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How to Install and Configure Windows Server 2008 DHCP Server

By [Huzaifah Ahmad](#) | Published 12/22/2009 | [Windows 2008](#) | Unrated**How to Install and Configure Windows Server 2008 DHCP Server**

Dynamic Host Configuration Protocol (DHCP) is a network protocol that enables a server to automatically assign an IP address to a computer from a defined range of numbers (i.e., a scope) configured for a given network.

When a computer uses a static IP address, it means that the computer is manually configured to use a specific IP address. One problem with static assignment, which can result from user error or inattention to detail, occurs when two computers are configured with the same IP address. This creates a conflict that results in loss of service. Using DHCP to dynamically assign IP addresses minimizes these conflicts.

To start the DHCP installation process, you can click Add Roles from the Initial Configuration Tasks window or from Server Manager Roles > Add Roles.

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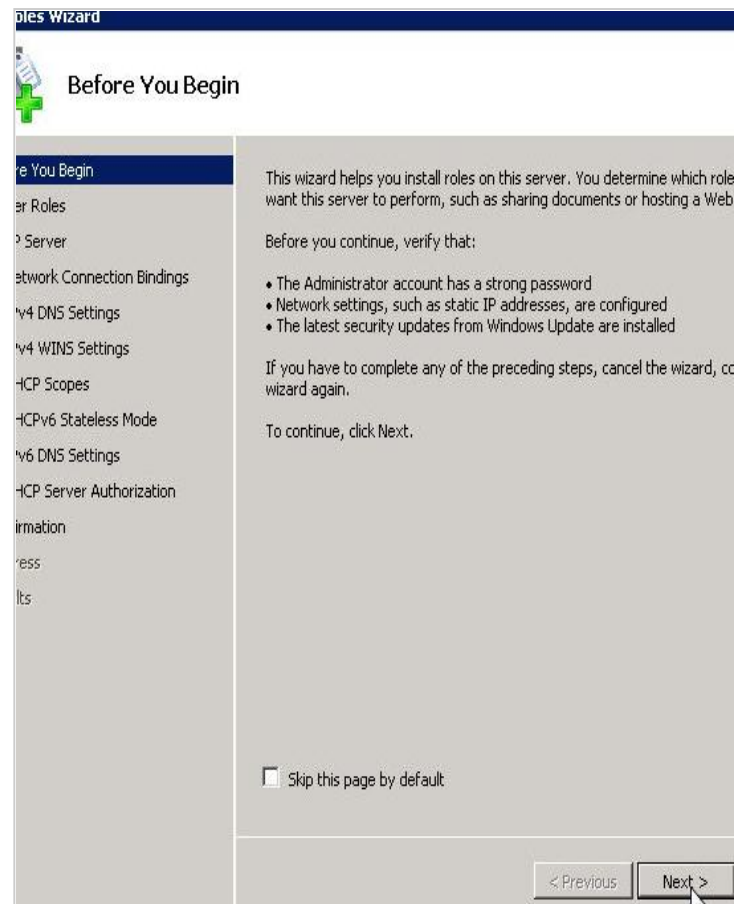
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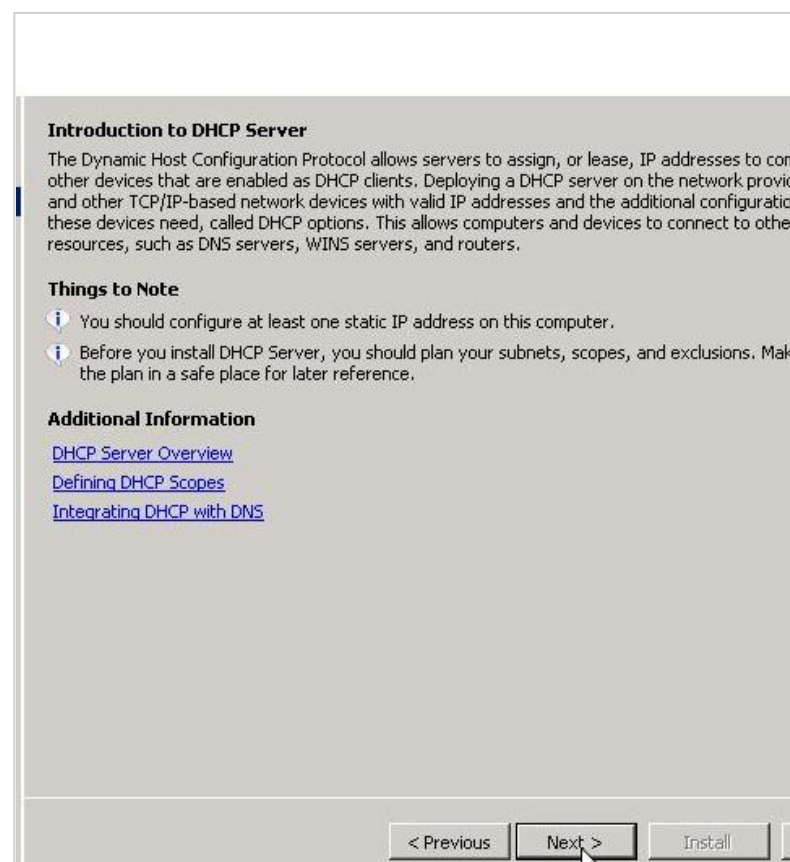
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When the **Add Roles Wizard** comes up, you can click **Next** on that screen.

Next, select that you want to add the **DHCP Server Role**, and click **Next**.



Click Next >

Connection Bindings

One or more network connections having a static IP address were detected. Each network connection can be used to service DHCP clients on a separate subnet.

Select the network connections that this DHCP server will use for servicing clients.

Network Connections:

IP Address	Type
<input checked="" type="checkbox"/> 192.168.1.200	IPv4

Details

Name:	Local Area Connection
Network Adapter:	Local Area Connection
Physical Address:	00-0C-29-D1-00-65

< Previous **Next >** Install

I have taken this opportunity to configure some basic IP settings and configure my first DHCP Scope.

Click Next >

IPv4 DNS Server Settings

When clients obtain an IP address from the DHCP server, they can be given the addresses of DNS servers and the parent domain name. The settings you provide will be used for all scopes you create on this DHCP server.

Specify the name of the parent domain that clients will use for name resolution for all scopes you create on this DHCP server.

Parent domain:

Specify the IP addresses of the DNS servers that clients will use for name resolution for all scopes you create on this DHCP server.

Preferred DNS server IPv4 address:

Alternate DNS server IPv4 address:

[More about DNS server settings](#)

< Previous **Next >**

Next, enter Primary & Secondary **DNS Servers** (as you see above)

Note: I have not entered any ip is the alternate dns simply because I only have a single DC right currently.

Click **Next >**

Specify the name of the parent domain that clients will use for name resolution, scopes you create on this DHCP server.

Parent domain:

Specify the IP addresses of the DNS servers that clients will use for name resolution, used for all scopes you create on this DHCP server.

Preferred DNS server IPv4 address:

☒ Valid

Alternate DNS server IPv4 address:

[More about DNS server settings](#)

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WINS Server Settings

When clients obtain an IP address from the DHCP server, they can be given DHCP options and addresses of WINS servers. The settings you provide here will be applied to clients using this DHCP server.

☒ WINS is not required for applications on this network

☐ WINS is required for applications on this network

Specify the IP addresses of the WINS servers that clients will use for name resolution, will be used for all scopes you create on this DHCP server.

Preferred WINS server IP address:

Alternate WINS server IP address:

[More about WINS server settings](#)

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I dont use WINS on my network and I clicked **Next**

lit DHCP Scopes

A scope is the range of possible IP addresses for a network. The DHCP server cannot distribute IP

Add Scope

A scope is a range of possible IP addresses for a network. The DHCP server cannot distribute IP addresses to clients until a scope is created.

Configuration settings for DHCP Server

Scope name:

Starting IP address:

Ending IP address:

Subnet type:

☒ Activate this scope

Configuration settings that propagate to DHCP client

Subnet mask:

Default gateway (optional):

OK Cancel

[More about adding scopes](#)

< Previous Next > Install Ca

Configure your scope details according to your network.

DHCP Scopes

A scope is the range of possible IP addresses for a network. The DHCP server cannot distribute IP addresses to clients until a scope is created.

Scopes:

Name	IP address range
Pilot LAN	192.168.1.51 - 192.168.1.99

Add... Edit... Delete

Properties

Default gateway: 192.168.1.1

Subnet mask: 255.255.255.0

IP address range: 192.168.1.51 - 192.168.1.99

Activate scope: Yes

[More about adding scopes](#)

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Click next >

DHCPv6 Stateless Mode

DHCP Server supports the DHCPv6 protocol for servicing IPv6 clients. Using DHCPv6, clients can automatically configure their own IPv6 addresses using stateless mode, or they can acquire IPv6 addresses in stateful mode from the DHCP server. If routers on your network are configured to support DHCPv6, verify that your selection below matches the router configuration.

Select the DHCPv6 stateless mode configuration for this server.

☐ Enable DHCPv6 stateless mode for this server
IPv6 clients will be automatically configured without using this DHCP server.

☒ Disable DHCPv6 stateless mode for this server
After installing DHCP Server, you can configure the DHCPv6 mode using the DHCP Management console.

[More about DHCPv6 stateless mode](#)

< Previous Next > Install Cancel


Authorize DHCP Server

Active Directory Domain Services (AD DS) stores a list of DHCP servers that are authorized to serve the network. Authorizing DHCP servers helps avoid accidental damage caused by running DHCP servers with incorrect configurations or DHCP servers with correct configurations on the wrong network.

Specify credentials to use for authorizing this DHCP server in AD DS.

☒ Use current credentials
The credentials of the current user will be used to authorize this DHCP server in AD DS.
User Name:

☐ Use alternate credentials
Specify domain administrator credentials for authorizing this DHCP server in AD DS.
User Name:

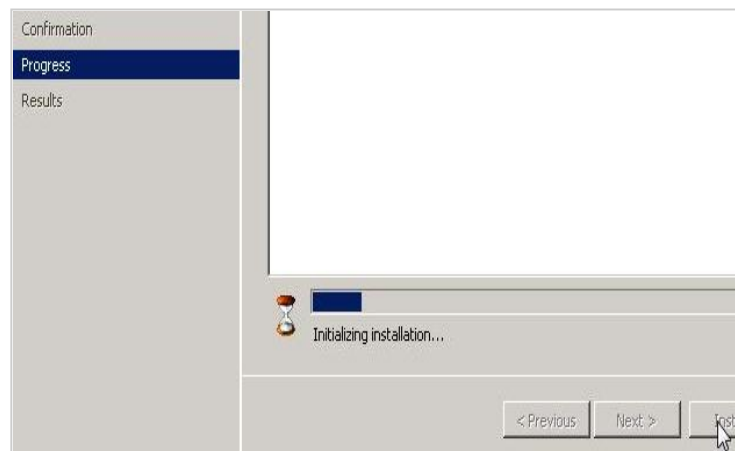
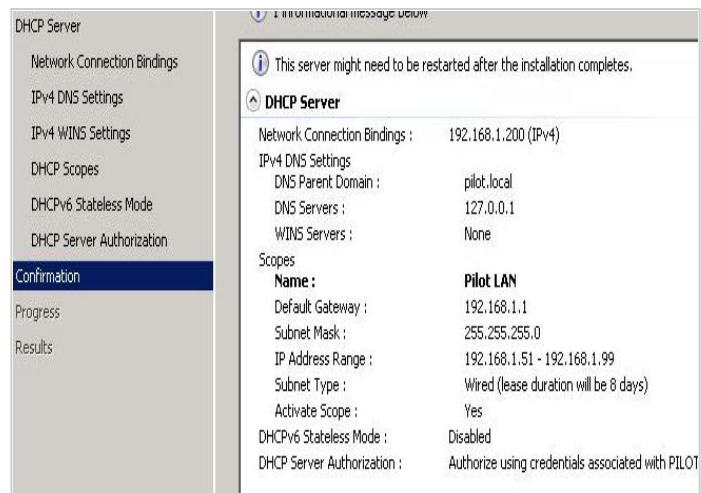
☐ Skip authorization of this DHCP server in AD DS
 This DHCP server must be authorized in AD DS before it can service clients.

[More about authorizing DHCP servers in AD DS](#)

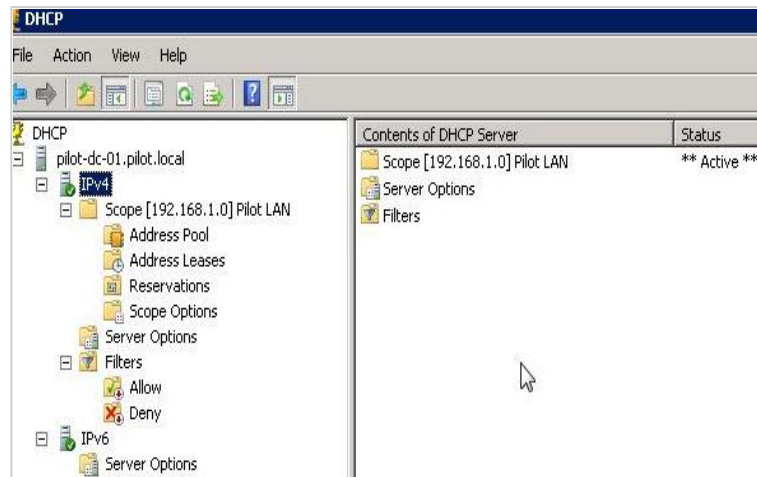
< Previous Next > Install Cancel

Account with permission in AD.

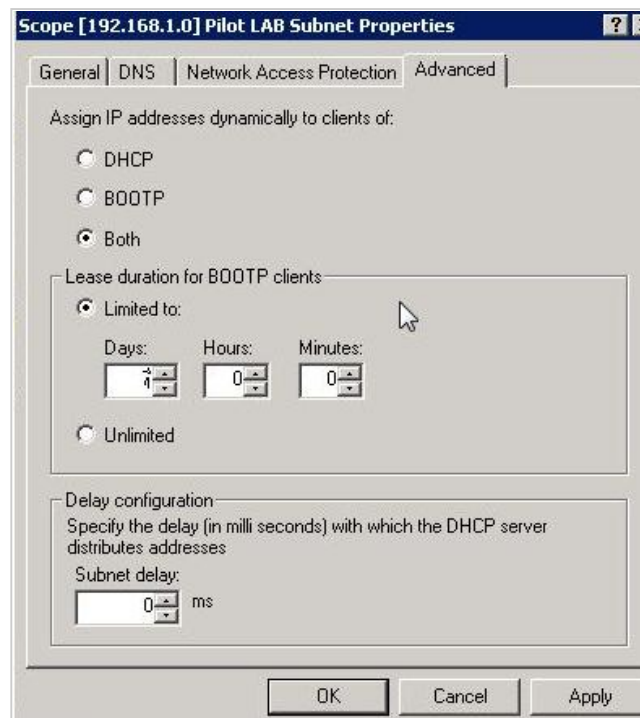
Click Next >



Done



Verify your configuration by opening your DHCP server. You can now carry on creating further scopes if your network has more than 1 vlan or you can modify the settings configured earlier.



Configure a client pc to obtain ip address.
go to command prompt Start > Run > cmd > ipconfig /all

You will see tha a ip address has been allocated by the new scope to this client pc.

Good Luck

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