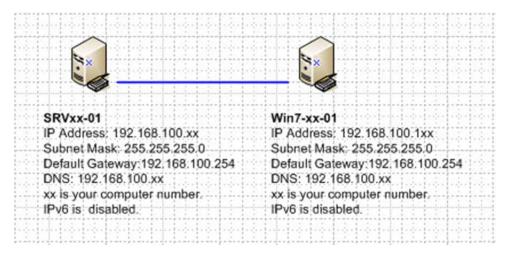
LAB 12: Creating a Domain with a Domain Controller

In this lab, you will create a domain with a domain controller and a Windows 7. You will configure **SRVxx-01** as the domain controller and DNS server and **Win7-xx-01** will a computer in the domain.

Lab Requirements:

Completion of Lab 01, 02, 03, 04, and 05

Lab Setup: Initial

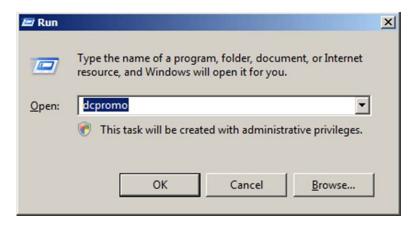


Exercise 1: Configuring IPv4 addresses.

- 1. On each virtual machine, restore the **After installation** snapshot.
- 2. On each virtual machine, disable IPv6 and configure IPv4 address according the Lab Setup.

Exercise 2: Configuring the first domain controller in an Active Directory domain

1. On SRVxx-01, open **Start > Run** prompt and type **dcpromo** in the text box. Click **OK**.

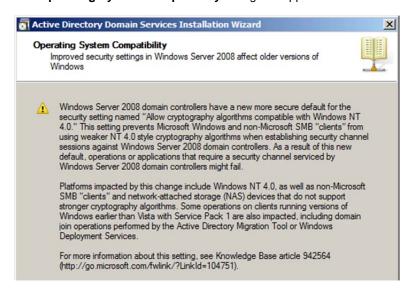


Active Directory Domain Services binaries are being installed. Please wait.

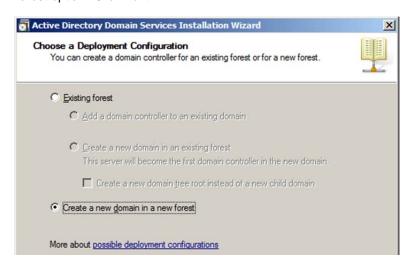
 The Active Directory Domain Services Installation Wizard dialog box appears. Check the Use advanced mode installation option. Click Next.



3. The Operating System Compatibility dialog box appears. Click Next.



 The Choose a Deployment Configuration dialog box appears. Select the Create a new domain in a forest option. Click Next.



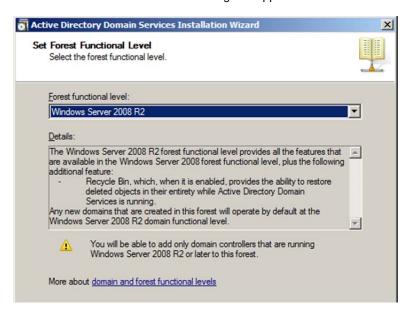
 The Name the Forest Root Domain dialog box appears. Type DOMAINxx.LOCAL, xx is your computer number. Click Next.



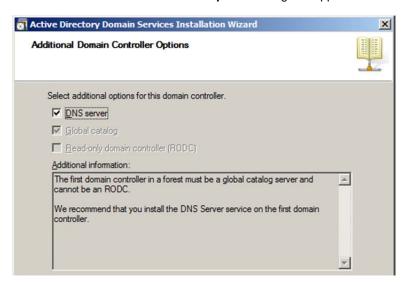
6. The Domain NetBIOS Name dialog box appears. Take the default setting and click Next.



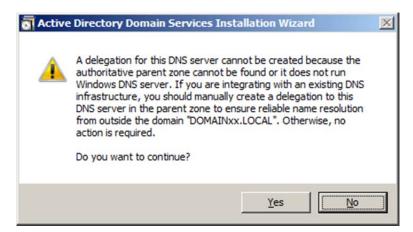
7. The Set Forest Functional Level dialog box appears. Select Windows 2008 R2 and click Next.



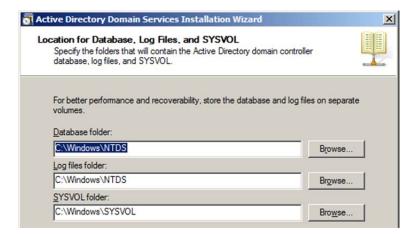
8. The Additional Domain Controller Options dialog box appears. Click Next.



9. The DNS warning dialog box appears. Click Yes.



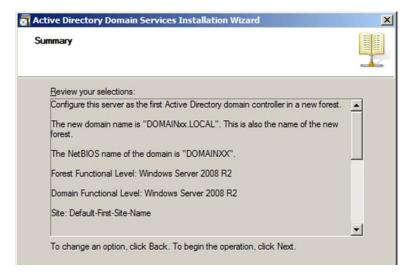
 The Location for Database, Log Files, and SYSVOL dialog box appears. Take the default settings and click Next.



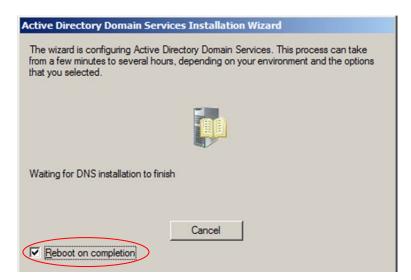
11. The **Directory Service Restore Mode Administrator Password** dialog box opens. Type **P@ssword** and click the **Next**.



12. The Summary dialog box opens. Click Next.

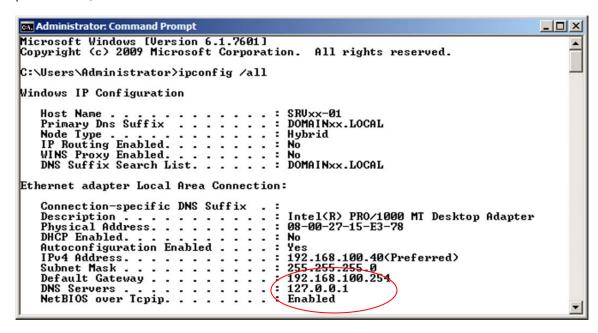


13. The **wizard** is configuring Active Directory Domain Services. Check the **Reboot on completion** option. Please wait.

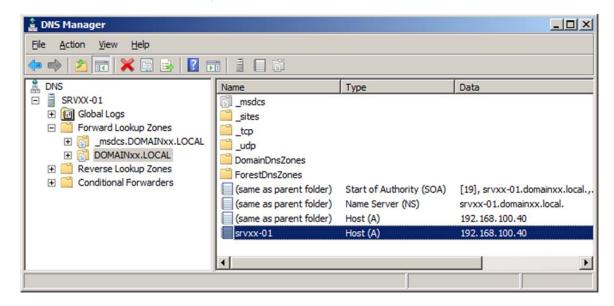


Exercise 3: Configuring DNS

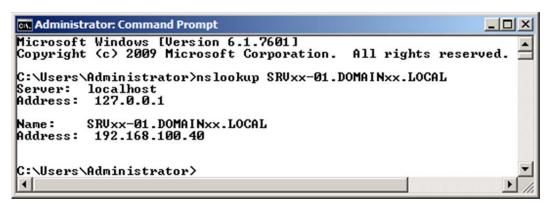
- 1. On **SRVxx-01**, login.
- Open a command prompt and type IPCONFIG /ALL. The DNS IP address has been set to 127.0.0.1, which
 points to itself; SRVxx-01.



 Click Start > All Programs > Administrative Tools > DNS. Navigate to DOMAINxx.LOCAL. DOMAINxx.LOCAL has been configured in the Forward Lookup Zones.



4. Open a command prompt and type nslookup SRVxx-01.DOMAINxx.LOCAL.

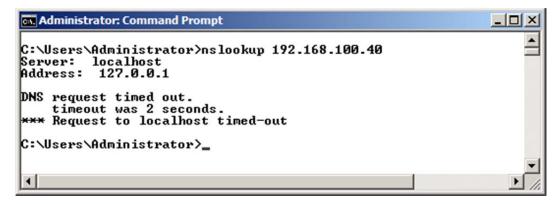


Server: localhost and **Address: 127.0.0.1** is the DNS server that is providing the name resolution service. Your local DNS server searches the Forward Lookup Zones to provide the IP address of **SRVxx-01.DOMAINxx.LOCAL**.

Click the Reverse Lookup Zone in the DNS Manager; you will see that nothing has been configured.



In the command prompt, type nslookup 192.168.100.xx.

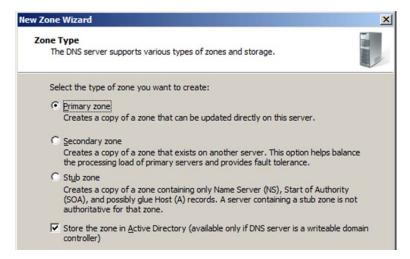


The output shows that DNS request timed out. This is because a Reverse Lookup Zone doesn't exist for your domain. Now you will configure a Reverse Lookup Zone.

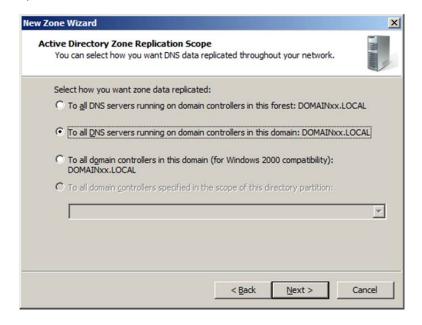
5. You will configure the Reverse Lookup Zone for your domain. Right-click **Reverse Lookup Zones**, and click **New Zone...** The **New Zone Wizard** dialog box appears. Click **Next**.



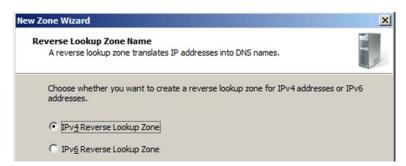
6. The **Zone Type** dialog box appears. Click **Next** without changing the option.



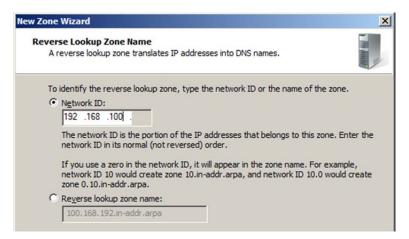
 The Active Directory Zone Replication Scope dialog box appears. Click Next without changing the option.



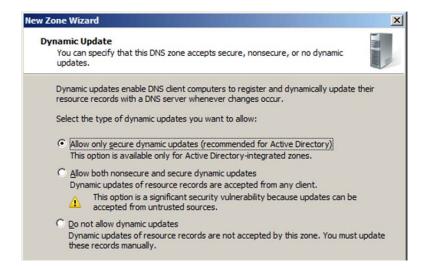
8. The Reverse Lookup Zone Name dialog box appears. Click Next without changing the option.



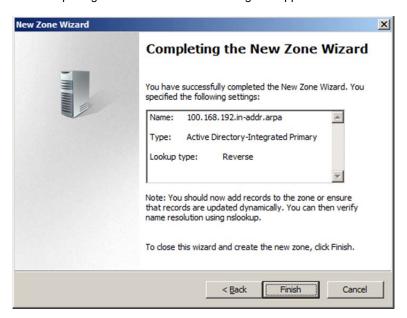
 The Reverse Lookup Zone Name dialog box appears. Type 192.168.100 in the Network ID box. Click Next.



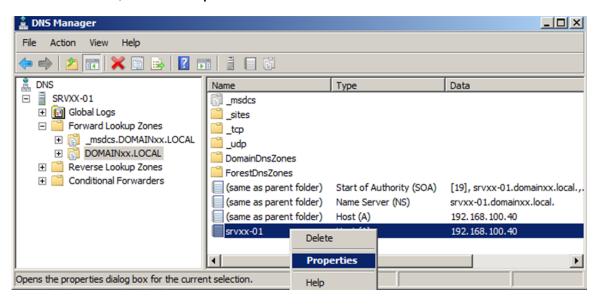
10. The Dynamic Update dialog box appears. Click Next without changing the option.



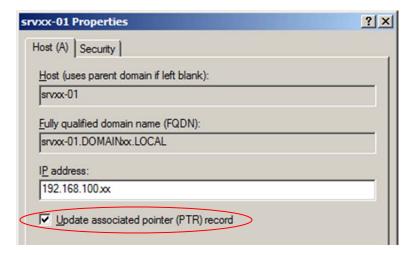
11. The Completing the New Zone Wizard dialog box appears. Click Finish.



12. To update the SRVxx-01 PTR record, right click SRVxx-01 in the Forward Lookup Zones > DOMAINxx.LOCAL, and select Properties.



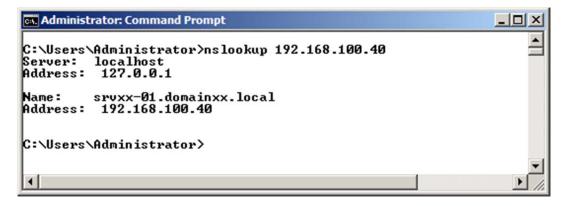
 The SRVxx-01 Properties dialog box appears. Check the Update associated pointer (PTR) record option. Click OK.



In the Reverse Lookup Zones > 100.168.192.in-addr.arpa, you see the PTR record for SRVxx-01.

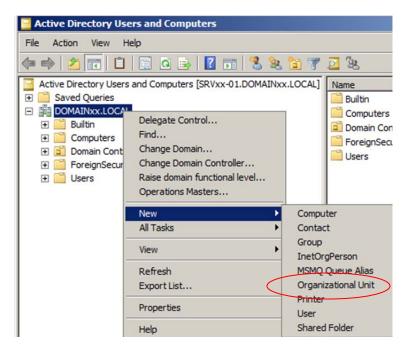


In the command prompt, type nslookup 192.168.100.xx.



Now your local DNS server can provide the hostname of the IP address.

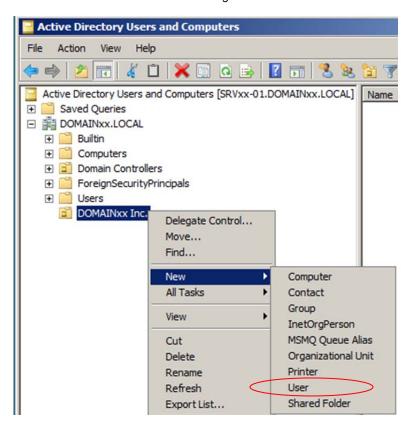
- Exercise 4: Creating an Organizational Unit and User Object
 - Open the Active Directory Users and Computers console (Start > All Programs > Administrative Tools >
 Active Directory Users and Computers). Right-click DOMAINxx.LOCAL and click New > Organizational
 Unit.



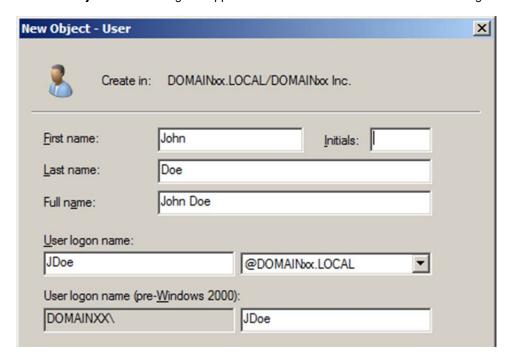
 The New Object – Organizational Unit dialog box appears. Type DOMAINxx Inc. in the Name box and click OK.



3. The DOMAINxx Inc. OU is created. Right-click DOMAINxx Inc. OU and click New > User.



4. The New Object - User dialog box appears. Fill the textboxes as show in the below figure and click Next.



 The Password dialog box appears. Type P@ssword in the text boxes. Uncheck the first option. Click Next.



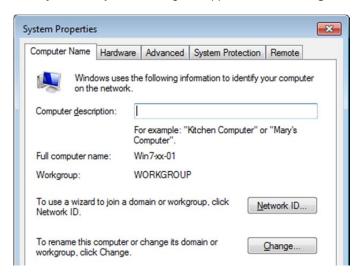
6. The Summary dialog box appears. Click **Finish**. The **John Doe** user object appears in the **DOMAINxx Inc.**

• Exercise 5: Joining a Active Directory domain

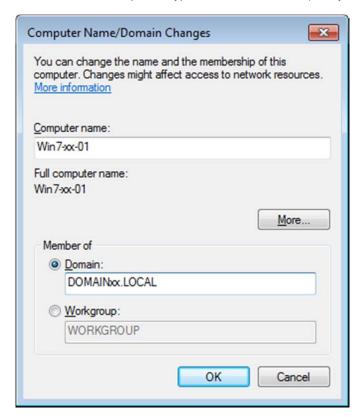
- 1. Start the virtual machine Win7-xx-01.
- 2. Open the command prompt and execute **PING 192.168.100.xx**. If you don't get any replies, check the TCP/IP settings on both machines.
- 3. Open the Control Panel. Double-click System icon. Click ChangeSettings link under Computer name.



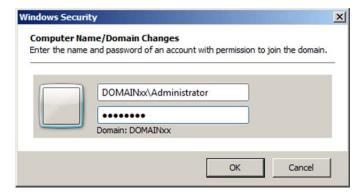
The System Properties dialog box appears. Click Change....



Select the **Domain:** option. Type **DOMAINxx.LOCAL** (xx is your monitor number). Click **OK**.



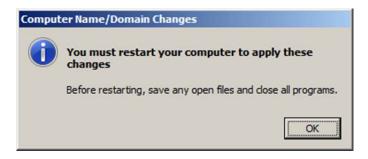
The **Windows Security** dialog box appears. Type **DOMAINxx\Administrator** in the User name box. Type **P@ssword** in the password box. If you use a different password, type your password for the account.



The Information dialog box appears. Click OK.



The Information dialog box appears. Click **OK**.



Click Close on the System Properties dialog box.

The Microsoft Windows dialog box appears. Click **Restart Now**. The system reboots. Now **Win7-xx-01** is a member server of **DOMAINxx.LOCAL**.

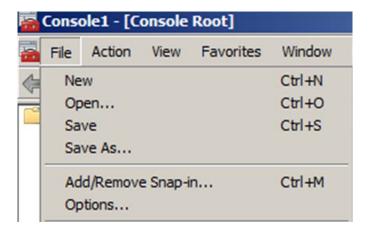


4. After sending CTRL + ALT + DELETE signal, The Local administrator account name (Win7-xx-01\Admin or the account you created) is displayed. You will need to logon as Domain administrator. Click Switch User and click Other User. Type DOMAINxx\Administrator in the User name box. Type P@ssword in the Password box. Press Enter.

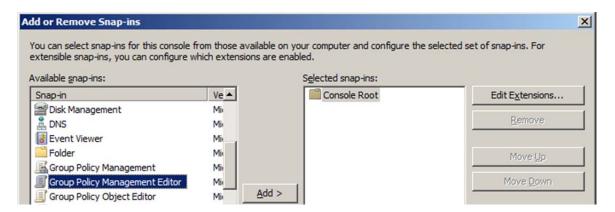
- Exercise 6: Allowing non-domain admin users to log on to the domain controllers
 - On SRVxx-01, log off and log on as DOMAINxx\JDoe user account. You should get the following message; this is because non-admin users can't log on to the domain controllers; John Doe is not an administrator. In a lab environment, since we are dealing with DCs only, we will allow non-admin users to log on to the DCs for testing.



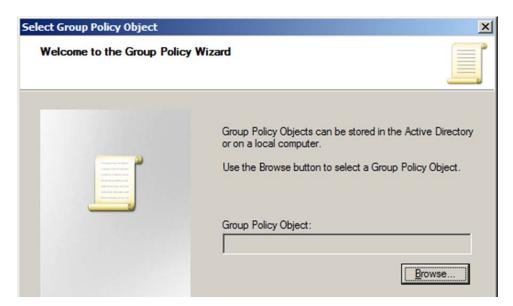
2. On SRVxx-01, Open Start > Run. Type MMC in the text box. The Microsoft Management Console window appears. Click File > Add/Remove Snap-in....



The Add or Remove Snap-ins dialog box appears. Select Group Policy Management Editor in the Available snap-ins: box, and click Add >.

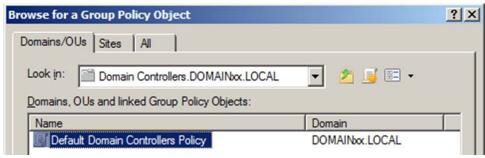


The Select Group Policy Object dialog box appears. Click Browse....



The Browse for a Group Policy Object dialog box appears. Double-click **Domain**Controllers.DOMAINxx.LOCAL. click **Default Domain Controllers Policy** and click **OK**.

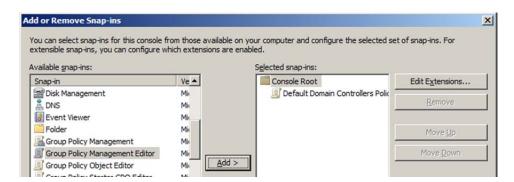




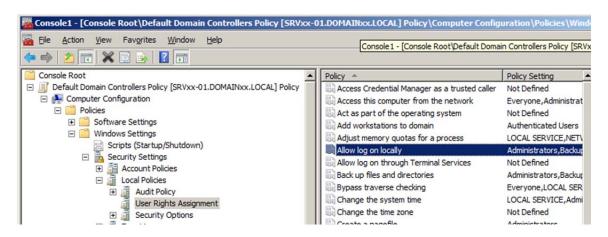
Click OK.



Click OK.

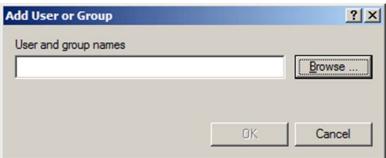


3. In the MMC Console 1 window, navigate to the User Rights Assignments as shown below figure. Double-click Allow log on locally.

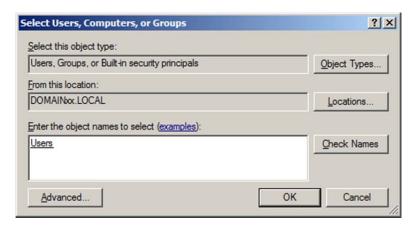


4. The Allow log on locally Properties dialog box appears. Click Add Users or Group.... The Add User or Group dialog box appears. Click Browse....



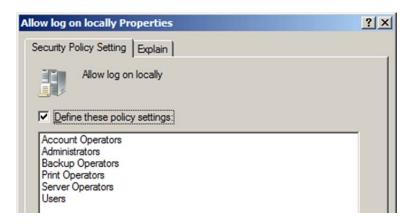


The **Select Users, Computers, or Groups** dialog box appears. Type **Users** in the text box and click **Check Names**. **Users** should be underlined. Click **OK**. In the **Add User or Group** dialog box, click **OK**.





In the Allow log on locally Properties dialog box, Users group appears. Click OK.



- 5. Save the Console 1 on the desktop.
- 6. On **SRVxx-01**, open a command prompt and execute **qpupdate**.



7. On **SRVxx-01**, log off and log on as **DOMAINxx\JDoe**. John Doe should be able to log on successfully. John Doe is a member of Domain Users group and Domain Users group is a member of Users group. So, when you assign **Allow log on locally** user right to Users group, John Doe will inherit the user right.