

Webinars

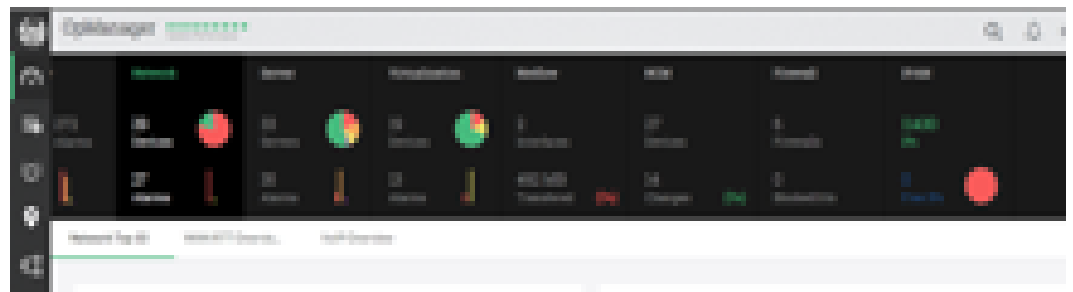
**EXPERTS IN EVERYTHING
MICROSOFT HYPER-V.**



Posted on January 8, 2009 by **Daniel Petri** in Windows Server 2008 with 1 Comment

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Microsoft Active Directory provides the structure to centralize the network management and resources across the entire domain. Active Directory uses Domain Controllers to keep this central network users. In order to configure a Windows Server 2008 machine to act as Domain Controller prerequisites should be taken into account, and several steps should be performed. In this article these prerequisites and steps of creating a new Windows Server 2008 Domain Controller for a new forest.



Considerations when Installing a new Windows Server

- You must make forest and domain functional level decisions that determine whether your forest contains domain controllers that run Windows 2000 Server, Windows Server 2003, or both. To read more about forest and domain functional levels please refer to the links below.
- Domain controllers running the Microsoft Windows NT Server 4.0 operating system are NOT supported by Windows Server 2008.
- Servers running Windows NT Server 4.0 are NOT supported by domain controllers that are running Windows Server 2008, meaning you MUST have additional DCs running Windows 2000/2003 to support older NT 4 servers.
- The first Windows Server 2008 domain controller in a forest must be a global catalog server.

Considerations when Installing a new Windows Server 2008 domain in an existing Windows 2000/2003 forest

When you install AD to create the first domain controller in a new Windows Server 2008 domain in an existing Windows 2000/2003 forest, there are several considerations in mind:

- Before you create a new Windows Server 2008 domain in a Windows 2000/2003 forest, you must extend the schema to Windows Server 2008 by running ADPREP /forestprep. To read more about this process please refer to the links below or my [“Windows Server 2008 ADPREP”](#) article.
- You must make domain functional level decisions that determine whether your domain contains domain controllers that run Windows 2000 Server, Windows Server 2003, or both. To read more about forest and domain functional levels please refer to the links below.
- I recommend that you host the PDC emulator operations master role in the forest root domain on a server running Windows Server 2008. For more information about FSMO Roles, please read my [“Understanding Active Directory”](#) and [“Transferring FSMO Roles”](#) articles.

General considerations

Make sure you read and follow the requirements described in my [“Active Directory on Windows Server 2008 Requirements”](#) article.

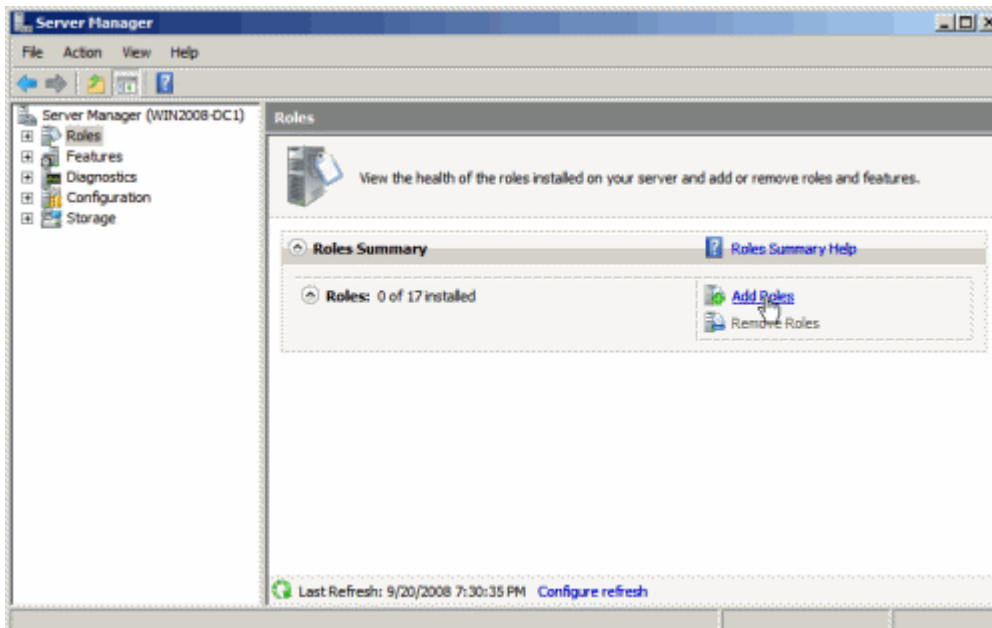
Installing Active Directory Domain Services (AD-DS)

In Windows Server 2008, unlike previous server operating systems, there is an additional step of running DCPROMO to promote the server to Domain Controller and installing Active Directory Domain Services (AD-DS) role on the server. In fact, the AD-DS role can act as a Domain Controller, but you will still need to run DCPROMO the regular way.

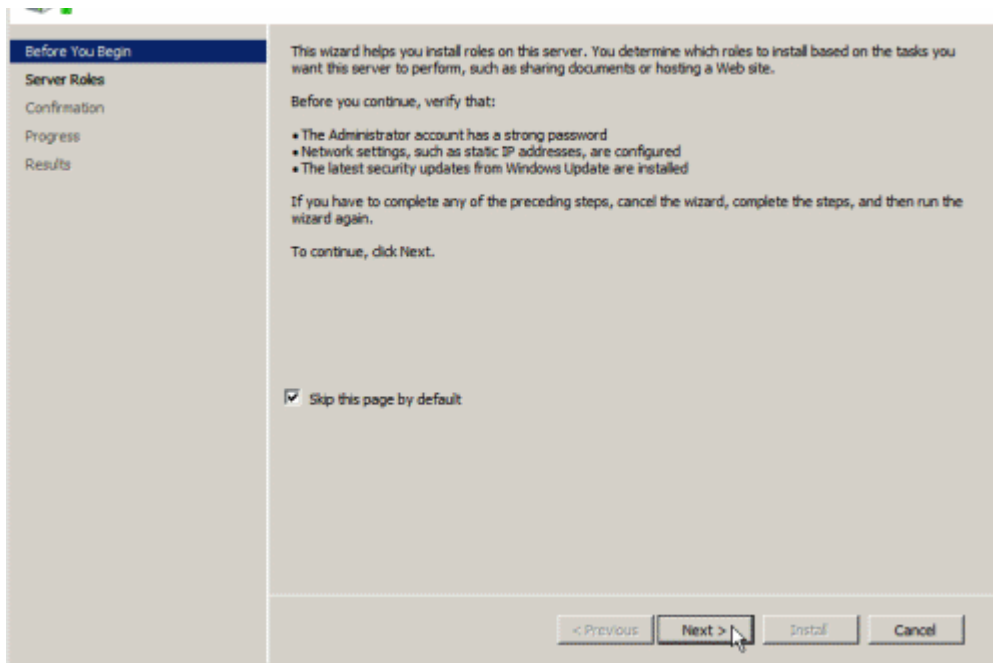
Method 1 – Server Manager/Initial Configuration Tasks

Roles can and should be added from Server Manager (but they can also be initiated from the Initial Configuration Wizard that auto-opens the first time you log on to the server).

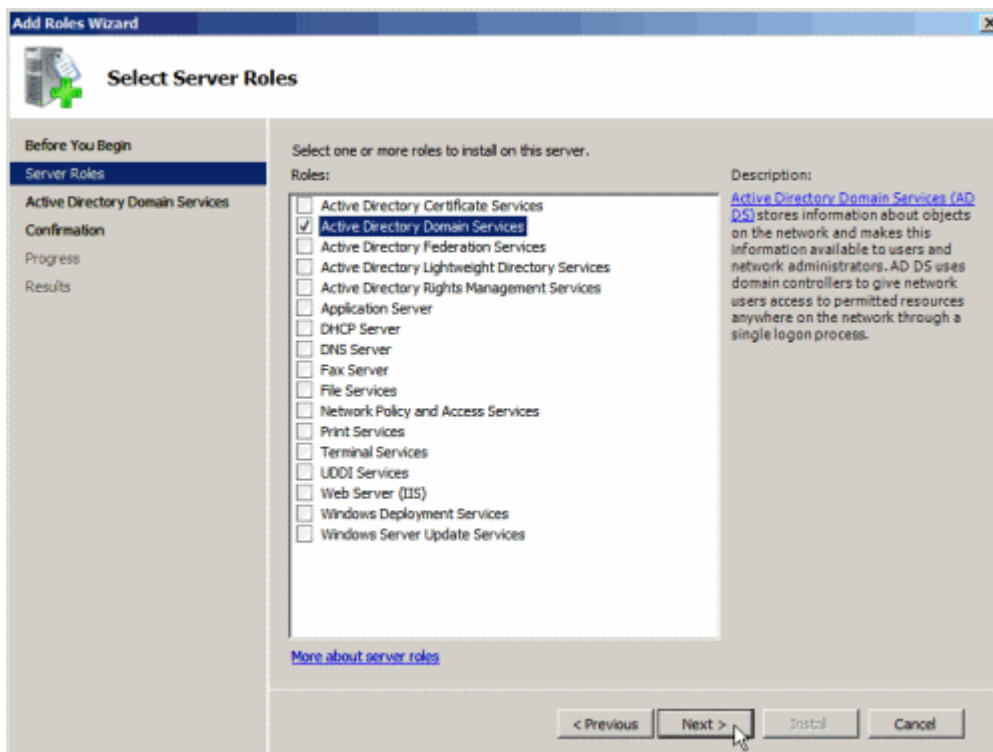
1. Open **Server Manager** by clicking the icon in the Quick Launch toolbar, or from the Administrative Tools folder.
2. Wait till it finishes loading, then click on **Roles > Add Roles** link.



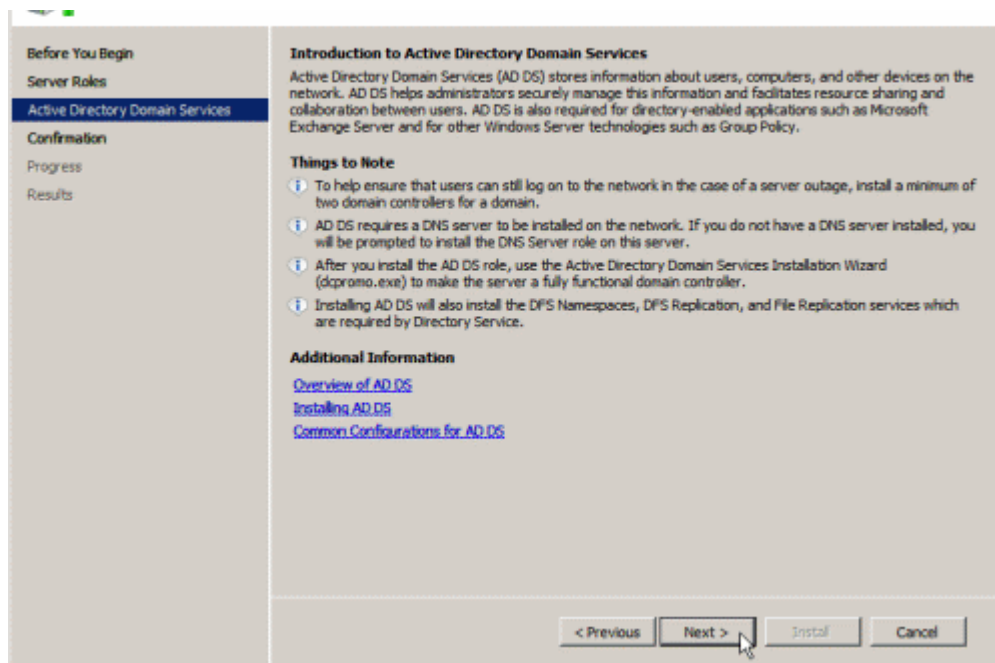
1. In the Before you begin window, click **Next**.



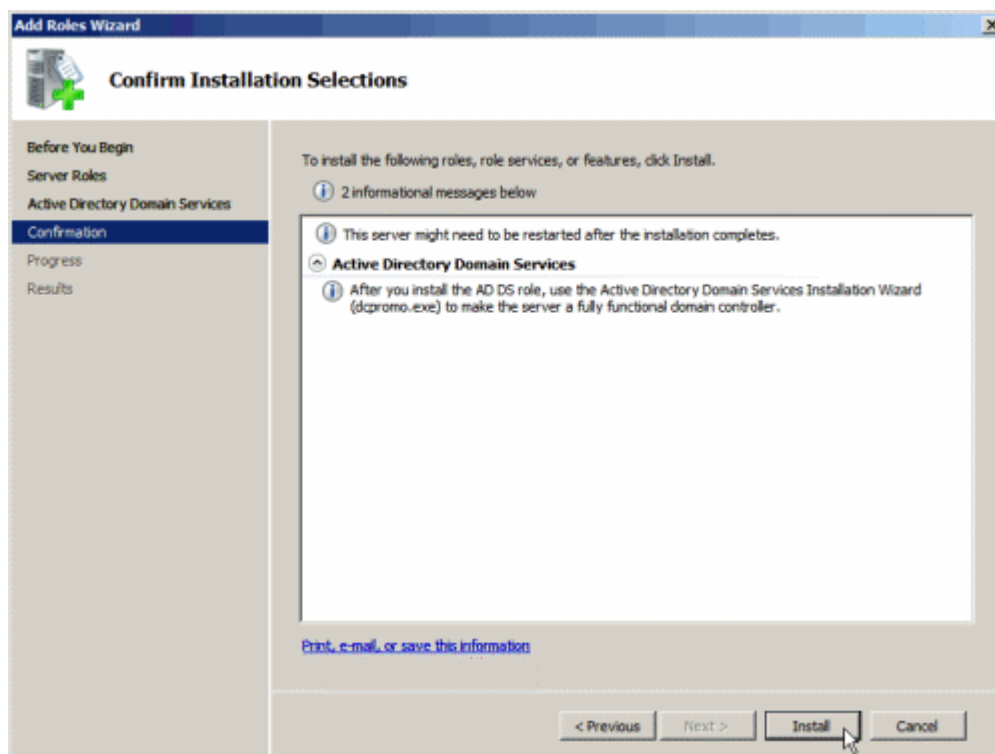
1. In the Select Server Roles window, click to select **Active Directory Domain Services**, an



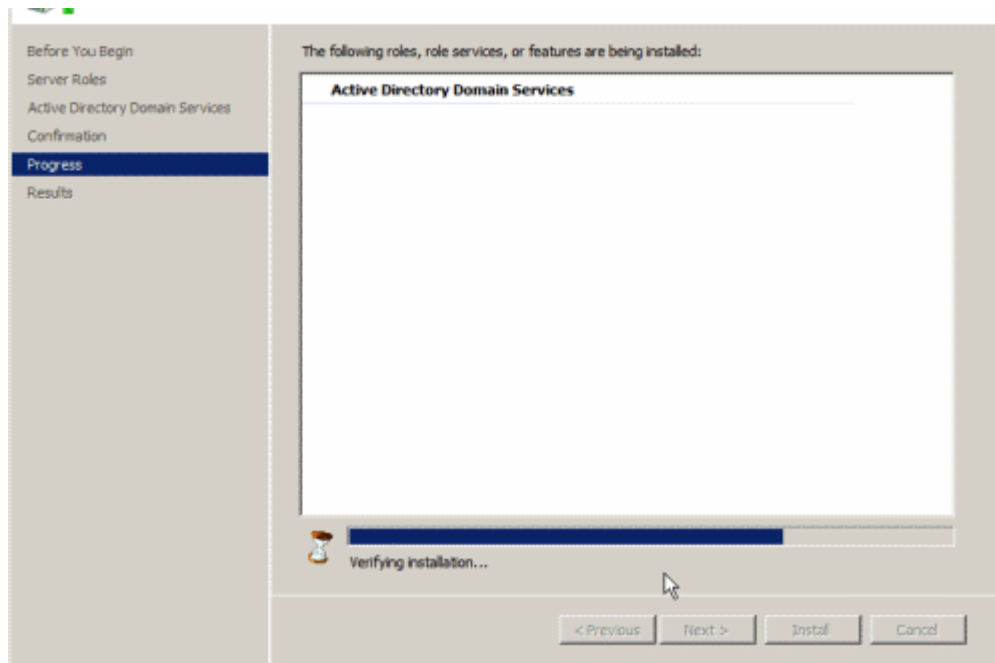
1. In the Active Directory Domain Services window read the provided information if you wa



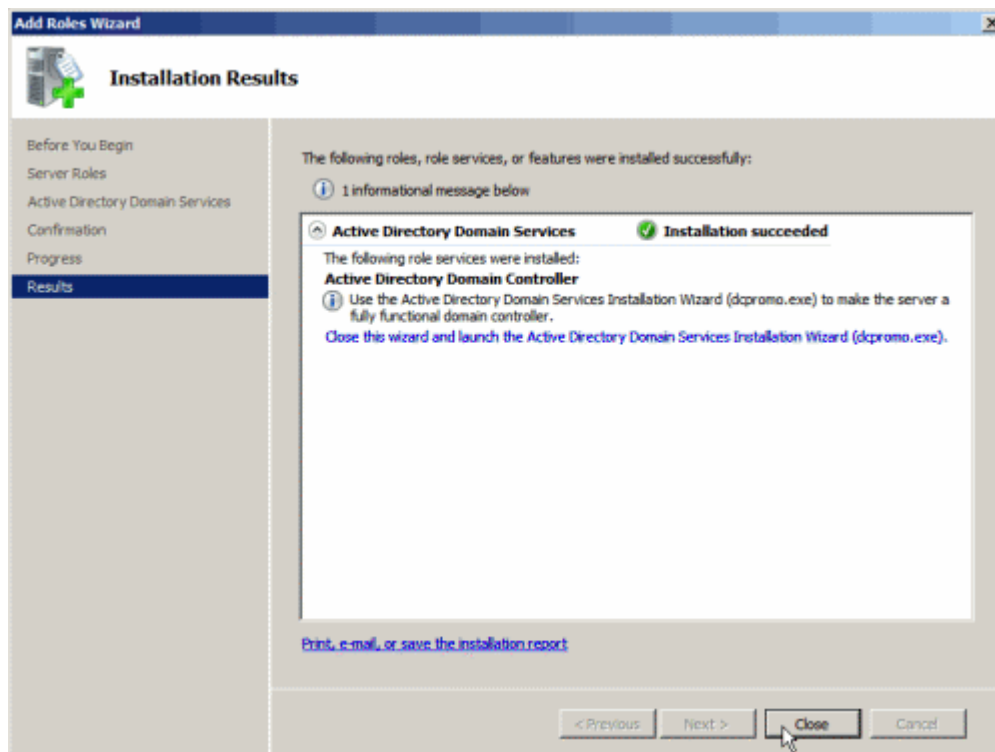
1. In the Confirm Installation Selections, read the provided information if you want to, and



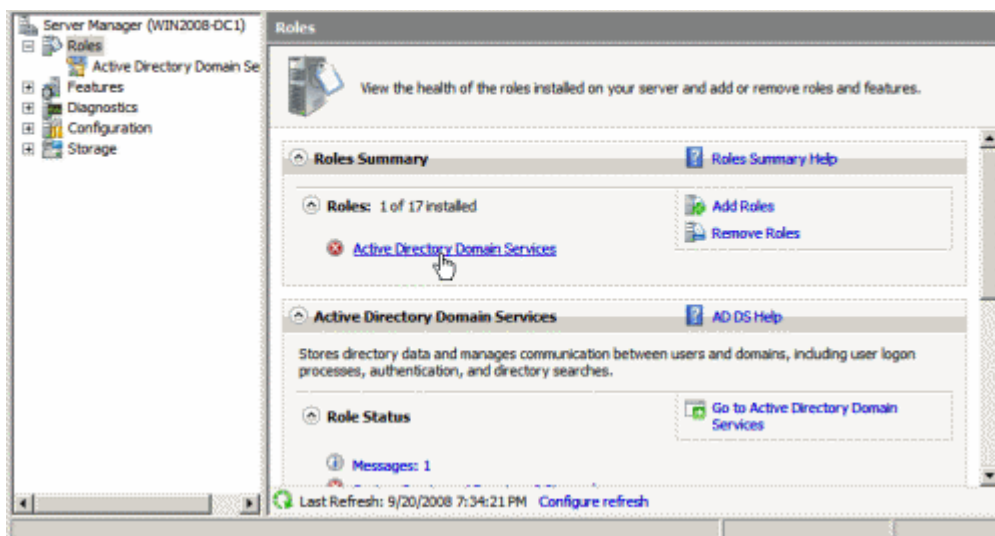
1. Wait till the process completes.



1. When it ends, click **Close**.

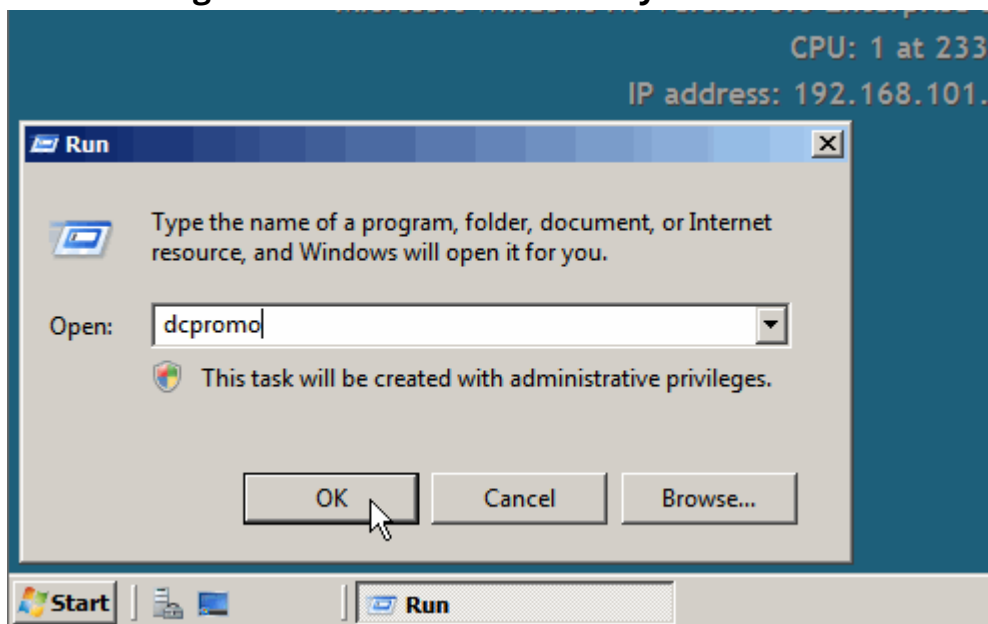


1. Going back to Server Manager, click on the **Active Directory Domain Services** link, and information linked to it, because the DCPROMO command has not been run yet.

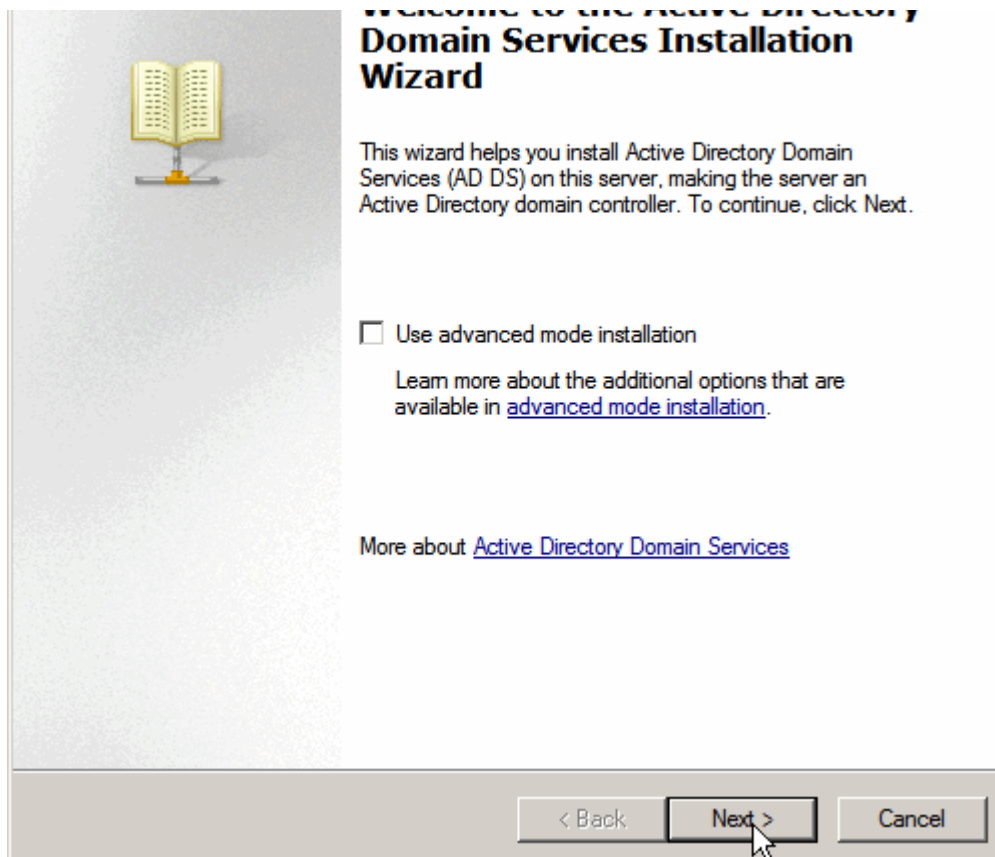


1. Now you can click on the DCPROMO link, or read on.

1. To run DCPROMO, enter the command in the **Run** command, or click on the DCP Manager > Roles > Active Directory Domain Services.



1. Depending upon the question if AD-DS was previously installed or not, the Active Installation Wizard will appear immediately or after a short while. Click **Next**.



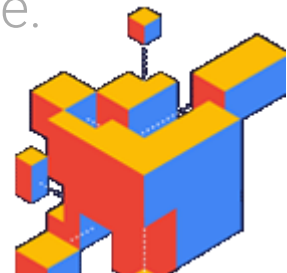
Note: The Advanced features of DCPROMO will be discussed in a future article.

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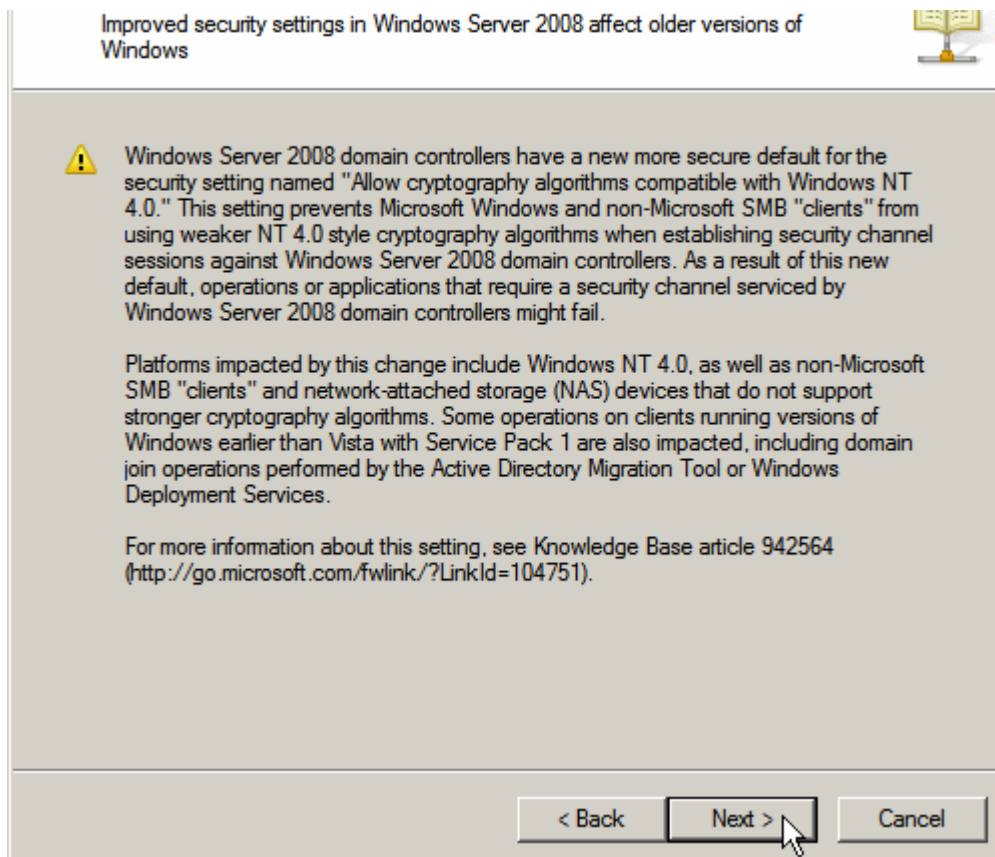


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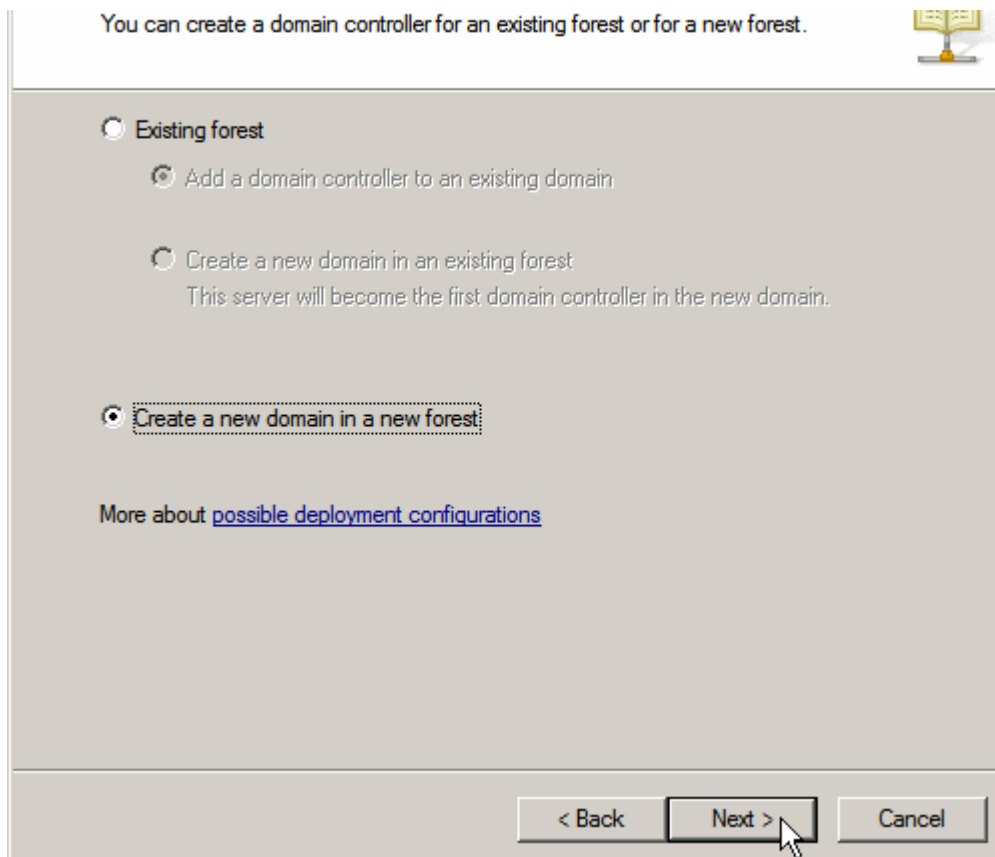
TRY IT FREE



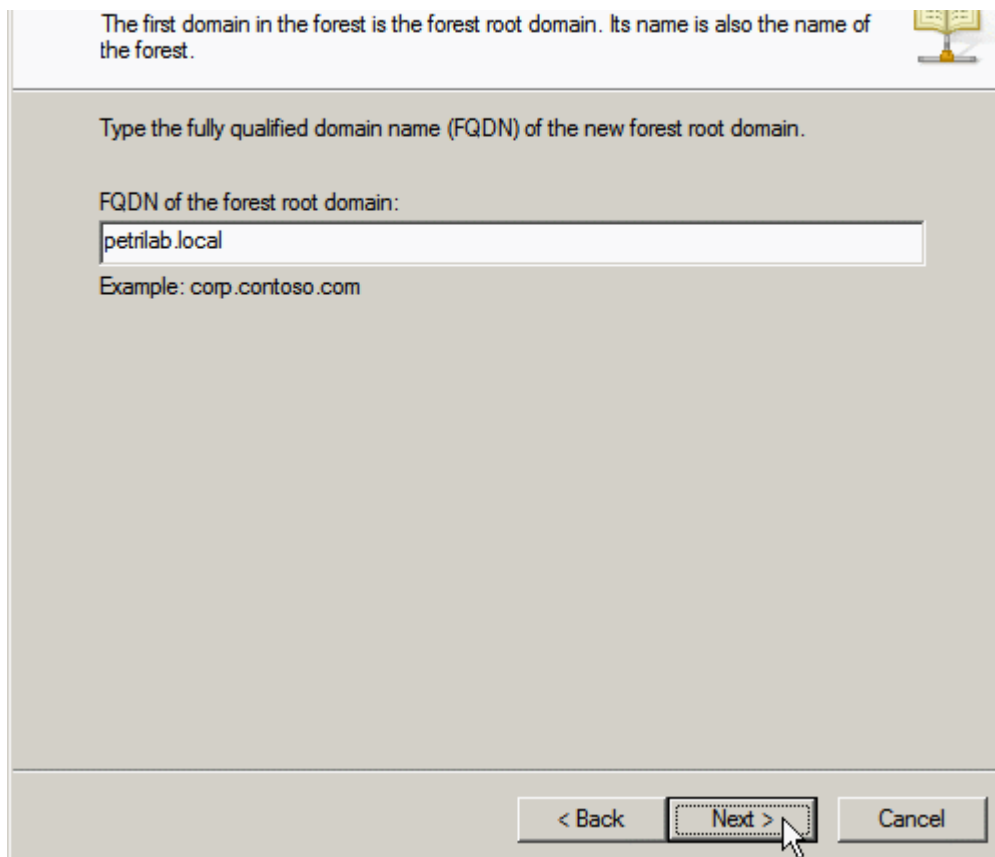
1. In the Operating System Compatibility window, read the provided information and



1. In the Choosing Deployment Configuration window, click on **"Create a new domain"** and then click on **Next.**



1. Enter an appropriate name for the new domain. Make sure you pick the right don domains is a task you will not wish to perform on a daily basis. Click **Next**.



The first domain in the forest is the forest root domain. Its name is also the name of the forest.

Type the fully qualified domain name (FQDN) of the new forest root domain.

FQDN of the forest root domain:

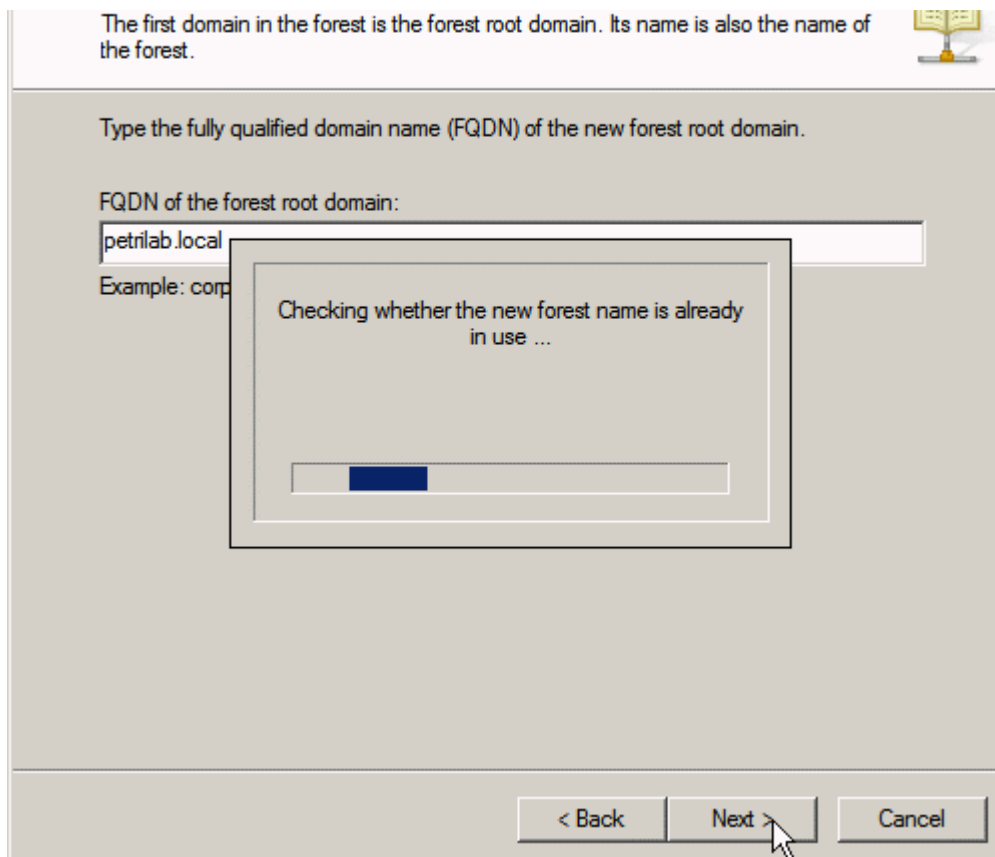
petrilab.local

Example: corp.contoso.com

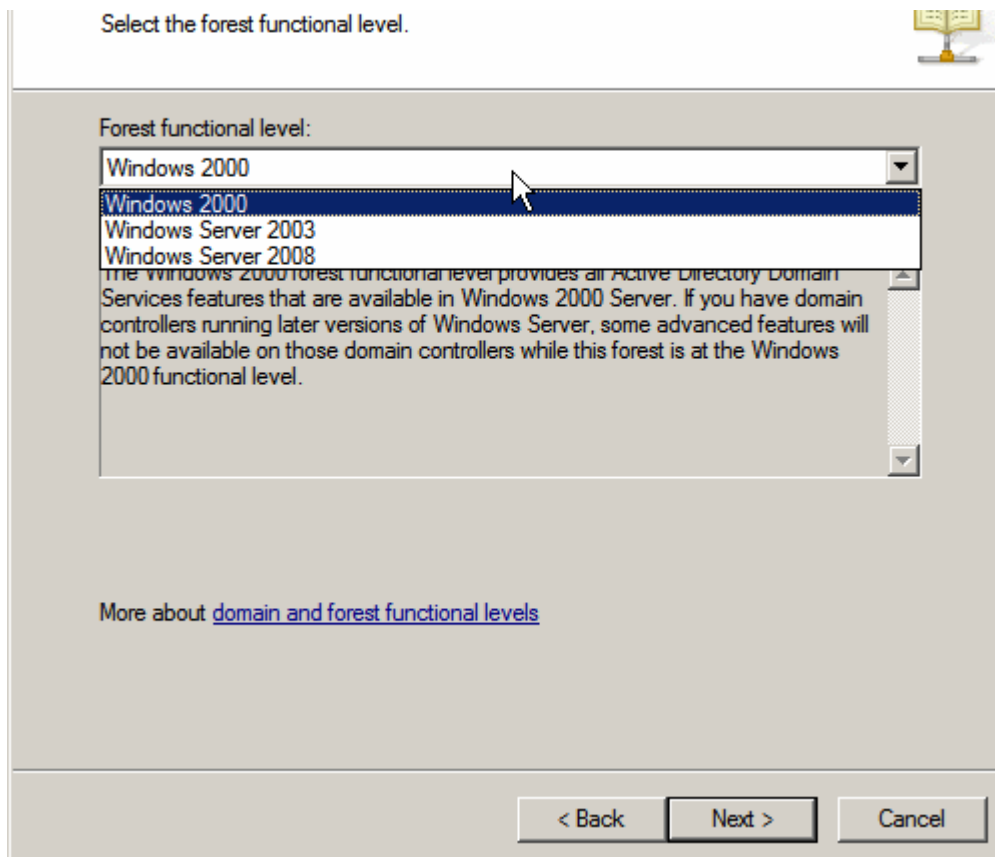
< Back Next > Cancel

Note: Do NOT use single label domain names such as “mydomain” or similar. You MUST use “mydomain.local” or “mydomain.com” and so on.

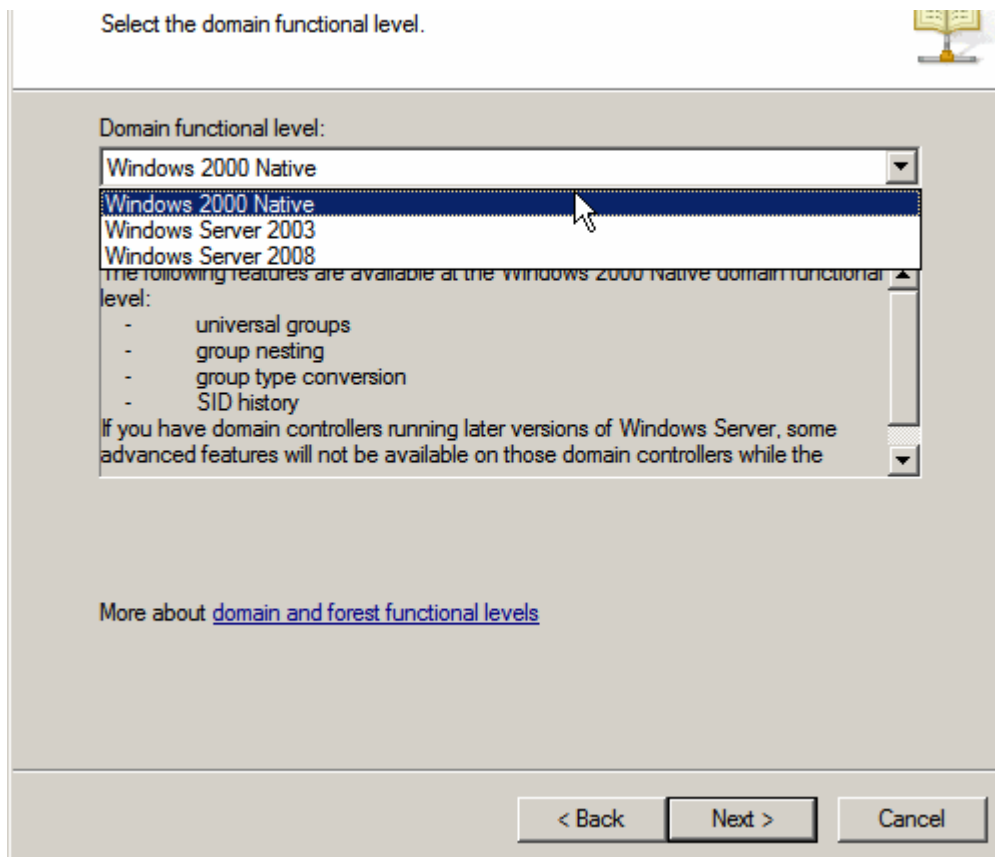
The wizard will perform checks to see if the domain name is not already in use on the lo



1. Pick the right forest function level. Windows 2000 mode is the default, and it allow 2000, Windows Server 2003 and Windows Server 2008 Domain Controllers to the **"Understanding Windows Server 2008 Active Directory Domain and Forest F"** more information on that.



1. Pick the right domain function level. Windows 2000 Native mode is the default, and Windows 2000, Windows Server 2003 and Windows Server 2008 Domain Controllers are creating.



Note: If you select “Windows Server 2008” for the forest function level, you will Not be p function level. Read more about domain and forest function levels on my “[Understanding Active Directory Domain and Forest Functional Levels](#)” article.

1. The wizard will perform checks to see if DNS is properly configured on the local ne server has been configured, therefore, the wizard will offer to automatically instal

Select the domain functional level.

Domain functional level:
Windows 2000 Native

Details:

The following level:

- universal
- global
- global
- SID

If you have domain advanced features

Examining DNS configuration...

More about [domain and forest functional levels](#)

< Back Next > Cancel

Active Directory Domain Services Installation Wizard

Additional Domain Controller Options

Select additional options for this domain controller.

☒ DNS server

☒ Global catalog

☐ Read-only domain controller (RODC)

Additional information:

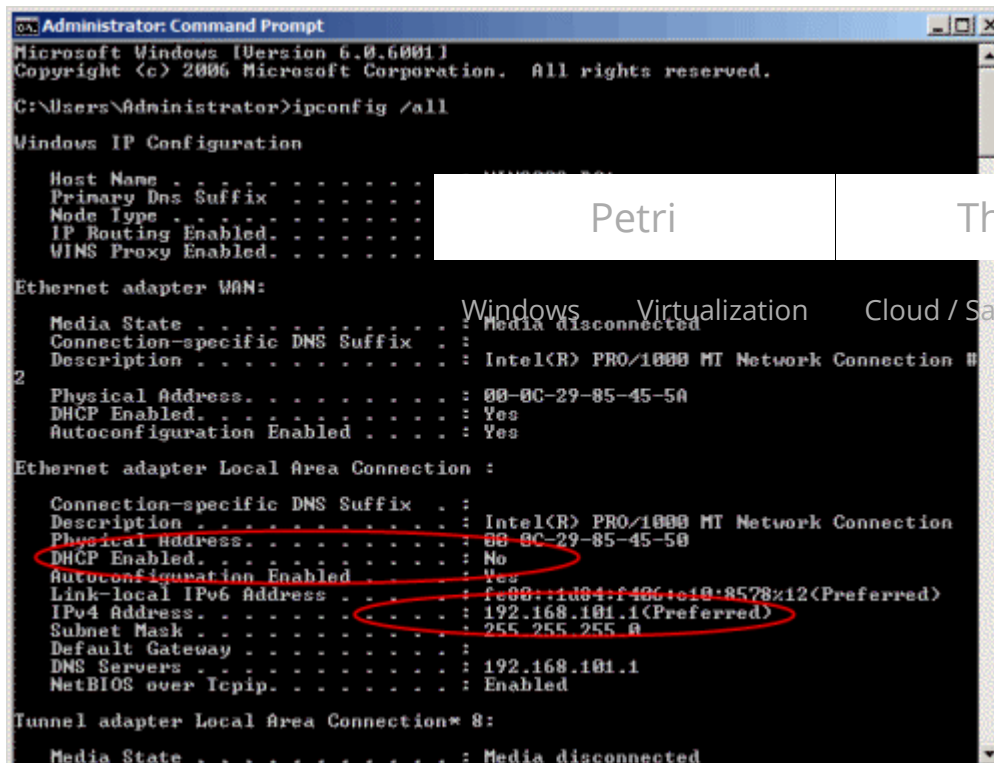
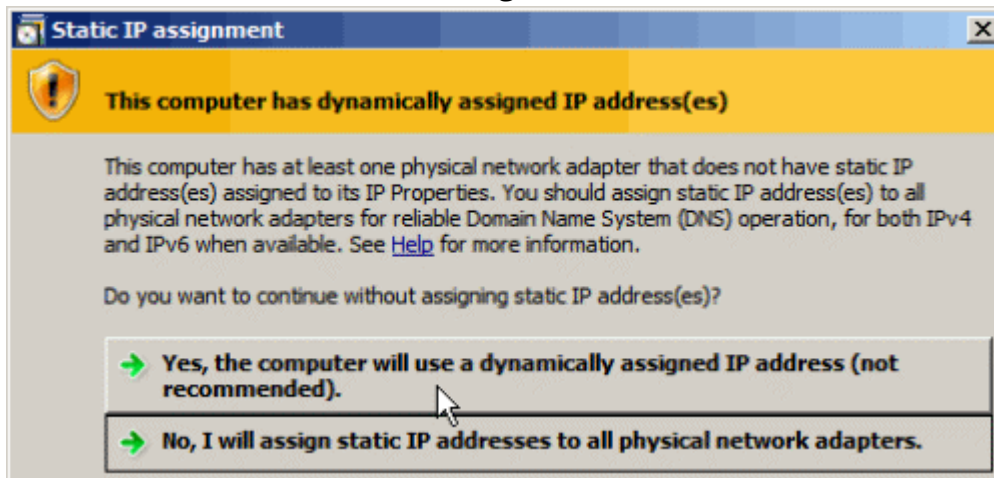
The first domain controller in a forest must be a global catalog server and cannot be an RODC.

We recommend that you install the DNS Server service on the first domain controller.

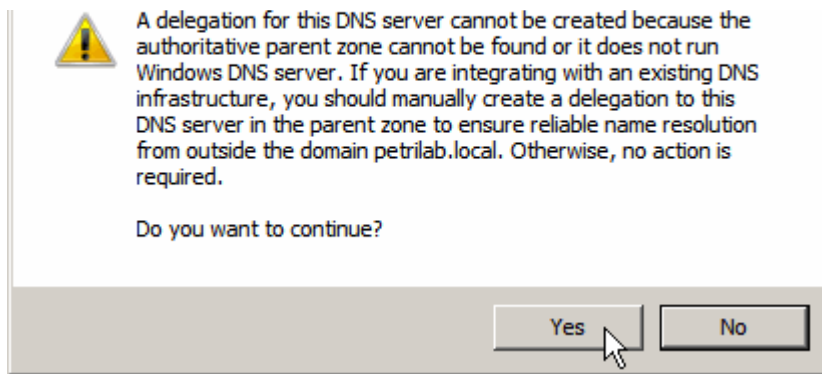
More about [additional domain controller options](#)

< Back Next > Cancel

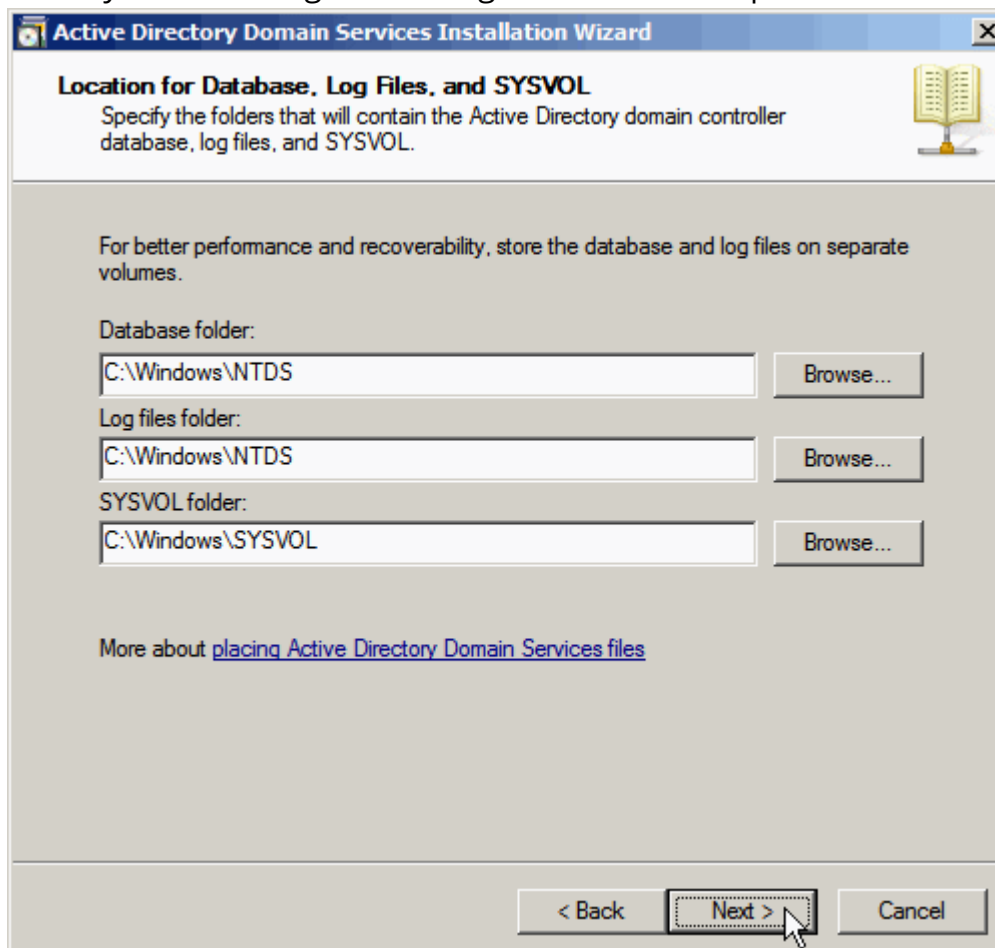
1. It's most likely that you'll get a warning telling you that the server has one or more dynamically assigned IP address(es). Running **IPCONFIG /all** will show that this is not the case, because as you can clear a static IP Address. So, where did this come from? The answer is IPv6. I did not make a static IPv6 Address, hence the warning. In a network where IPv6 is not used, you can safely ignore the warning.



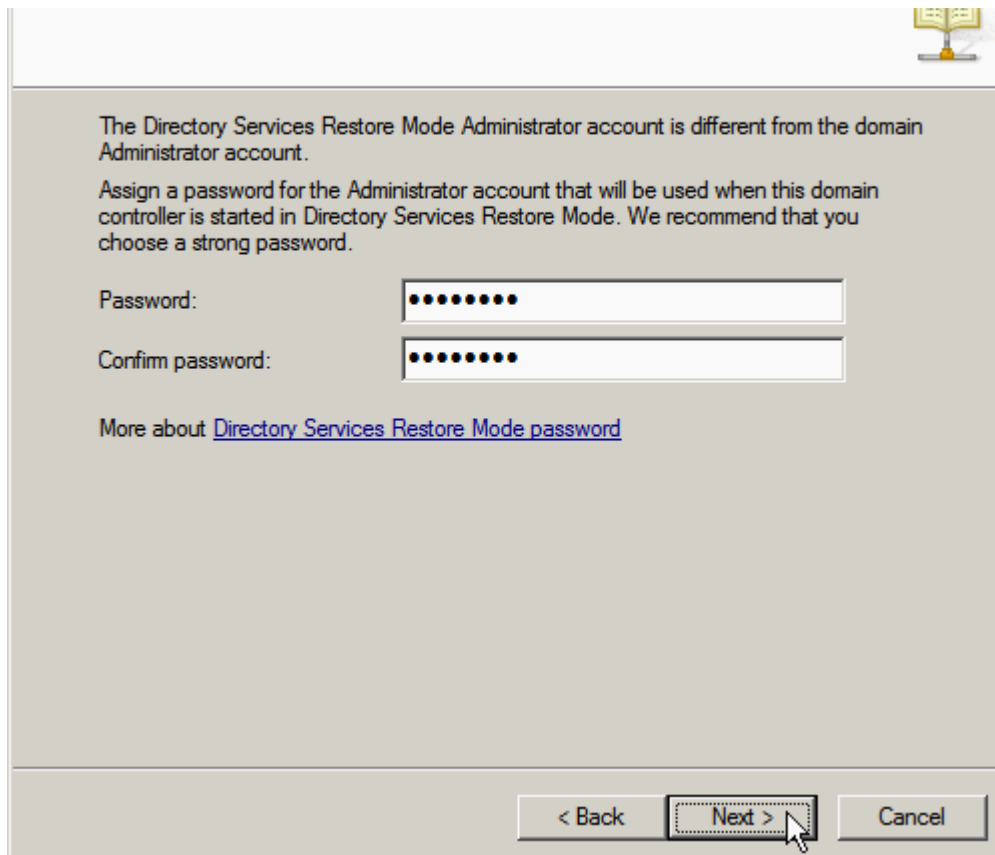
1. You'll probably get a warning about DNS delegation. Since no DNS has been configured yet, click **Yes**.



1. Next, change the paths for the AD database, log files and SYSVOL folder. For large your DC configuration to get the maximum performance. When satisfied, click **Ne**



1. Enter the password for the Active Directory Recovery Mode. This password must be constant because it stays constant while regular domain user passwords expire (based upon the time configured for the domain, the default is 42 days), it does not. This password should be at least 14 characters long. I strongly suggest that you do NOT use the regular administrator's password. Write it down and securely store it. Click **Next**.



The Directory Services Restore Mode Administrator account is different from the domain Administrator account.

Assign a password for the Administrator account that will be used when this domain controller is started in Directory Services Restore Mode. We recommend that you choose a strong password.

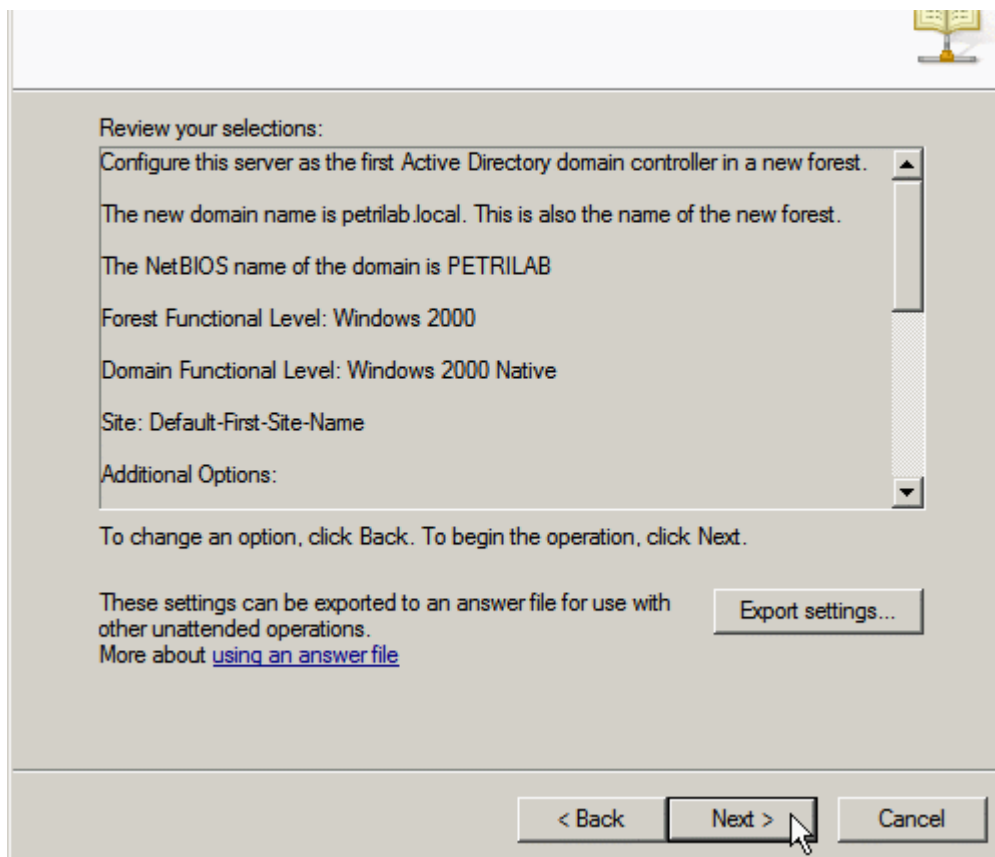
Password:

Confirm password:

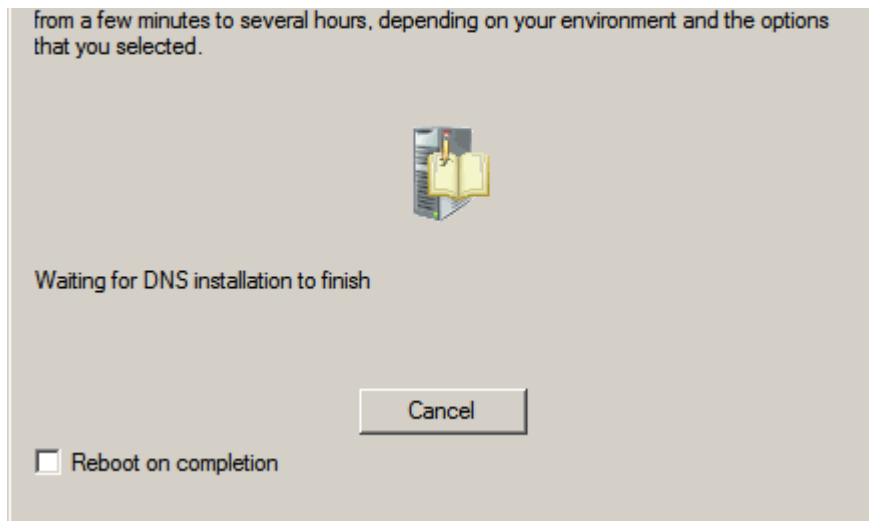
More about [Directory Services Restore Mode password](#)

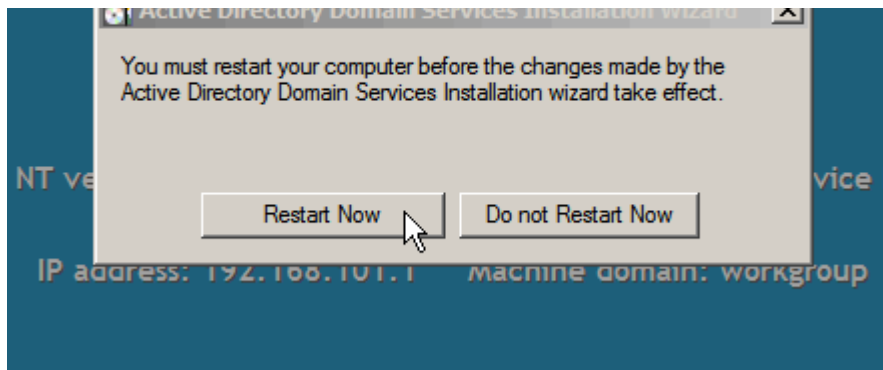
< Back Next > Cancel

1. In the Summary window review your selections, and if required, save them to an i satisfied, click **Next**.



1. The wizard will begin creating the Active Directory domain, and when finished, you reboot your computer.





Note: You can automate the rebooting process by checking the Reboot on Completion checkbox.

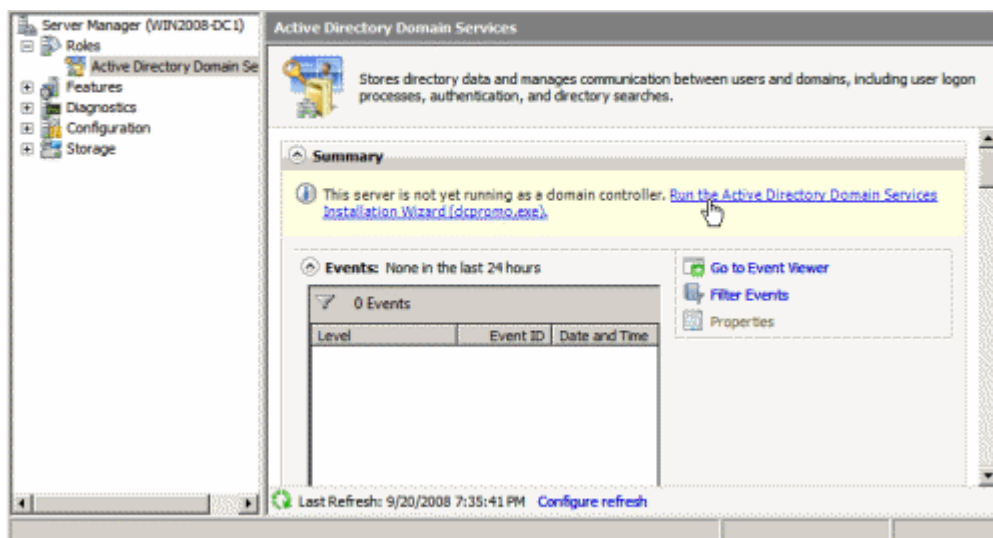
To automate domain controller installations, you can use an answer file or you can specify parameters at the command line. More on that in my [“Creating an Unattended Installation of Windows Server 2008”](#) article.

Note: As written in my [“Installing Active Directory on Windows 2008 Server Core”](#) article, Windows Server 2008 Server Core machine REQUIRES you to perform an automated installation of Active Directory, as there is NOT DCPROMO GUI on Server Core.

Your server now acts as a Domain Controller. Make sure you properly back it up. You can use management tools such as Active Directory Users and Computers, examine the Event Log, and examine the shares that have been created.

Links

[AD DS Installation and Removal Step-by-Step Guide](#)



Method 2 – Servermanagercmd.exe

Servermanagercmd.exe is the command prompt equivalent of the Add Roles and Add Features. Through the use of various command line options, you can quickly and easily add or remove features to your server, including the AD-DS role.

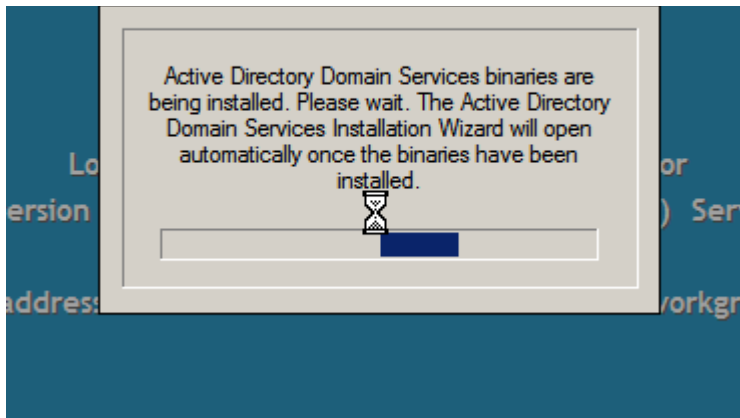
To install AD-DS by using Servermanagercmd.exe, simply enter the following command in the command prompt:

```
1 Servermanagercmd.exe -I ADDS-Domain-Controller
```

Let the command run and when it finishes, AD-DS will be installed on the server.

Method 3 – Letting DCPROMO do the job

Oh yes. If you forget to install AD-DS or simply want to skip clicking on some windows, you can use the dcpromo command and before it is executed, the server will check to see if the AD-DS binaries are installed. If not, it will auto-install.



After you complete the Add Roles Wizard, either click the link to start the Active Directory Dom or close Server Manager and manually run DCPROMO from the Run command.

Running DCPROMO

After installing the AD-DS role, we need to run DCPROMO to perform the actual Active Director installation.

Note: This guide assumes this is the first Domain controller in the forest, thus creating a new c guide on how to add additional Domain Controllers to existing domains, please read my upcor Windows Server 2008 Domain Controllers in your Existing Active Directory Domain” article.



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Rubul Gogoi • 2 years ago

hii.. i am not able to install active directory database in my windows server 2008. A message has dynamically assign IP address". I have uncheck IPv6 from the local area connection properties displaying again. I don't know what to do. I have given IP address, subnet mask, default gateway plz help me as soon as possible.. i have type ipconfig/all in the CMD. it displays that Autoconfiguration this message is displaying. I don't know how to disable Autoconfiguration... plz help me..

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