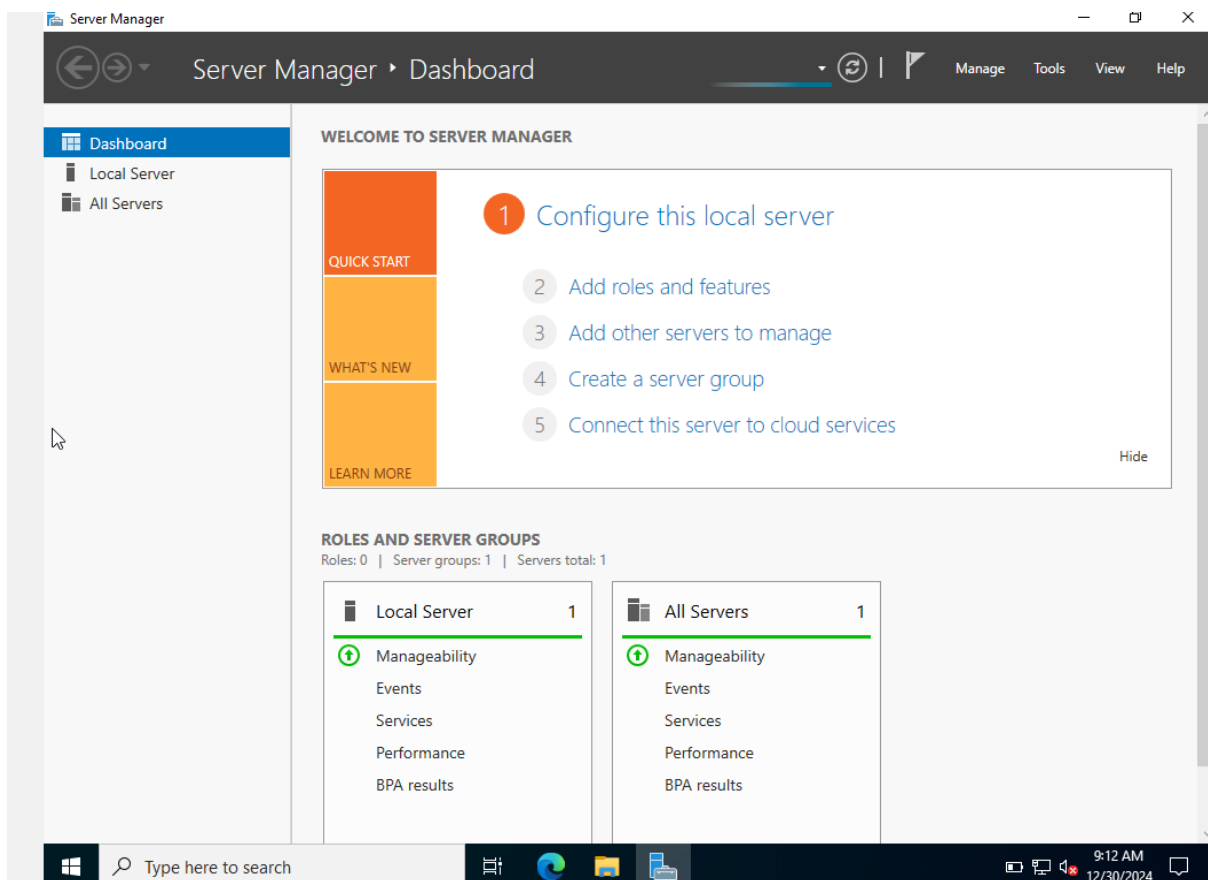


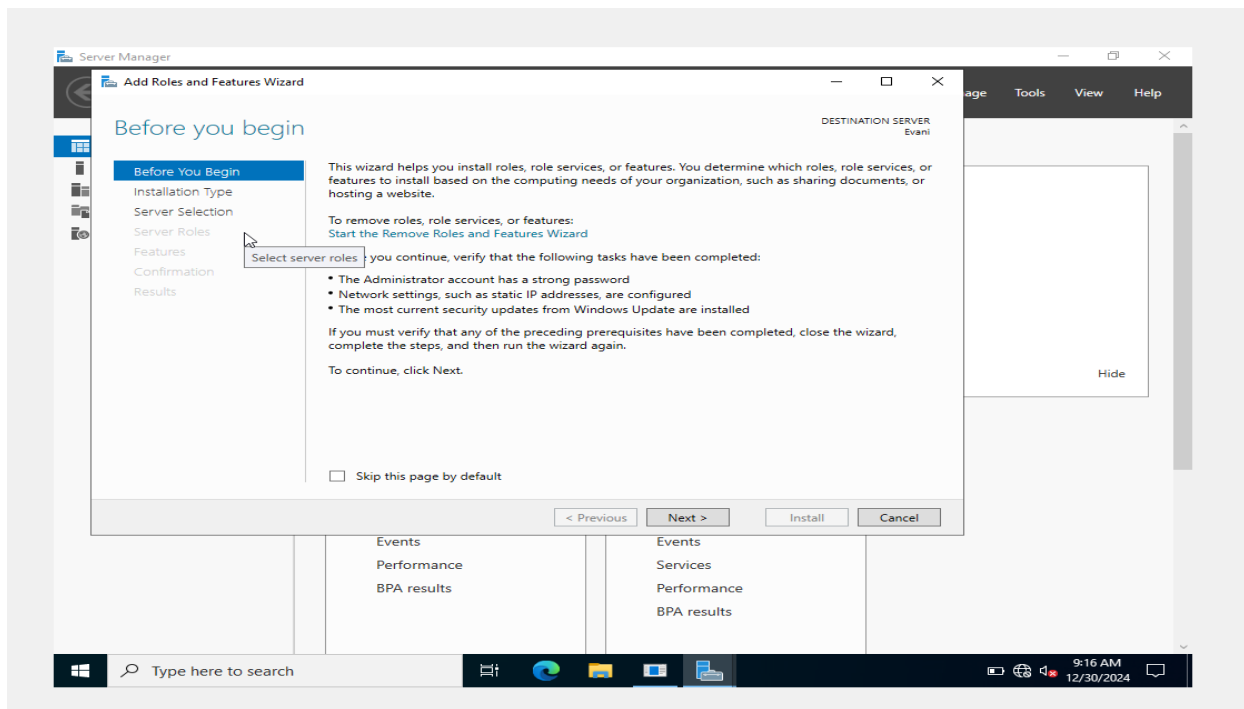
Logbook 9

Follow the below steps to install Active Directory Domain Services:

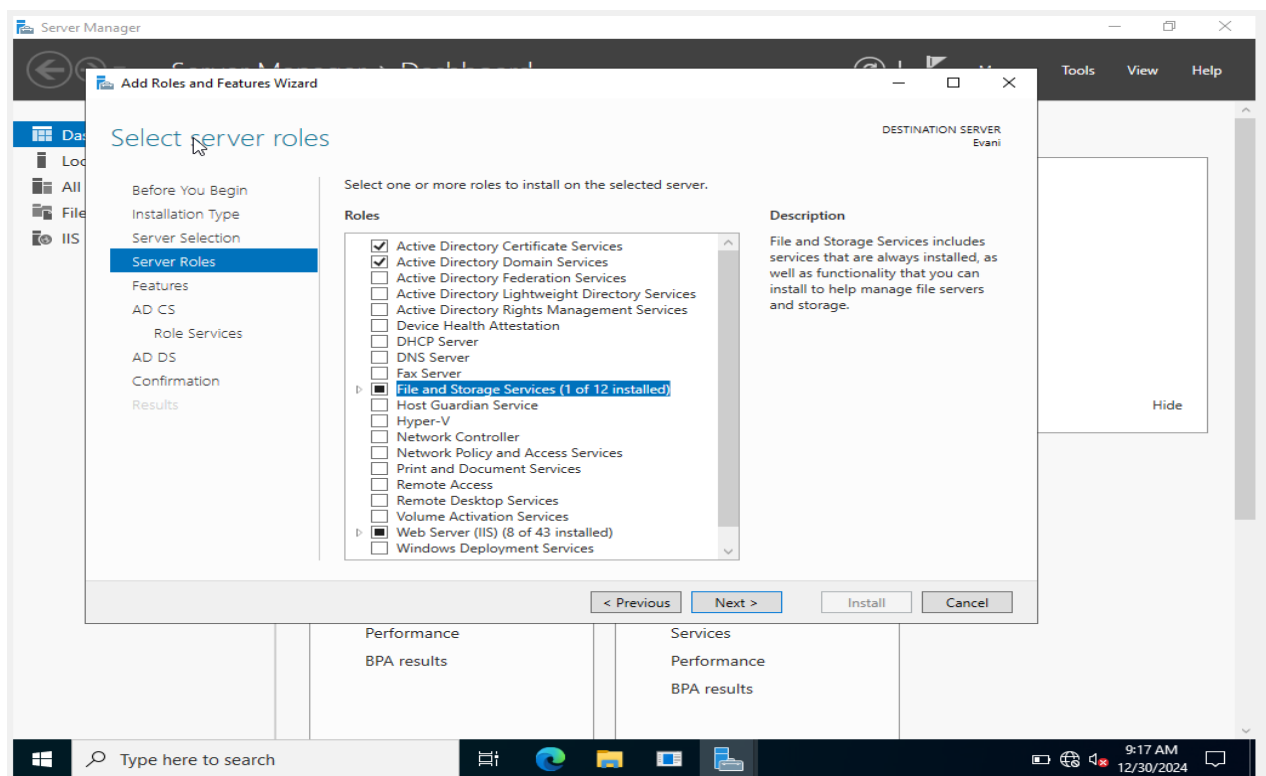
Step 1: First, sign in to Windows Server 2022 as an administrator, and next, open the Server Manager as demonstrated below.



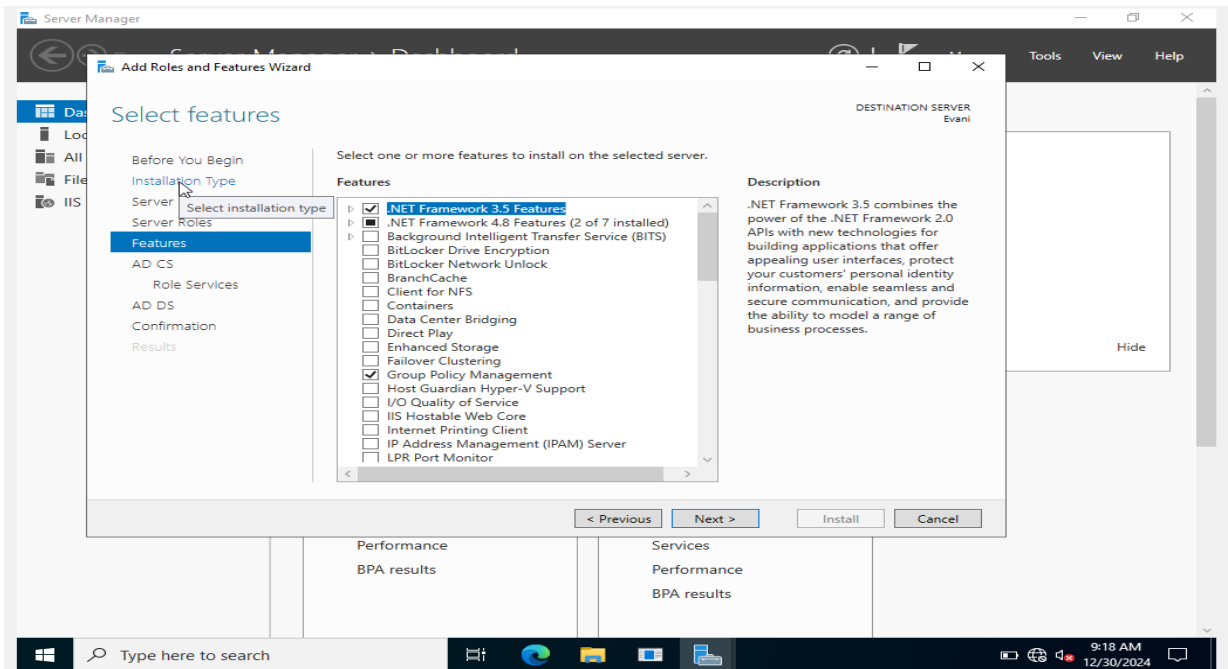
Step 2: Select the Add Roles and Features option, which will open the Add Roles and Features Wizard, as shown below.



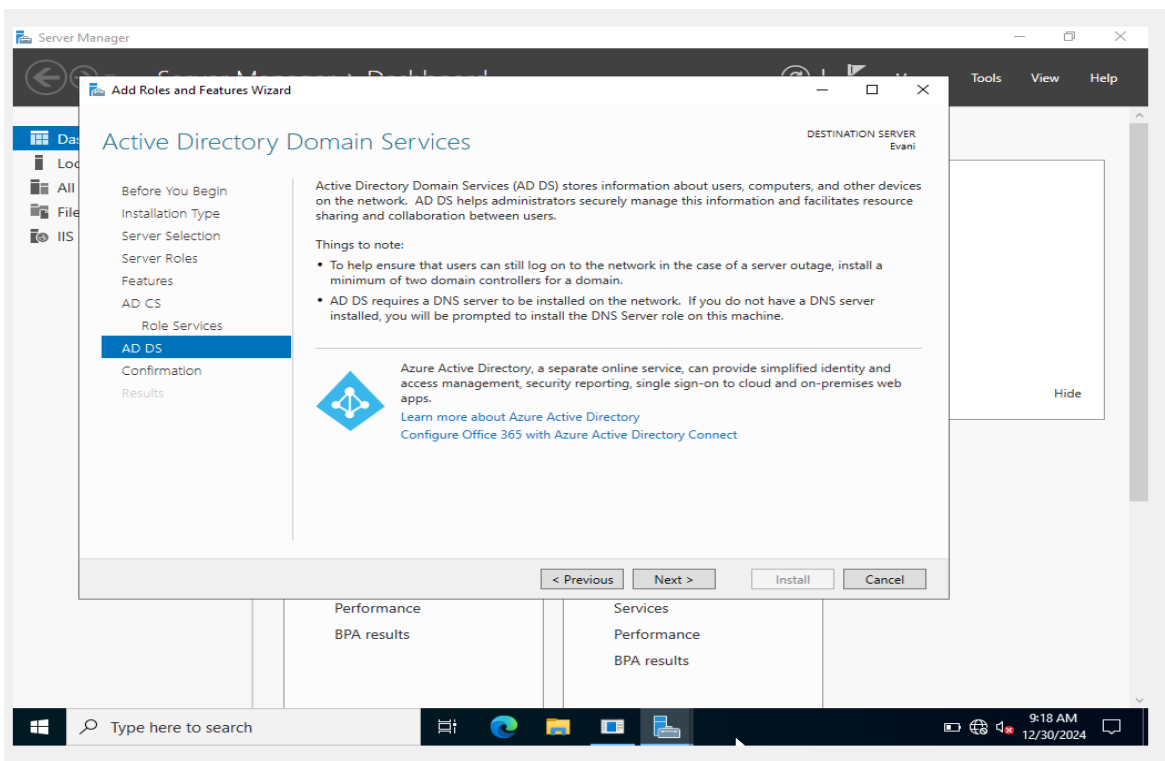
Step 3: Click on Select a server from the server pool, then hit Next. You'll then see the screen to choose server roles, as displayed below.



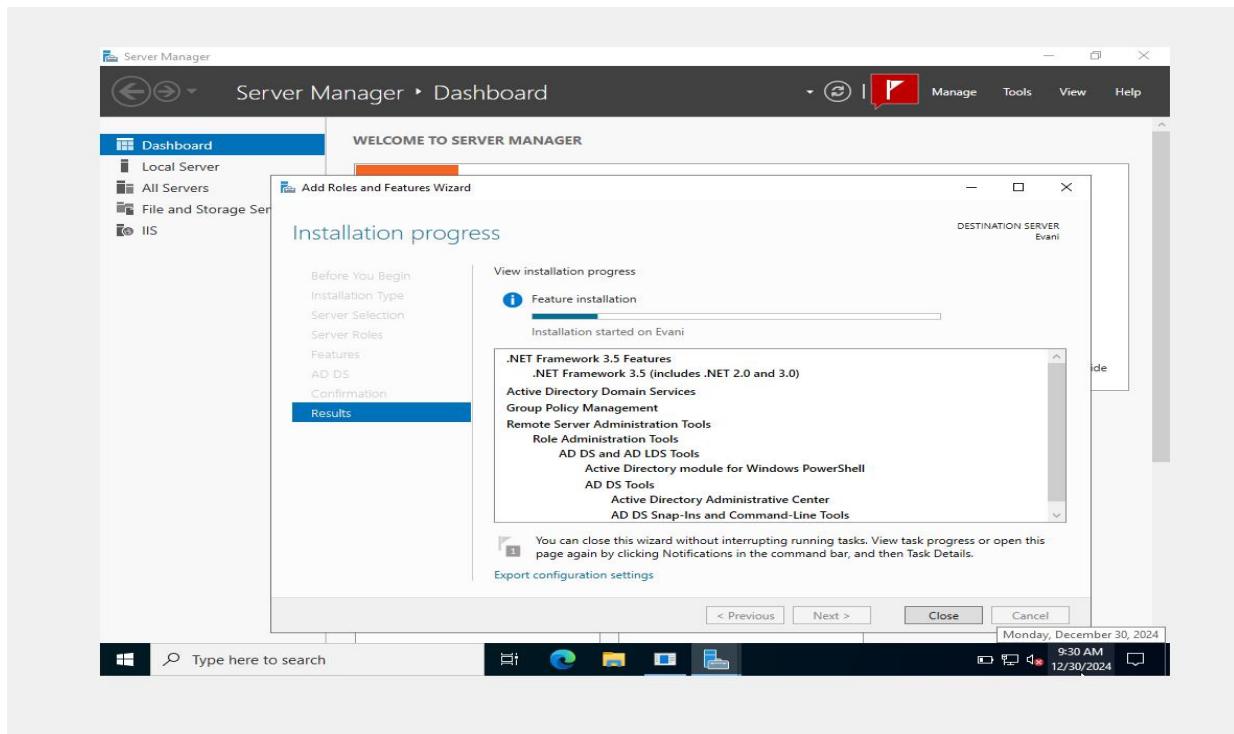
Step 4: Choose Active Directory Domain Services and click Next. You will then be prompted to select features, as illustrated below.



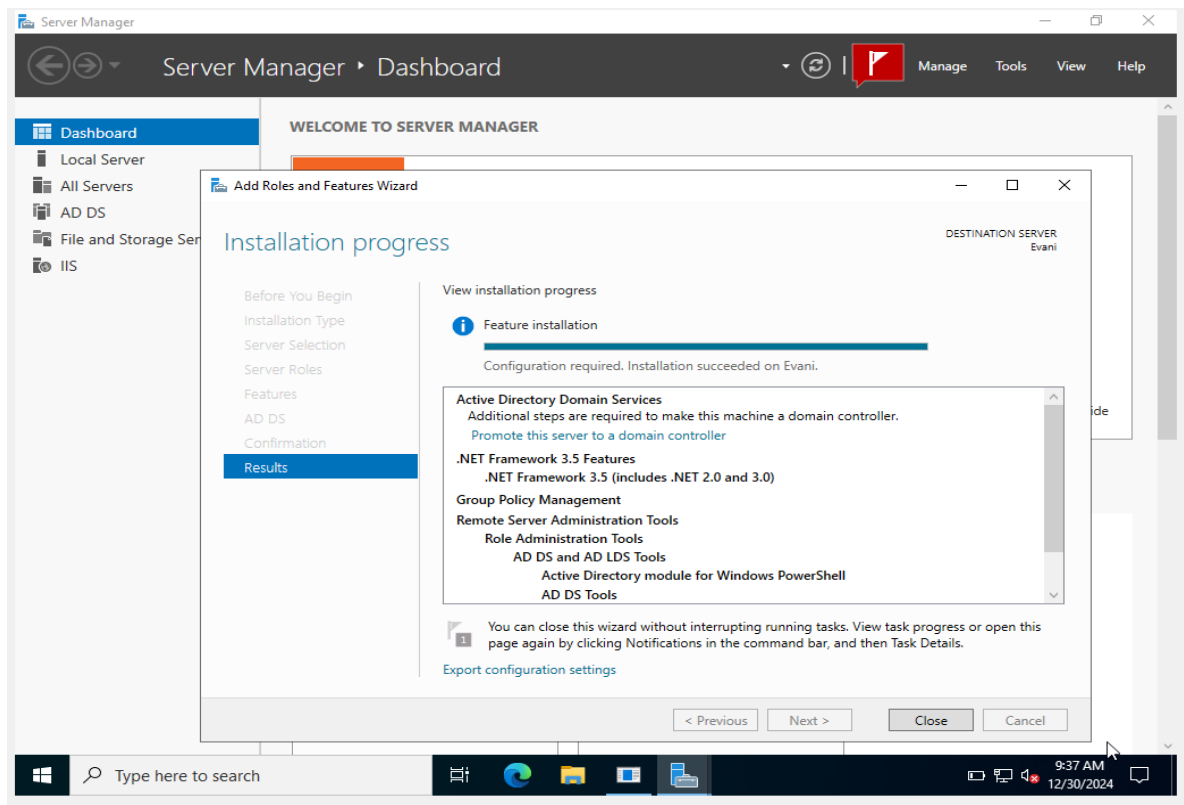
Step 5: Leave all settings at their default and click Next. The following screen will display the "Confirm Installation Selections" page.



Step 6: Click on the Install button to start the installation.

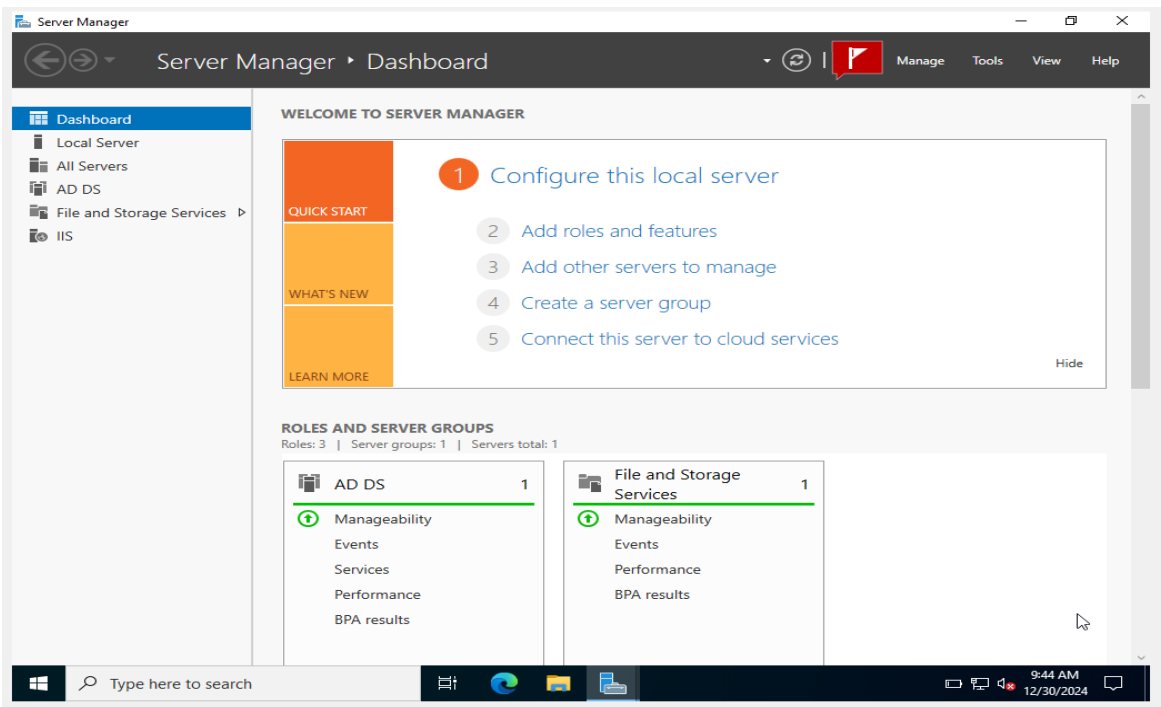


Step 7: Once the installation has been finished. You should see the following page.

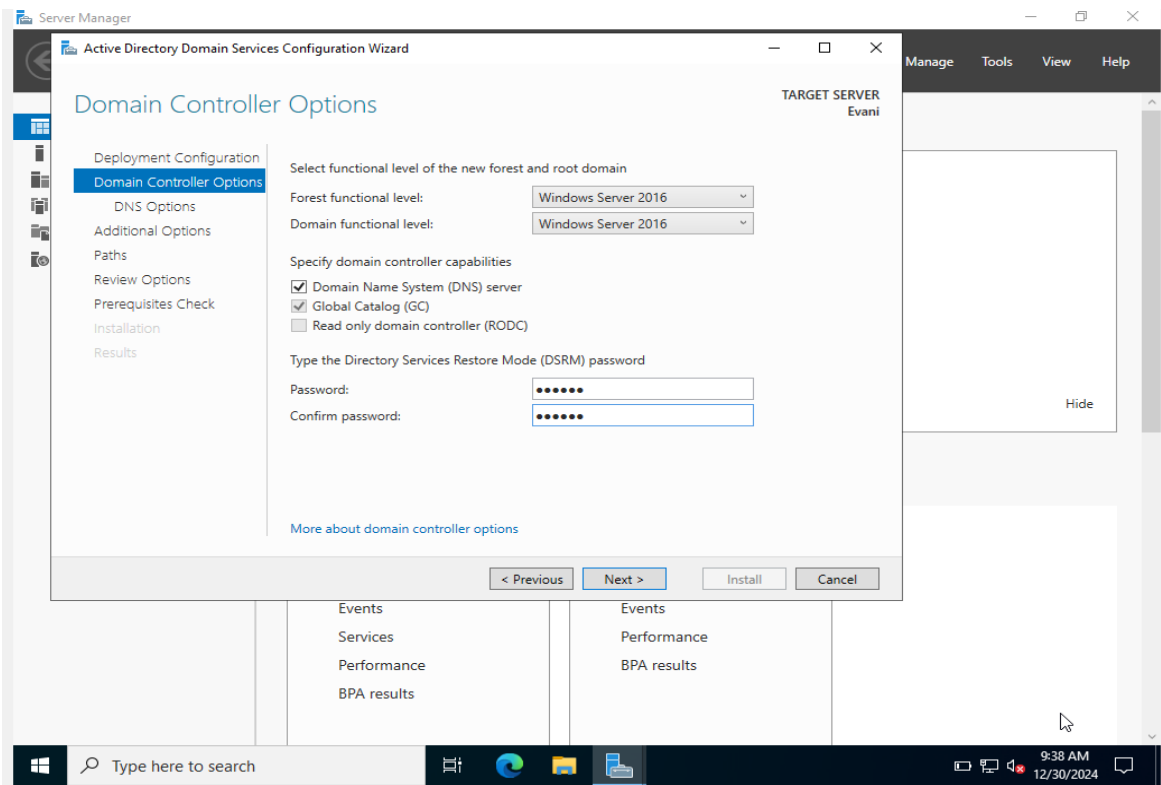


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Step 8: Press the yellow notification icon, and the subsequent page will appear.

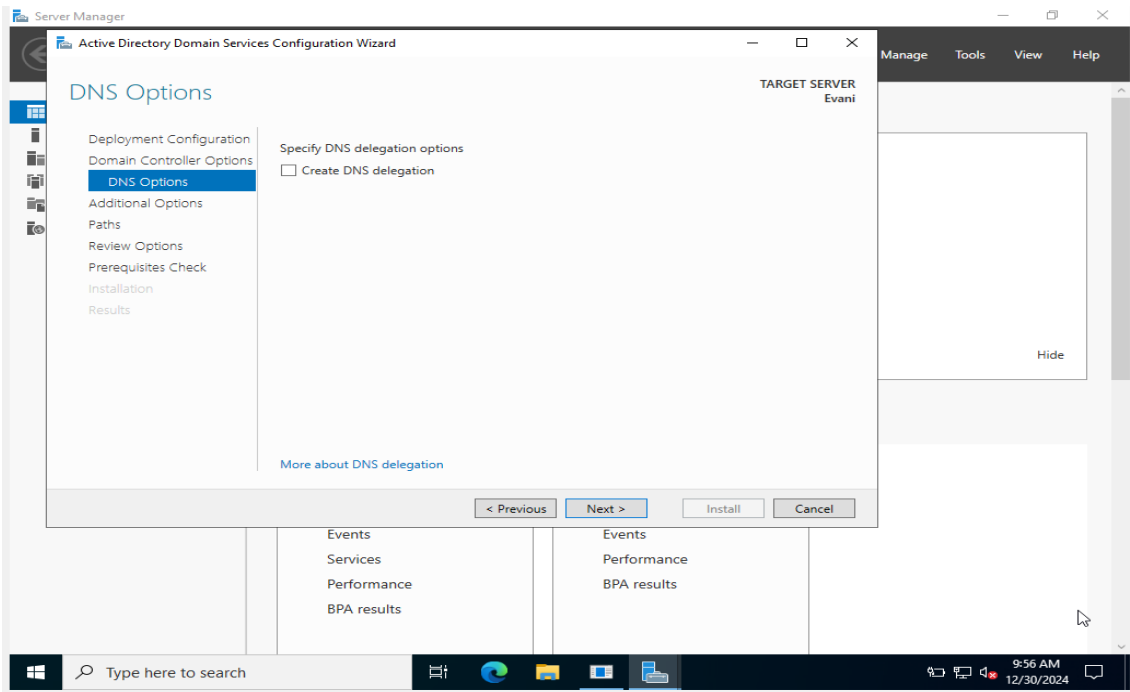


Step 9: Choose Add a new forest, specify your domain name, and click Next. The domain controller options page will appear next.

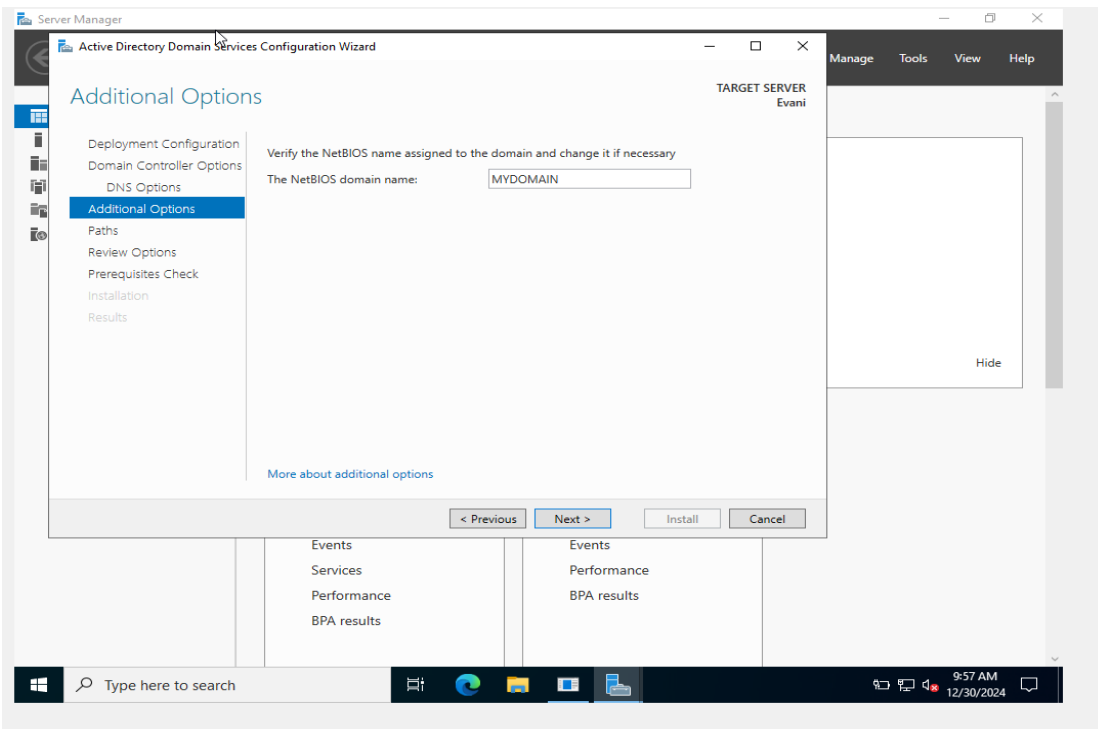


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Step 10: Enter your Directory Service Restore Mode password, then click Next. You will then see the DNS options page.

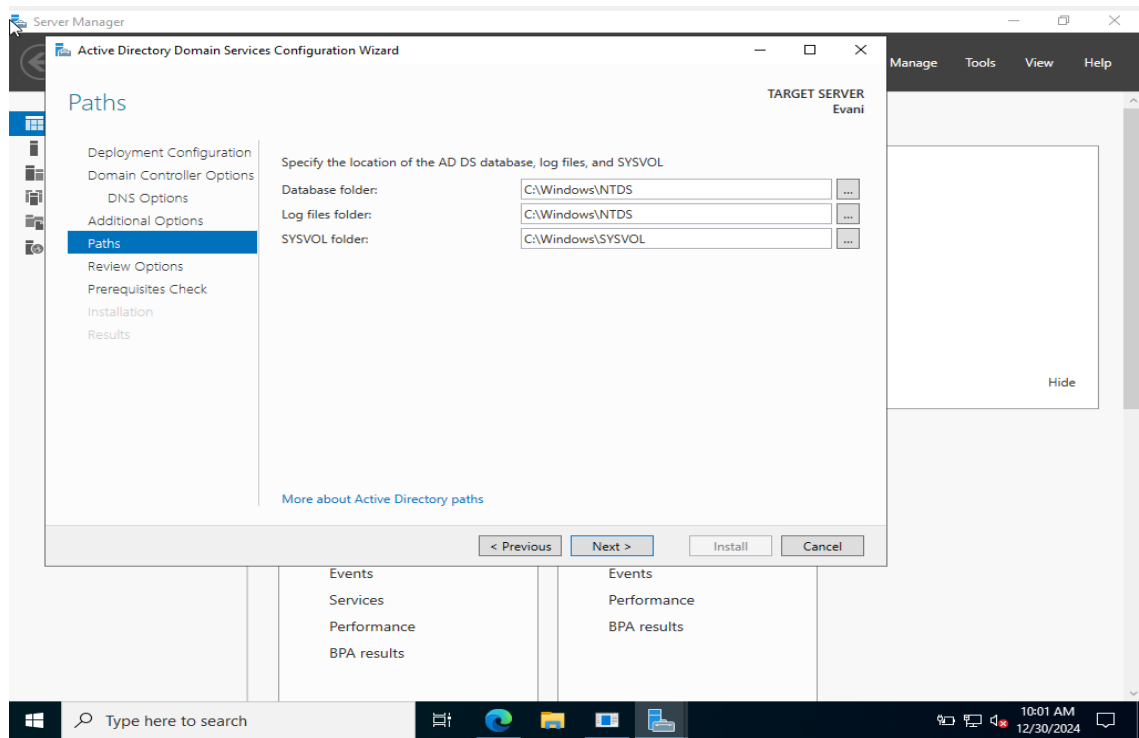


Step 11: Leave the default settings unchanged and press Next. The next screen will ask you to define a NetBIOS name, as illustrated below.

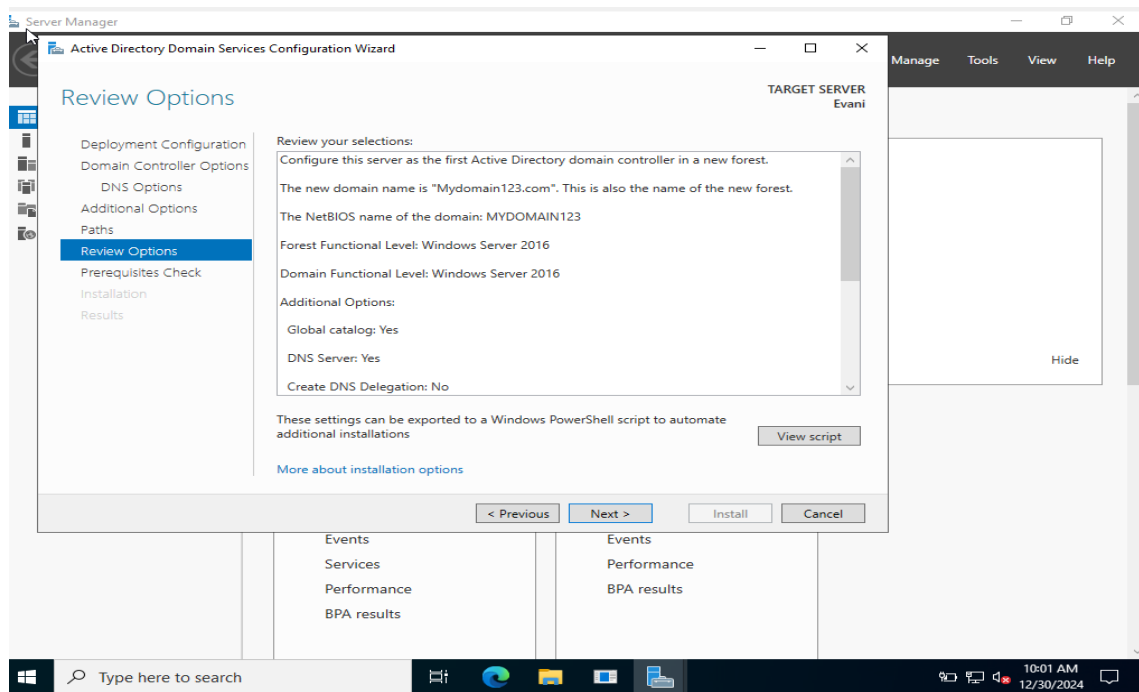


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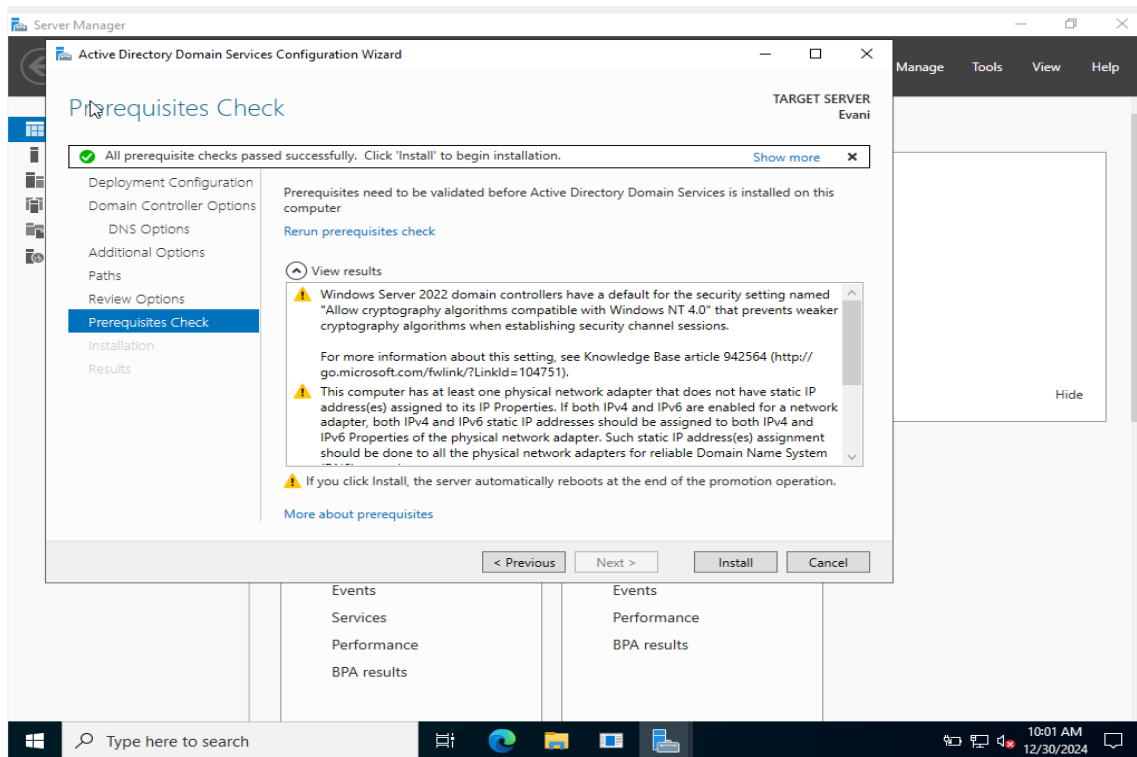
Step 12: Choose your NetBIOS name and click Next. You will be asked to provide the location for the AD DS database path.



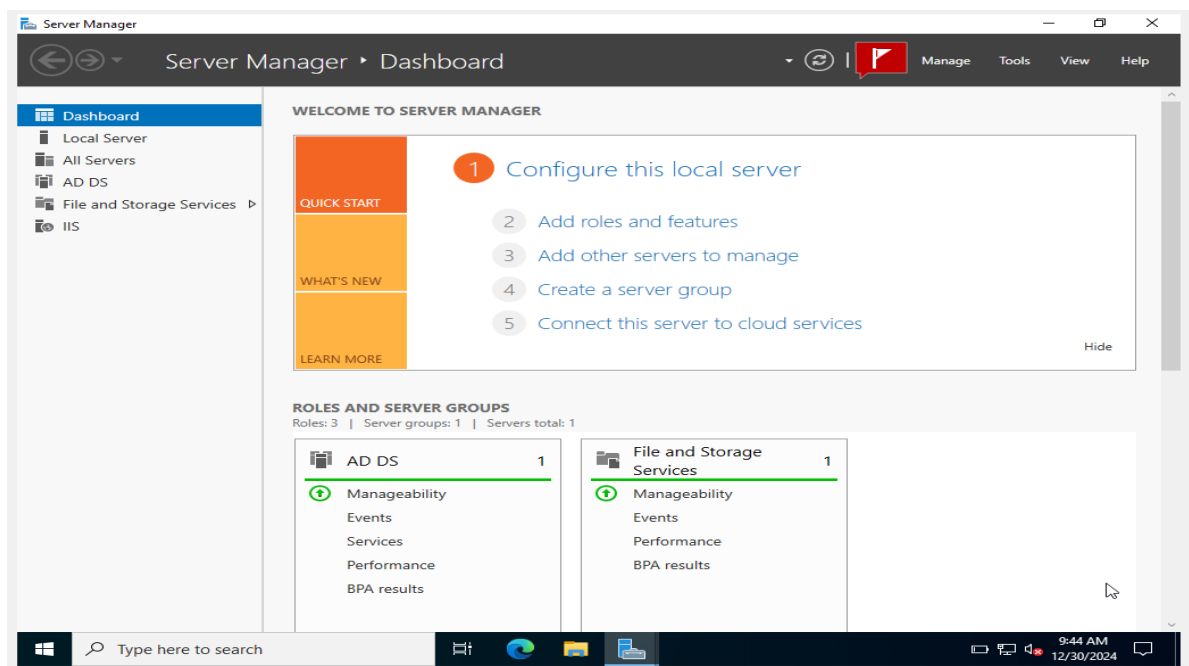
Step 13: Keep the default path unchanged and click Next. The next screen will display the "Review All Options" page.



Step 14: Check all configurations and click Next. The prerequisites check page will be shown next.

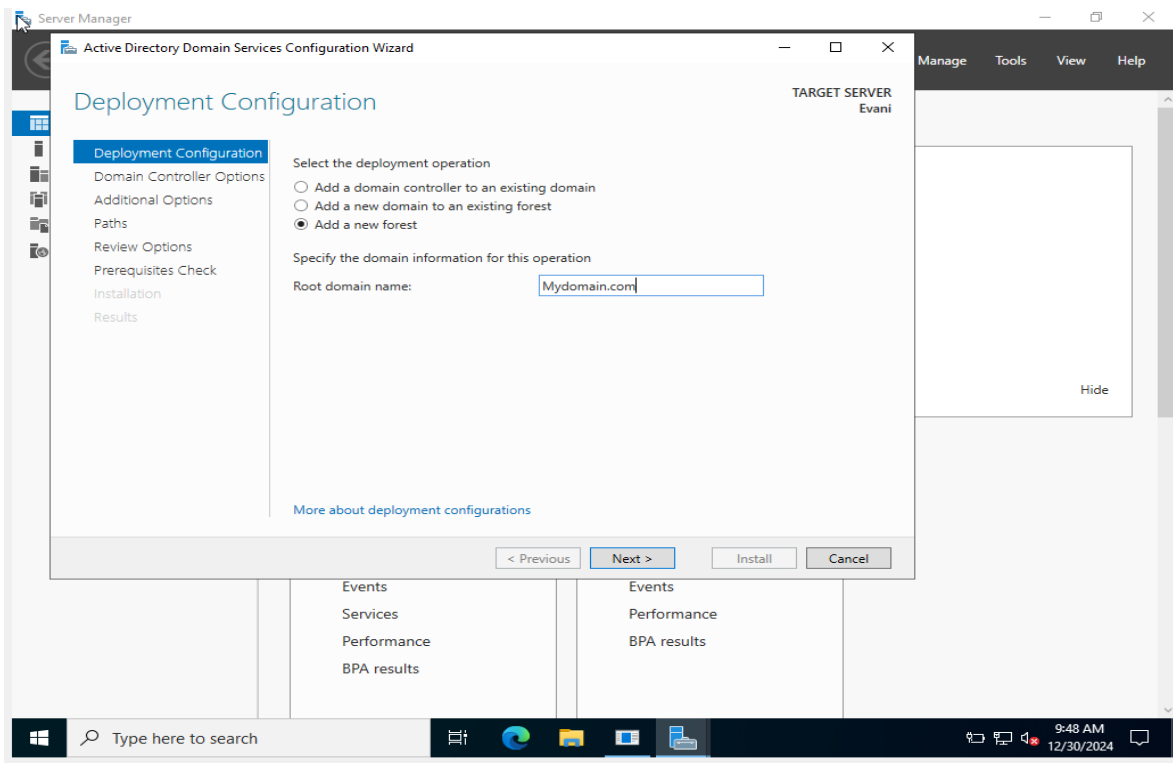


Step 15: Click on the yellow notification icon.

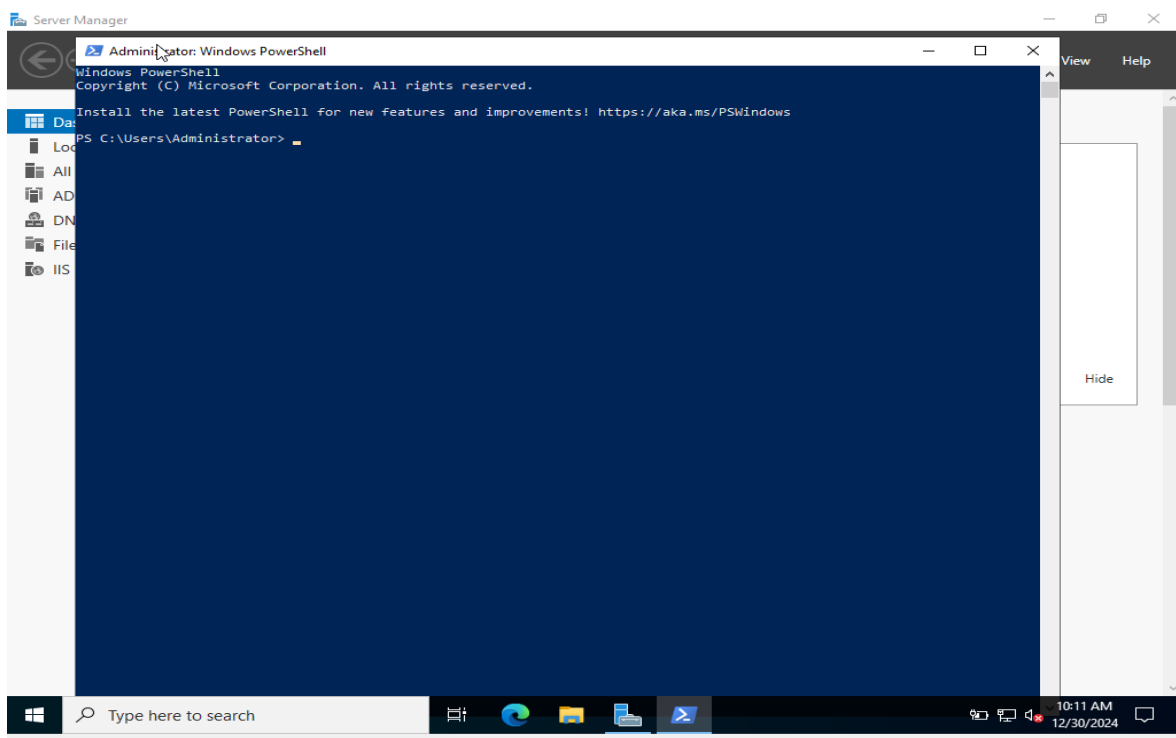


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Step 16: Choose Promote this server to a domain controller, and the deployment configuration page will appear.



Step 17: Open Windows PowerShell.



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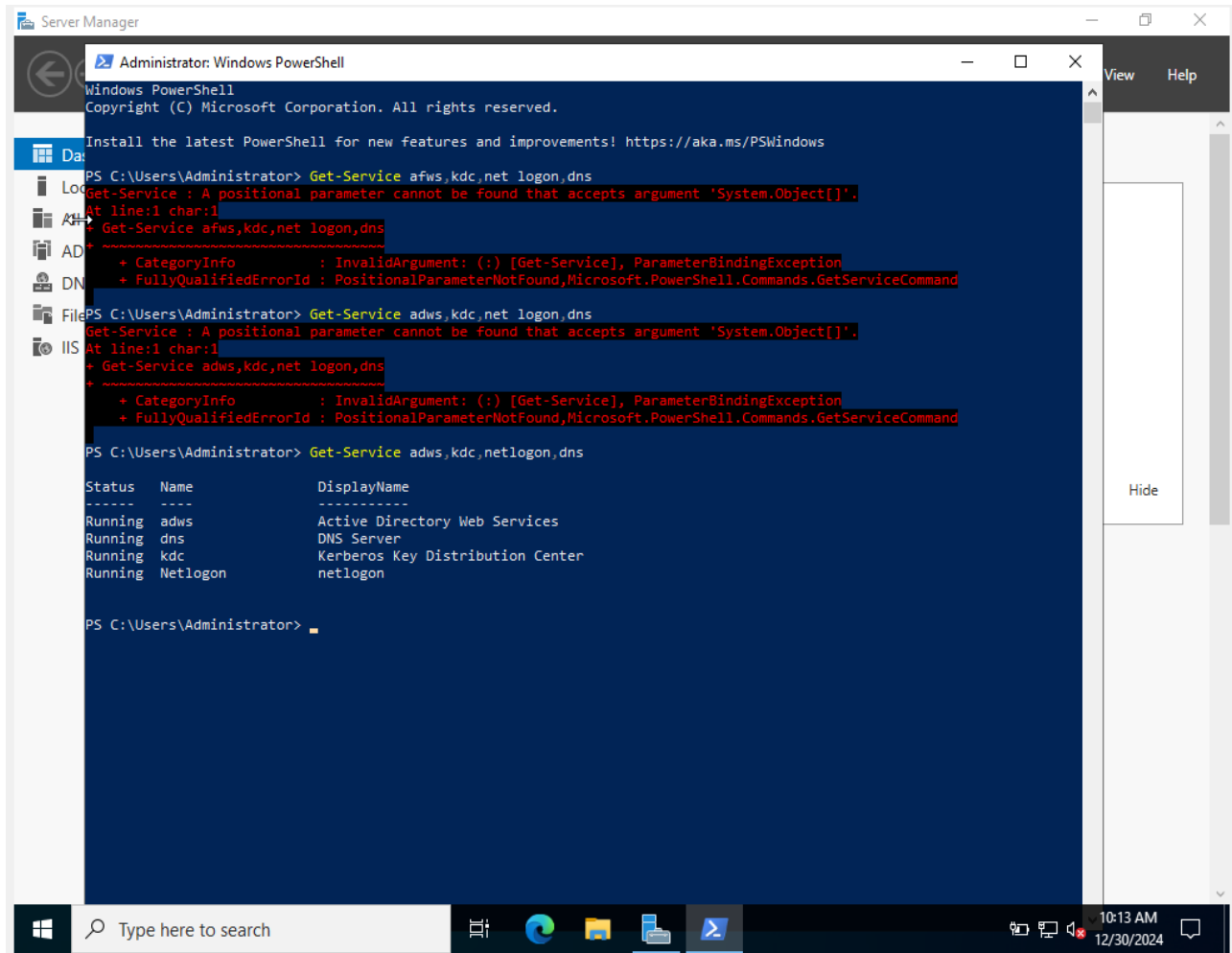
Step 18: Confirm Domain Controller Setup

To verify that the Domain Controller is correctly configured, you can check it via PowerShell.

Use the command below in Windows PowerShell to confirm the services were installed successfully:

`Get-Service adws,kdc,netlogon,dns`

You will see the status of all services on the next screen.



The screenshot shows a Windows PowerShell console window titled "Administrator: Windows PowerShell". The command `Get-Service afws,kdc,net logon,dns` was entered, resulting in an error: "Get-Service : A positional parameter cannot be found that accepts argument 'System.Object[]'". The user then corrected the command to `Get-Service adws,kdc,net logon,dns`, which also resulted in an error. Finally, the user entered `Get-Service adws,kdc,netlogon,dns`, which successfully returned the status of the services.

```
PS C:\Users\Administrator> Get-Service afws,kdc,net logon,dns
Get-Service : A positional parameter cannot be found that accepts argument 'System.Object[]'.
At line:1 char:1
+ Get-Service afws,kdc,net logon,dns
+ ~~~~~
+ CategoryInfo          : InvalidArgument: (:) [Get-Service], ParameterBindingException
+ FullyQualifiedErrorId : PositionalParameterNotFound,Microsoft.PowerShell.Commands.GetServiceCommand

PS C:\Users\Administrator> Get-Service adws,kdc,net logon,dns
Get-Service : A positional parameter cannot be found that accepts argument 'System.Object[]'.
At line:1 char:1
+ Get-Service adws,kdc,net logon,dns
+ ~~~~~
+ CategoryInfo          : InvalidArgument: (:) [Get-Service], ParameterBindingException
+ FullyQualifiedErrorId : PositionalParameterNotFound,Microsoft.PowerShell.Commands.GetServiceCommand

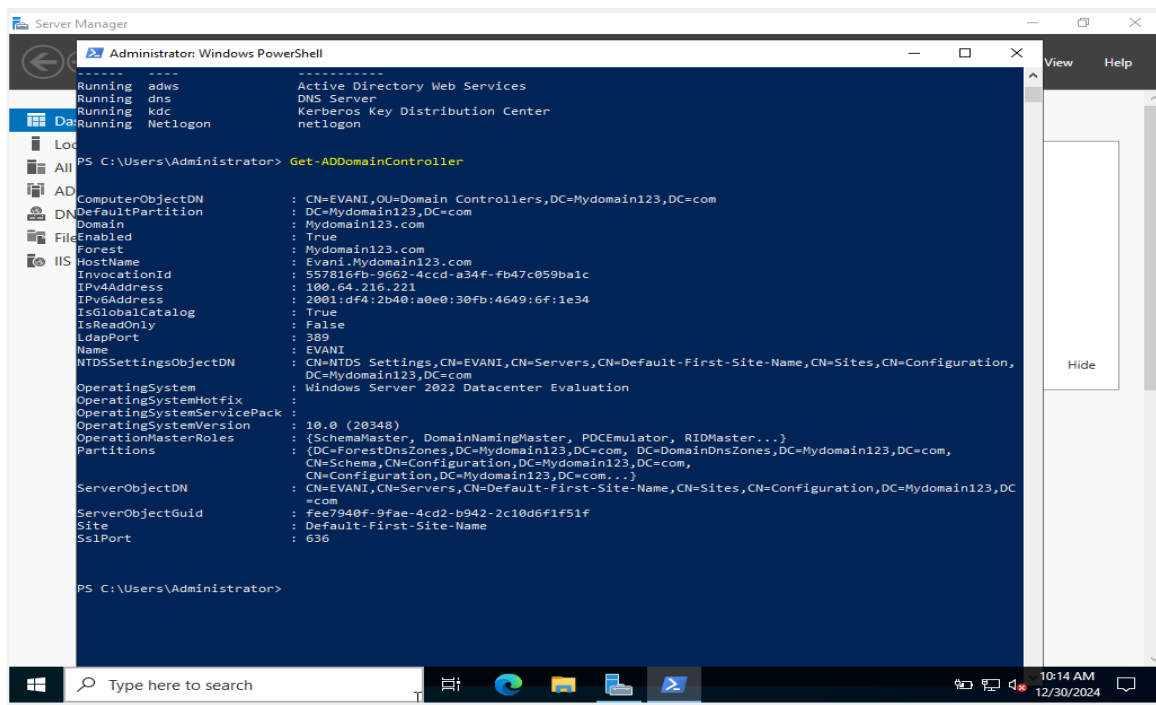
PS C:\Users\Administrator> Get-Service adws,kdc,netlogon,dns

Status Name                DisplayName
-----
Running adws                Active Directory Web Services
Running dns                DNS Server
Running kdc                Kerberos Key Distribution Center
Running Netlogon           netlogon

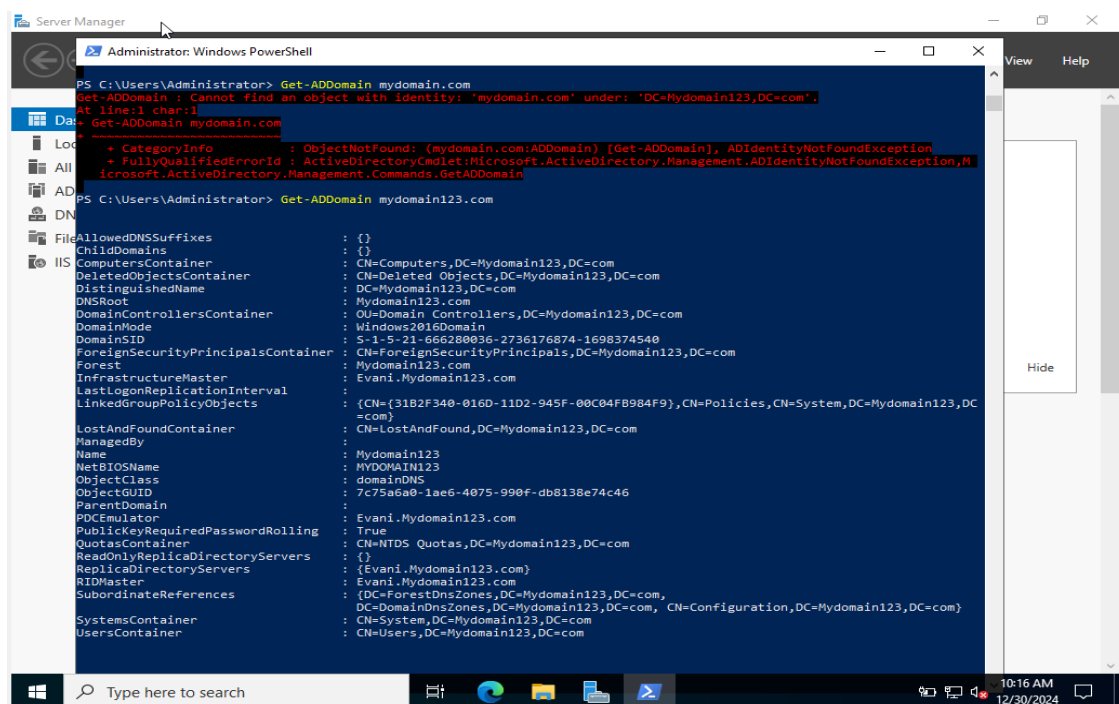
PS C:\Users\Administrator>
```

Step 19: Use the command **Get-ADDomainController** to display the full configuration details of the domain controller. The following screen will present the information.

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Step 20: Run the command below to obtain detailed information about your domain:
Get-ADDomain mydomain.com
 The resulting screen will appear as shown.

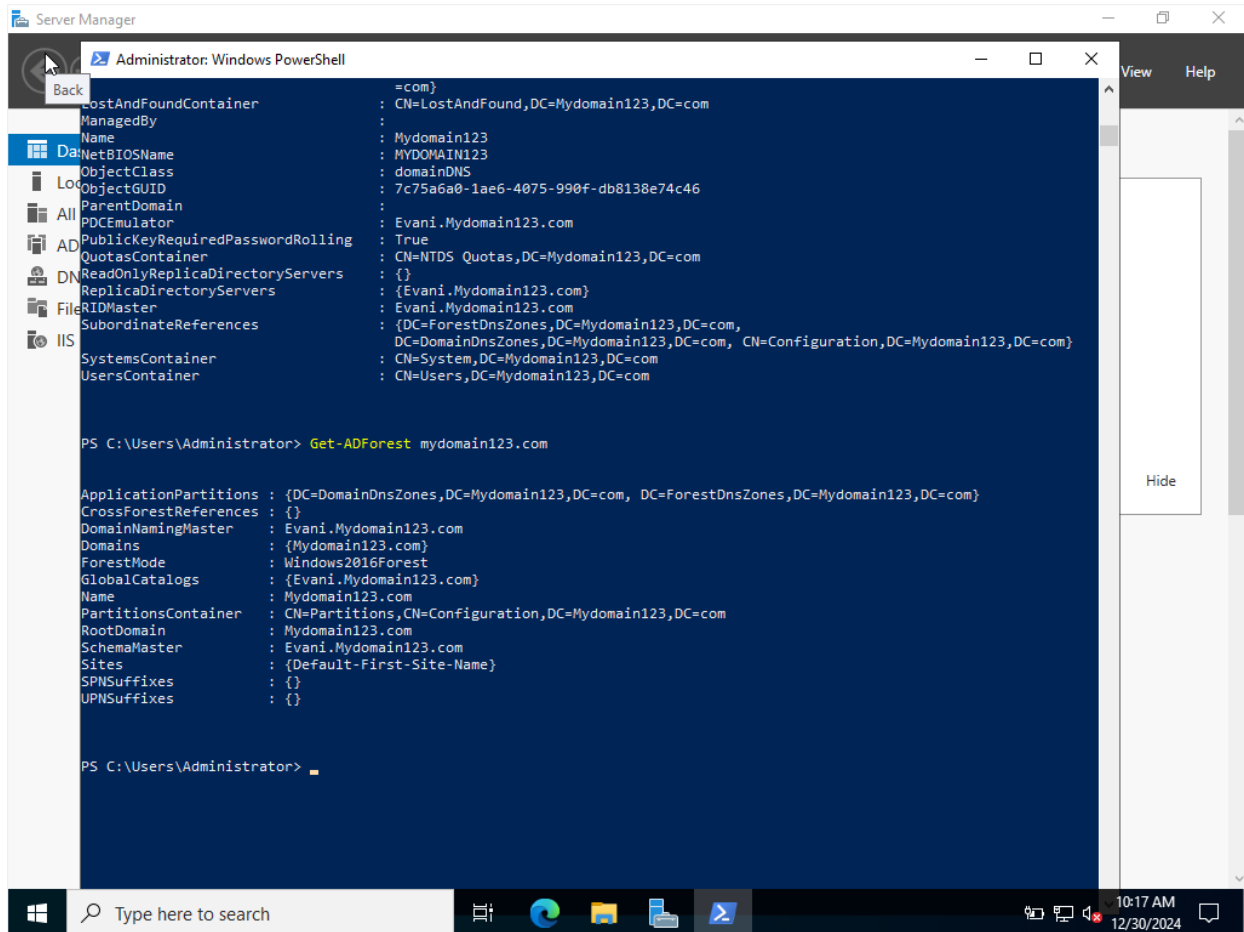


Step 21: Run the command below to display information about your Active Directory Forest:

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Get-ADForest mydomain.com

You should see the following output.



The screenshot shows a Windows Server Manager window with a PowerShell console open. The console displays the output of the `Get-ADForest mydomain123.com` command. The output is divided into two sections: a list of domain properties and a detailed list of application partitions.

```
PS C:\Users\Administrator> Get-ADForest mydomain123.com

ApplicationPartitions : {DC=DomainDnsZones,DC=Mydomain123,DC=com, DC=ForestDnsZones,DC=Mydomain123,DC=com}
CrossForestReferences : {}
DomainNamingMaster    : Evani.Mydomain123.com
Domains               : {Mydomain123.com}
ForestMode            : Windows2016Forest
GlobalCatalogs       : {Evani.Mydomain123.com}
Name                  : Mydomain123.com
PartitionsContainer    : CN=Partitions,CN=Configuration,DC=Mydomain123,DC=com
RootDomain            : Mydomain123.com
SchemaMaster          : Evani.Mydomain123.com
Sites                 : {Default-First-Site-Name}
SPNSuffixes           : {}
UPNSuffixes           : {}

PS C:\Users\Administrator>
```

The background of the PowerShell window shows a list of domain properties:

```
LostAndFoundContainer : CN=LostAndFound,DC=Mydomain123,DC=com
ManagedBy            : 
Name                  : Mydomain123
NetBIOSName           : MYDOMAIN123
ObjectClass            : domainDNS
ObjectGUID            : 7c75a6a0-1ae6-4075-990f-db8138e74c46
ParentDomain          : 
PDCEmulator           : Evani.Mydomain123.com
PublicKeyRequiredPasswordRolling : True
QuotasContainer       : CN=NTDS Quotas,DC=Mydomain123,DC=com
ReadOnlyReplicaDirectoryServers : {}
ReplicaDirectoryServers : {Evani.Mydomain123.com}
RIDMaster             : Evani.Mydomain123.com
SubordinateReferences : {DC=ForestDnsZones,DC=Mydomain123,DC=com,
                        DC=DomainDnsZones,DC=Mydomain123,DC=com, CN=Configuration,DC=Mydomain123,DC=com}
SystemsContainer      : CN=System,DC=Mydomain123,DC=com
UsersContainer         : CN=Users,DC=Mydomain123,DC=com
```