

# Install Windows Server 2003 and create a backup server

Network management documentation Server 2003 as details of how to install, create a companion server in case the main server is malfunctioning, create a domain, join the client to the domain, the connection {remote desktop from the client data to server}, set ADSL router parameters to server, turn off 1 working machine immediately.

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- If you add more computers to the domain, add a Switch to ensure the best data transfer and internet access.
- How much number of machines should I use ADSL at a speed (eg about 50 machines, 70 machines, more than 100 machines).

**With the above question, we will respond in turn as follows:**

**Details how to install the domain and install the ADSL router parameters to the server:**

You must first Install Windows Server 2003

Follow these steps on Computer to act as *Domain Controller*

1. Insert the installation CD into the CD-ROM, restart Computer. Allow booting from CD
2. Windows setup program starts to load the Files for the installation. Press Enter when the Welcome to Setup image appears
3. Read the License terms on the *Windows Licensing Agreement* , then press F8 to agree to the terms of the MS
4. On Windows Server 2003, the screen to create partitions on the hard disk appears, first create a Partition for installing the Operating System. Press ENTER.
5. On Windows Server 2003, select *Format the partition using the NTFS file system* Press ENTER.
6. Windows Setup program proceeds to format the hard disk, will wait a few minutes for this process to complete
7. Computer will restart itself when the File copy process on the hard disk is complete

8. Computer will restart and boot the graphical interface. Click Next on the *Regional and Language Options page*

9. On the *Personalize Your Software* page, enter your Name and Organization

*Example:* Name: Server 2003

Organization: Quan Tri Mang

10. On the *Product Key* page enter the 25 digits of the Product Key you have and click Next.

11. On the *Licensing Modes* page, select the correct option that is applied to the Windows Server 2003 version that you installed. If installing License in per server licensing mode, include the number of connections that you have licensed. Click Next.

12. On the *Computer Name and Administrator Password* page, enter the name of the Computer, for example Server2003, this name is filled in the Computer Name text box. Enter the Administrator password and confirm the password in Confirm password (remember the administrator password carefully, otherwise you cannot log on to the Server for the next operation). Click Next.

13. On the *Date and Time Settings* page, set the correct Vietnam Date, Time and Time Zone (if you are in Vietnam), note the time zone is GMT + 7

Click Next.

14. On the *Networking Settings* page, select *Custom settings option* .

15. On the *Network Components* page, select *Internet Protocol (TCP / IP)* entry in *Components* and click *Properties*.

16. In the *Internet Protocol (TCP / IP) Properties dialog box* , set the following parameters:

IP address: 10.0.0.2.

Subnet mask: 255.255.255.0.

Default gateway: 10.0.0.1 (Note Default Gateway 10.0.0.1 is also the IP address of ADSL Router Ethernet Card).

Preferred DNS server: 10.0.0.2 and Additional DNS server are the addresses that the ISP provided to the ADSL Router, for example: 203.162.4.1

17. Click OK in the *Advanced TCP / IP Settings dialog box* .

18. Click OK in the *Internet Protocol (TCP / IP) Properties dialog box* .

19. Click Next on the *Networking Components* page.

20. Accept the default option of the Network environment as Workgroup (we will create the Domain

environment later, promote) this machine becomes a Domain controller and is also a member of the Domain.

21. The installation process continues and when Finish, Computer will restart automatically

22. The first log-on to Windows Server 2003 uses the password we created for the Administrator account during Setup.

23. First appearing on the screen is the *Manage Your Server* page, you should check " *Don't display this page at logon checkbox* " and close the Window window.

The next step is the process of installing and configuring DNS before running the dcpromo utility

The next step is to install the *Domain Naming System (DNS) server* on this server. This is necessary because Active Directory Service operates on Domain Controllers, controlling all Domains requires DNS server service for querying needs such as hostname, registration of records (A, PTR, SRV records, etc.). We will install the DNS server and then raise this Computer role to a Domain Controller, and this DNS server will serve the query for the entire Domain.

### **Perform the following steps to install the DNS server**

1. Click Start, Control Panel. Click *Add or Remove Programs* .
2. In *Add or Remove Programs* , click *Add / Remove Windows Components*
3. In *Windows Components* , see the list of Components and click *Networking Services entry*> Click Details.
4. Check the *Domain Name System (DNS) checkbox* and click OK.
5. Click Next in *Windows Components* .
6. Click Finish on the *Completing the Windows Components Wizard* .
7. Close *Add or Remove Programs*

The DNS server is installed, Admin needs to include specific DNS parameters for the name query operation, specifically creating two *Forward* and *Reverse lookup zones* .

### **Perform the following steps to configure DNS server:**

1. Click Start and then click *Administrative Tools*> Select *DNS* .
2. In the working table of DNS ( *DNS console* ), expand server name (Server2003), then click on *Reverse Lookup Zones* . Right click *Reverse Lookup Zones* and select New Zone.
3. Click Next on *Welcome to the New Zone Wizard* .
4. On Zone Type, select *Primary zone option* and click Next.
5. On the *Reverse Lookup Zone Name page* , select *Network ID option* and Enter *10.0.0* in the text box> Click

Next.

6. Accept the default selection on the *Zone File page* , and click Next.
7. On *Dynamic Update page* , select *Allow both nonsecure and secure dynamic updates option* . Click Next.
8. Click Finish on the *Completing the New Zone Wizard page* .

**Next we create Forward lookup zone for the Domain that this Computer will be the Domain Controller.**  
Proceed with the following steps:

1. Right click *Forward Lookup Zone* and click *New Zone* .
2. Click Next on the *Welcome to the New Zone Wizard page* .
3. On the *Zone Type page* , select *Primary zone option* and click Next.
4. On the *Zone Name page* , enter the name of the forward lookup zone in the *Zone name text box* . In this example, the name of the zone is *quantrimang.com* , which matches the name of the Domain that will be created later. Put *quantrimang.com* in the text box. Click Next.
5. Accept the default settings on the *Zone File page* and click Next.
6. On *Dynamic Update page* , select *Allow both nonsecure and secure dynamic updates* . Click Next.
7. Click Finish on the *Completing the New Zone Wizard page* .
8. Expand the *Forward Lookup Zones* and click on *MSFirewall.org zone* . Right click on *quantrimang.com* and Click *New Host (A)*.
9. In the *New Host dialog box* , enter the correct *Server2003* in *Name ( uses parent domain name if blank )* text box. In the *IP address text box* , fill in **10.0.0.2** . Check the " *Create associated pointer (PTR) record checkbox* " .  
Click *Add Host* . Click OK in the DNS dialog box to notify that (A) Record has been created. Click Done in the *New Host text box* .
10. Right click on *quantrimang.com forward lookup zone* and click *Properties*. Click *Name Servers* tab. Click *exchange2003be* entry and click *Edit*.
11. In the *Server fully qualified domain name (FQDN)* text box, enter the full name of *Domain controller computer as Server2003* . *quantrimang.com* . Click *Resolve*. Notice that the *Server IP address* appears in the *IP address list* . Click OK.
12. Click *Apply* and then click *OK* on *quantrimang.com Properties dialog box* .
13. Right click on *DNS server name Server2003* , select *All Tasks* . Click *Restart*.
14. Close DNS console.

Now this Computer is ready to take on the role of a *Domain Controller* in Domain *quantrimang.com*

## **Perform the following steps to create the Domain and upgrade this server to the Domain's first Domain Controller**

Install *First Domain Controller*

1. Click Start and click Run.
2. In the Run dialog box, **type dcpromo** in the *Open text box* and click OK.
3. Click Next on the *Welcome to the Active Directory Installation Wizard page* .
4. Click Next on the *Operating System Compatibility page* .
5. On the *Domain Controller Type page* , select *Domain controller for a new domain option* and click Next.
- 6 On the *Create New Domain page* , select *Domain in a new forest option* and click Next.
7. On the *New Domain Name page* , enter the full *DNS name* *quantrimang.com* text box and click Next.
8. On the *NetBIOS Domain Name page* (NetBIOS name of the Domain to support Windows OS- like the old Windows NT and WINDOWS 9x series, when these clients want to transact with the Domain), accept the default *NetBIOS name* In the example This is *tuoitre*. Click Next.
9. Accept the default settings on *Database and Log Folders page* and click Next.
10. On the *Shared System Volume page* , accept the default storage location and click Next.
11. On the *DNS Registration Diagnostics page* , select *I will correct the problem later by configuring DNS manually (Advanced)*. Click Next.
12. On the *Permissions page* , select *Permissions compatible only with Windows 2000 or Windows Server 2003 operating system option* . Click Next.
13. In *Directory Services Restore Mode Administrator Password page* (recovery mode for Domain Controller when this DC is having problems, When DC offline, enter this troubleshoot mode by Restart Computer, select F8), enter *Restore Mode Password* and then *Confirm password* . (Administrators should not confuse passwords in this mode with Domain Administrator Password, control the operation of DCs or Domains). Click Next.
14. On the *Summary page* , click Next.
15. Now it is time for Computer to need Restart so that the parameters have just installed Active
16. Click Finish on the *Completing the Active Directory Installation Wizard page* , completing the installation.
17. Click Restart Now on the *Active Directory Installation Wizard page* .
18. Log-on to the *Domain Controller* using the Administrator account.

## **Create a companion server to prevent the main server from having trouble:**

1. Configure Server address as follows: *IP address: 10.0.0.3. Subnet mask: 255.255.255.0. Default gateway: 10.0.0.1* (Note Default Gateway 10.0.0.1 is also the IP address of ADSL Router Ethernet Card).

Preferred DNS server: 10.0.0.2 and Additional DNS server are the addresses that the ISP provided to the ADSL Router, for example: 203.162.4.1

Right then click My Computer, click Properties.

2. In the *System Properties dialog box* , click *Network Identification* tab. Click Properties.

3. In the Changes dialog box, click More.

4. In Primary DNS suffix of this computer text box, fill in domain name is the name of the domain (quantrimang.com) containing this Computer. If Computer is not a member of Domain, then the text box will be blank.

*Note: Change primary DNS suffix when domain embership changes* is enabled by default. In the current example, Computer is not a member of Domain. Cancel all the dialog boxes that appear and do not configure the primary domain name at this time.

5. Restart the Server

6. Do the same as step 2, in Changes, select the Domain Text box and enter: quantrimang.com . Enter the corresponding user and password of the administrator user.

7. Restart the server and select logon to the domain

## **The next step proceeds to install Additional domain Controller**

1. Click Start and click Run.

2. In the Run dialog box, type dcpromo in the Open text box and click OK.

3. Click Next on the *Welcome to the Active Directory Installation Wizard page* .

4. Click Next on the *Operating System Compatibility page* .

5. On the *Domain Controller Type page* , select *Additional Domain controller for an existing domain option* and click Next.

6. Enter the administrator user and the following password in the domain text box enter quantrimang.com

8. On the *NetBIOS Domain Name page* (NetBIOS name of the Domain to support Windows OS- like the old Windows NT and WINDOWS 9x series, when these clients want to transact with the Domain), accept the default NetBIOS name In the example This is tuoitre. Click Next.

9. Accept the default settings on *Database and Log Folders page* and click Next.

10. On the *Shared System Volume page* , accept the default storage location and click Next.
11. On the *DNS Registration Diagnostics page* , select *I will correct the problem later by configuring DNS manually (Advanced)*. Click Next.
12. On the *Permissions page* , select *Permissions compatible only with Windows 2000 or Windows Server 2003 operating system option*. Click Next.
13. In *Directory Services Restore Mode Administrator Password page* (recovery mode for Domain Controller when this DC is having problems, When DC offline, enter this troubleshoot mode by Restart Computer, select F8), enter Restore Mode Password and then Confirm password. (Administrators should not confuse passwords in this mode with Domain Administrator Password, control the operation of DCs or Domains). Click Next.
14. On the *Summary page* , click Next.
15. Now it is time for Computer to need Restart so that the parameters have just installed Active
16. Click Finish on the *Completing the Active Directory Installation Wizard page* , completing the installation.
17. Click Restart Now on the *Active Directory Installation Wizard page* .
18. Log-on to the *Domain Controller* using the Administrator account.

### **Join the child machine to the domain**

1. Open *Active Directory User and Computer* and then create the corresponding domain users
2. Logon to the client, and perform the same process as Creating a Companion Server in case the main Server fails.
3. Logon to the domain with the domain user has been created

### **Remote destop and shutdown remote client:**

Let the remote machine and server do the following:

1. In the computer - properties - remote - select enable remote desktop on this computer
2. We can then logon to the remote enabled computers using the Remote Desktop Connection tool. Enter the IP address of the server and client and use the administrator user to remote. After the remote successful, we can shut down the remote computer easily, via the shutdown tab in the start menu.
3. If you add more computers to your domain, how do you add switches to ensure the best data transfer and internet access?

When you add a client to the domain, you need to add the corresponding switches, because each machine needs a port on the swith. For example, if you have 40 computers, you must have 2 24-port switches to accommodate 40 computers connected.

#### 4. Number of machines and ADSL line with the right speed

If there are many computers in the domain, you only need to add a switch, and ADSL transmission depends on each service provider, you can choose ADSL of FPT, Viettel, VDC . Also if the number of computers Many of you should choose ADSL package with the highest speed. to enable users in the network to browse, download and upload easily.

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