Setting Up a Domain Controller

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Start Menu

We begin setting up the print server by selecting the Start button and then picking Administrative Tools. Then we choose Manage Your Server.



Manage Your Server

In the Manage Your Server window, we choose the Add or remove a role hyperlink.

| 🛛 Manage | : Your Server | | |
|----------|--|---|---|
| | Manage Your Server | Search Help and Suppor | rt Center 🗾 ラ |
| | Managing Your Server Roles Use the tools and information found here to add or remove roles and perform your daily administrative tasks. Your server has been configured with the following roles: | Add or remove a role Read about server roles Read about remote administration | Iools and Updates Administrative Tools More Tools Windows Update Computer and Domain Name Information Internet Explorer Enhanced Security Configuration |
| | File Server File servers provide and manage access to files. Select Upgrade this role to install an updated File Server Management console, which adds new features such as Directory Quotas File Screening, Distributed File System (DFS). DNS Server | Upgrade this role Manage this file server Add shared folders Review the next steps for this role | See Also Help and Support Microsoft TechNet Deployment and Resource Kits List of Common Administrative Tasks Windows Server Communities |
| | DNS (Domain Name System) servers translate domain and computer DNS names to IP addresses. | Manage this DN5 server Review the next steps for this role | What's New Strategic Technology Protection Program |
| | WINS (Windows Internet Name Service) servers translate computer and domain NetBIOS names to IP addresses. | Manage this WINS server Review the next steps for this role | |

Configure Your Server Wizard

We press the Next button to continue to set up the print server.

Configure Your Server Wizard

Preliminary Steps

You can ensure that you successfully configure your server by completing the following steps before continuing.



Before continuing, verify that the following steps have been completed.

- Install all modems and network cards.
- Attach all necessary cables.
- If you plan to use this server for Internet connectivity, connect to the Internet now.
- Turn on all peripherals, such as printers and external drives.
- Have your Windows Server 2003 Setup CD available, or know your network installation path.

When you click Next, the wizard will search for network connections.

| < <u>B</u> ack | Cancel Help |
|----------------|-------------|
| | |
| | |

Picking the Server Role

We will pick Domain Controller or Active Directory for the server role. Active Directory was added as the domain controller with Windows Server 2000. We pick the Next button to continue.

Configure Your Server Wizard

Server Role

You can set up this server to perform one or more specific roles. If you want to add more than one role to this server, you can run this wizard again.

×

Help

Select a role. If the role has not been added, you can add it. If it has already been added, you can remove it. If the role you want to add or remove is not listed, open Add or Remove Programs.

| Server Role | Configured | Domain Controller (Active |
|--------------------------------------|----------------|---|
| File Server | Yes | Directory) |
| SharePoint Services | No | |
| Print Server | Yes | Domain controllers store directory data |
| Application server (IIS, ASP.NET) | No | and manage user logon processes and |
| Mail server (POP3, SMTP) | No | directory searches. |
| Terminal server | No | |
| Remote access / VPN server | No | Read about domain controllers |
| Domain Controller (Active Directory) | No | |
| DNS server | Yes | |
| DHCP server | Yes | |
| Streaming media server | No | |
| WINS server | Yes | |
| | | |
| | | View the <u>Configure Your Server log</u> . |
| | | |
| | < <u>B</u> ack | Next > Cancel Hel |
| | | |

Summary of Selections

We can see in this window that we will be running the Active Directory Installation Wizard. We will choose Next to proceed.

| Configure Your Server Wizard | × |
|---|------|
| Summary of Selections View and confirm the options you have selected. | No. |
| Summary: | |
| Run the Active Directory Installation Wizard to set up this server as a domain controller | |
| To change your selections, click Back. To continue setting up this role, click Next. | |
| < <u>B</u> ack Cancel | Help |

Active Directory Installation Wizard

We now will start the Active Directory Installation Wizard and we press the Next button to advance.



Operating System Compatibility

Next, we can read the operating system compatibility message. Windows 95 and NT version 4.0 SP3 or earlier are not compatible.

Active Directory Installation Wizard

Operating System Compatibility

Improved security settings in Windows Server 2003 affect older versions of Windows. **X**

Domain controllers running Windows Server 2003 implement security settings that require clients and other servers to communicate with those domain controllers in a more secure way.

Some older versions of Windows, including Windows 95 and Windows NT 4.0 SP3 or earlier, do not meet these requirements. Similarly, some non-Windows systems, including Apple Mac OS \times and SAMBA clients, might not meet these requirements.

For more information, see Compatibility Help.

<Back Next>

Cancel

Domain Controller Type

We will select domain controller for a new domain. If this was going to be added to another existing domain, we would opt for the other choice.

We press the Next button to continue.

| Domain C Specify | ontroller Type y the role you want this server to have. |
|---------------------|--|
| Do you additior | want this server to become a domain controller for a new domain or an nal domain controller for an existing domain? |
| • Dor | main controller for a new domain |
| Sel Thi | ect this option to create a new child domain, new domain tree, or new forest. s server will become the first domain controller in the new domain. |
| O <u>A</u> de | ditional domain controller for an existing domain |
| ⚠ | Proceeding with this option will delete all local accounts on this server. |
| | All cryptographic keys will be deleted and should be exported before continuing. |
| | All encrypted data, such as EFS-encrypted files or e-mail, should be decrypted before continuing or it will be permanently inaccessible. |

< Back

<u>N</u>ext >

Cancel

New Domain Name

We use our full domain name that we registered with dyndns.org.

We select the Next button to proceed.

| Active Directory Installation Wizard | | | × |
|---|----------------|----------------|--------|
| New Domain Name Specify a name for the new domain. | | | |
| Type the full DNS name for the new domain (for example: headquarters.example.microso | oft.com). | | |
| Eull DNS name for new domain: | | | |
| cwr.dyndns.org | | | |
| | | | |
| | | | |
| | | | |
| | | | |
| | | | |
| | | | |
| | | | |
| | | | |
| | < <u>B</u> ack | <u>N</u> ext > | Cancel |

NetBIOS Domain Name

The NetBIOS name is between 1 and 15 characters. The system selected CWR which was the beginning of the fully qualified domain name. We select the Next command button to advance.

| Active Directory Installation Wizard | | × |
|--|---|-------|
| NetBIOS Domain Name Specify a NetBIOS name for the n | new domain. | S. |
| This is the name that users of earli domain. Click Next to accept the r | ier versions of Windows will use to identify the new name shown, or type a new name. | |
| Domain NetBIOS name: | CWR | |
| | | |
| | | |
| | | |
| | | |
| | | |
| | | |
| | | |
| | < <u>B</u> ack <u>N</u> ext > C | ancel |

Database and Log Folders

We typically choose the database and log folder defaults. However, we can direct the database and log files to another folder.

We pick the Next button to continue.

| Active Directory Installation Wizard | × |
|--|-----------------|
| Database and Log Folders Specify the folders to contain the Active Directory database and log file: | s Sec |
| For best performance and recoverability, store the database and the log hard disks. | on separate |
| Where do you want to store the Active Directory database? | |
| Database folder: | |
| C:\WINDOWS\NTDS | B <u>r</u> owse |
| Where do you want to store the Active Directory log? | |
| Log folder: | |
| C:\WINDOWS\NTDS | Br <u>o</u> wse |
| | |
| | |
| | |
| < <u>B</u> ack <u>N</u> ext > | Cancel |

Shared System Volume

The next folder location is for the shared system volume. We will maintain the default path and pick the Next button to advance.

| Active Directory Installation Wizard | × |
|---|---|
| Shared System Volume Specify the folder to be shared as the system volume. | Se la companya de la |
| The SYSVOL folder stores the server's copy of the domain's public files. of the SYSVOL folder are replicated to all domain controllers in the doma | The contents ain. |
| The SYSVOL folder must be located on an NTFS volume. | |
| Enter a location for the SYSVOL folder. | |
| Eolder location: | |
| C:\WINDOWS\SYSVOL | B <u>r</u> owse |
| | |
| | |
| | |
| | |
| < <u>B</u> ack <u>N</u> ext > | Cancel |

DNS Registration

This server is the DNS server with forwarders to DNS servers 8.8.8.8 and 8.8.4.4, so we choose to configure the DNS server for the domain controller.

We select the Next button to carry on.

| Active Directory Installation Wizard | × |
|--|--------|
| DNS Registration Diagnostics Verify DNS support, or install DNS on this computer. | |
| Diagnostic Failed | |
| The registration diagnostic has been run 1 time. | |
| Warning: Domain Controller functions like joining a domain, logging onto a domain, and Active Directory replication will not be available until the DNS infrastructure for Active Directory is correctly configured. | |
| The wizard encountered an error while trying to determine if the DNS server with which this domain controller will register supports dynamic updates. | |
| For more information, including steps to correct this problem, see Help. | - |
| C I have corrected the problem. Perform the DNS diagnostic test again. | |
| Install and configure the DNS server on this computer, and set this computer to u this DNS server as its preferred DNS server. | use |
| \bigcirc I will correct the problem later by configuring DNS manually. (Advanced) | |
| < <u>B</u> ack <u>N</u> ext > 0 | Cancel |

Permissions

Permissions will be attuned with Windows 2000 and 2003 operating systems.

We choose the Next button to continue.

| Permissions | |
|---|---|
| Select default permissions for user and | group objects. |
| Some server programs, such as Window stored on domain controllers. | ws NT Remote Access Service, read information |
| Permissions compatible with pre-Wir | ndows 2000 server operating systems |
| Select this option if you run server p systems or on Windows 2000 or Wi members of pre-Windows 2000 dom | rograms on pre-Windows 2000 server operating ndows Server 2003 operating systems that are nains. |
| 🛕 Anonymous users can read in | formation on this domain. |
| Permissions compatible only with W operating systems | indows 2000 or Windows Server 2003 |
| Select this option if you run server p Server 2003 operating systems that authenticated users can read inform | programs only on Windows 2000 or Windows are members of Active Directory domains. Only mation on this domain. |
| | |
| | (Back News) Concel |

Administrative Password

We type and confirm the administrative password for the domain controller.

We opt for the Next button to proceed.

| Active Directory Installation Wizard | <u>×</u> |
|---|----------------|
| Directory Services Restore Mode Administrator Password This password is used when you start the computer in Directory Services Res Mode. | store |
| Type and confirm the password you want to assign to the Administrator accou when this server is started in Directory Services Restore Mode. | unt used |
| The restore mode Administrator account is different from the domain Administr account. The passwords for the accounts might be different, so be sure to re- both. | ator member |
| Restore Mode Password: | _ |
| Confirm password: | |
| For more information about Directory Services Restore Mode, see <u>Active Dire</u> | ctory Help. |
| < <u>B</u> ack <u>N</u> ext > | Cancel |

Summary

We now see a summary of the choices we made with the Active Directory Installation Wizard. If we need to change anything we can go back to the particular window and make the change and advance back to this point.

However, we agree with the summary and we press Next to continue.

| ctive Directory Installation Wizard | × |
|--|--------|
| Summary Review and confirm the options you selected. | |
| You chose to: Configure this server as the first domain controller in a new forest of domain trees. The new domain name is cwr.dyndns.org. This is also the name of the new forest. The NetBIOS name of the domain is CWR Database folder: C:\WINDOWS\NTDS Log file folder: C:\WINDOWS\NTDS SYSVOL folder: C:\WINDOWS\SYSVOL The DNS service will be installed and configured on this computer. This computer will be configured to use this DNS server as its preferred DNS server. | |
| To change an option, click Back. To begin the operation, click Next. | |
| < <u>B</u> ack <u>N</u> ext> | Cancel |

Loading Active Directory

Active Directory will take some time to load, so be patient.

Active Directory Installation Wizard

The wizard is configuring Active Directory. This process can take several minutes or considerably longer, depending on the options you have selected.

Installation Complete and Restart

After a few minutes, the Active Directory Wizard will complete and we need to select the Finish button and opt for the Restart button on the next window. The server will restart.



Server is Now a Domain Controller

The server is now a Domain Controller. In other lessons, we will learn such tasks as how to connect to a domain, add users, build groups and setup domain security.

