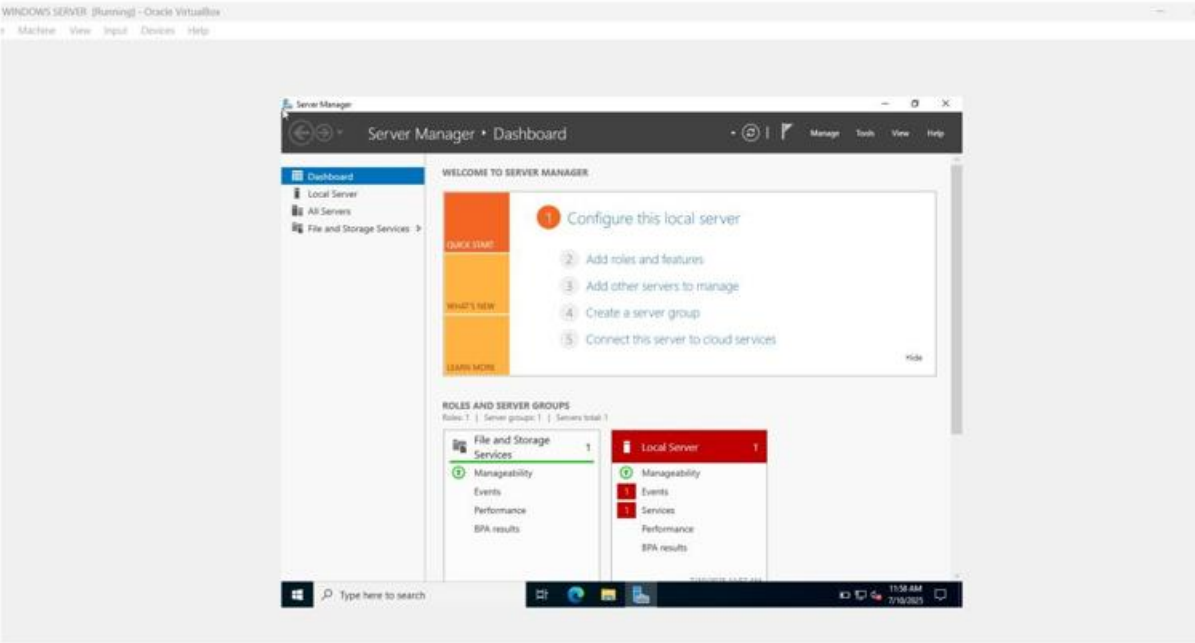
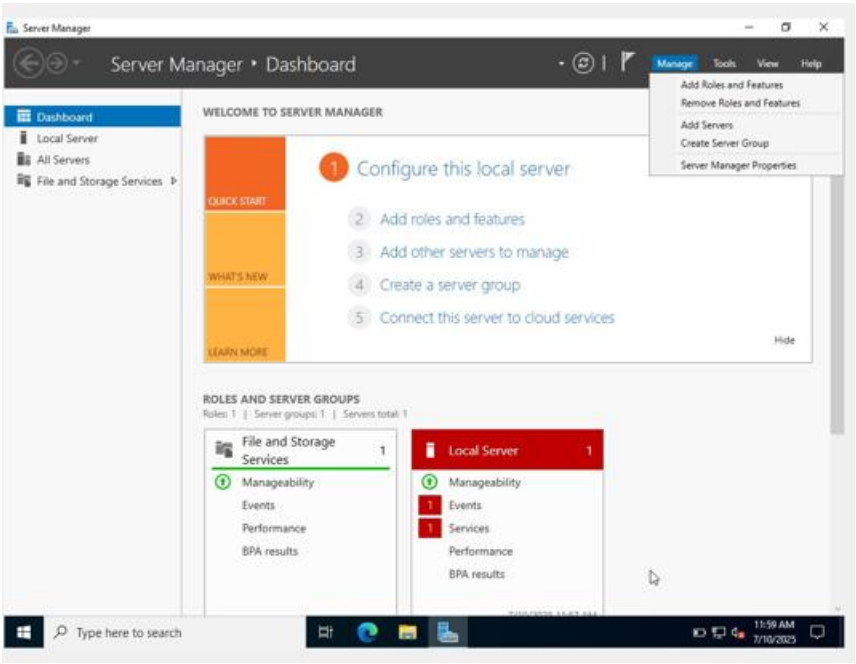
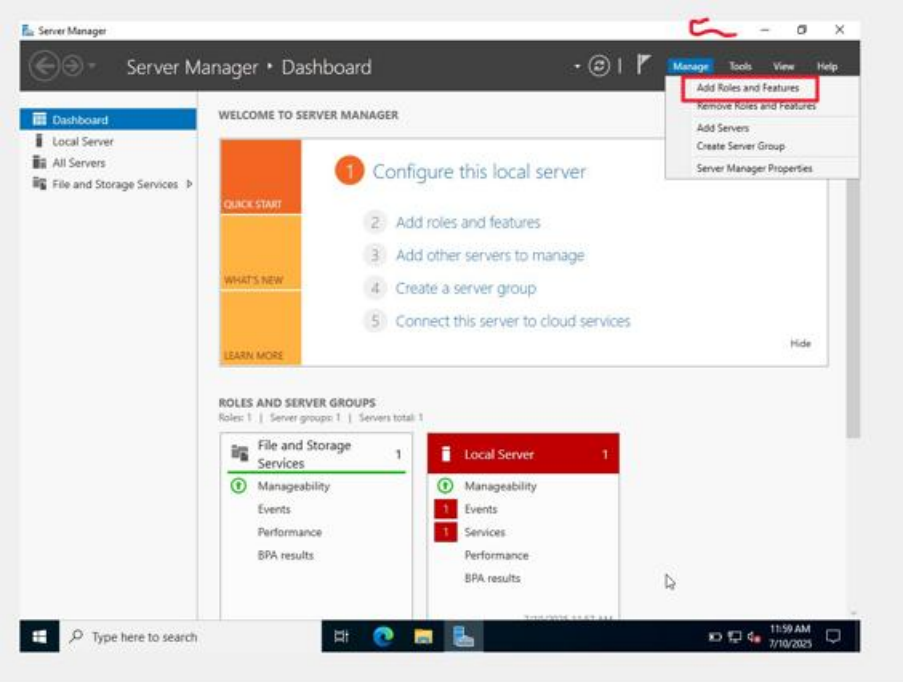
Active Directory (AD) Simulation

Step1. Launch Windows server






Server Manager
Server Manager • Dashboard
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Add Roles and Features
Remove Roles and Features
Add Servers
Create Server Group
Server Manager Properties
Dashboard
Local Server
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WELCOME TO SERVER MANAGER
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1 Configure this local server
2 Add roles and features
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5 Connect this server to cloud services
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ROLES AND SERVER GROUPS
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Local Server 1
Manageability
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Type here to search
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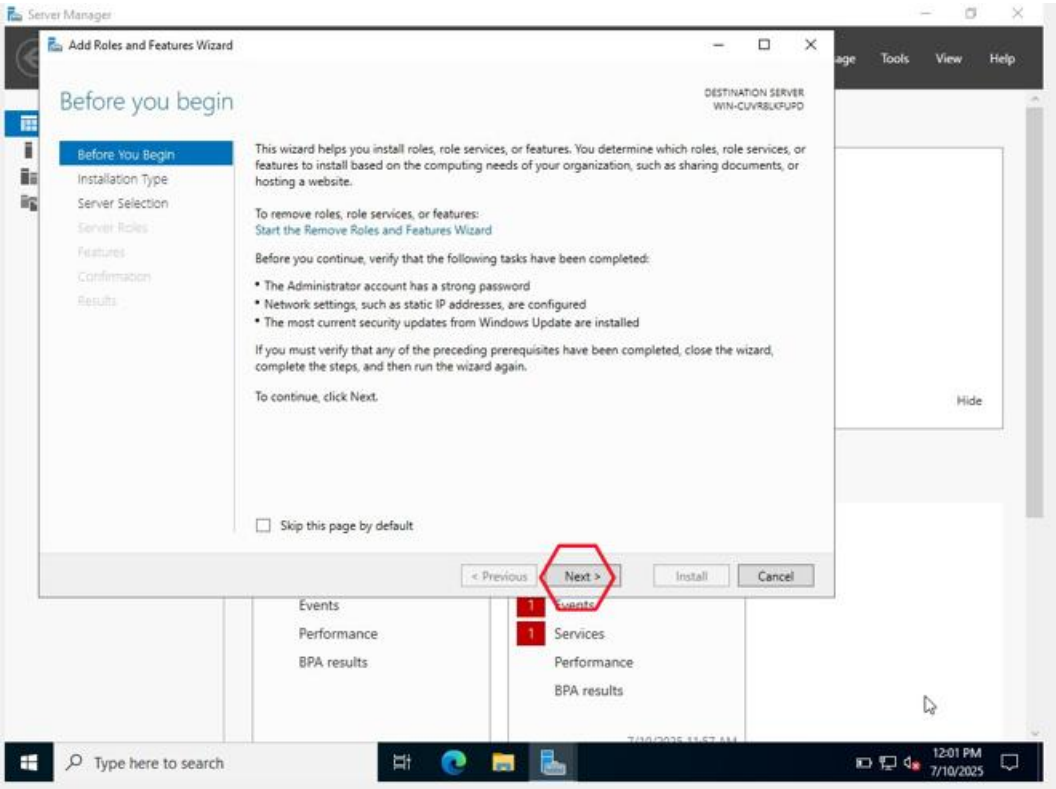
Server Manager
Add Roles and Features Wizard
Before you begin
DESTINATION SERVER
WIN-CUVR8LKFUPD
Before You Begin
Installation Type
Server Selection
Server Roles
Features
Confirmation
Results
This wizard helps you install roles, role services, or features. You determine which roles, role services, or features to install based on the computing needs of your organization, such as sharing documents, or hosting a website.
To remove roles, role services, or features:
Start the Remove Roles and Features Wizard
Before you continue, verify that the following tasks have been completed:
• The Administrator account has a strong password
• Network settings, such as static IP addresses, are configured
• The most current security updates from Windows Update are installed
If you must verify that any of the preceding prerequisites have been completed, close the wizard, complete the steps, and then run the wizard again.
To continue, click Next.
Skip this page by default
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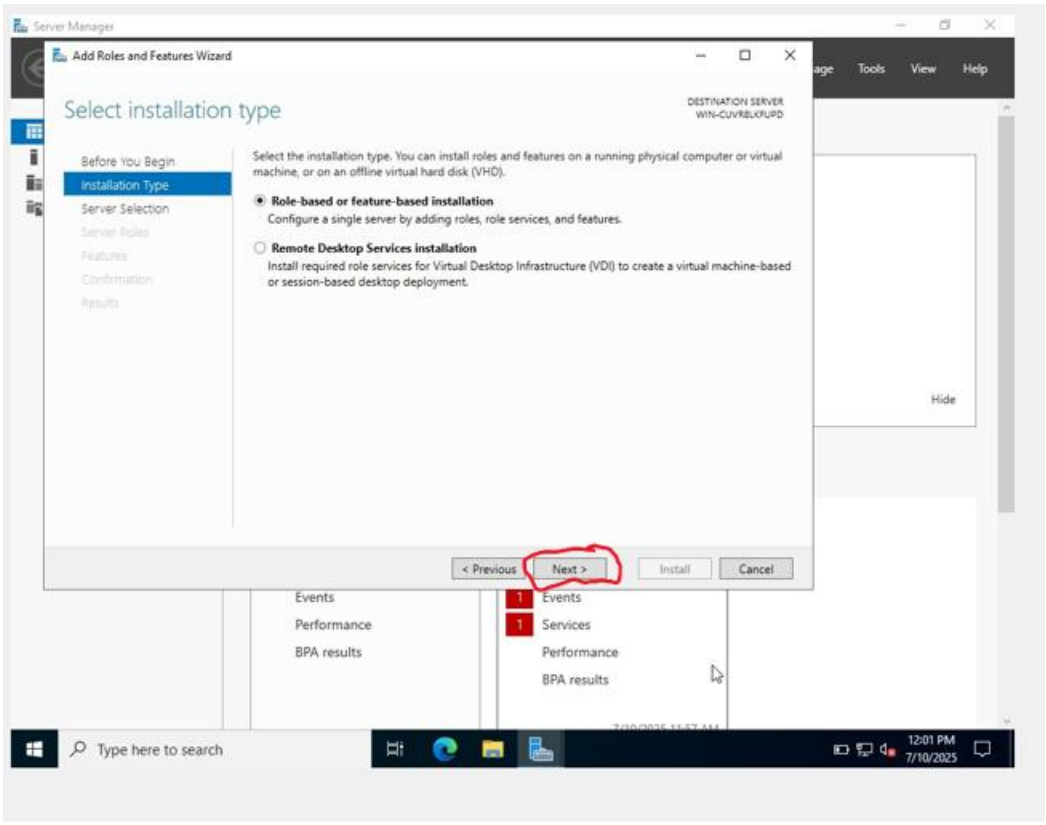
Server Manager
Add Roles and Features Wizard
Select installation type
DESTINATION SERVER
WIN-CUVRELKFUPD
Before You Begin
Installation Type
Server Selection
Server Roles
Features
Confirmation
Results
Select the installation type. You can install roles and features on a running physical computer or virtual machine, or on an offline virtual hard disk (VHD).
Role-based or feature-based installation
Configure a single server by adding roles, role services, and features.
Remote Desktop Services installation
Install required role services for Virtual Desktop Infrastructure (VDI) to create a virtual machine-based or session-based desktop deployment.
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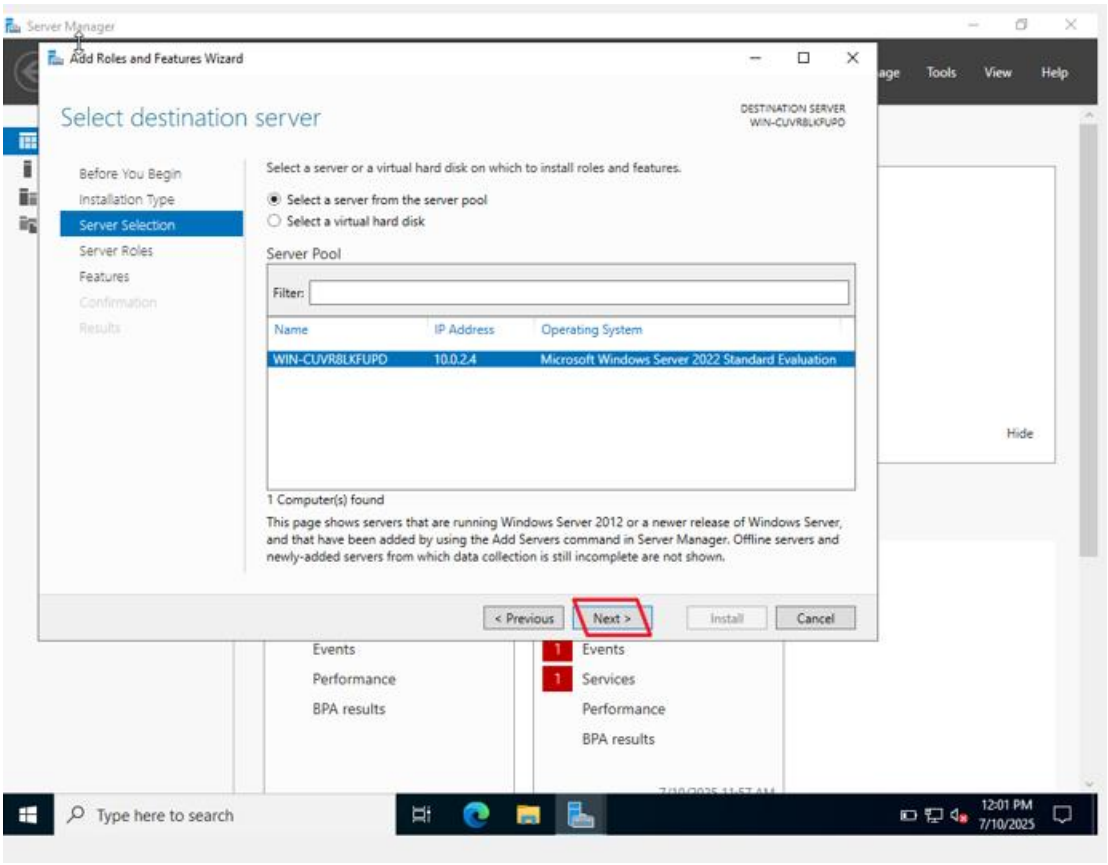
Server Manager
Add Roles and Features Wizard
Select destination server
DESTINATION SERVER
WIN-CUVR8LKFUPD
Before You Begin
Installation Type
Server Selection
Server Roles
Features
Confirmation
Results
Select a server or a virtual hard disk on which to install roles and features.
Select a server from the server pool
Select a virtual hard disk
Server Pool
Filter:
Name
IP Address
Operating System
WIN-CUVR8LKFUPD
10.0.2.4
Microsoft Windows Server 2022 Standard Evaluation
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.
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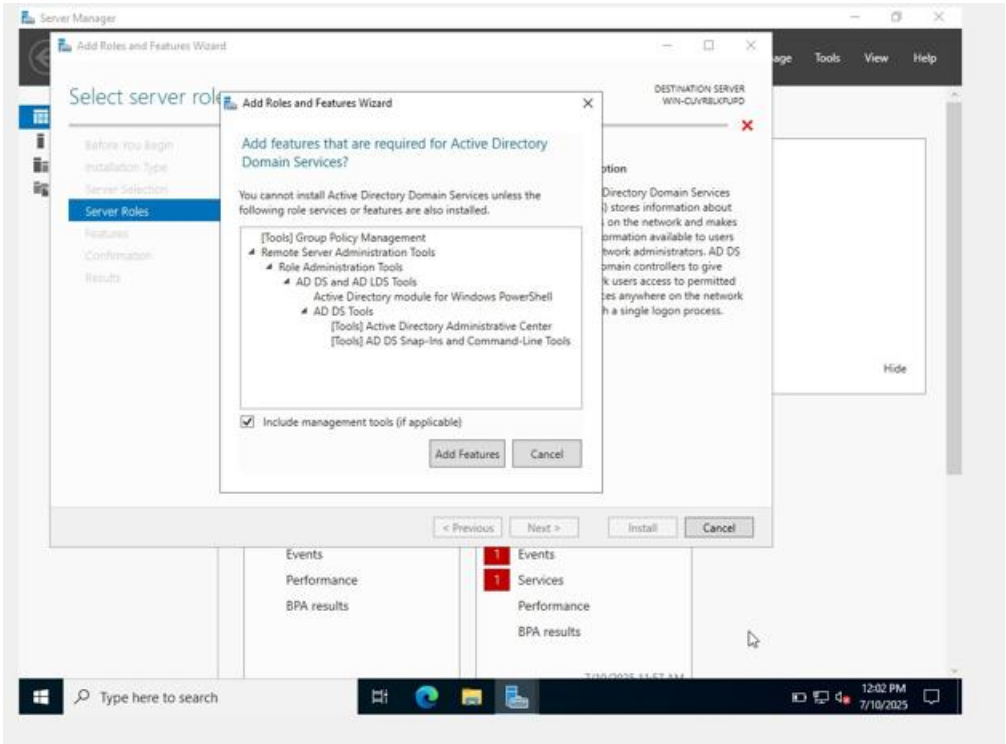
Server Manager
Add Roles and Features Wizard
Select server role
DESTINATION SERVER
WIN-CUVR8LKFUPD
Server Roles
Add Roles and Features Wizard
Add features that are required for Active Directory Domain Services?
You cannot install Active Directory Domain Services unless the following role services or features are also installed.
[Tools] Group Policy Management
Remote Server Administration Tools
Role Administration Tools
AD DS and AD LDS Tools
Active Directory module for Windows PowerShell
AD DS Tools
[Tools] Active Directory Administrative Center
[Tools] AD DS Snap-Ins and Command-Line Tools
Include management tools (if applicable)
Add Features
Cancel
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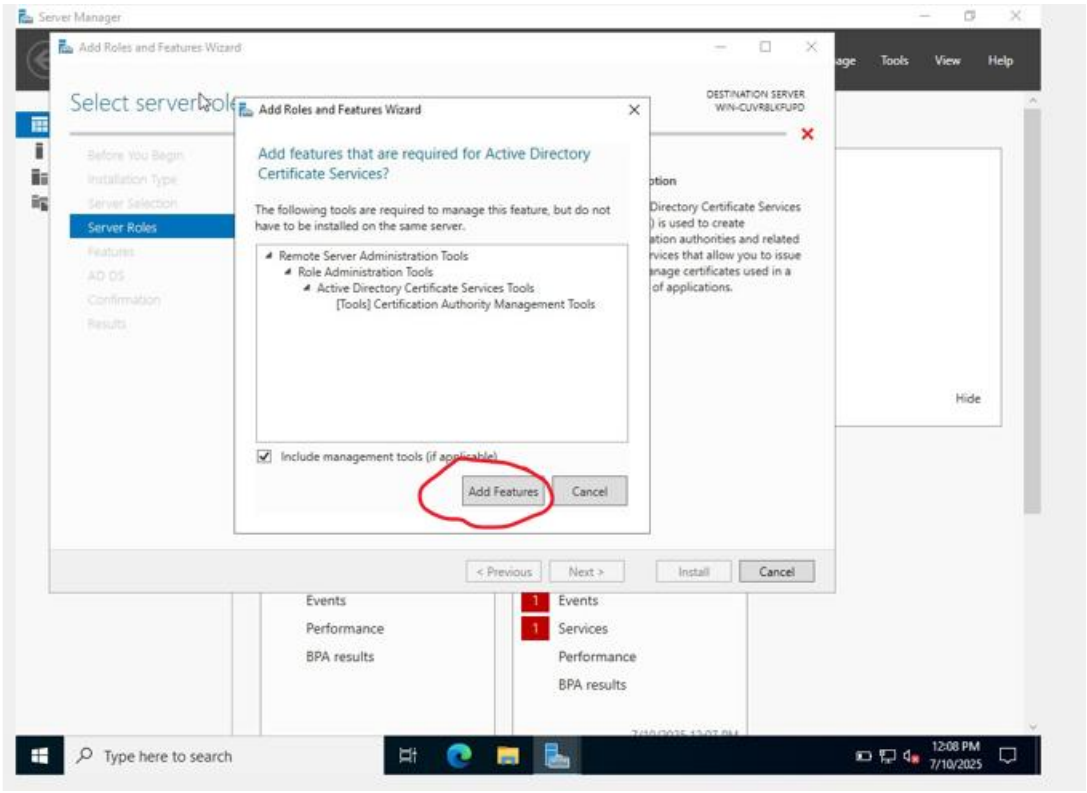
Server Manager
Add Roles and Features Wizard
Select server roles
DESTINATION SERVER
WIN-CUVR8LKFUPD
Add Roles and Features Wizard
Add features that are required for Active Directory Certificate Services?
The following tools are required to manage this feature, but do not have to be installed on the same server.
Remote Server Administration Tools
Role Administration Tools
Active Directory Certificate Services Tools
[Tools] Certification Authority Management Tools
Include management tools (if applicable)
Add Features
Cancel
Before You Begin
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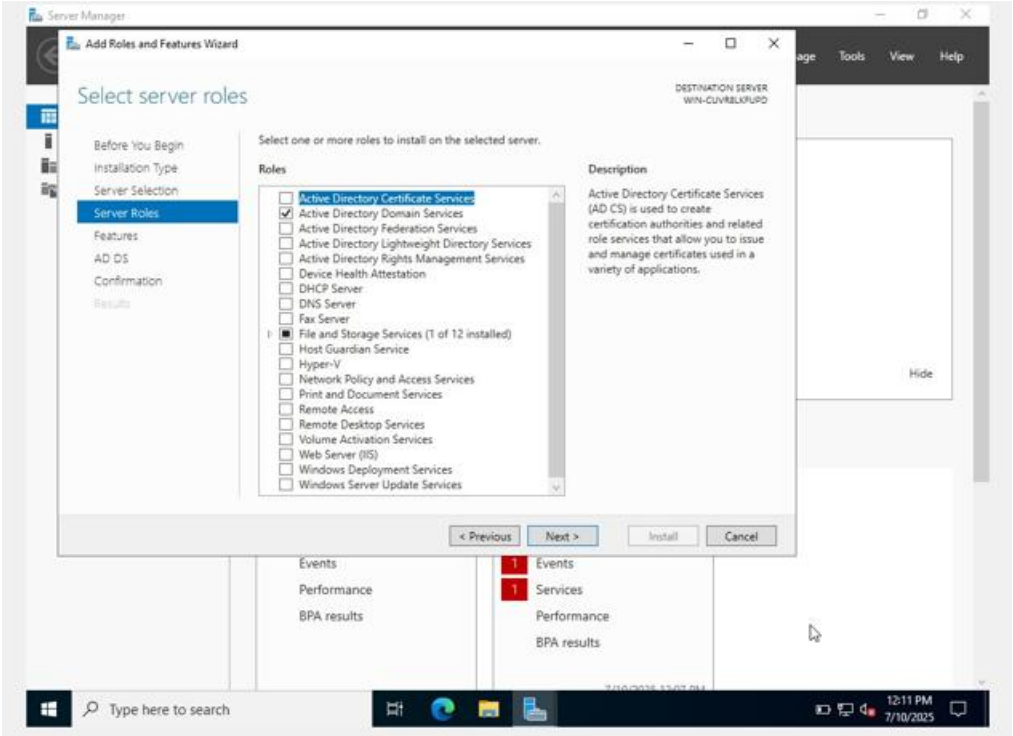
Server Manager
Add Roles and Features Wizard
Select server roles
DESTINATION SERVER
WIN-CUVR8LKFUPD
Before You Begin
Installation Type
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Results
Select one or more roles to install on the selected server.
Roles
Active Directory Certificate Services
Active Directory Domain Services
Active Directory Federation Services
Active Directory Lightweight Directory Services
Active Directory Rights Management Services
Device Health Attestation
DHCP Server
DNS Server
Fax Server
File and Storage Services (1 of 12 installed)
Host Guardian Service
Hyper-V
Network Policy and Access Services
Print and Document Services
Remote Access
Remote Desktop Services
Volume Activation Services
Web Server (IIS)
Windows Deployment Services
Windows Server Update Services
Description
Active Directory Certificate Services (AD CS) is used to create certification authorities and related role services that allow you to issue and manage certificates used in a variety of applications.
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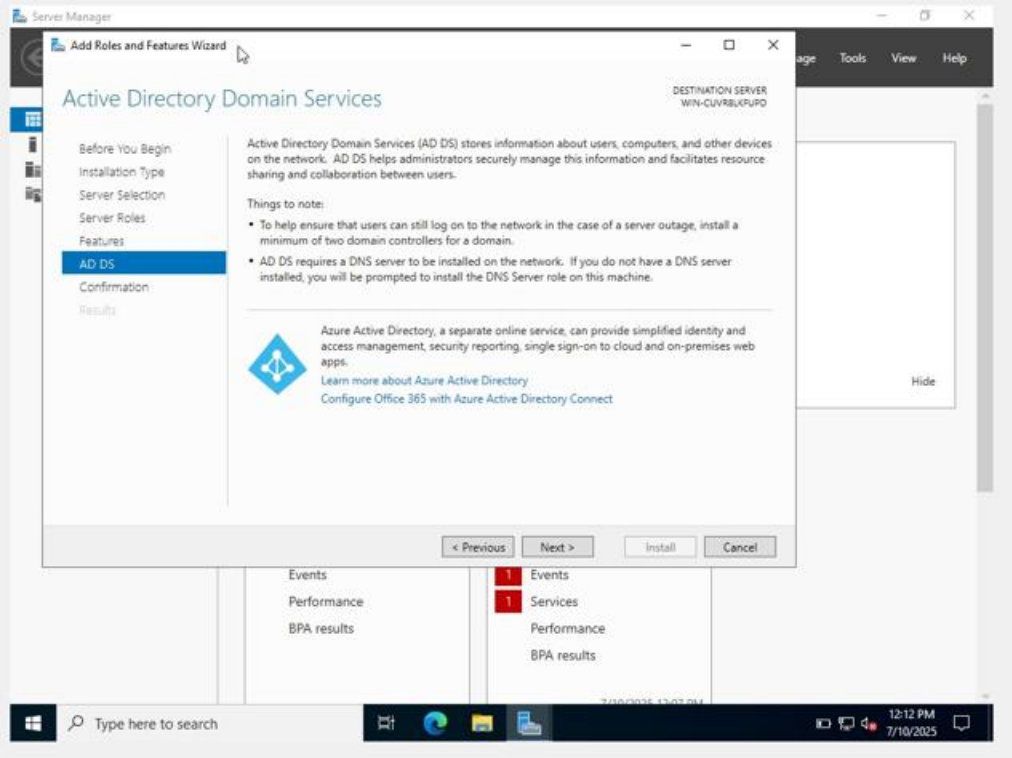
Server Manager
Add Roles and Features Wizard
Active Directory Domain Services
DESTINATION SERVER
WIN-CUVR8LKFUPD
Before You Begin
Installation Type
Server Selection
Server Roles
Features
AD DS
Confirmation
Results
Active Directory Domain Services (AD DS) stores information about users, computers, and other devices on the network. AD DS helps administrators securely manage this information and facilitates resource sharing and collaboration between users.
Things to note:
• To help ensure that users can still log on to the network in the case of a server outage, install a minimum of two domain controllers for a domain.
• AD DS requires a DNS server to be installed on the network. If you do not have a DNS server installed, you will be prompted to install the DNS Server role on this machine.
Azure Active Directory, a separate online service, can provide simplified identity and access management, security reporting, single sign-on to cloud and on-premises web apps.
Learn more about Azure Active Directory
Configure Office 365 with Azure Active Directory Connect
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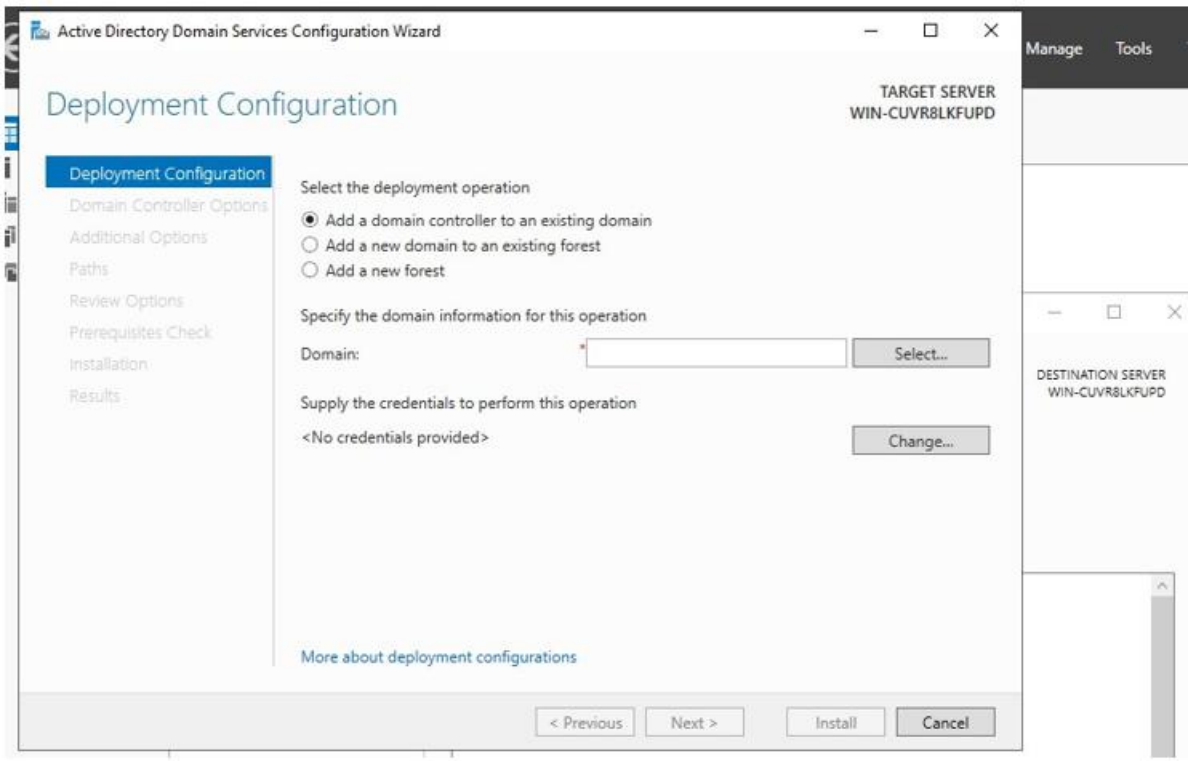
Active Directory Domain Services Configuration Wizard
Deployment Configuration
TARGET SERVER
WIN-CUVR8LKFUPD
Deployment Configuration
Domain Controller Options
Additional Options
Paths
Review Options
Prerequisites Check
Installation
Results
Select the deployment operation
Add a domain controller to an existing domain
Add a new domain to an existing forest
Add a new forest
Specify the domain information for this operation
Domain:
Select...
Supply the credentials to perform this operation
<No credentials provided>
Change...
More about deployment configurations
< Previous
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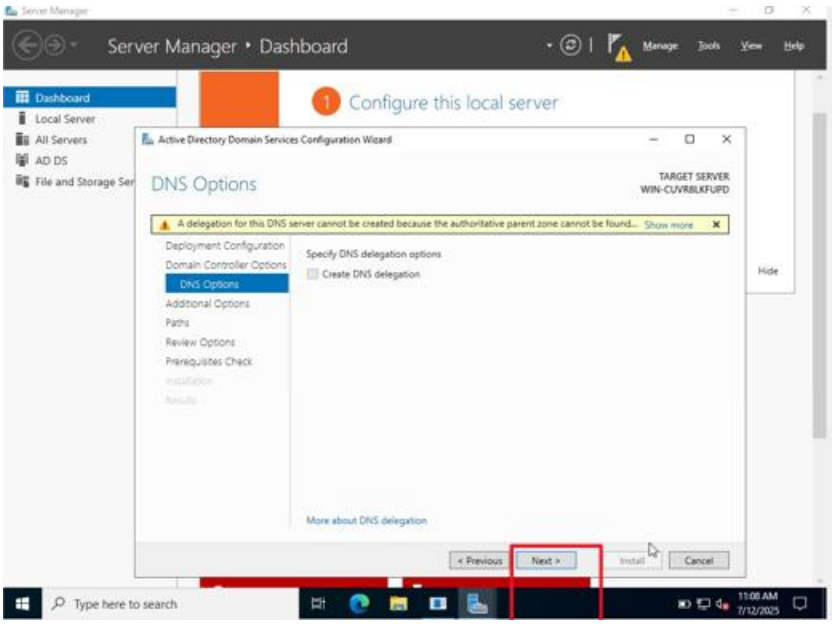
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Configure this local server
Active Directory Domain Services Configuration Wizard
DNS Options
TARGET SERVER
WIN-CUVRBLKFUPD
A delegation for this DNS server cannot be created because the authoritative parent zone cannot be found... Show more
Deployment Configuration
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DNS Options
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Specify DNS delegation options
Create DNS delegation
More about DNS delegation
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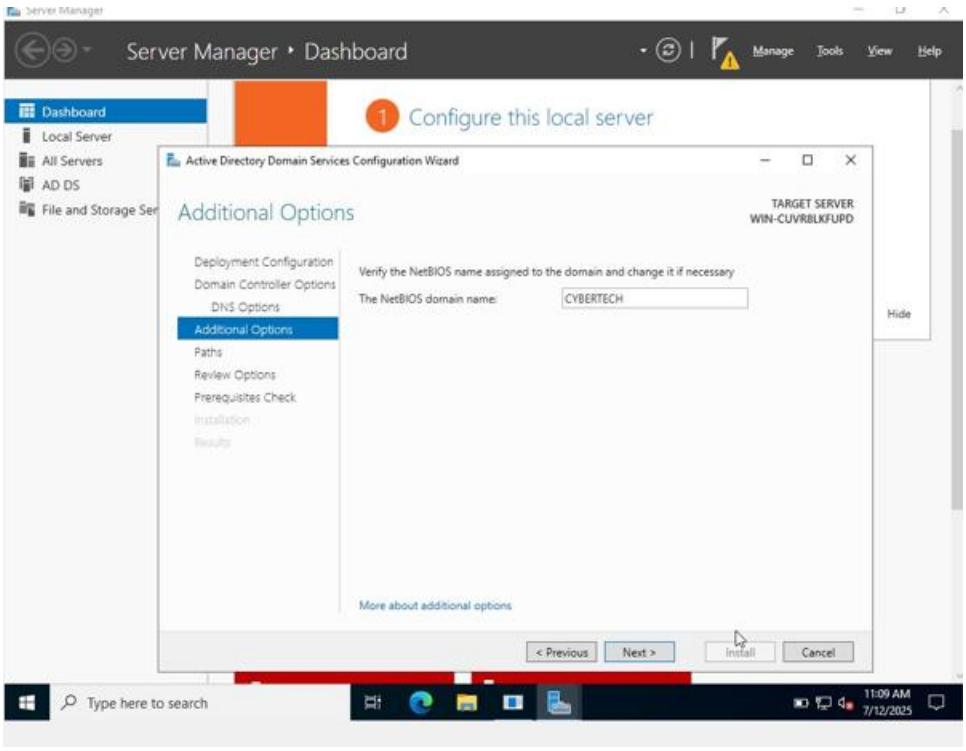
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Verify the NetBIOS name assigned to the domain and change it if necessary
The NetBIOS domain name:
CYBERTECH
More about additional options
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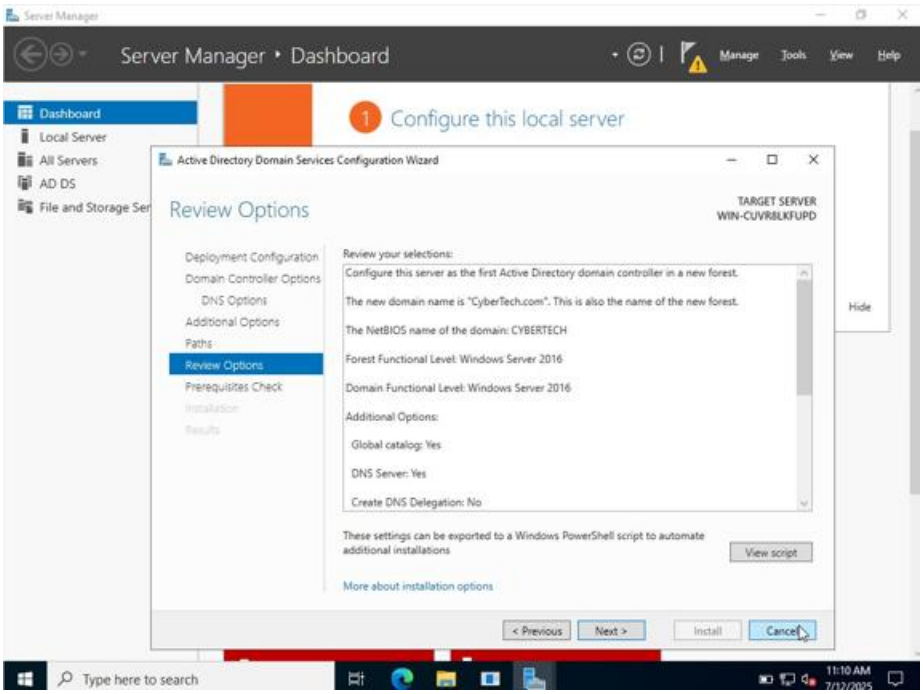
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Review Options
Prerequisites Check
Installation
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Review your selections:
Configure this server as the first Active Directory domain controller in a new forest.
The new domain name is "CyberTech.com". This is also the name of the new forest.
The NetBIOS name of the domain: CYBERTECH
Forest Functional Level: Windows Server 2016
Domain Functional Level: Windows Server 2016
Additional Options:
Global catalog: Yes
DNS Server: Yes
Create DNS Delegation: No
These settings can be exported to a Windows PowerShell script to automate additional installations
View script
More about installation options
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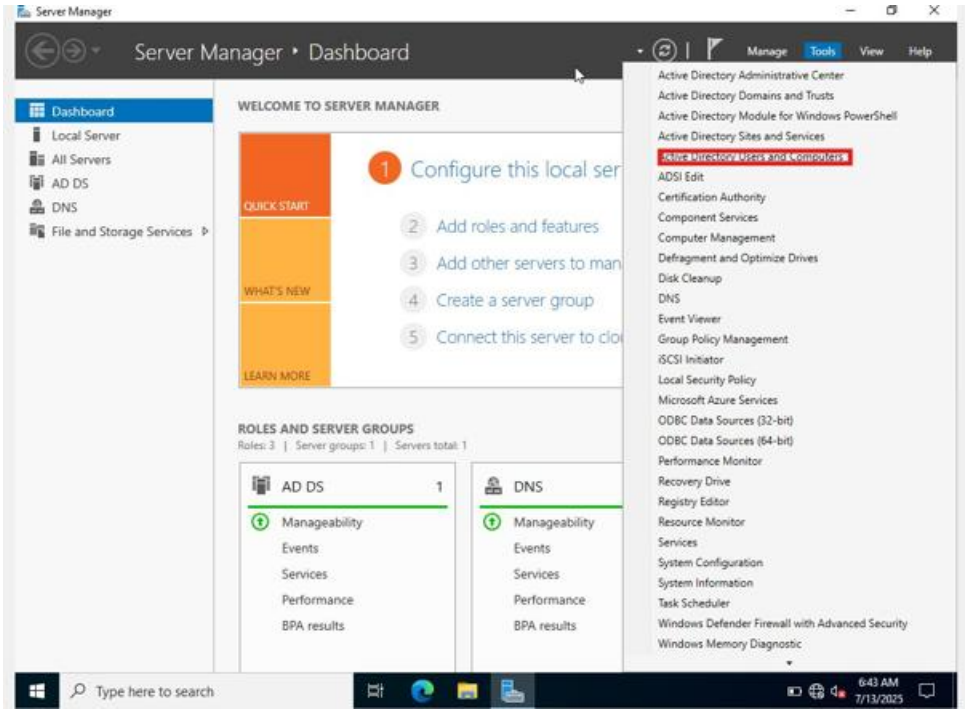
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ROLES AND SERVER GROUPS
Roles: 3 | Server groups: 1 | Servers total: 1
AD DS
1
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Active Directory Administrative Center
Active Directory Domains and Trusts
Active Directory Module for Windows PowerShell
Active Directory Sites and Services
Active Directory Users and Computers
ADSI Edit
Certification Authority
Component Services
Computer Management
Defragment and Optimize Drives
Disk Cleanup
DNS
Event Viewer
Group Policy Management
iSCSI Initiator
Local Security Policy
Microsoft Azure Services
ODBC Data Sources (32-bit)
ODBC Data Sources (64-bit)
Performance Monitor
Recovery Drive
Registry Editor
Resource Monitor
Services
System Configuration
System Information
Task Scheduler
Windows Defender Firewall with Advanced Security
Windows Memory Diagnostic
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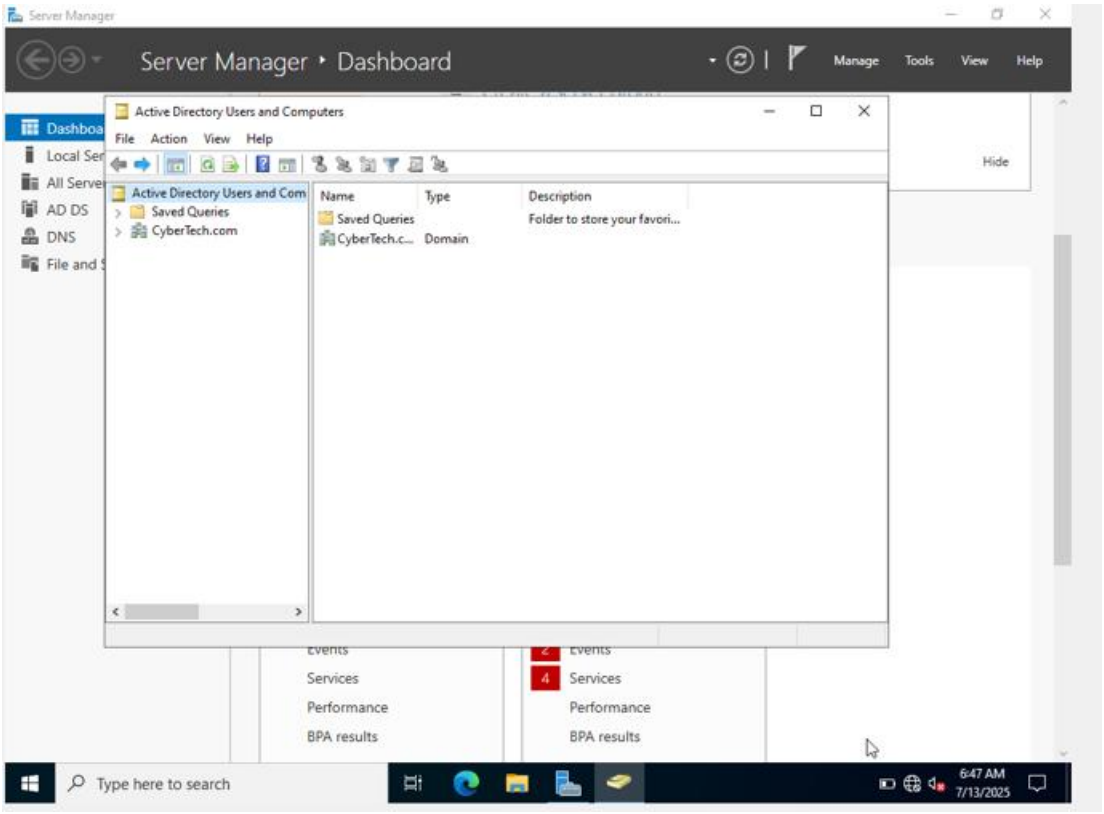
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Name
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Description
Saved Queries
Folder to store your favori...
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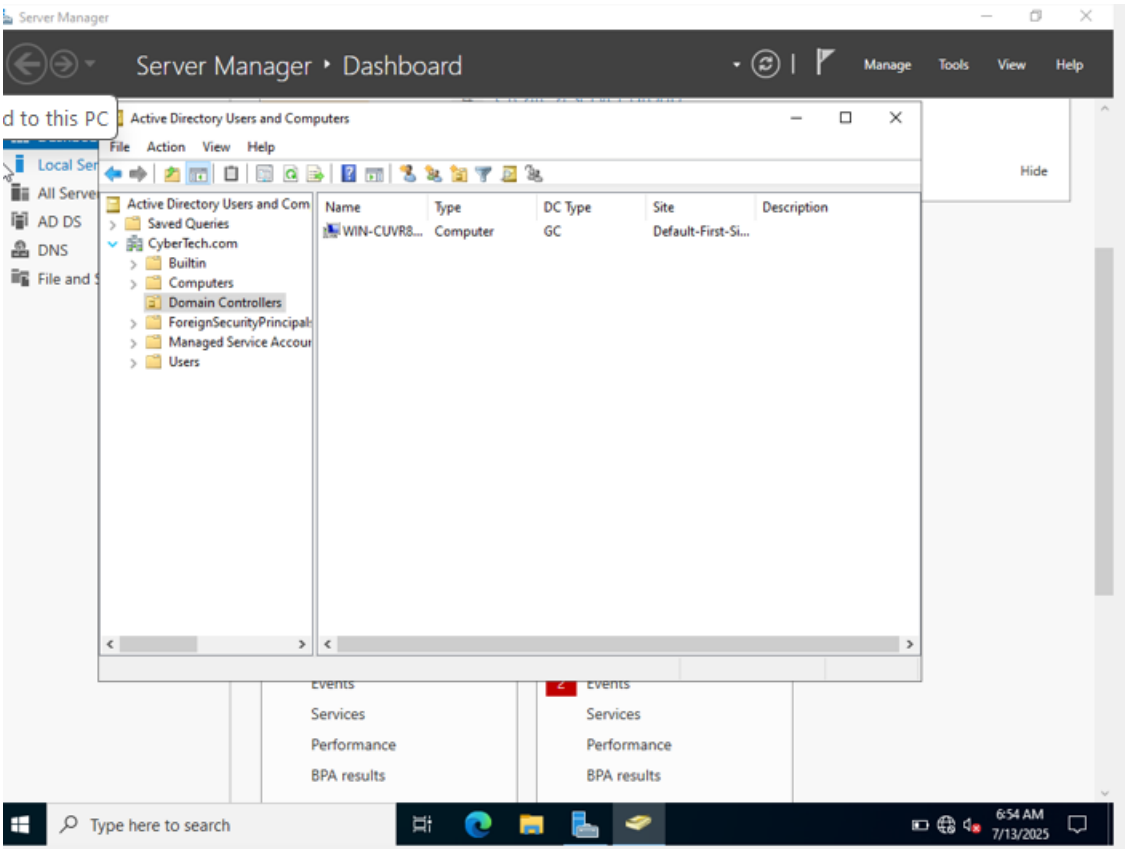
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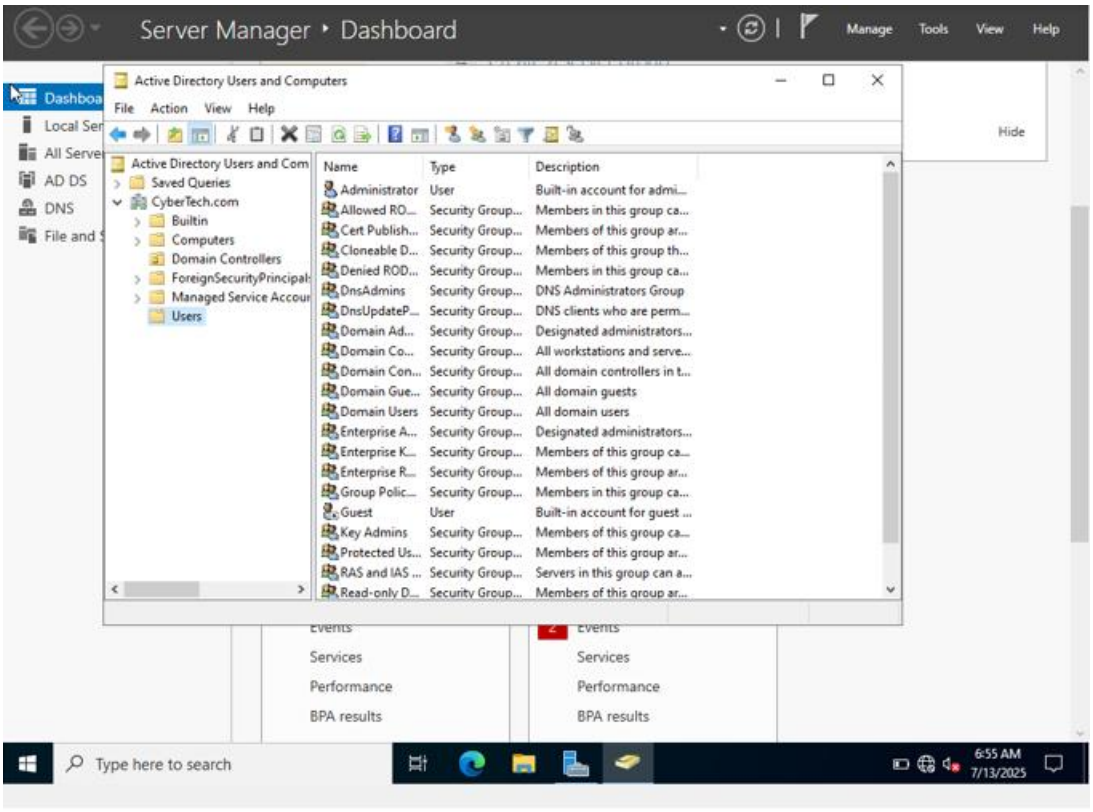
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CyberTech.com
Builtin
Computers
Domain Controllers
ForeignSecurityPrincipal
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Users
Name
Type
Description
Administrator User Built-in account for admi...
Allowed RO... Security Group... Members in this group ca...
Cert Publish... Security Group... Members of this group ar...
Cloneable D... Security Group... Members of this group th...
Denied ROD... Security Group... Members in this group ca...
DnsAdmins Security Group... DNS Administrators Group
DnsUpdateP... Security Group... DNS clients who are perm...
Domain Ad... Security Group... Designated administrators...
Domain Co... Security Group... All workstations and serve...
Domain Con... Security Group... All domain controllers in t...
Domain Gue... Security Group... All domain guests
Domain Users Security Group... All domain users
Enterprise A... Security Group... Designated administrators...
Enterprise K... Security Group... Members of this group ca...
Enterprise R... Security Group... Members of this group ar...
Group Polic... Security Group... Members in this group ca...
Guest User Built-in account for guest ...
Key Admins Security Group... Members of this group ca...
Protected Us... Security Group... Members of this group ar...
RAS and IAS ... Security Group... Servers in this group can a...
Read-only D... Security Group... Members of this group ar...
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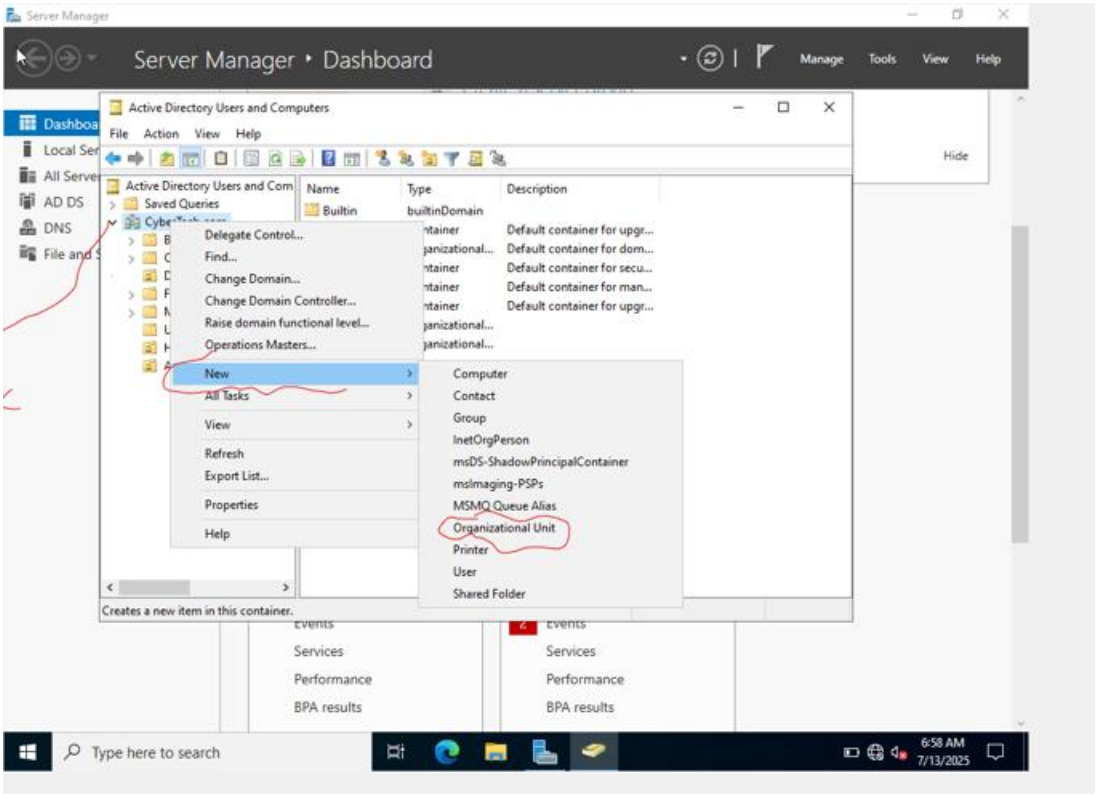
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Builtin
Name
Type
Description
Delegate Control...
Find...
Change Domain...
Change Domain Controller...
Raise domain functional level...
Operations Masters...
New
All Tasks
View
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Export List...
Properties
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Contact
Group
InetOrgPerson
msDS-ShadowPrincipalContainer
msImaging-PSPs
MSMQ Queue Alias
Organizational Unit
Printer
User
Shared Folder
Creates a new item in this container.
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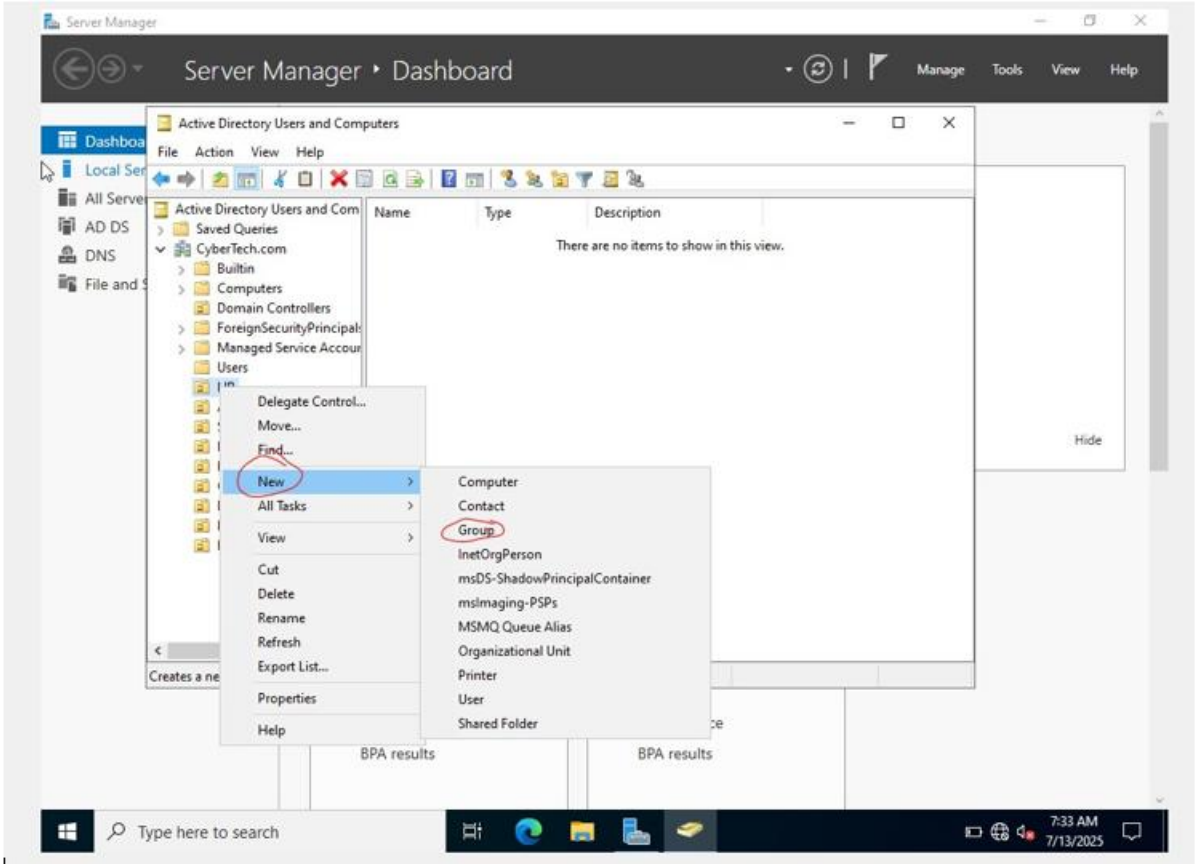
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Computers
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Managed Service Accour
Users
Name
Type
Description
There are no items to show in this view.
Hide
Delegate Control...
Move...
Find...
New
All Tasks
View
Cut
Delete
Rename
Refresh
Export List...
Properties
Help
Computer
Contact
Group
InetOrgPerson
msDS-ShadowPrincipalContainer
msImaging-PSPs
MSMQ Queue Alias
Organizational Unit
Printer
User
Shared Folder
BPA results
BPA results
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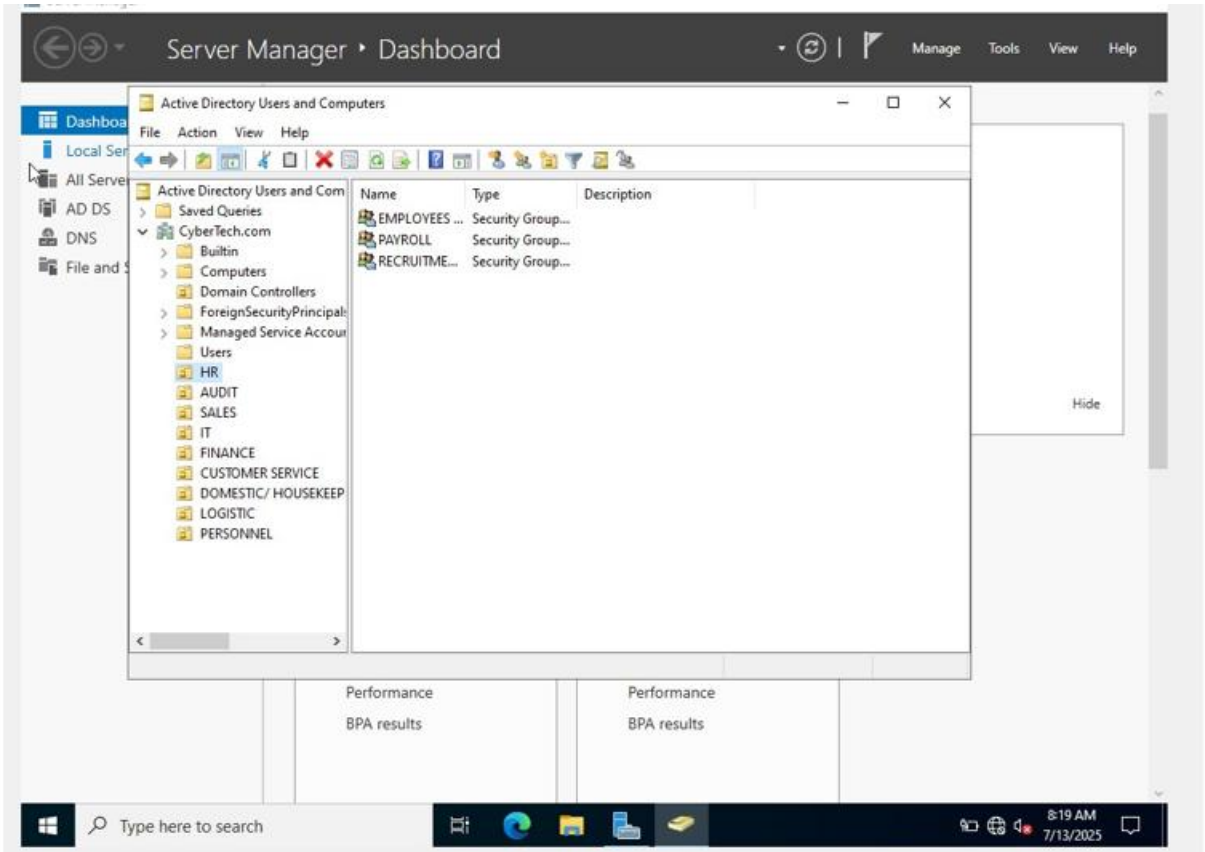
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LOGISTIC
PERSONNEL
Name
Type
Description
EMPLOYEES ...
Security Group...
PAYROLL
Security Group...
RECRUITME...
Security Group...
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Performance
BPA results
Performance
BPA results
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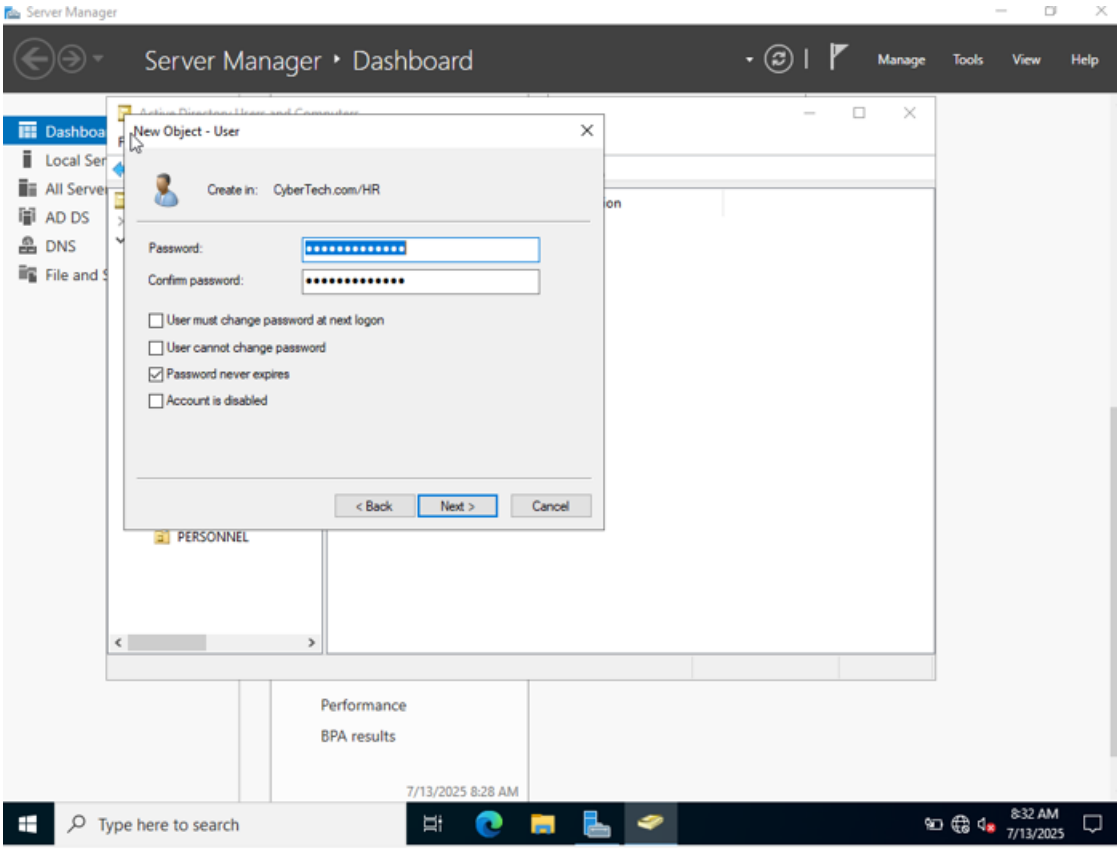
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File and S
New Object - User
Create in: CyberTech.com/HR
Password:
Confirm password:
User must change password at next logon
User cannot change password
Password never expires
Account is disabled
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PERSONNEL
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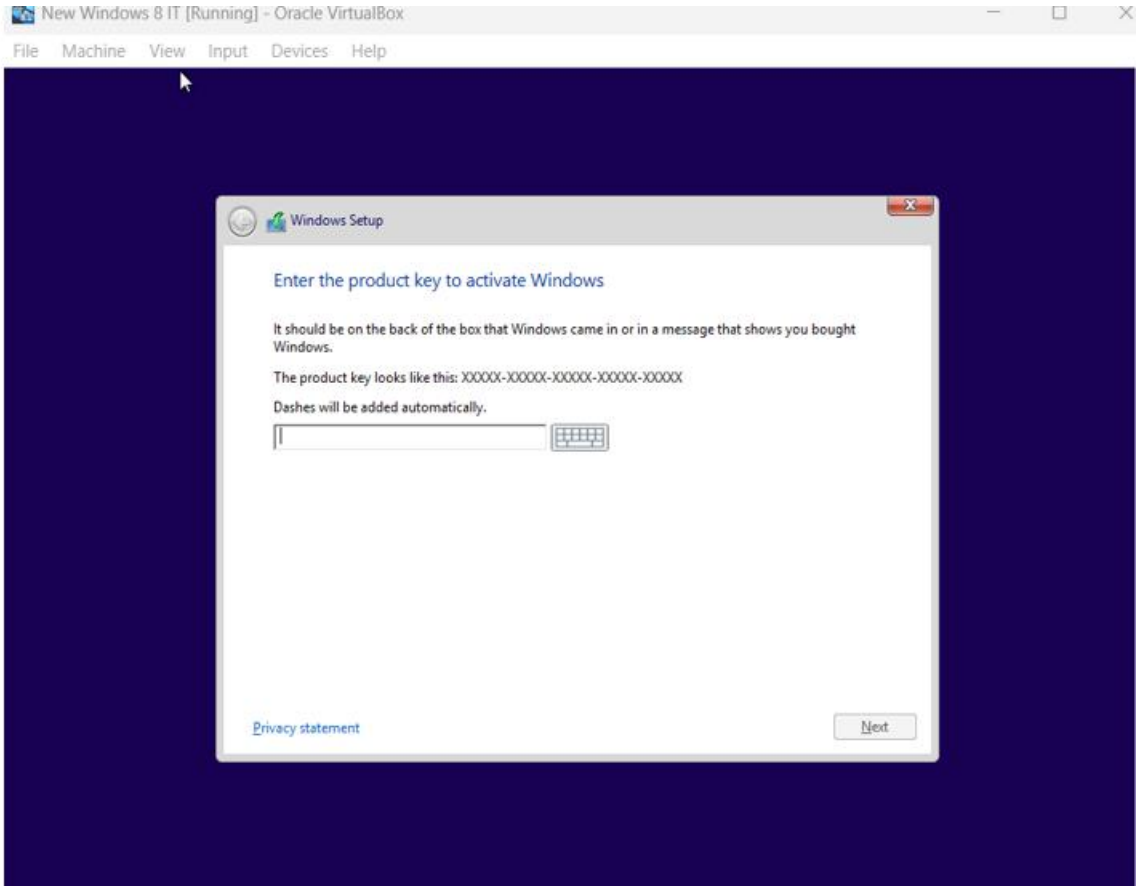
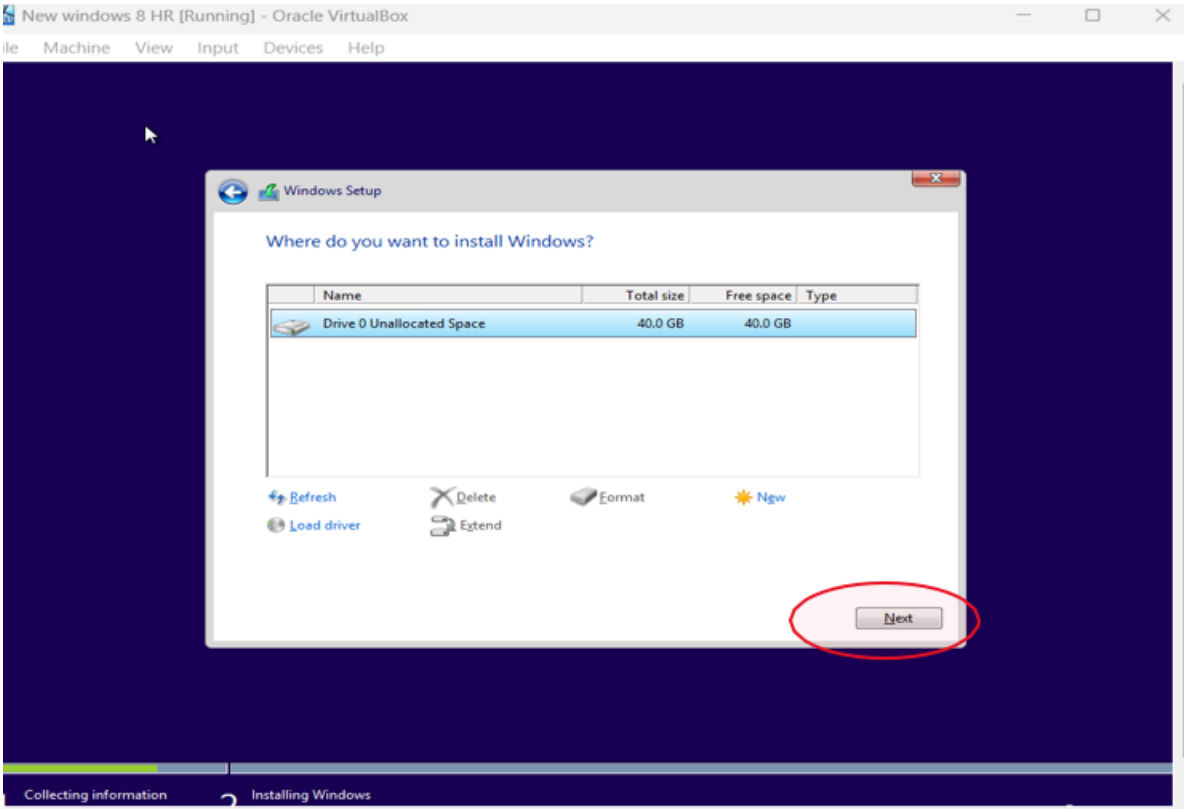
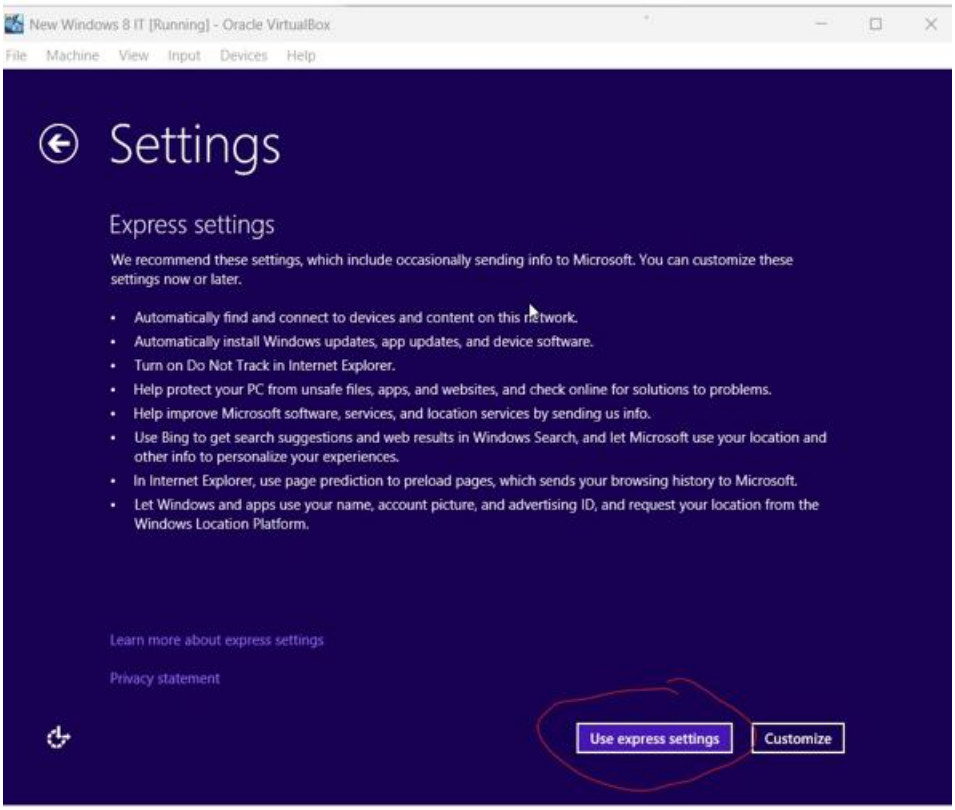
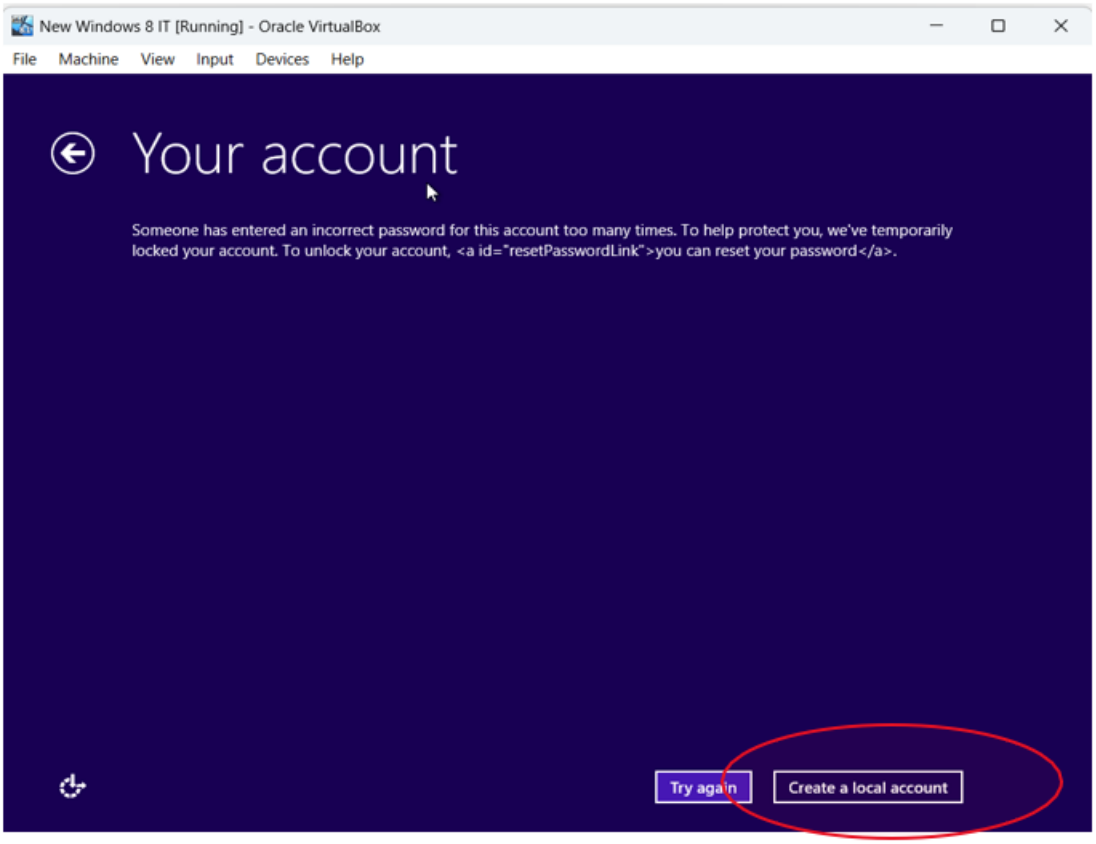
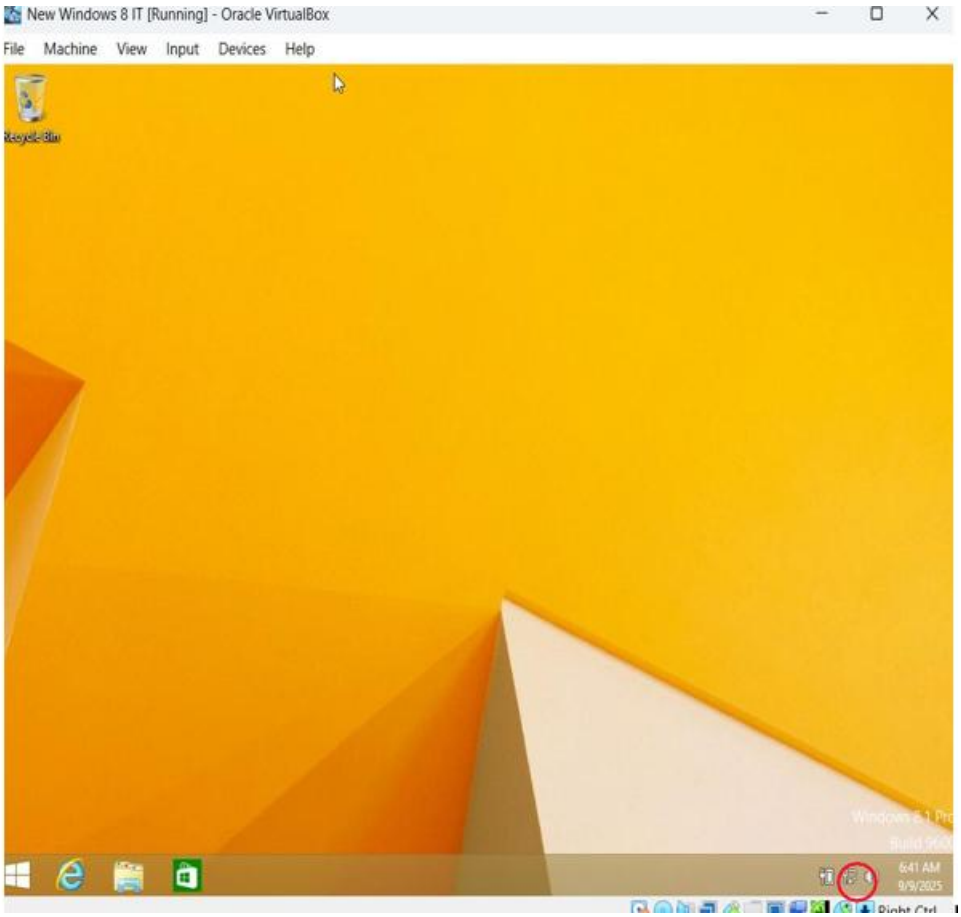
8:32 AM
7/13/2025

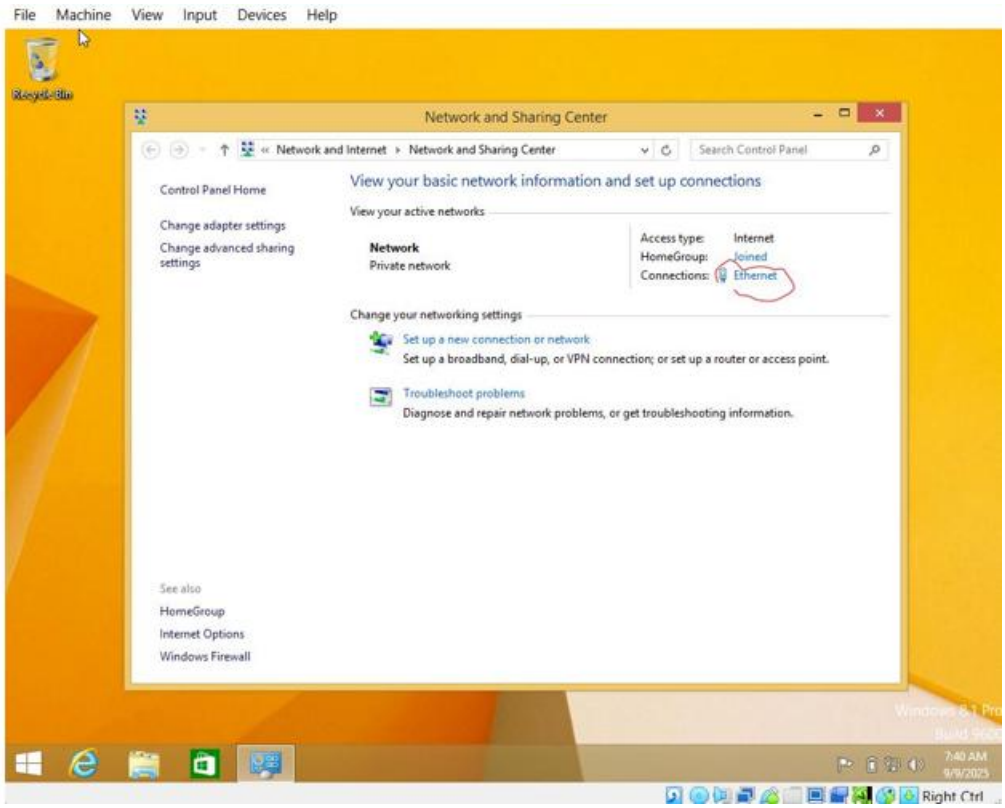

New Windows 8 IT [Running] - Oracle VirtualBox
File Machine View Input Devices Help
Windows Setup
Enter the product key to activate Windows
It should be on the back of the box that Windows came in or in a message that shows you bought Windows.
The product key looks like this: XXXXX-XXXXX-XXXXX-XXXXX-XXXXX
Dashes will be added automatically.
Privacy statement
Next

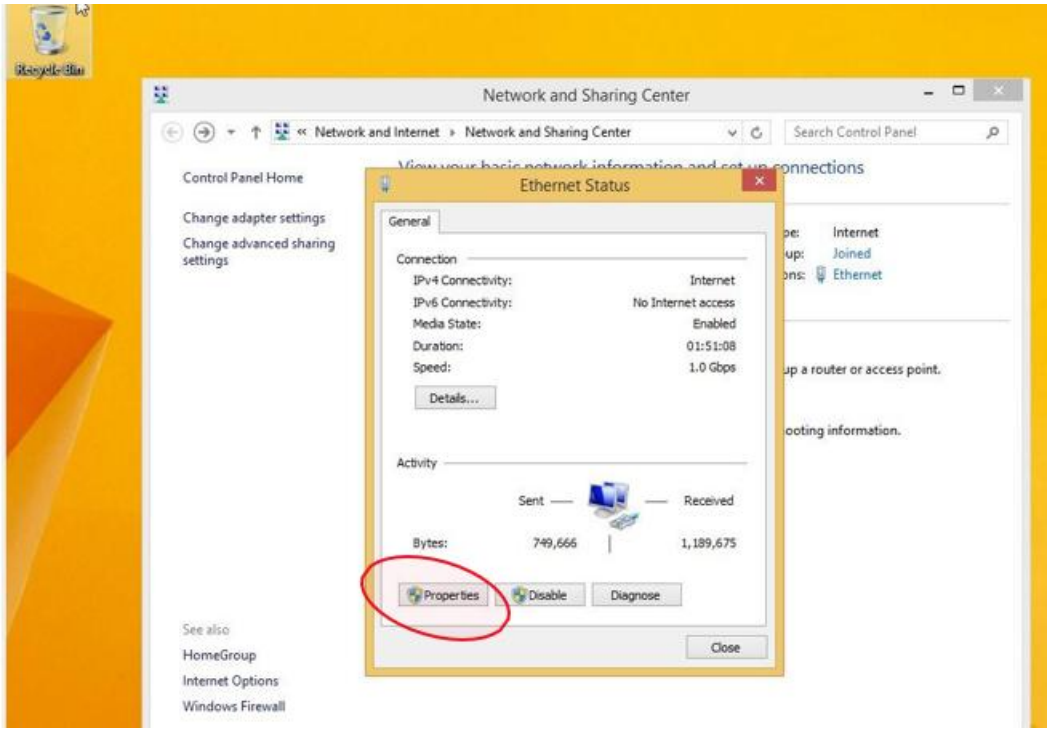

New windows 8 HR [Running] - Oracle VirtualBox
Machine View Input Devices Help
Windows Setup
Where do you want to install Windows?
Name
Total size
Free space
Type
Drive 0 Unallocated Space
40.0 GB
40.0 GB
Refresh
Delete
Format
New
Load driver
Extend
Next
Collecting information
Installing Windows

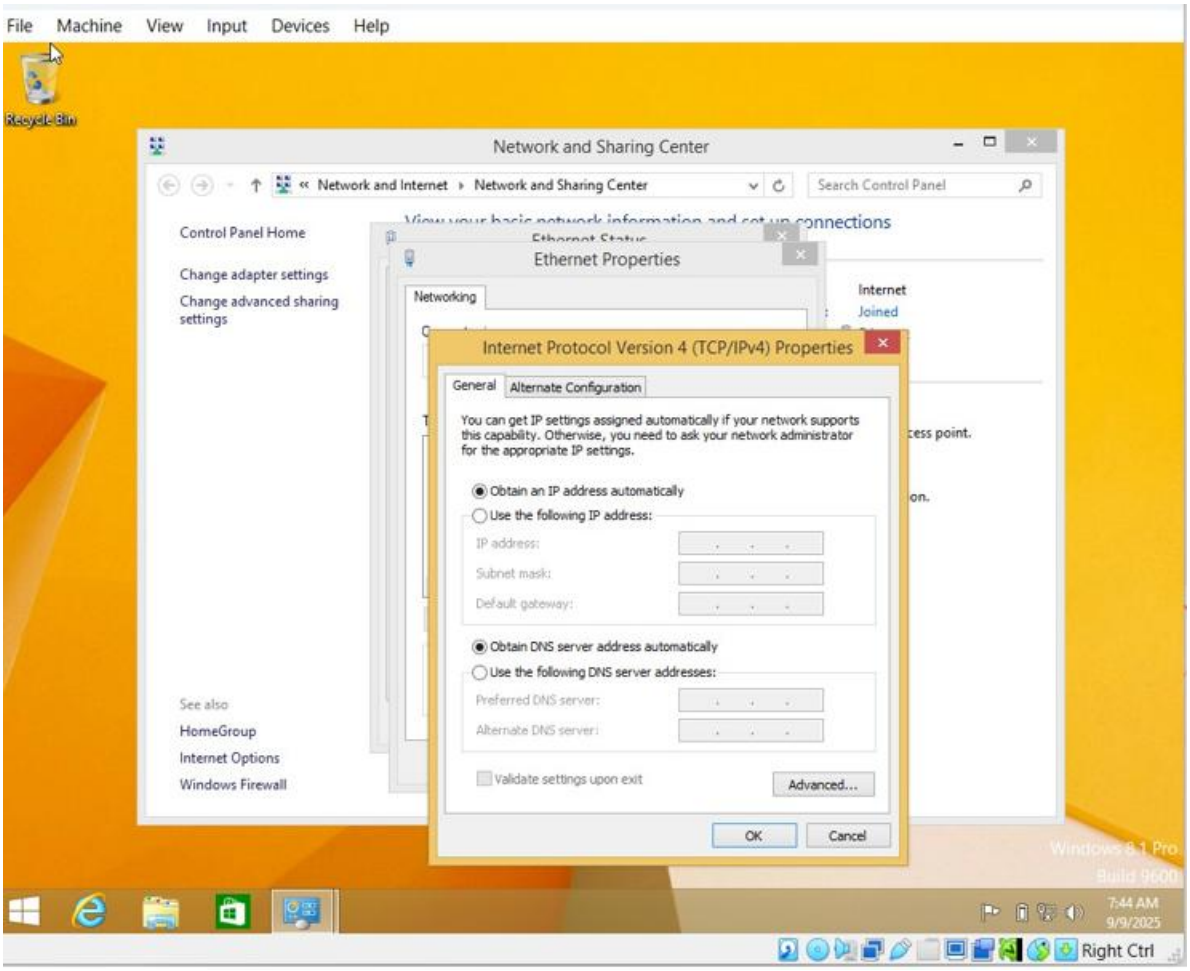

New Windows 8 IT [Running] - Oracle VirtualBox
File Machine View Input Devices Help
Settings
Express settings
We recommend these settings, which include occasionally sending info to Microsoft. You can customize these settings now or later.
Automatically find and connect to devices and content on this network.
Automatically install Windows updates, app updates, and device software.
Turn on Do Not Track in Internet Explorer.
Help protect your PC from unsafe files, apps, and websites, and check online for solutions to problems.
Help improve Microsoft software, services, and location services by sending us info.
Use Bing to get search suggestions and web results in Windows Search, and let Microsoft use your location and other info to personalize your experiences.
In Internet Explorer, use page prediction to preload pages, which sends your browsing history to Microsoft.
Let Windows and apps use your name, account picture, and advertising ID, and request your location from the Windows Location Platform.
Learn more about express settings
Privacy statement
Use express settings
Customize

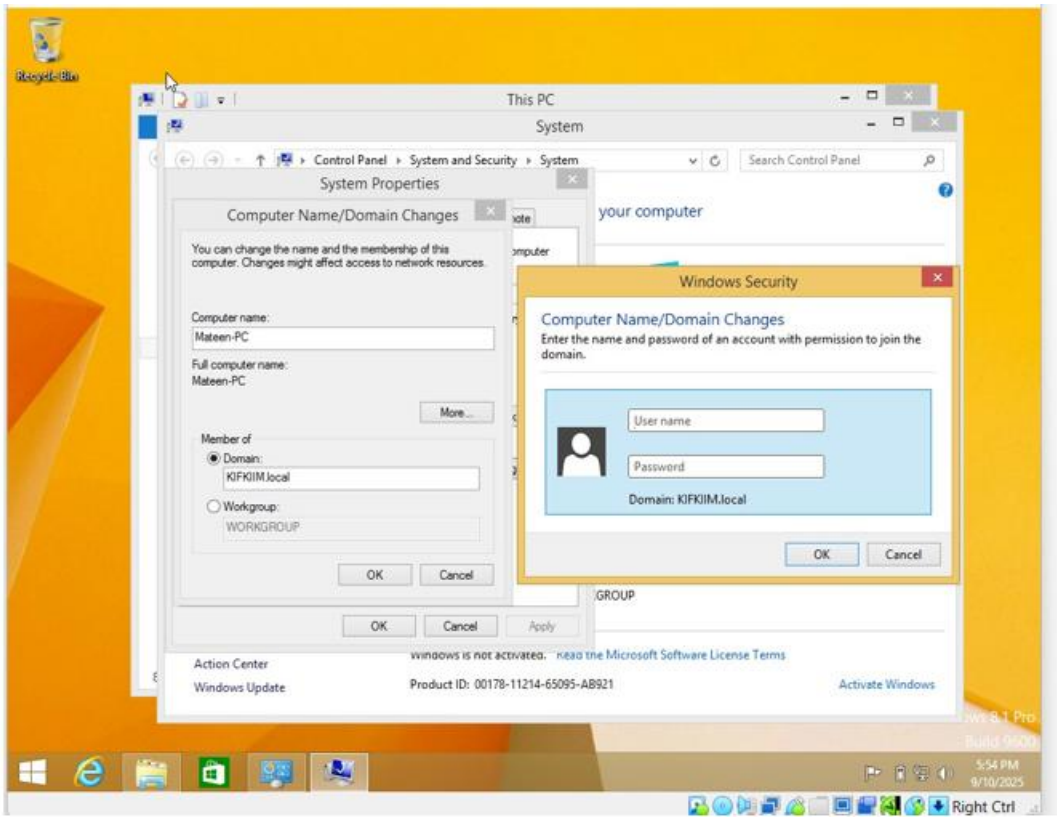

New Windows 8 IT [Running] - Oracle VirtualBox
File Machine View Input Devices Help
Your account
Someone has entered an incorrect password for this account too many times. To help protect you, we've temporarily locked your account. To unlock your account, you can reset your password.
Try again
Create a local account

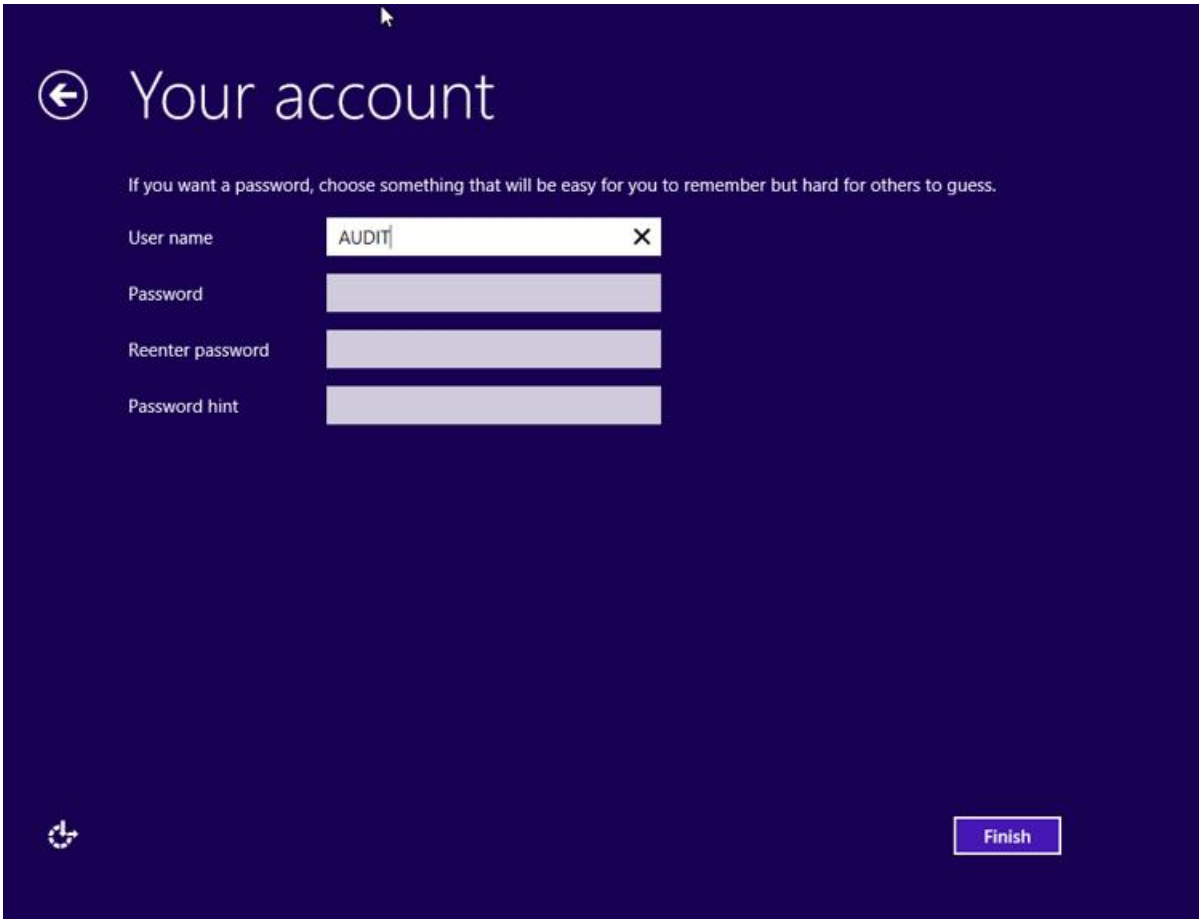

New Windows 8 IT [Running] - Oracle VirtualBox
File Machine View Input Devices Help
Recycle Bin
6:41 AM
9/9/2025


File Machine View Input Devices Help
Recycle Bin
Network and Sharing Center
Network and Internet › Network and Sharing Center
Search Control Panel
Control Panel Home
Change adapter settings
Change advanced sharing settings
View your basic network information and set up connections
View your active networks
Network
Private network
Access type: Internet
HomeGroup: Joined
Connections: Ethernet
Change your networking settings
Set up a new connection or network
Set up a broadband, dial-up, or VPN connection; or set up a router or access point.
Troubleshoot problems
Diagnose and repair network problems, or get troubleshooting information.
See also
HomeGroup
Internet Options
Windows Firewall
Right Ctrl


Recycle Bin
Network and Sharing Center
Network and Internet › Network and Sharing Center
Search Control Panel
Control Panel Home
Change adapter settings
Change advanced sharing settings
Ethernet Status
General
Connection
IPv4 Connectivity: Internet
IPv6 Connectivity: No Internet access
Media State: Enabled
Duration: 01:51:08
Speed: 1.0 Gbps
Details...
Activity
Sent
Received
Bytes: 749,666 1,189,675
Properties
Disable
Diagnose
Close
See also
HomeGroup
Internet Options
Windows Firewall


File Machine View Input Devices Help
Recycle Bin
Network and Sharing Center
Network and Internet › Network and Sharing Center
Search Control Panel
Control Panel Home
Change adapter settings
Change advanced sharing settings
Ethernet Properties
Networking
Internet Protocol Version 4 (TCP/IPv4) Properties
General
Alternate Configuration
You can get IP settings assigned automatically if your network supports this capability. Otherwise, you need to ask your network administrator for the appropriate IP settings.
Obtain an IP address automatically
Use the following IP address:
IP address:
Subnet mask:
Default gateway:
Obtain DNS server address automatically
Use the following DNS server addresses:
Preferred DNS server:
Alternate DNS server:
Validate settings upon exit
Advanced...
OK
Cancel
See also
HomeGroup
Internet Options
Windows Firewall
Internet
Joined
Windows 8.1 Pro
Build 9600
7:44 AM
9/9/2025
Right Ctrl


Recycle Bin
This PC
System
Control Panel ▸ System and Security ▸ System
Search Control Panel
System Properties
Computer Name/Domain Changes
You can change the name and the membership of this computer. Changes might affect access to network resources.
Computer name:
Mateen-PC
Full computer name:
Mateen-PC
More...
Member of
Domain:
KIFKIIM.local
Workgroup:
WORKGROUP
OK
Cancel
Apply
your computer
Windows Security
Computer Name/Domain Changes
Enter the name and password of an account with permission to join the domain.
User name
Password
Domain: KIFKIIM.local
OK
Cancel
GROUP
Action Center
Windows Update
Windows is not activated. Read the Microsoft Software License Terms
Product ID: 00178-11214-65095-AB921
Activate Windows
5:54 PM
9/10/2025
Right Ctrl


Your account
If you want a password, choose something that will be easy for you to remember but hard for others to guess.
User name
AUDIT
Password
Reenter password
Password hint
Finish