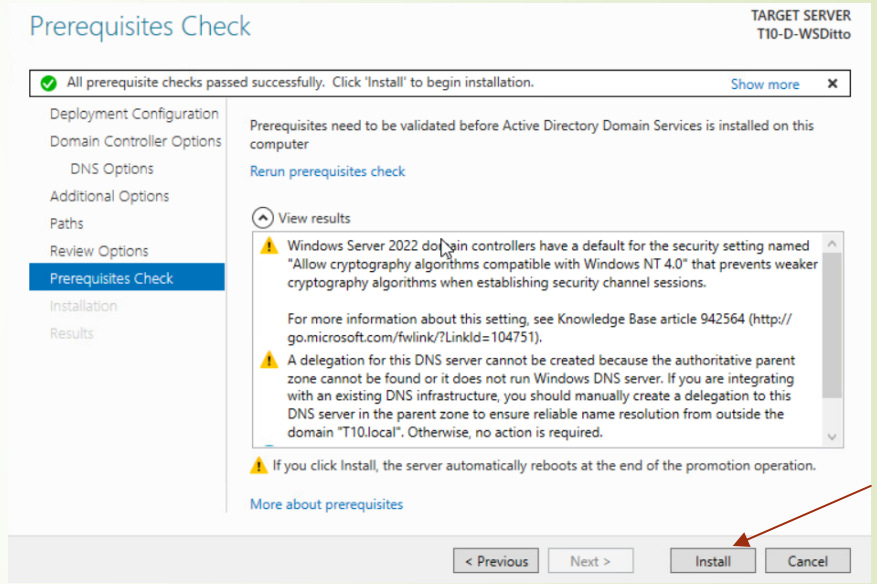
Active Directory Installation

Review options then click “Next”.

Once Prerequisite Check is completed click “Install”.

The Server will automatically restart.





Install Cockpit

```
[cditto@T10-D-AL3 ~]$ sudo dnf install cockpit-podman cockpit-machines cockpit-n
etworkmanager cockpit-packagekit
```

```
[cditto@T10-D-AL3 ~]$ sudo systemctl enable --now cockpit.socket
```

```
[cditto@T10-D-AL3 ~]$ sudo systemctl start cockpit cockpit.socket
```

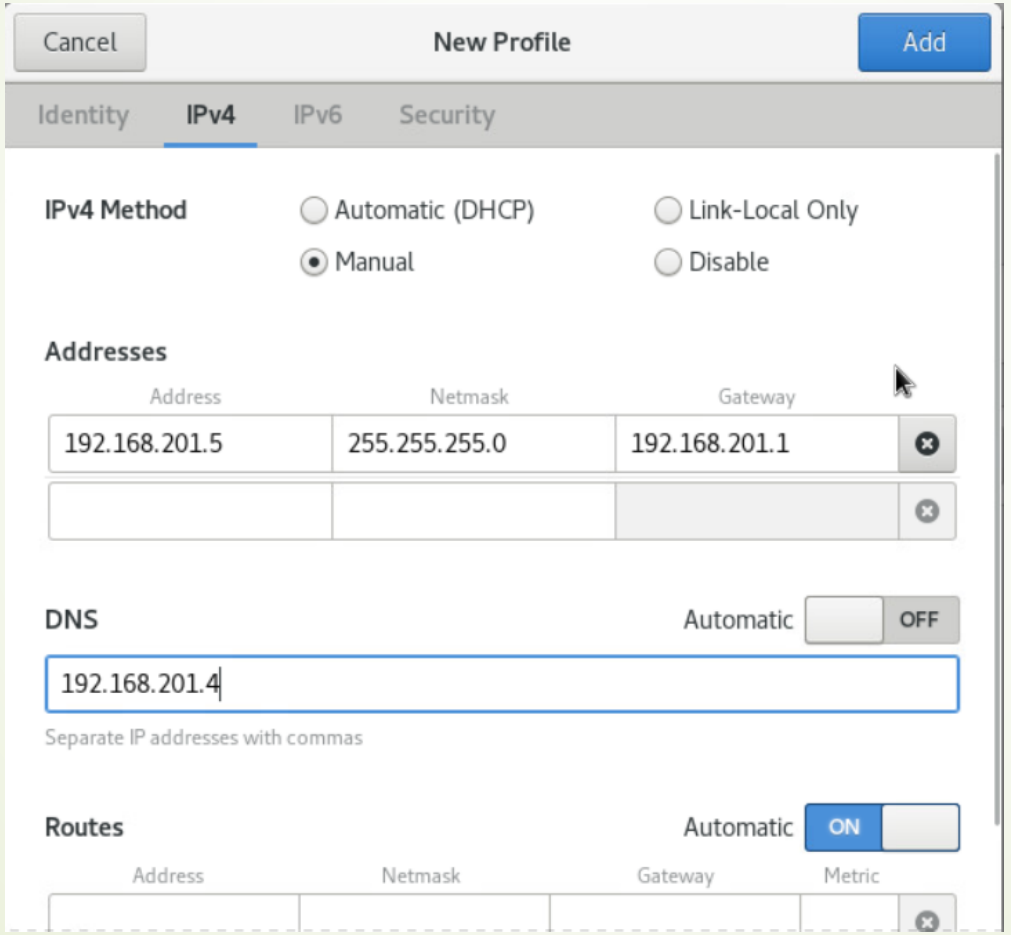
```
[cditto@T10-D-AL3 ~]$ sudo systemctl status cockpit
● cockpit.service - Cockpit Web Service
     Loaded: loaded (/usr/lib/systemd/system/cockpit.service; static; vendor pres>
     Active: active (running) since Fri 2024-02-16 19:39:06 CST; 8s ago
       Docs: man:cockpit-ws(8)
    Process: 532788 ExecStartPre=/usr/libexec/cockpit-certificate-ensure --for-co>
   Main PID: 532795 (cockpit-tls)
      Tasks: 1 (limit: 23500)
     Memory: 700.0K
     CGroup: /system.slice/cockpit.service
             └─532795 /usr/libexec/cockpit-tls

Feb 16 19:39:06 T10-D-AL3.localdomain systemd[1]: Starting Cockpit Web Service.>
Feb 16 19:39:06 T10-D-AL3.localdomain systemd[1]: Started Cockpit Web Service.
lines 1-12/12 (END)
```

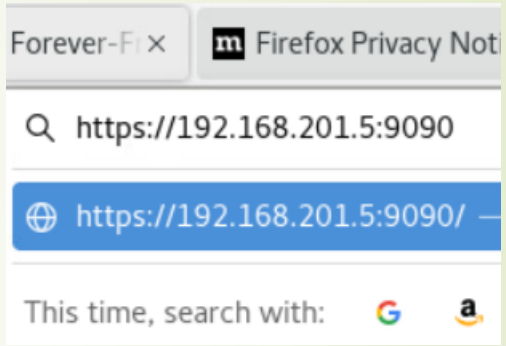
```
[cditto@T10-D-AL3 ~]$ sudo firewall-cmd --permanent --add-service=cockpit
```

```
[cditto@T10-D-AL3 ~]$ suso firewall-cmd --reload
```

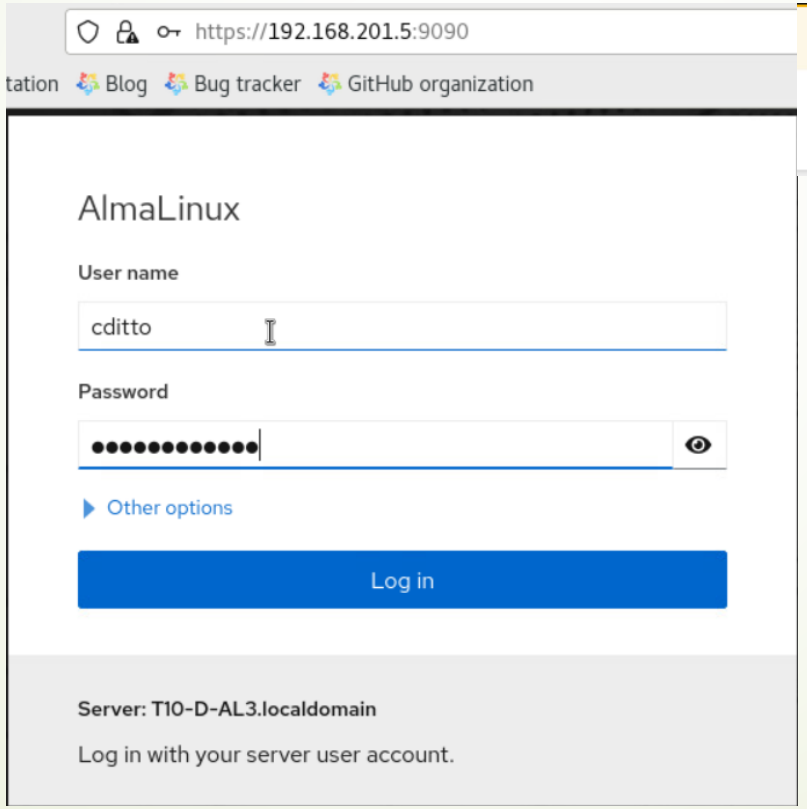
Install Cockpit

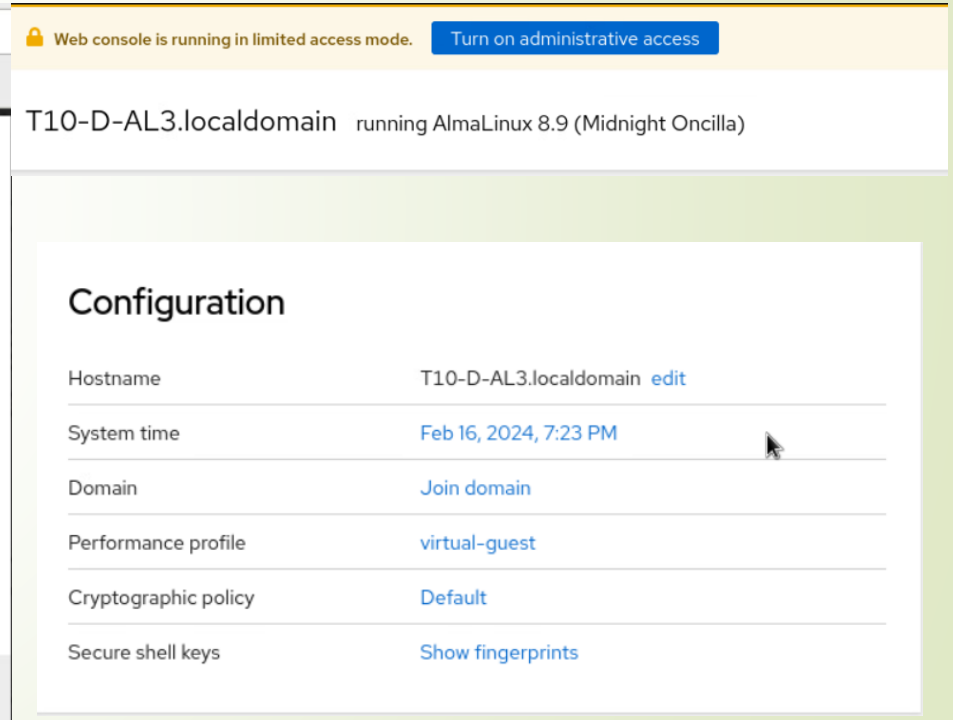
Install Cockpit



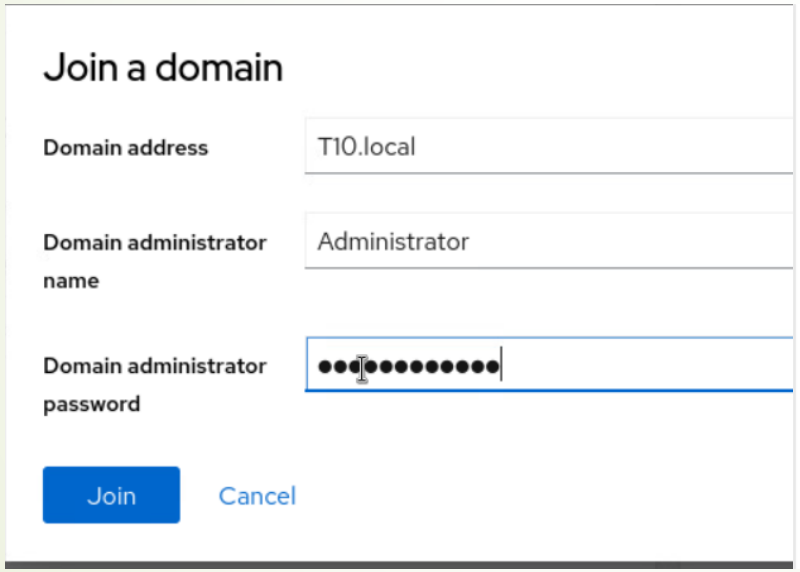


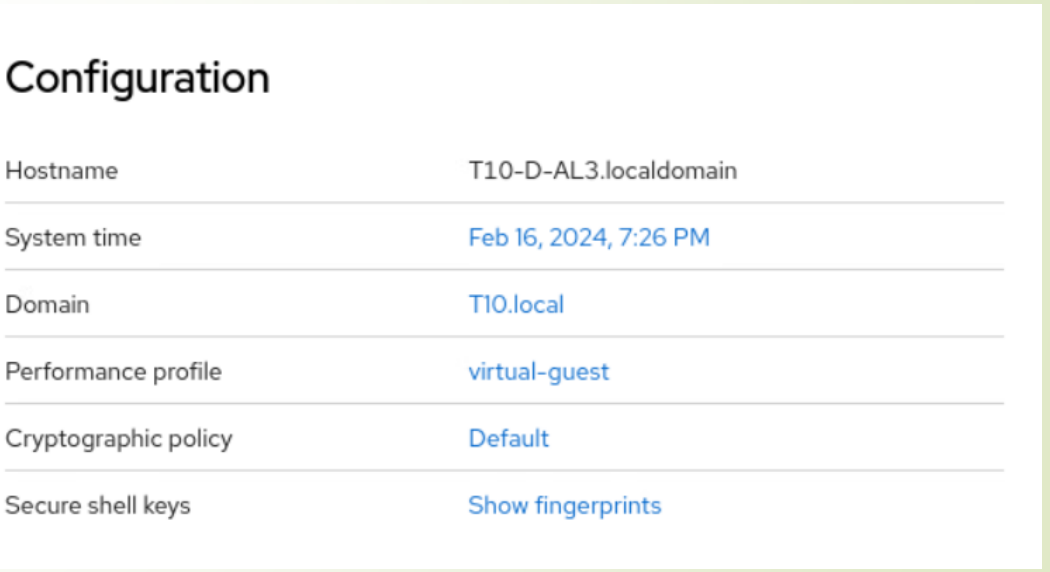
Install Cockpit





Install Cockpit





Install Cockpit

Active Directory Installation

Deploy an authoritative DNS server that resolves “localdomain” hostnames

Previous to this assignment the an installation of the Unbound proxy server was installed. To view the details of that installation please see M02 Task: Proxy services.

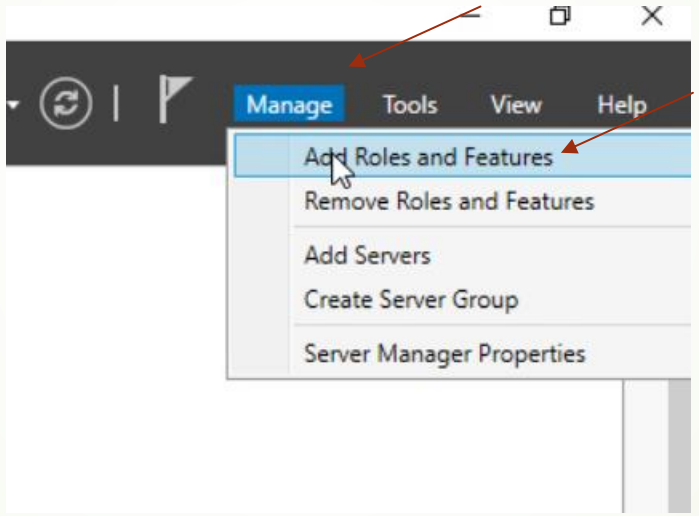
Check info on T10-D-AL2 Unbound proxy service

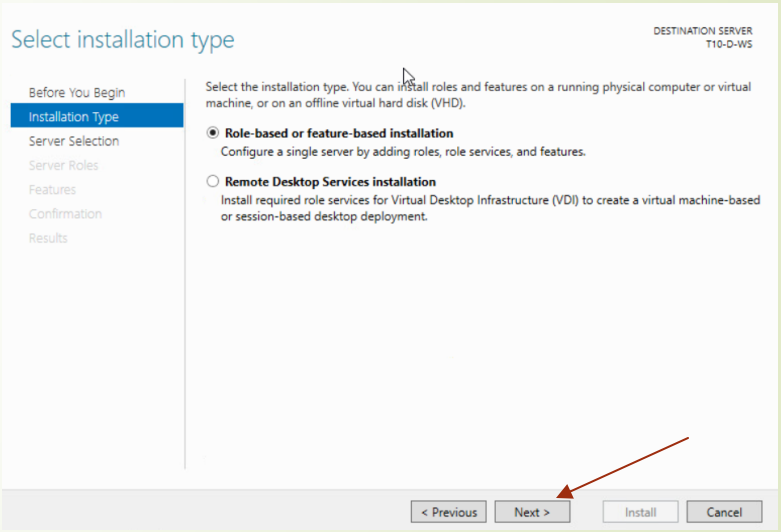
```
[cditto@T10-D-AL2 ~]$ sudo dnf info unbound
Last metadata expiration check: 0:05:05 ago on Mon 12 Feb 2024 12:43:34 PM CST.
Installed Packages
Name         : unbound
Version      : 1.16.2
Release      : 5.el8
Architecture : x86_64
Size         : 5.9 M
Source       : unbound-1.16.2-5.el8.src.rpm
Repository   : @System
From repo    : appstream
Summary      : Validating, recursive, and caching DNS(SEC) resolver
URL          : https://www.unbound.net/
License      : BSD
Description  : Unbound is a validating, recursive, and caching DNS(SEC)
             : resolver.
             :
             : The C implementation of Unbound is developed and maintained by
             : NLnet Labs. It is based on ideas and algorithms taken from a java
             : prototype developed by Verisign labs, Nominet, Kirei and ep.net.
             :
             : Unbound is designed as a set of modular components, so that also
             : DNSSEC (secure DNS) validation and stub-resolvers (that do not
             : run as a server, but are linked into an application) are easily
             : possible.
```

Check Unbound Status

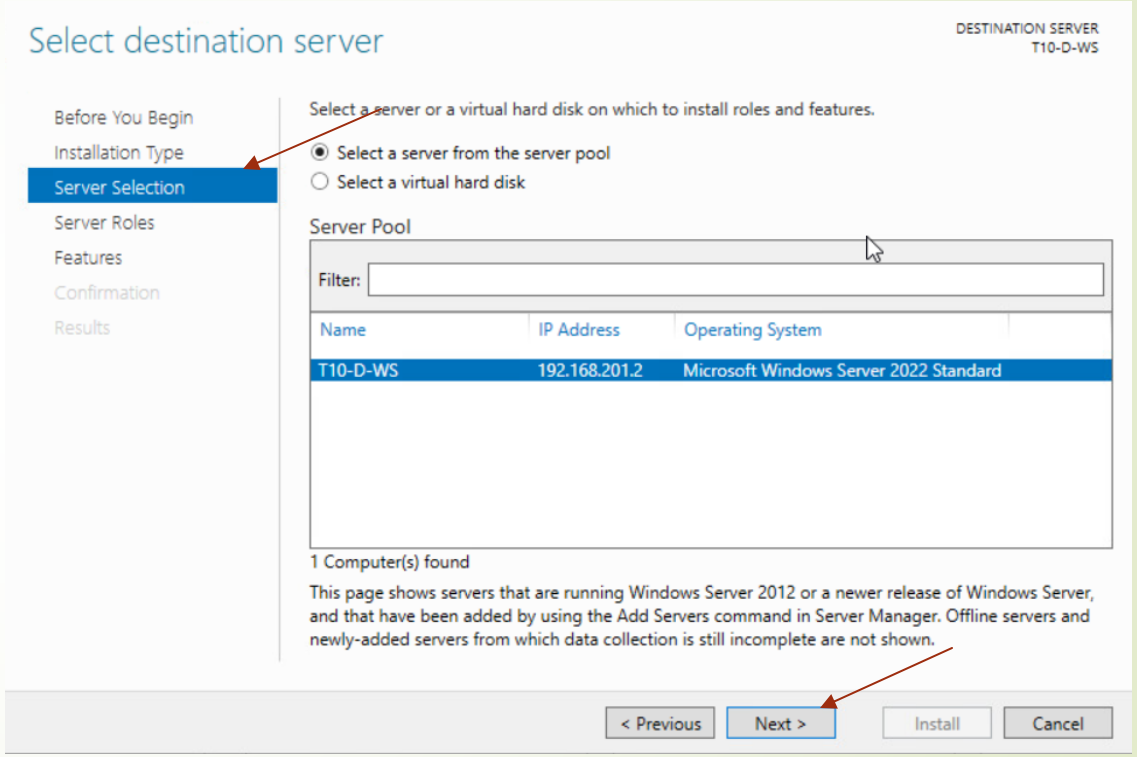
```
[cditto@T10-D-AL2 ~]$ sudo systemctl status unbound
[sudo] password for cditto:
● unbound.service - Unbound recursive Domain Name Server
   Loaded: loaded (/usr/lib/systemd/system/unbound.service; enabled; vendor preset: disabled)
   Active: active (running) since Tue 2024-02-06 18:12:48 CST; 5 days ago
  Process: 1111 ExecStartPre=/bin/bash -c if [ ! "$DISABLE_UNBOUND_ANCHOR" == "yes" ]; then /usr/sbin/unbound-anchor -a /var/lib/unbound/root.key -c /et>
  Process: 1086 ExecStartPre=/usr/sbin/unbound-checkconf (code=exited, status=0/SUCCESS)
 Main PID: 1115 (unbound)
    Tasks: 4 (limit: 23499)
   Memory: 12.8M
   CGroup: /system.slice/unbound.service
           └─1115 /usr/sbin/unbound -d

Feb 06 18:12:49 T10-D-AL2.localdomain unbound[1115]: [1115:0] notice: init module 1: validator
Feb 06 18:12:49 T10-D-AL2.localdomain unbound[1115]: [1115:0] notice: init module 2: iterator
Feb 06 18:12:49 T10-D-AL2.localdomain unbound[1115]: [1115:0] info: start of service (unbound 1.16.2).
Feb 06 19:27:00 T10-D-AL2.localdomain unbound[1115]: [1115:1] info: generate keytag query _ta-4f66. NULL IN
Feb 07 07:05:41 T10-D-AL2.localdomain unbound[1115]: [1115:1] info: generate keytag query _ta-4f66. NULL IN
Feb 08 06:26:14 T10-D-AL2.localdomain unbound[1115]: [1115:0] info: generate keytag query _ta-4f66. NULL IN
Feb 09 06:11:46 T10-D-AL2.localdomain unbound[1115]: [1115:0] info: generate keytag query _ta-4f66. NULL IN
Feb 10 06:00:51 T10-D-AL2.localdomain unbound[1115]: [1115:0] info: generate keytag query _ta-4f66. NULL IN
Feb 11 04:07:16 T10-D-AL2.localdomain unbound[1115]: [1115:0] info: generate keytag query _ta-4f66. NULL IN
Feb 12 03:09:50 T10-D-AL2.localdomain unbound[1115]: [1115:0] info: generate keytag query _ta-4f66. NULL IN
lines 1-21/21 (END)
```

Install & Configure DHCP

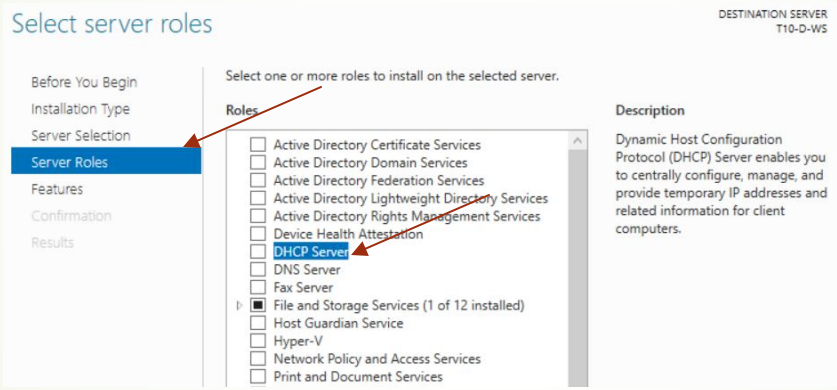


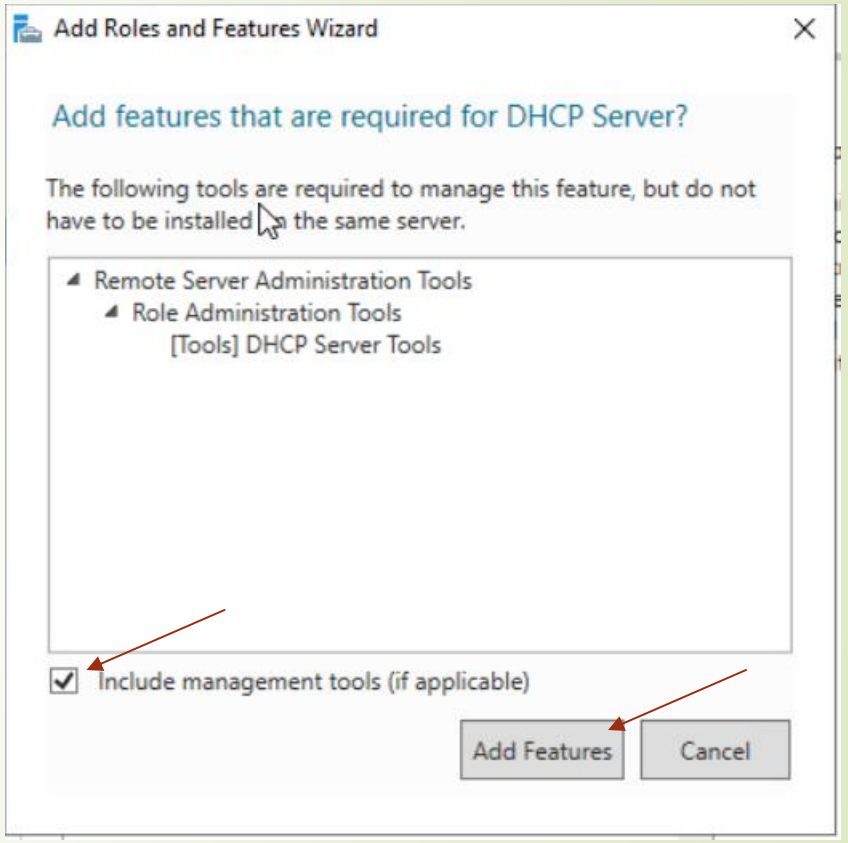


Install & Configure DHCP

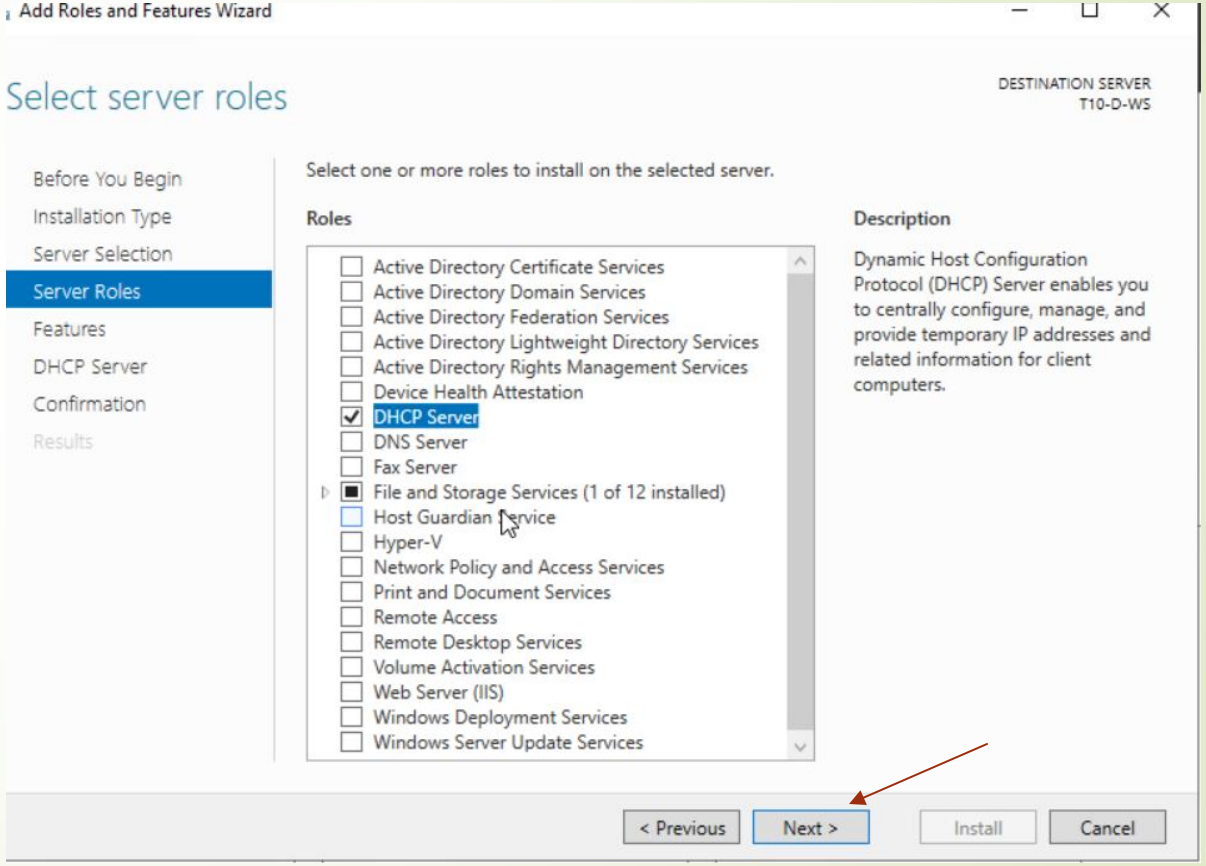


Install & Configure DHCP

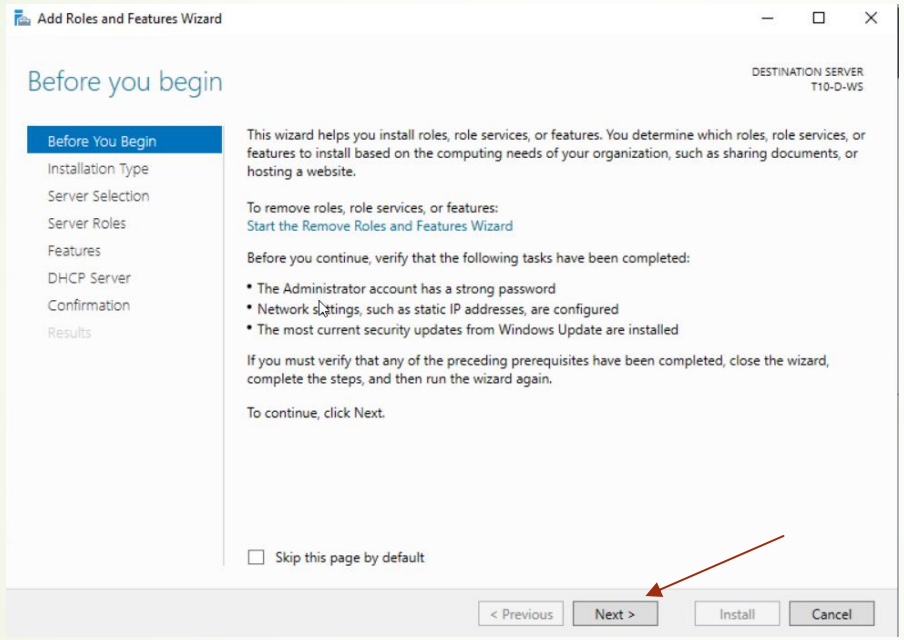


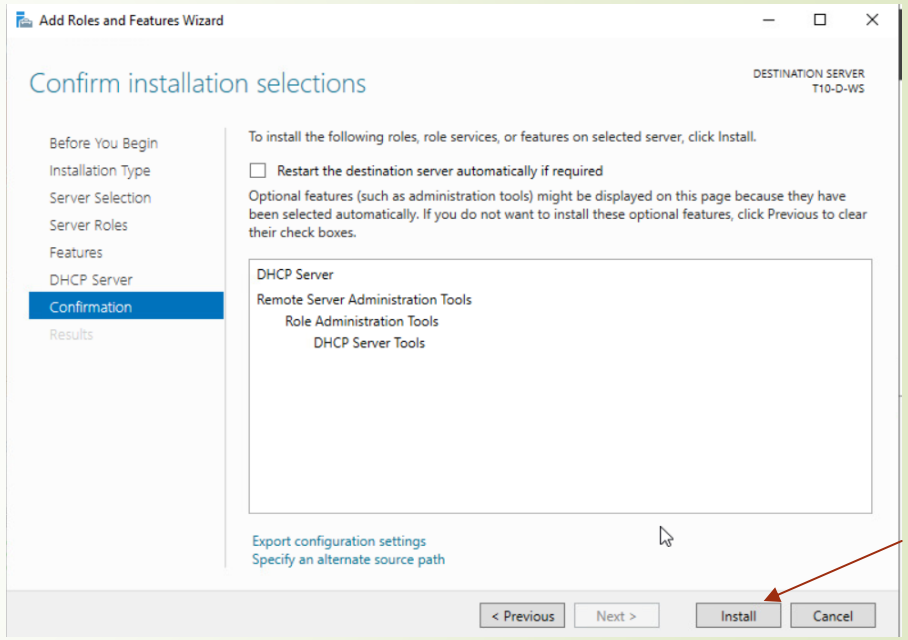


Install & Configure DHCP

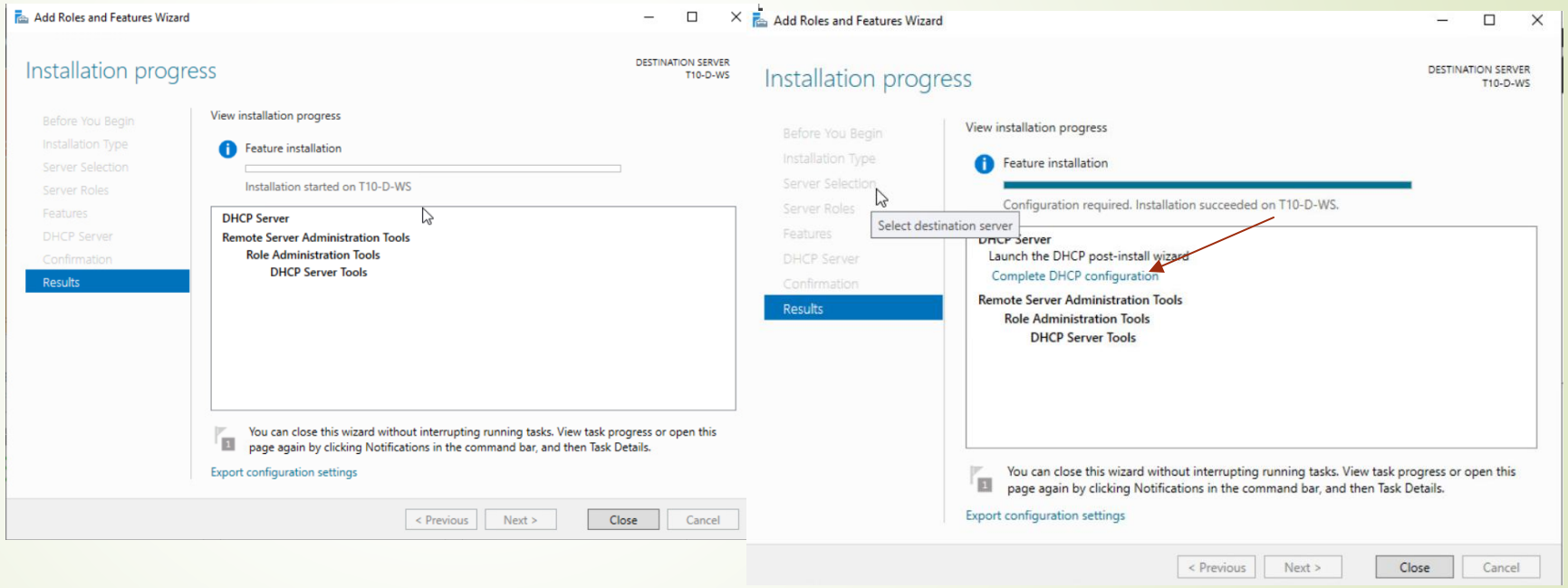


Install & Configure DHCP

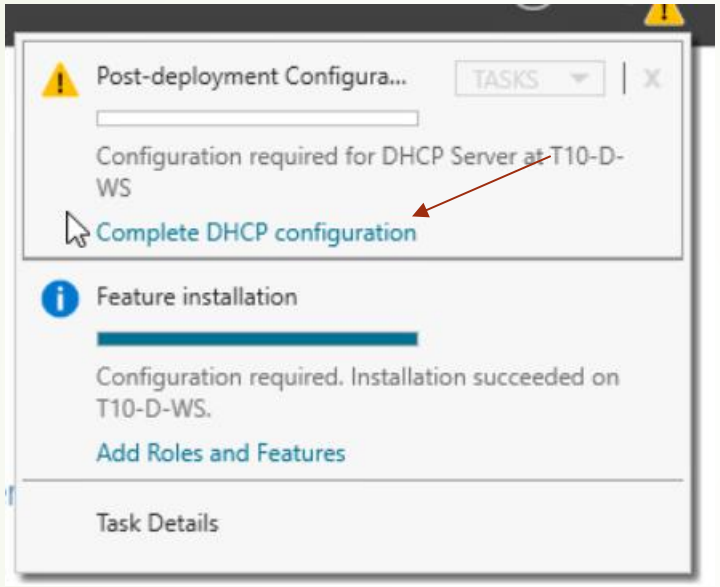


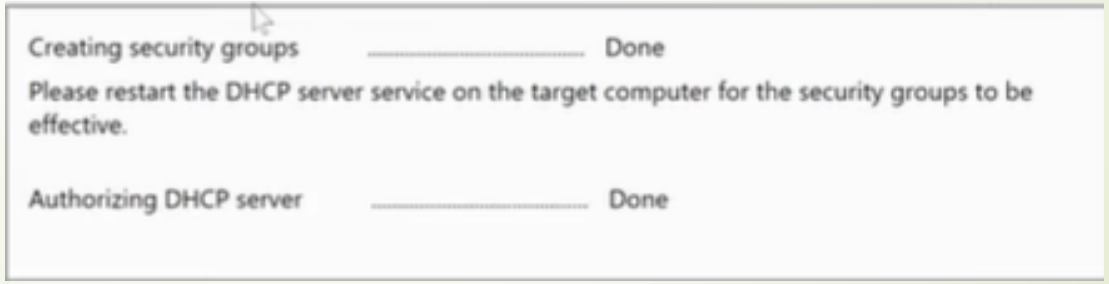


Install & Configure DHCP

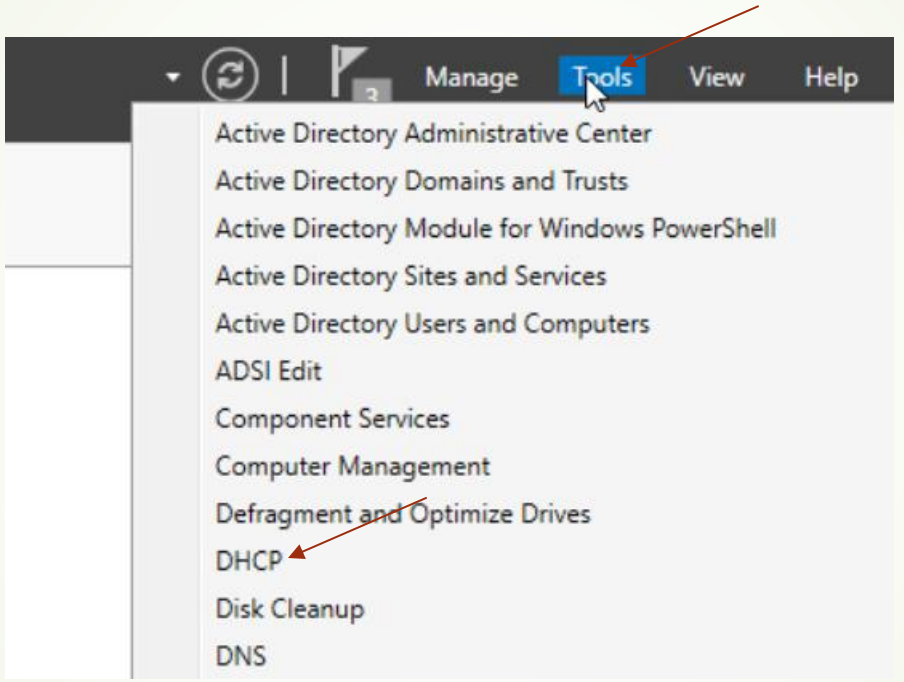


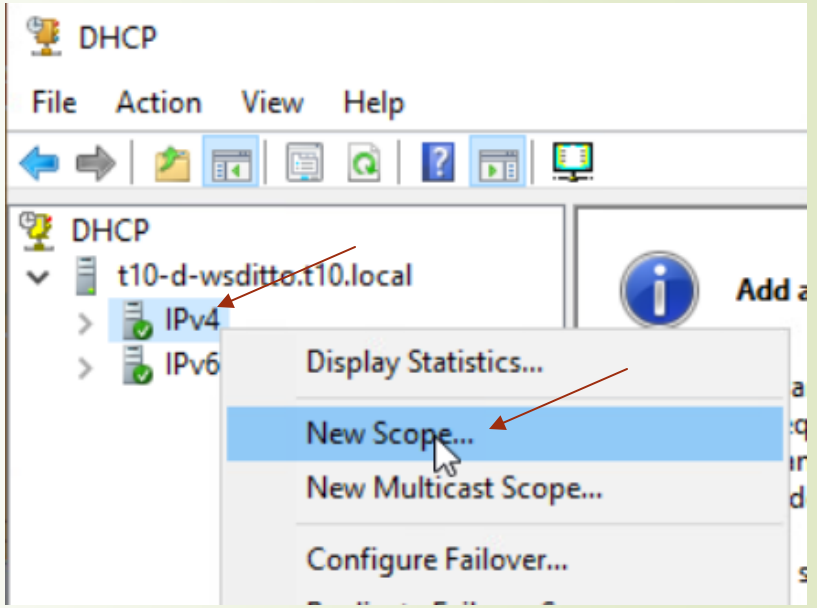
Install & Configure DHCP



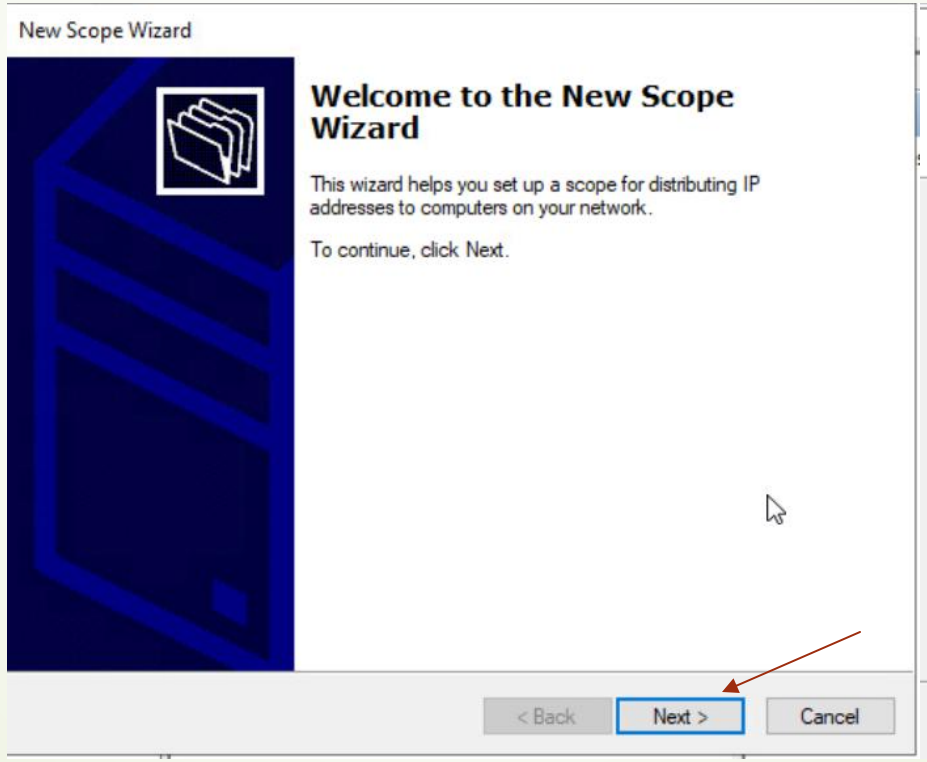


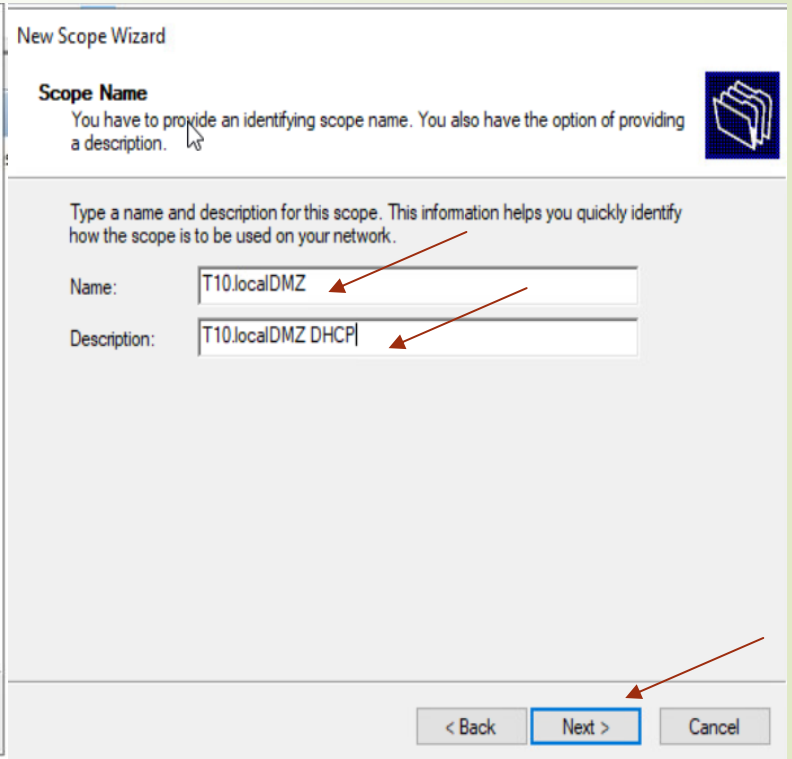
Install & Configure DHCP



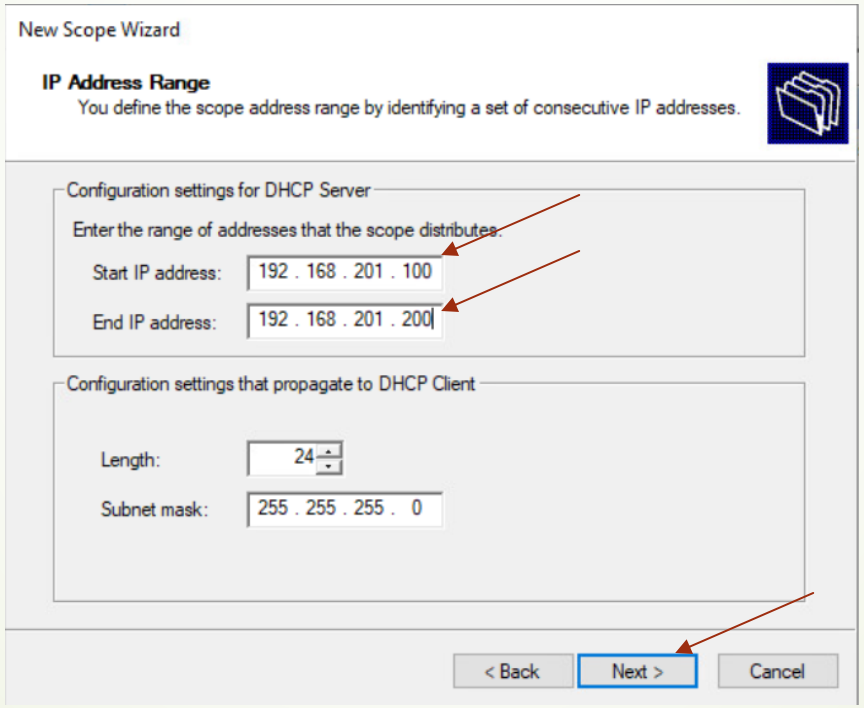


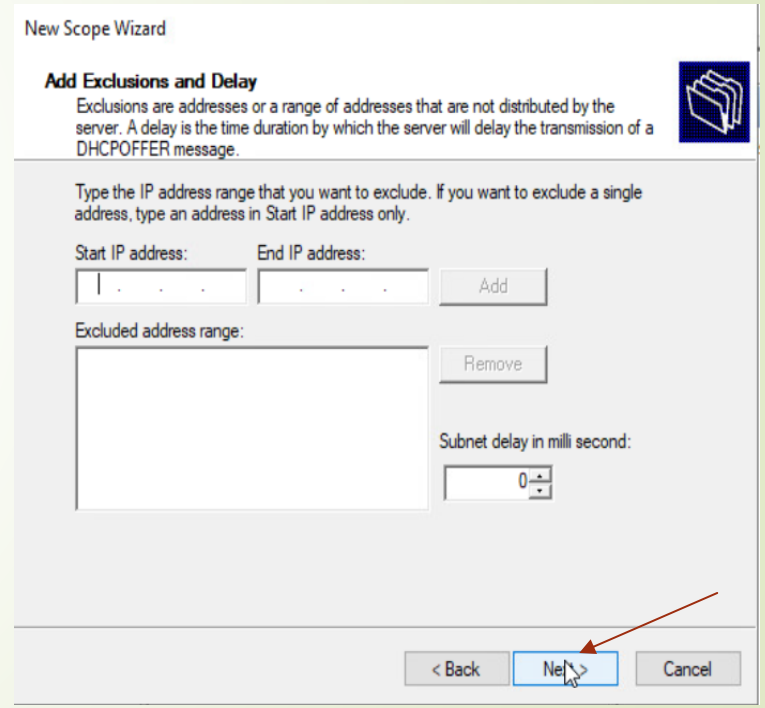
Install & Configure DHCP



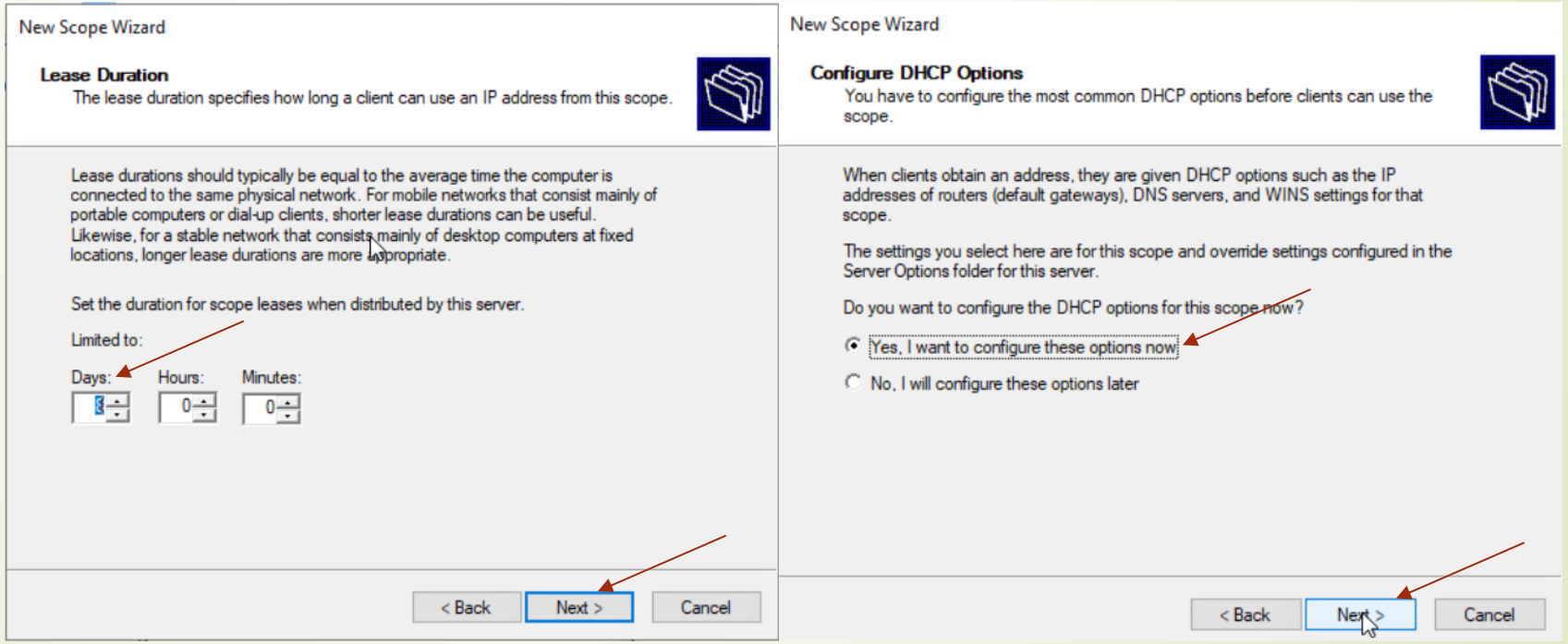


Install & Configure DHCP

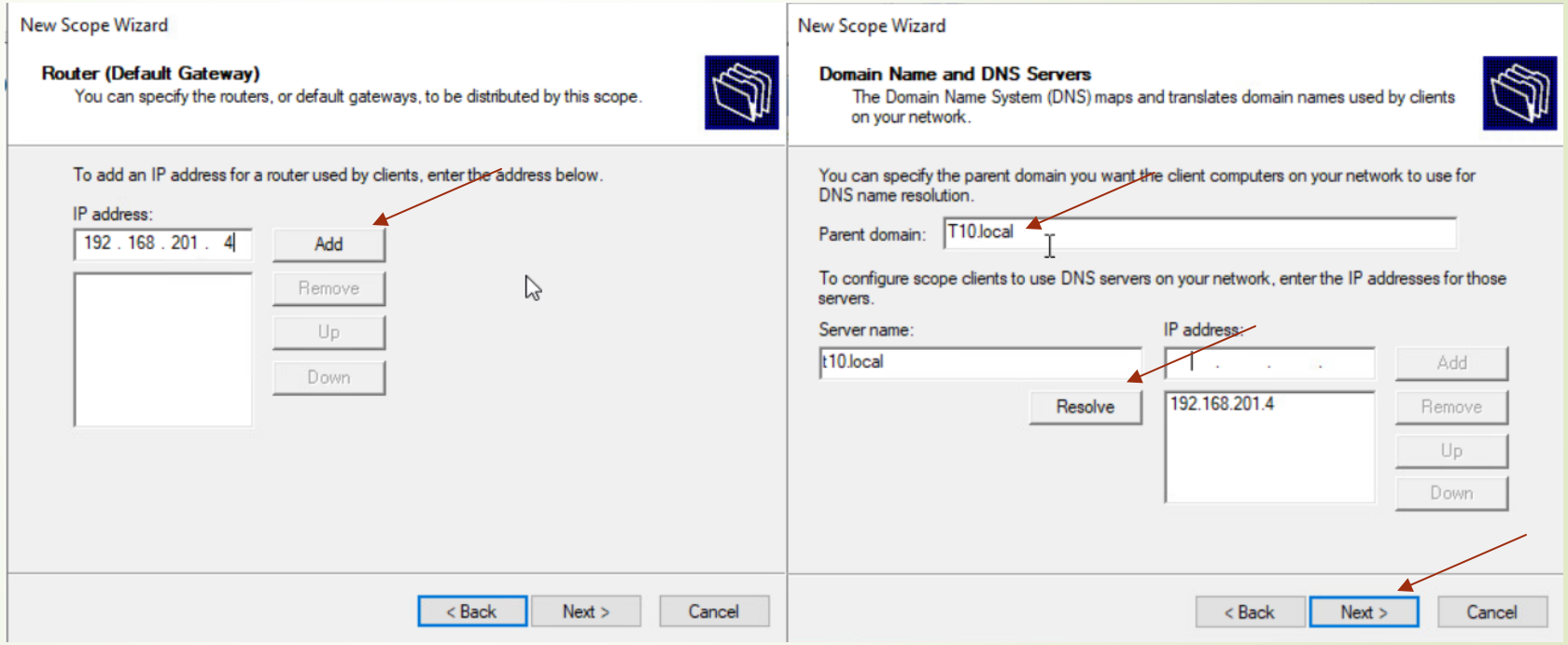




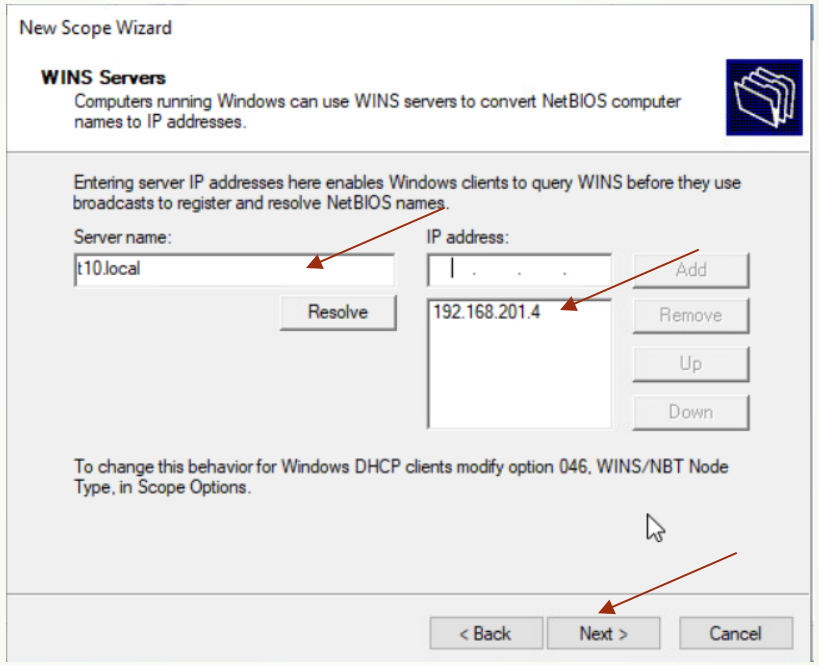
Install & Configure DHCP

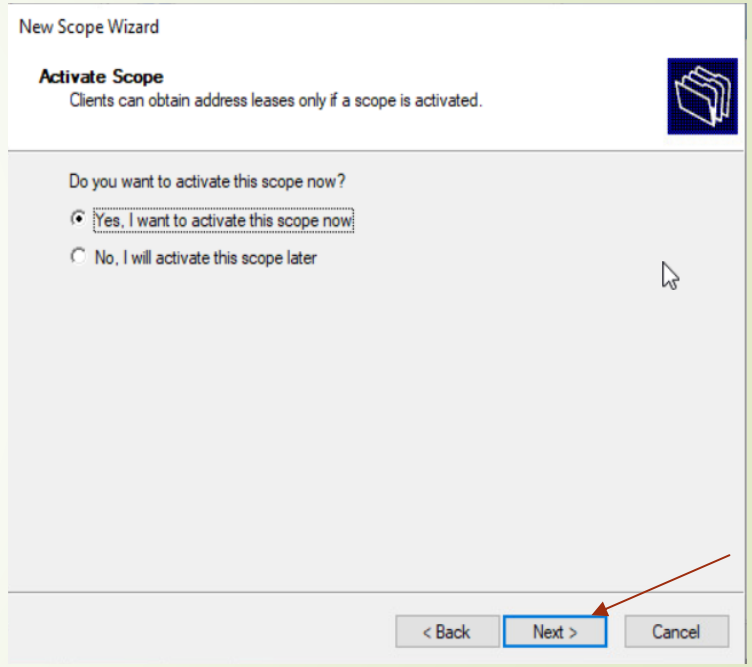


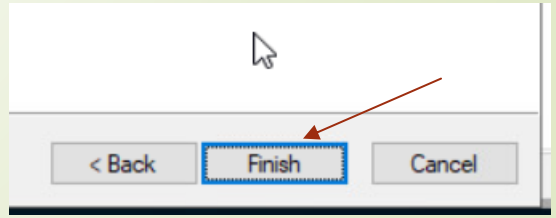
Install & Configure DHCP



Install & Configure DHCP







Install & Configure DHCP

Install & Configure DHCP

Install & Configure DHCP

Install & Configure DHCP