

CNT 4603: System Administration Spring 2011

Project Five

Implementing Active Directory Domain Services And Joining A Domain

Instructor : Dr. Mark Llewellyn
markl@cs.ucf.edu
HEC 236, 4078-823-2790
<http://www.cs.ucf.edu/courses/cnt4603/spr2011>

Department of Electrical Engineering and Computer Science
University of Central Florida



Project Five

- **Title:** “Project Five: Implementing Active Directory Domain Services And Joining A Domain”
- **Points:** 30 points
- **Due Date:** April 1, 2011 (this is no joke!) by 11:55 pm WebCourses time.
- **Objectives:** The completion of Project Four left you with a virtual network of three machines, named `Server01`, `Server02`, and `Client01`. For our `savn.local` network we will make `Server01` the domain controller. This project will implement the Active Directory Domain Services on this server by configuring its server roles and join the two other VMs to the virtual network.
- **Deliverables:** Three screen shots as shown on pages 35,49, and 59.



Project Five – Background

- Active Directory Domain Services provides a directory service that you can use for centralized secure management of your network.
- Installing ADDS on `Server01` will establish that server as the domain controller for the `savn.local` network that you constructed in Project 4.
- Be sure that you've successfully verified the IP connectivity of all three VMs and your host computer before you begin this project. You should have done this in Project Three – Phase 3.
- What you'll be doing in this project is installing ADDS on `Server01` and configuring its server roles as a domain controller. Following this you will join `Server02` and `Client01` to the domain now controlled by `Server01`.



Project Five – Background

- The next several pages will step you through the process of installing ADDS on `Server01` and configuring its server role as the domain controller.
- Note that `Server01` must be running in order to install ADDS and configure its server roles. The other VMs do not need to be running for this first part.



Project Five – Installing ADDS In Server01

- To begin the process. Start Server01 and bring up the Server Manager. If you don't have this coming up automatically for your server, Click the Administrative Tools link from the Start menu and then click Server Manager.
- Scroll down the window until you find the Roles Summary sub-window.
- See next page.



Server Manager (SERVER01)

File Action View Help

- Roles
- Features
- Diagnostics
- Configuration
- Storage

Server Manager (SERVER01)

Get an overview of the status of this server, perform top management tasks, and add or remove server roles and features.

Last checked for updates:	Never	Configure IE ESC
Last installed updates:	Never	
IE Enhanced Security Configuration (ESC):	On for Administrators On for Users	

Roles Summary [Roles Summary Help](#)

Roles: 0 of 16 installed

- [Go to Roles](#)
- [Add Roles](#)
- [Remove Roles](#)

Features Summary [Features Summary Help](#)

Features: 0 of 34 installed

- [Add Features](#)
- [Remove Features](#)

Last Refresh: 10/7/2010 3:50:56 PM [Configure refresh](#)

Find this area



Project Five – Installing ADDS In `Server01`

- In the Roles Summary area, click Add Roles.
- You'll most likely see a “Before You Begin” screen. As a future system administrator, you should read the information on this screen so that you are aware of the impact of changing a server's roles. (See next page for screen shot.)
- If the “Before You Begin” screen appeared, click Next. Otherwise select Server Roles from the menu on the left side of the screen. Either way you should now see the screen that appears on page 9.



Add Roles Wizard



Before You Begin

- Before You Begin**
- Server Roles
- Confirmation
- Progress
- Results

This wizard helps you install roles on this server. You determine which roles to install based on the tasks you want this server to perform, such as sharing documents or hosting a Web site.

Before you continue, verify that:

- The Administrator account has a strong password
- Network settings, such as static IP addresses, are configured
- The latest security updates from Windows Update are installed

If you have to complete any of the preceding steps, cancel the wizard, complete the steps, and then run the wizard again.

To continue, click Next.

Skip this page by default

Read this information, then click Next

< Previous **Next >** Install Cancel



Add Roles Wizard



Select Server Roles

Before You Begin

Server Roles

- Confirmation
- Progress
- Results

Select one or more roles to install on this server.

Roles:

- Active Directory Certificate Services
- Active Directory Domain Services
- Active Directory Federation Services
- Active Directory Lightweight Directory Services
- Active Directory Rights Management Services
- Application Server
- DHCP Server
- DNS Server
- Fax Server
- File Services
- Network Policy and Access Services
- Print Services
- Terminal Services
- UDDI Services
- Web Server (IIS)
- Windows Deployment Services

Description:

[Active Directory Certificate Services \(AD CS\)](#) is used to create certification authorities and related role services that allow you to issue and manage certificates used in a variety of applications.

[More about server roles](#)



Add Roles Wizard



Select Server Roles

Before You Begin

Server Roles

Active Directory Domain Services

Confirmation

Progress

Results

Select one or more roles to install on this server.

Roles:

- Active Directory Certificate Services
- Active Directory Domain Services
- Active Directory Federation Services
- Active Directory Lightweight Directory Services
- Active Directory Rights Management Services
- Application Server
- DHCP Server
- DNS Server
- Fax Server
- File Services
- Network Policy and Access Services
- Print Services
- Terminal Services
- UDDI Services
- Web Server (IIS)
- Windows Deployment Services

Description:

[Active Directory Domain Services \(AD DS\)](#) stores information about objects on the network and makes this information available to users and network administrators. AD DS uses domain controllers to give network users access to permitted resources anywhere on the network through a single logon process.

[More about server roles](#)

Check the Active Director Domain Services checkbox and then click Next.

< Previous Next > Install Cancel



Add Roles Wizard



Active Directory Domain Services

Before You Begin

Server Roles

Active Directory Domain Services

Confirmation

Progress

Results

Introduction to Active Directory Domain Services

Active Directory Domain Services (AD DS) stores information about users, computers, and other devices on the network. AD DS helps administrators securely manage this information and facilitates resource sharing and collaboration between users. AD DS is also required for directory-enabled applications such as Microsoft Exchange Server and for other Windows Server technologies such as Group Policy.

Things to Note

- To help ensure that users can still log on to the network in the case of a server outage, install a minimum of two domain controllers for a domain.
- AD DS requires a DNS server to be installed on the network. If you do not have a DNS server installed, you will be prompted to install the DNS Server role on this server.
- After you install the AD DS role, use the Active Directory Domain Services Installation Wizard (dcpromo.exe) to make the server a fully functional domain controller.
- Installing AD DS will also install the DFS Namespaces, DFS Replication, and File Replication services which are required by Directory Service.

Additional Information

- [Overview of AD DS](#)
- [Installing AD DS](#)
- [Common Configurations for AD DS](#)

Read the Introduction to Active Directory Domain Services and then click Next.

< Previous **Next >** Install Cancel



Add Roles Wizard



Confirm Installation Selections

- Before You Begin
- Server Roles
- Active Directory Domain Services
- Confirmation**
- Progress
- Results

To install the following roles, role services, or features, click Install.

i 2 informational messages below

- i** This server might need to be restarted after the installation completes.
- ^** **Active Directory Domain Services**
 - i** After you install the AD DS role, use the Active Directory Domain Services Installation Wizard (dcpromo.exe) to make the server a fully functional domain controller.

Read the Confirm Installations Selections and then click Install.

[Print, e-mail, or save this information](#)

< Previous Next > **Install** Cancel



Add Roles Wizard



Installation Results

- Before You Begin
- Server Roles
- Active Directory Domain Services
- Confirmation
- Progress
- Results**

The following roles, role services, or features were installed successfully:

! 1 warning, 1 informational messages below

! Windows automatic updating is not enabled. To install the latest updates, use Windows Update in Control Panel to check for updates.

Active Directory Domain Services ✔ Installation succeeded

The following role services were installed:

Active Directory Domain Controller

i Use the Active Directory Domain Services Installation Wizard (dcpromo.exe) to make the server a fully functional domain controller.

Close this wizard and launch the Active Directory Domain Services Installation Wizard (dcpromo.exe).

Review the Installation Results and then click Close.

[Print, e-mail, or save the installation report](#)

< Previous Next > **Close** Cancel



Project Five – Installing ADDS In Server01

- Notice that after the installation of ADDS, indicating a successful install, that ADDS has not actually be installed.
- The ADDS Installation Wizard still needs to run. Return to the Server Manager window if you're not already there.
- Under Roles Summary, click Go to Roles on the right hand side of the window. You should see the screen shown on the next page.
- Click the Go to Active Directory Domain Services link, you'll then see the screen on page 16.



Server Manager (SERVER01)

- Roles
 - Active Directory Domain Services
- Features
- Diagnostics
- Configuration
- Storage

Roles

View the health of the roles installed on your server and add or remove roles and features.

Roles Summary

Roles Summary Help

Roles: 1 of 16 installed

- Active Directory Domain Services

Add Roles
Remove Roles

Active Directory Domain Services

AD DS Help

Stores directory data and manages communication between users and domains, including user logon processes, authentication, and directory searches.

Role Status

Go to Active Directory Domain Services

- Messages: 1
- System Services: 4 Running, 6 Stopped
- Events: None in the last 24 hours

Role Services: 1 installed

Add Role Services

Last Refresh: 10/7/2010 4:16:46 PM [Configure refresh](#)

Click this link



Action Edit CD Floppy Help

Server Manager

File Action View Help

- Server Manager (SERVER01)
 - Roles
 - Active Directory Domain Se
 - Features
 - Diagnostics
 - Configuration
 - Storage

Active Directory Domain Services

Stores directory data and manages communication between users and domains, including user logon processes, authentication, and directory searches.

Summary

i This server is not yet running as a domain controller. [Run the Active Directory Domain Services Installation Wizard \(dcpromo.exe\).](#)

Events: None in the last 24 hours

0 Events

Level	Event ID	Date and Time
-------	----------	---------------

- [Go to Event Viewer](#)
- [Filter Events](#)
- [Properties](#)

System Services: 4 Running, 6 Stopped

[Go to Services](#)

Last Refresh: 10/7/2010 5:16:48 PM [Configure refresh](#)

Start | Server Manager | 5:17 PM

Click this link



Server Manager

File Action View Help

Active Directory Domain Services Installation Wizard

Welcome to the Active Directory Domain Services Installation Wizard

This wizard helps you install Active Directory Services (AD DS) on this server, making the server an Active Directory domain controller. To continue, click Next.

Use advanced mode installation

Learn more about the additional options that are available in [advanced mode installation](#).

More about [Active Directory Domain Services](#)

< Back Next > Cancel

Run the Active Directory Domain Services

- Go to Event Viewer
- Filter Events
- Properties
- Go to Services

Do not check this box

Click Next in this dialog box



Action Edit CD Floppy Help

Server Manager

File Action View Help

Server M

Role:

Feat

Diag

Conf

Stor

Active Directory Domain Services Installation Wizard

Operating System Compatibility

Improved security settings in Windows Server 2008 affect older versions of Windows

Warning

Windows Server 2008 domain controllers have a new more secure default for the security setting named "Allow cryptography algorithms compatible with Windows NT 4.0." This setting prevents Microsoft Windows and non-Microsoft SMB "clients" from using weaker NT 4.0 style cryptography algorithms when establishing security channel sessions against Windows Server 2008 domain controllers. As a result of this new default, operations or applications that require a security channel serviced by Windows Server 2008 domain controllers might fail.

Platforms impacted by this change include Windows NT 4.0, as well as non-Microsoft SMB "clients" and network-attached storage (NAS) devices that do not support stronger cryptography algorithms. Some operations on clients running versions of Windows earlier than Vista with Service Pack 1 are also impacted, including domain join operations performed by the Active Directory Migration Tool or Windows Deployment Services.

For more information about this setting, see Knowledge Base article 942564 (<http://go.microsoft.com/fwlink/?LinkId=104751>).

< Back **Next >** Cancel

er. Run the Active Directory Domain Services

Go to Event Viewer

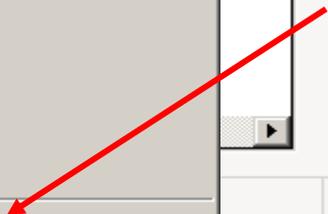
Filter Events

Properties

Go to Services

Start Server Manager 5:17 PM

Click Next in this dialog box



Project Five – Installing ADDS In Server01

- The next step will be to make decisions about the forests and domains that will be part of the network we are creating.
- Recall that a **forest** is a collection of logical **domains**.
- We are going to create a single domain, so our selection, as shown on the next page, will be to create a new domain in a new forest.



Action Edit CD Floppy Help

Server Manager

Active Directory Domain Services Installation Wizard

Choose a Deployment Configuration
You can create a domain controller for an existing forest or for a new forest.

- Existing forest
 - Add a domain controller to an existing domain
 - Create a new domain in an existing forest
This server will become the first domain controller in the new domain.
- Create a new domain in a new forest

[More about possible deployment configurations](#)

< Back Next > Cancel

users and domains, including user logon

Active Directory Domain Services

[Go to Event Viewer](#)
[Filter Events](#)
Properties

[Go to Services](#)

5:17 PM

Select "Create a new domain in a new forest."
Then Click Next.



Project Five – Installing ADDS In Server01

- You will enter, as shown on the next page, “savn.local” as the FQDN (fully qualified domain name).
- Because we will have one forest with one domain, the DNS name is called the **forest root domain**.



Enter the network name "savn.local" . Then Click Next.



Project Five – Installing ADDS In Server01

- Recall from our earlier discussions about Active Directory that domain controllers can run different versions of Windows Server operating systems.
- The ADDS functional level of a domain or forest depends on which versions of Windows Server operating systems you run on the domain controllers in the domain or forest.
- The domain or forest's advanced features are related to its functional level.
- See Active Directory – Part 2 pages 9 and 10 for more details.



Project Five – Installing ADDS In Server01

- In our case, we will set the highest functional level, which is Windows Server 2008, since all of our virtual servers are running Windows Server 2008 and we do not have any servers running an older version of the operating system.



Active Directory Domain Services Installation Wizard

Set Forest Functional Level

Select the forest functional level.

Forest functional level:
Windows Server 2008

Details:
This forest functional level does not provide any new features over the Windows 2003 forest functional level. However, it ensures that any new domains created in this forest will automatically operate at the Windows Server 2008 domain functional level, which does provide unique features.

 You will be able to add only domain controllers that are running Windows Server 2008 or later to this forest.

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

< Back **Next >** Cancel

Select "Windows Server 2008". Then Click Next.



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

The savn.local network will have only one DNS server, so be sure the DNS checkbox is checked. Then Click Next.



Action Edit CD Floppy Help

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:

Active Directory Domain Services Installation Wizard

 A delegation for this DNS server cannot be created because the authoritative parent zone cannot be found or it does not run Windows DNS server. If you are integrating with an existing DNS infrastructure, you should manually create a delegation to this DNS server in the parent zone to ensure reliable name resolution from outside the domain savn.local. Otherwise, no action is required.

Do you want to continue?

< Back Next > Cancel

Server Manager 5:17 PM

Since we will have only one DNS server in our network and a delegation is not required, you can ignore the warning message that will appear.. Click Yes.



Active Directory Domain Services Installation Wizard

Location for Database, Log Files, and SYSVOL

Specify the folders that will contain the Active Directory domain controller database, log files, and SYSVOL.

For better performance and recoverability, store the database and log files on separate volumes.

Database folder:
 Browse...

Log files folder:
 Browse...

SYSVOL folder:
 Browse...

[More about placing Active Directory Domain Services files](#)

< Back **Next >** Cancel

If Server01 had multiple physical hard drives, the folders shown in this window could be balanced across these physical drives. In our virtual environment, the default choices will be fine. Click Next.



Action Edit CD Floppy Help

Active Directory Domain Services Installation Wizard

Directory Services Restore Mode Administrator Password

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

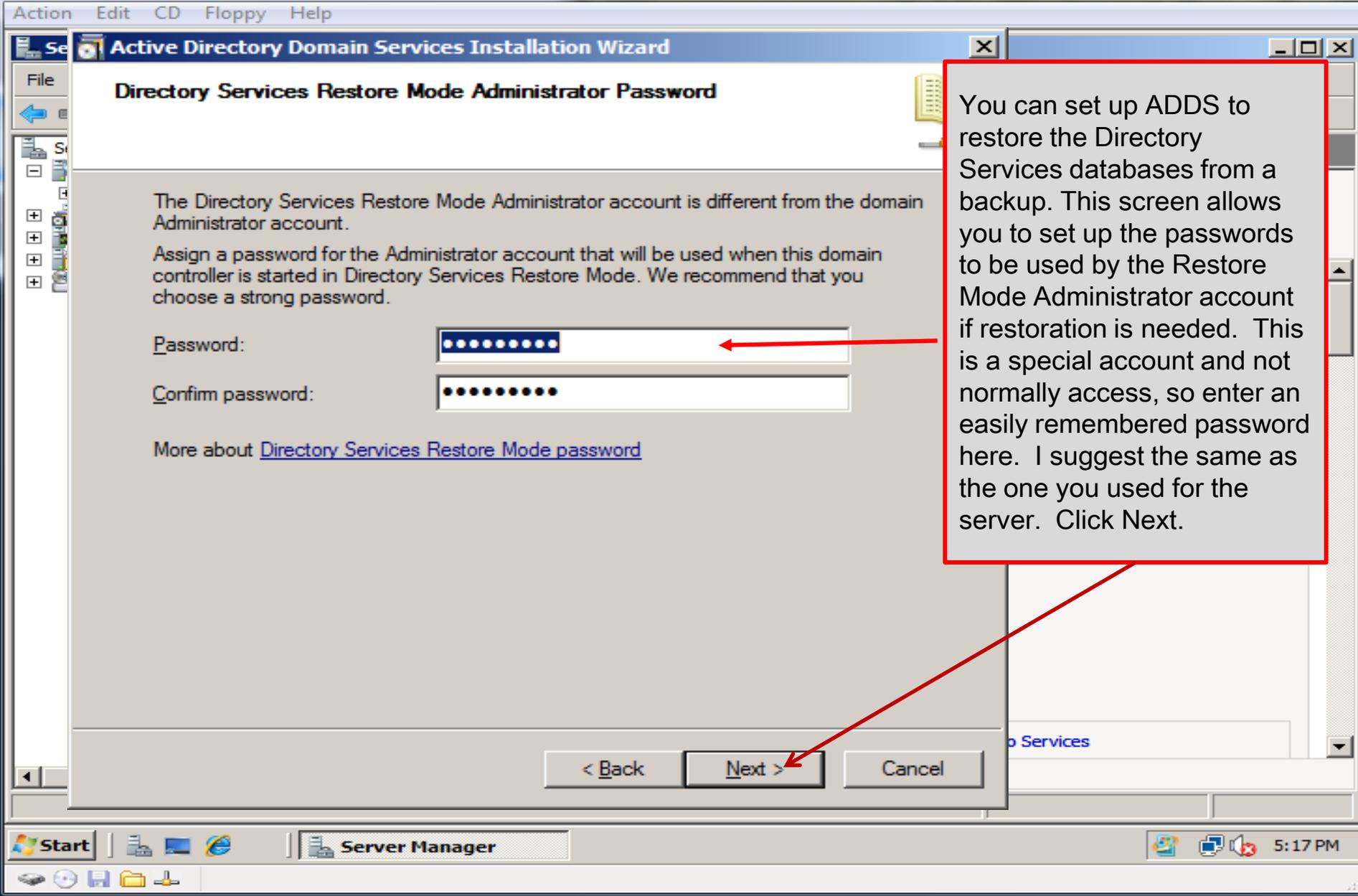
Assign a password for the Administrator account that will be used when this domain controller is started in Directory Services Restore Mode. We recommend that you choose a strong password.

Password:

Confirm password:

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

< Back Next > Cancel



You can set up ADDS to restore the Directory Services databases from a backup. This screen allows you to set up the passwords to be used by the Restore Mode Administrator account if restoration is needed. This is a special account and not normally access, so enter an easily remembered password here. I suggest the same as the one you used for the server. Click Next.



Active Directory Domain Services Installation Wizard

Summary

Review your selections:

Configure this server as the first Active Directory domain controller in a new forest.

The new domain name is savn.local. This is also the name of the new forest.

The NetBIOS name of the domain is SAVN

Forest Functional Level: Windows Server 2008

Domain Functional Level: Windows Server 2008

Site: Default-First-Site-Name

Additional Options:

To change an option, click Back. To begin the operation, click Next.

These settings can be exported to an answer file for use with other unattended operations.
More about [using an answer file](#)

Export settings...

< Back Next > Cancel

Finally, you've reached the summary screen which indicates that the ADDS configuration has been completed. Look this over to be sure everything is correct, and if not, backup and correct it. Otherwise, click Next to begin the installation of ADDS on the server (see next page)..



Action Edit CD Floppy Help

Server Manager

Active Directory Domain Services Installation Wizard

The wizard is configuring Active Directory Domain Services. This process can take from a few minutes to several hours, depending on your environment and the options that you selected.



Waiting for DNS installation to finish

Cancel

Reboot on completion

to Services

Last Refresh: 10/7/2010 5:16:48 PM [Configure refresh](#)

Start | Server Manager | 5:17 PM

The ADDS installation wizard will begin to install the ADDS options in your configuration. This might take a couple of minutes depending on the speed of your machine. You'll need to reboot the VM when things are done, but don't check the box on this screen, so that you can see the next page.



Active Directory Domain Services Installation Wizard

Completing the Active Directory Domain Services Installation Wizard

Active Directory Domain Services is now installed on this computer for the domain savn.local.

This Active Directory domain controller is assigned to the site Default-First-Site-Name. You can manage sites with the Active Directory Sites and Services administrative tool.

To close this wizard, click Finish.

< Back Finish Cancel

The ADDS installation wizard finishes up with a dialog box indicating that the installation is complete. Read the information in this window. When you click Finish, the VM will restart and change to its new role, in this case, as the domain controller.



Server Manager (SERVER01)

Active Directory Domain Services

Stores directory data and manages communication between users and domains, including user logon

Active Directory Domain Services Installation Wizard

You must restart your computer before the changes made by the Active Directory Domain Services Installation wizard take effect.

Restart Now **Do not Restart Now**

Click Restart Now.

System Services: 4 Running, 6 Stopped [Go to Services](#)

Last Refresh: 10/7/2010 5:16:48 PM [Configure refresh](#)

Start Server Manager 5:17 PM





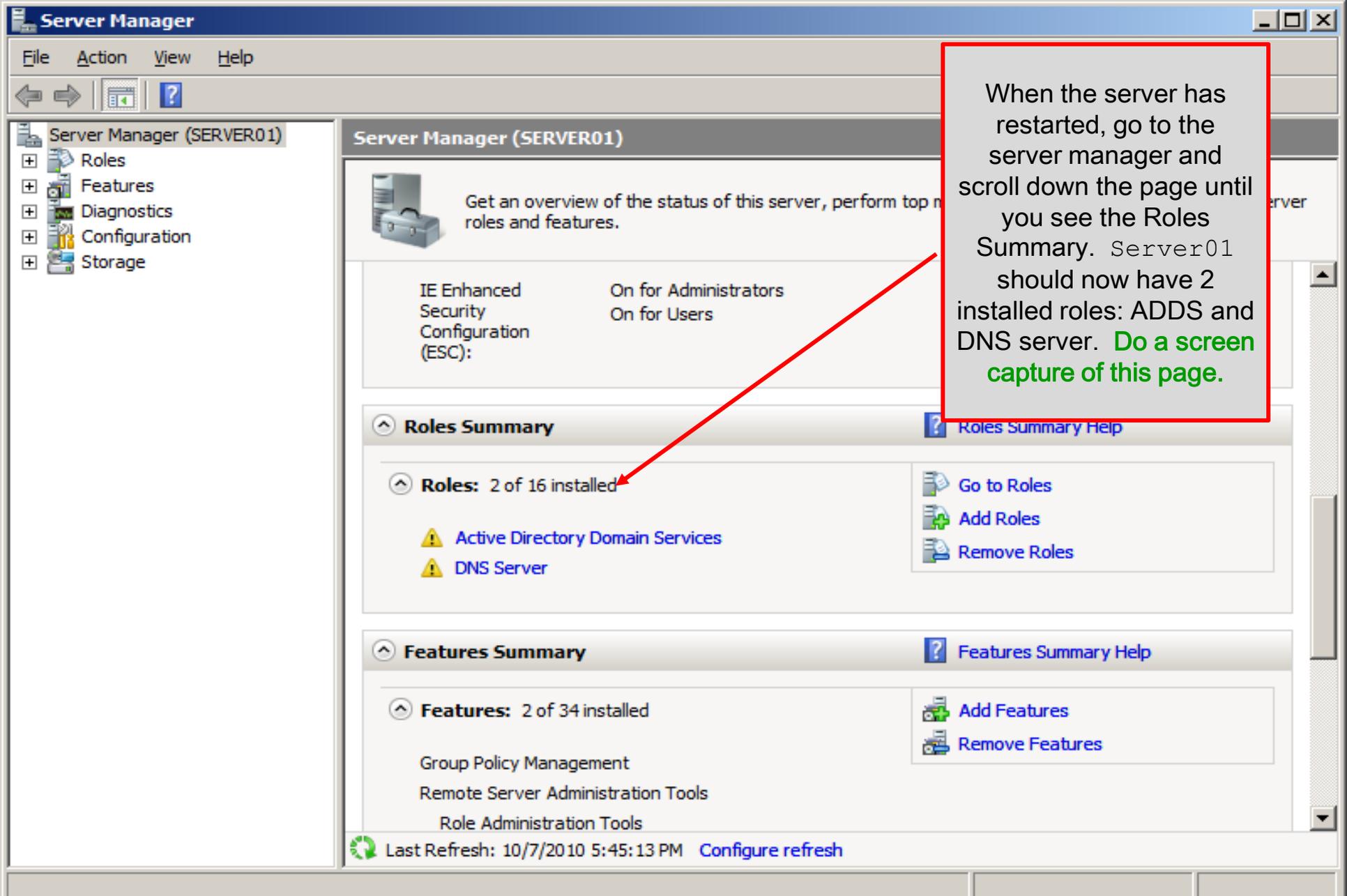
When the server restarts, it will now have its new identity as the domain controller for the `savn.local` network.

SAVN\Administrator

Password

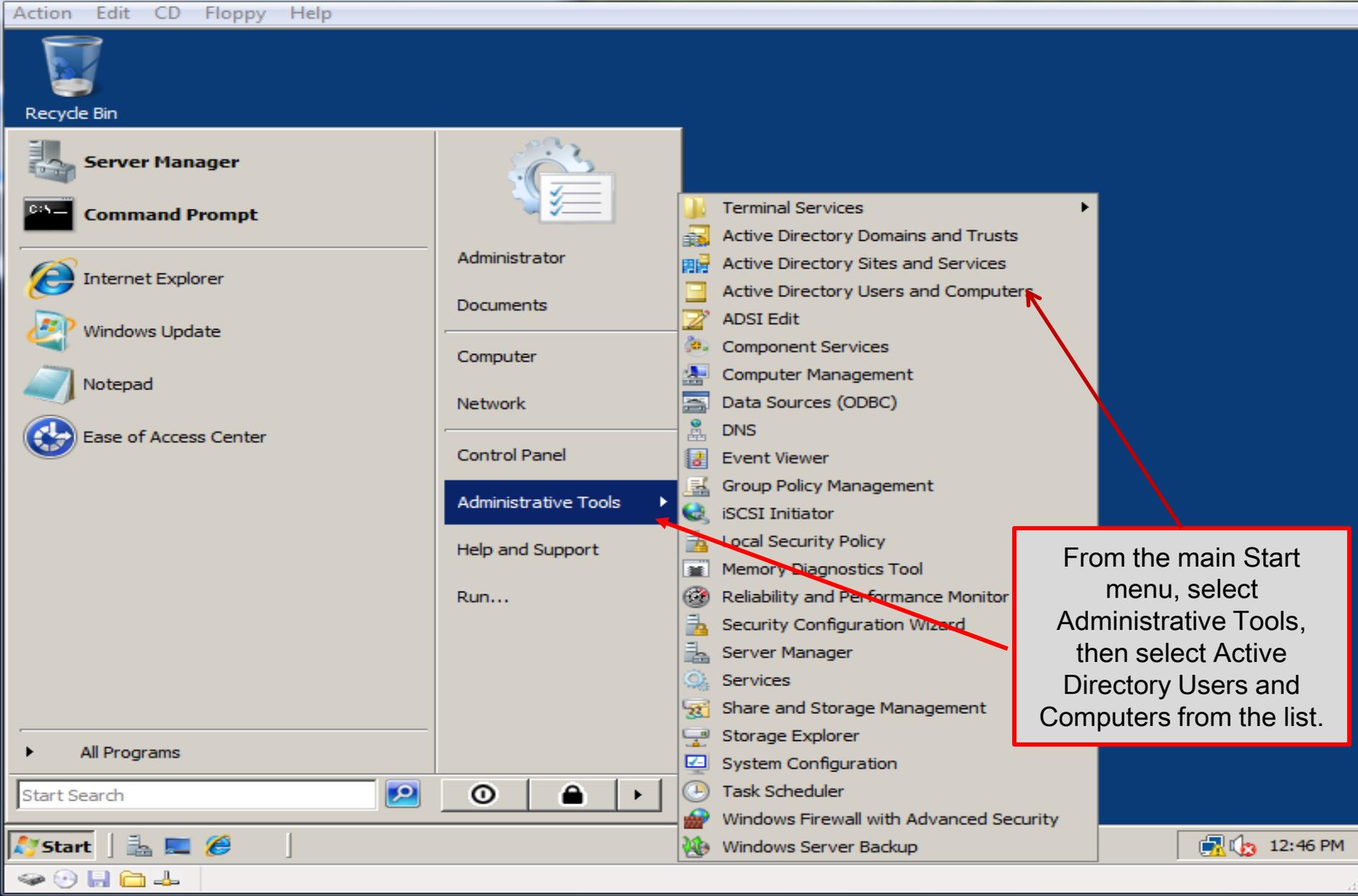
Switch User





When the server has restarted, go to the server manager and scroll down the page until you see the Roles Summary. Server01 should now have 2 installed roles: ADDS and DNS server. **Do a screen capture of this page.**





From the main Start menu, select Administrative Tools, then select Active Directory Users and Computers from the list.



Active Directory Users and Computers



- Active Directory Users and Comput
- Saved Queries
- savn.local
 - Builtin
 - Computers
 - Domain Controllers
 - ForeignSecurityPrincipals
 - Users

Name	Type	Description
Administrator	User	Built-in account for admini...
Allowed RODC Password Replication Group	Security Group - Domain Local	Members in this group can...
Cert Publishers	Security Group - Domain Local	Members of this group are...
Denied RODC Password Replication Group	Security Group - Domain Local	Members in this group can...
DnsAdmins	Security Group - Domain Local	DNS Administrators Group
DnsUpdateProxy	Security Group - Global	DNS clients who are permi...
Domain Admins	Security Group - Global	Designated administrators...
Domain Computers	Security Group - Global	All workstations and serve...
Domain Controllers	Security Group - Global	All domain controllers in th...
Domain Guests	Security Group - Global	All domain guests
Domain Users	Security Group - Global	All domain users
Enterprise Admins	Security Group - Universal	Designated administrators...
Enterprise Read-only Domain Controllers	Security Group	
Group Policy Creator Owners	Security Group	
Guest	User	
RAS and IAS Servers	Security Group	
Read-only Domain Controllers	Security Group	
Schema Admins	Security Group	

The list of users shows that the Administrator is a user and Domain Users is a security group set up for all domain users. This security group will contain the user accounts for those users who require access to network resources within the domain.





- Active Directory Users and Comput
- Saved Queries
- savn.local
 - Builtin
 - Computers
 - Domain Controllers**
 - ForeignSecurityPrincipals
 - Users

Name	Type	DC Type	Site	Description
------	------	---------	------	-------------

SERVER01	Computer	GC	Default-First-Sit...	
----------	----------	----	----------------------	--

Select the `savn.local` network and then the Domain Controllers option sub-option and you should see this.



Project Five – Joining The Domain

- For a VM to access the network resources of the `savn.local` domain, the VM must be a member of the domain.
- This process is called **joining a domain**.
- In this part of the project you will contact the domain controller (`Server01`) from a VM and request to become a member of the domain.
- The actual process of joining a domain varies somewhat from operating system to operating system, so you will see some differences between the actions when `Server02` and `Client01` join the domain, but in both cases you will use the Computer Name/Domain Changes dialog box to accomplish the join.
- The actual process is quite simple and will take you far less time than Project Four required.

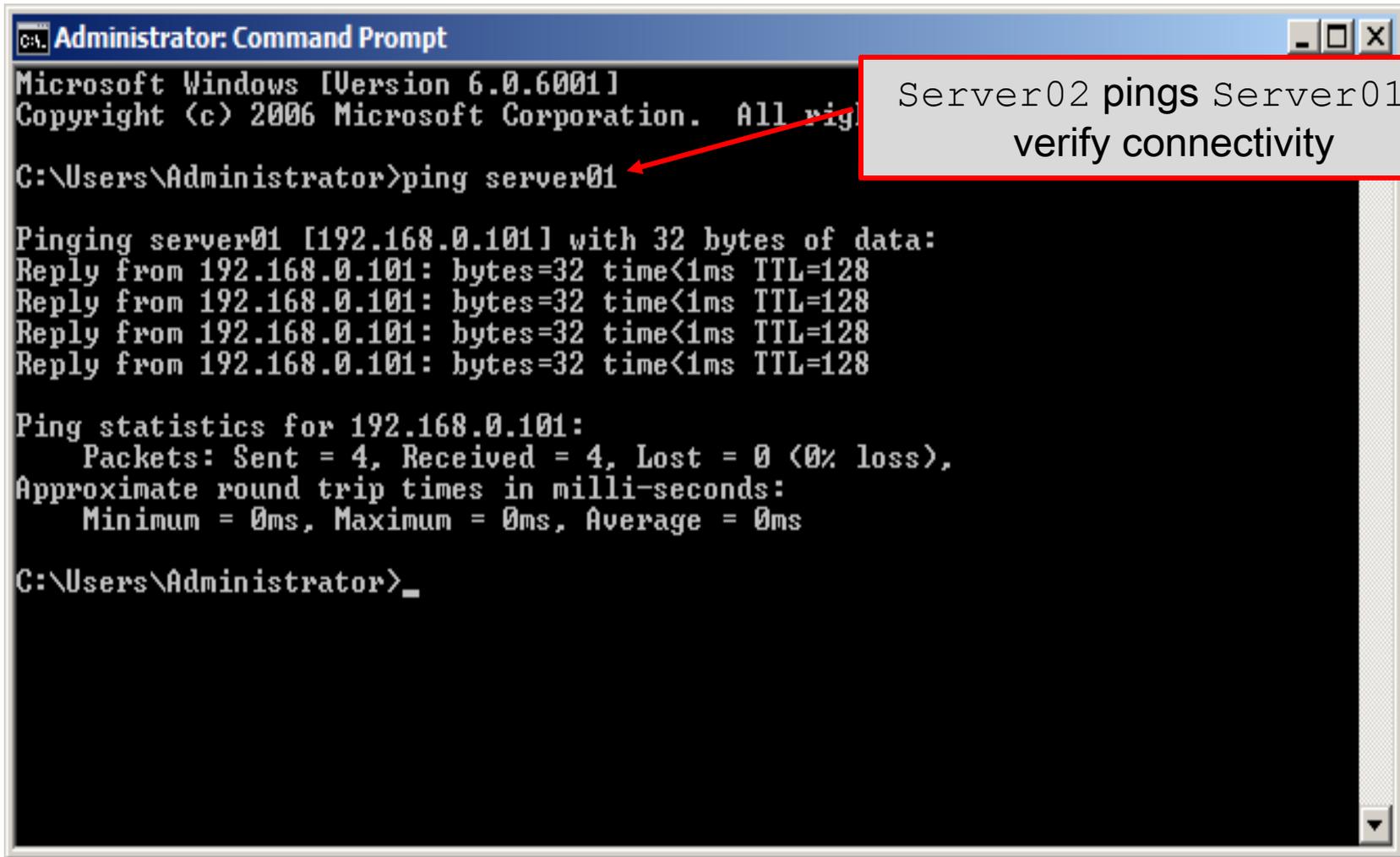


Project Five – Joining A Domain – Server02

- To begin the process of joining Server02 to the `savn.local` network, start both Server01 and Server02 running.
- From a command prompt, have Server02 ping Server01 to verify connectivity.



Project Five – Joining A Domain – Server02



```
Administrator: Command Prompt
Microsoft Windows [Version 6.0.6001]
Copyright (c) 2006 Microsoft Corporation. All rights reserved.

C:\Users\Administrator>ping server01

Pinging server01 [192.168.0.101] with 32 bytes of data:
Reply from 192.168.0.101: bytes=32 time<1ms TTL=128

Ping statistics for 192.168.0.101:
    Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),
    Approximate round trip times in milli-seconds:
        Minimum = 0ms, Maximum = 0ms, Average = 0ms

C:\Users\Administrator>_
```

Server02 pings Server01 to verify connectivity



Project Five – Joining A Domain – Server02

- From the Start menu in Server02, click on Administrative Tools, then click the link for Server Manager.
- You should see the window as shown on the next page.



Server Manager

File Action View Help

Server Manager (SERVER02)

- Roles
- Features
- Diagnostics
- Configuration
- Storage

Server Manager (SERVER02)

Get an overview of the status of this server, perform top management tasks, and add or remove server roles and features.

Server Summary [Server Summary Help](#)

Computer Information

Full Computer Name:	Server02
Workgroup:	WORKGROUP
Local Area Connection:	192.168.0.102
Remote Desktop:	Disabled
Product ID:	92573-082-2500115-76134

Do not show me this console at logon

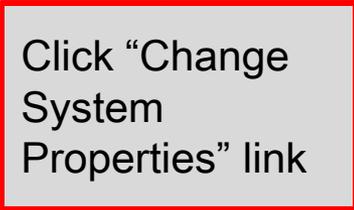
Security Information

Windows Firewall:	On
Windows Updates:	Not configured

[Change System Properties](#)
[View Network Connections](#)
[Configure Remote Desktop](#)

[Go to Windows Firewall](#)
[Configure Updates](#)
[Check for New Roles](#)

Last Refresh: 10/18/2010 10:23:52 AM [Configure refresh](#)



System Properties

Computer Name | Hardware | Advanced | Remote

Windows uses the following information to identify your computer on the network.

Computer description:

For example: "IIS Production Server" or "Accounting Server".

Full computer name: Server02

Workgroup: WORKGROUP

To rename this computer or change its domain or workgroup, click Change.

top management tasks, and add or remove server

Server Summary Help

- Change System Properties
- View Network Connections
- Configure Remote Desktop

Click "Change"

- Go to Windows Firewall
- Configure Updates
- Check for New Roles





- Server Manager (SEI)
- Roles
- Features
- Diagnostics
- Configuration
- Storage

Computer Name/Domain Changes

You can change the name and the membership of this computer. Changes might affect access to network resources.
[More information](#)

Computer name:

Server02

Full computer name:

Server02

More...

Member of

Domain:

Workgroup:

WORKGROUP

OK

Cancel

Click "Domain" and enter "savn.local"



Action Edit CD Floppy Help

Server Manager

File Action View Help

Computer Name/Domain Changes

You can change the name and the membership of this computer. Changes might affect access to network resources. [More information](#)

Computer name:
Server02

Full computer name:
Server02

More...

Member of

Domain:
savn.local

Workgroup:
WORKGROUP

OK Cancel

Server Summary Help

- Change System Properties
- View Network Connections
- Configure Remote Desktop

Go to Windows Firewall

Configure Updates

Check for New Roles

Start Server Manager Server Manager System Properties 10:23 AM

Click "OK"



The screenshot shows the Server Manager console with two overlapping dialog boxes. The 'Computer Name/Domain Changes' dialog is in the background, and the 'Windows Security' dialog is in the foreground. The 'Windows Security' dialog contains a sub-dialog titled 'Computer Name/Domain Changes' with the text: 'Enter the name and password of an account with permission to join the domain.' Below this text are two input fields: the first contains 'Administrator' and the second contains a masked password. Below the password field, it says 'Domain: savn.local'. At the bottom of the dialog are 'OK' and 'Cancel' buttons. A red arrow points from the text box on the right to the 'Administrator' text in the input field.

When the Windows Security window prompts you for the username and password, enter the user name Administrator and the password for the domain controller (Server01), then Click "OK"



Computer Name/Domain Changes

You can change the name and the membership of this

Computer Name/Domain Changes



Welcome to the savn.local domain.

OK

savn.local

Workgroup:

WORKGROUP

OK

Cancel

Server02 has not successfully joined the savn.local network.

Click "OK" and go through the restart procedure.



Server Manager (SERVER02)

File Action View Help

Server Manager (SERVER02)

Get an overview of the status of this server, perform top management tasks, and add or remove server roles and features.

Server Summary [Server Summary Help](#)

Computer Information

Full Computer Name:	Server02.savn.local
Domain:	savn.local
Local Area Connection:	192.168.0.102
Remote Desktop:	Disabled
Product ID:	92573-082-2500115-76134

Do not show me this console at logon

Security Information

Windows Firewall:	On
Windows Updates:	Not configured

Last Refresh: 10/18/2010 4:09:41 PM [Configure refresh](#)

[Change System Properties](#)
[View System Properties](#)
[Control Panel](#)

[Go to Windows Firewall](#)
[Configure Updates](#)
[Check for New Roles](#)

Start | Server Manager | 4:09 PM

Do a screen capture of this screen which shows Server02 now a part of the savn.local domain.

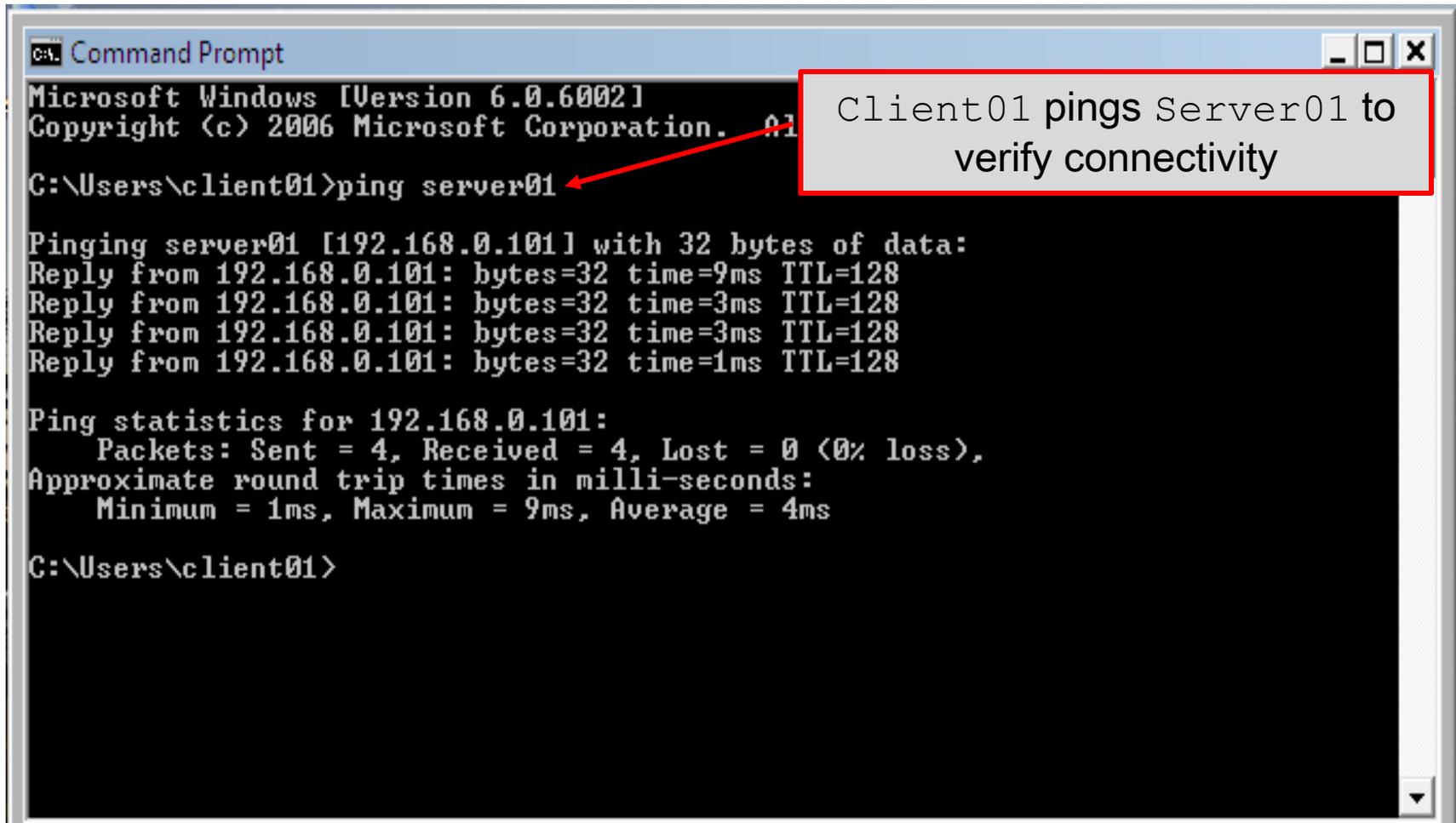


Project Five – Joining A Domain – Client01

- The procedure for getting the Vista-based Client01 to join the `savn.local` domain is essentially the same as that of the Server2008-based Server02.
- Before proceeding, open a Command Prompt in Client01 and verify that Server01 is accessible by pinging the server, as shown on the next page.



Project Five – Joining A Domain – Client01



```
CA: Command Prompt
Microsoft Windows [Version 6.0.6002]
Copyright (c) 2006 Microsoft Corporation. All rights reserved.

C:\Users\client01>ping server01

Pinging server01 [192.168.0.101] with 32 bytes of data:
Reply from 192.168.0.101: bytes=32 time=9ms TTL=128
Reply from 192.168.0.101: bytes=32 time=3ms TTL=128
Reply from 192.168.0.101: bytes=32 time=3ms TTL=128
Reply from 192.168.0.101: bytes=32 time=1ms TTL=128

Ping statistics for 192.168.0.101:
    Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),
    Approximate round trip times in milli-seconds:
        Minimum = 1ms, Maximum = 9ms, Average = 4ms

C:\Users\client01>
```

Client01 pings Server01 to verify connectivity



Project Five – Joining A Domain – Client01

- To connect Client01 to the savn.local domain, click Start, right click Computer, then click Properties, and then click Advanced System Settings.
- This will open the System Properties dialog box as shown on the next page.



Action Edit CD Floppy Help

Control Panel > System

Tasks

- Device Manager
- Remote settings
- System protection
- Advanced system settings

View basic information about your computer

Windows edition

Windows Vista™ Business
Copyright © 2007 Microsoft Corporation. All rights reserved.
Service Pack 2
[Upgrade Windows Vista](#)

System

Rating: Windows Experience Index: U
Processor: Intel(R) Core(TM)2 Quad CPU
Memory (RAM): 511 MB
System type: 32-bit Operating System

Computer name, domain, and workgroup settings

Computer name: client01-PC [Change settings](#)
Full computer name: client01-PC
Computer description:
Workgroup: WORKGROUP

Windows activation

See also

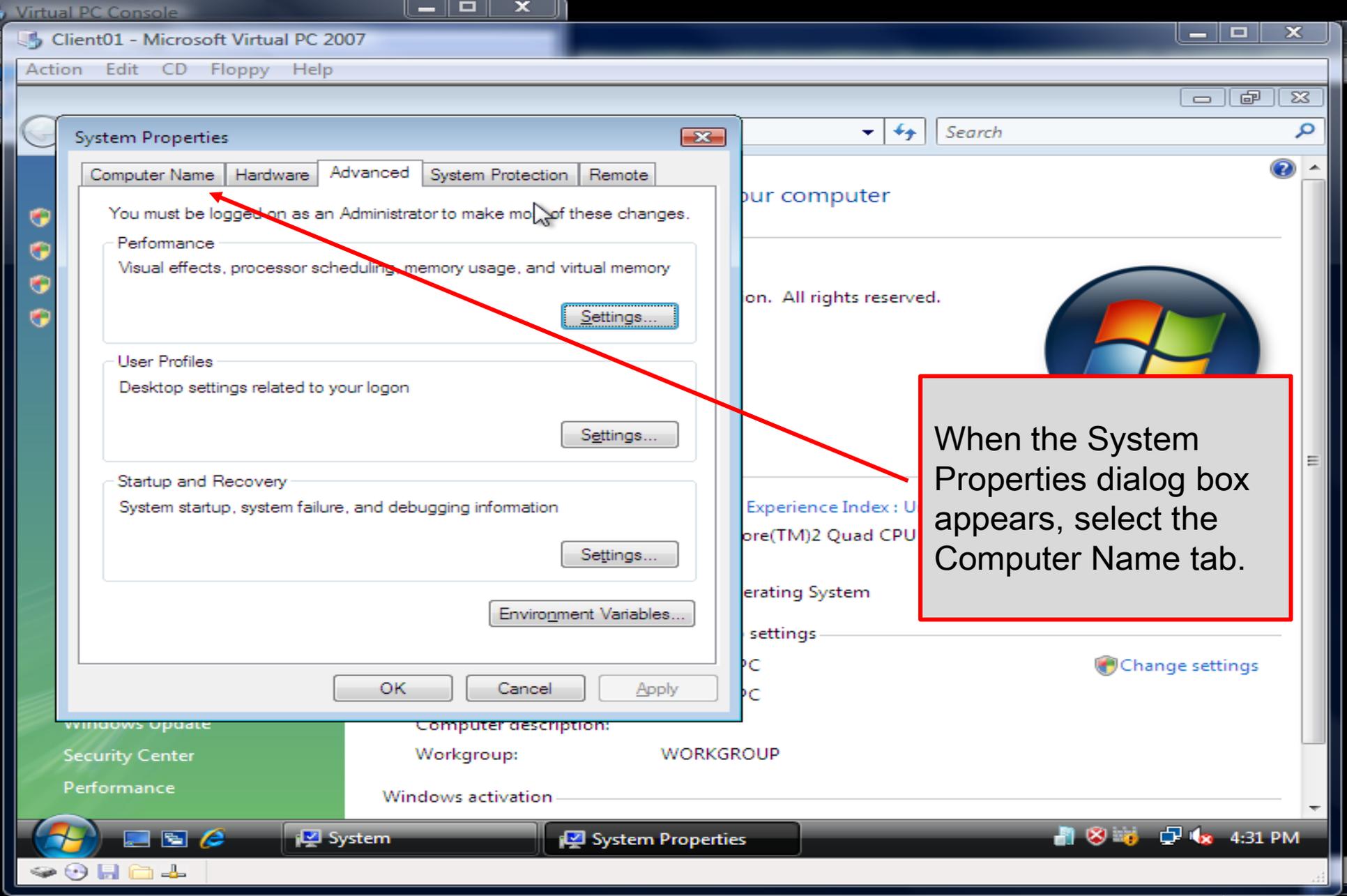
- Windows Update
- Security Center
- Performance

4:28 PM

Select "Advanced system settings".

When the User Account Control box appears, just click Continue.





When the System Properties dialog box appears, select the Computer Name tab.



System Properties

Computer Name Hardware Advanced System Protection Remote

Windows uses the following information to identify your computer on the network.

Computer description:

For example: "Kitchen Computer" or "Mary's Computer".

Full computer name: client01-PC

Workgroup: WORKGROUP

To use a wizard to join a domain or workgroup, click Network ID...

To rename this computer or change its domain or workgroup, click Change...

OK Cancel Apply

Click the "Change" button.



Client01 - Microsoft Virtual PC 2007

Action Edit CD Floppy Help

System Properties

Computer Name/Domain Changes

You can change the name and the membership of this computer. Changes might affect access to network resources. [More information](#)

Computer name:
client01-PC

Full computer name:
client01-PC

More...

Member of

Domain:
savn.local

Workgroup:
WORKGROUP

OK Cancel

OK Cancel Apply

Search

your computer

on. All rights reserved.



Experience Index: L
ore(TM)2 Quad CPU

erating System

settings

Change settings

Windows Update
Security Center
Performance

Computer description:
Workgroup: WORKGROUP

Windows activation

System System Properties

4:34 PM

Click the "Domain" option and enter "savn.local" as the domain.



System Properties

Computer Name/Domain Changes

Windows Security

Computer Name/Domain Changes

Enter the name and password of an account with permission to join the domain.

 Administrator

.....

Domain: savn.local

OK Cancel

WORKGROUP

OK Cancel

OK Cancel Apply

When the Windows Security window prompts you for the username and password, enter the user name Administrator and the password for the domain controller (Server01), then Click "OK"



System Properties

Computer Name/Domain Changes

You can change the name and the membership of this computer. Changes might affect access to network resources. [More information](#)

Computer name:
client01-PC

Full computer name:
client01-PC

Member of

Domain:
savn.local

Workgroup:
WORKGROUP

OK Cancel

Computer Name/Domain Changes

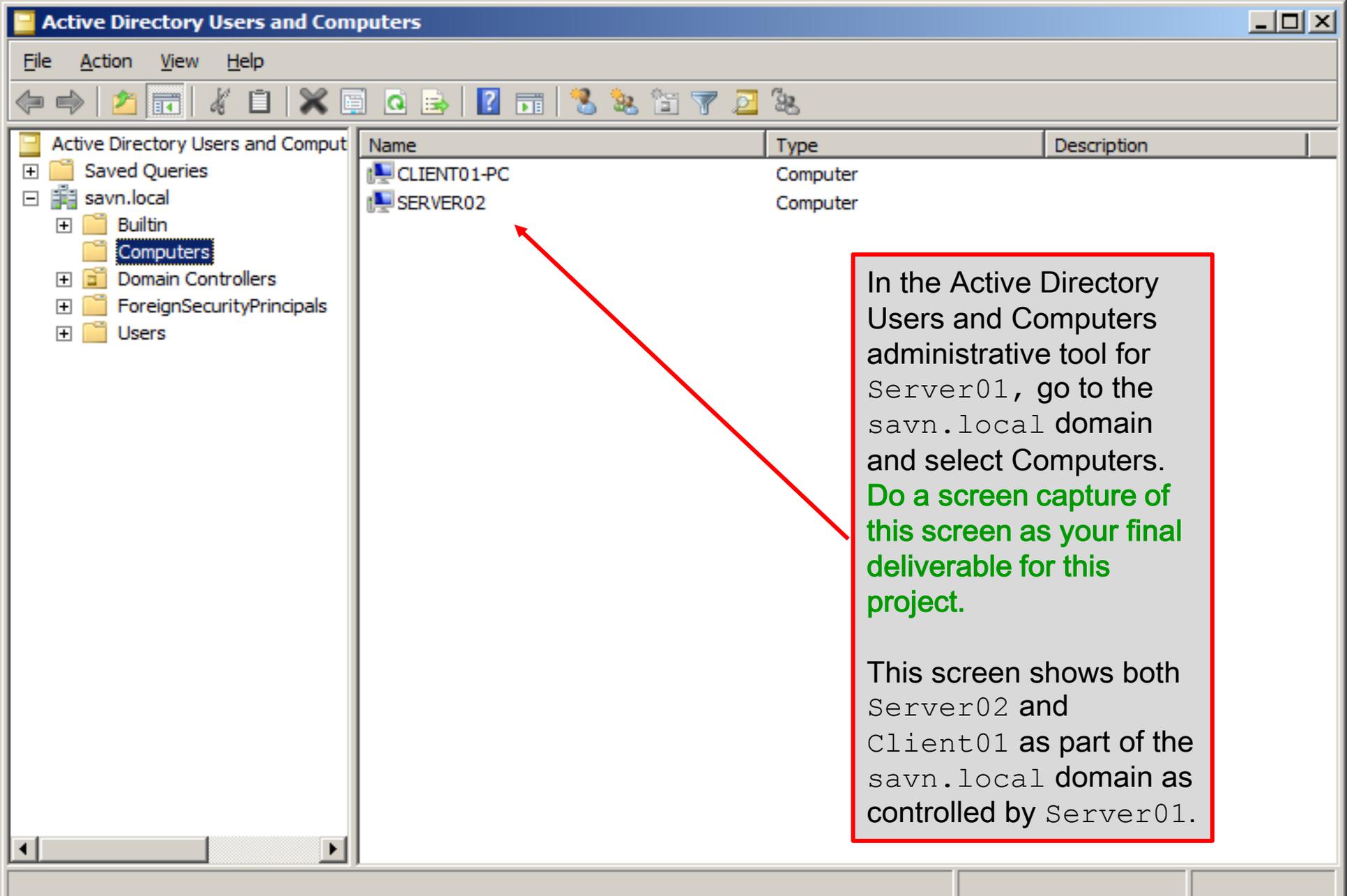
 Welcome to the savn.local domain.

OK

Client01 has now joined the savn.local domain.

Click OK. Go through the restart procedure.





In the Active Directory Users and Computers administrative tool for Server01, go to the savn.local domain and select Computers. Do a screen capture of this screen as your final deliverable for this project.

This screen shows both Server02 and Client01 as part of the savn.local domain as controlled by Server01.



Project Five

- The deliverables for this project consists of two screen shots as shown on pages 35, 49, and 59 respectively.
- For those of you having memory issues as related to the virtual machines, you will need to have a maximum of two virtual machines running simultaneously for this project. Let Sheldon or me know if you're having issues with this.

