

CNT 4603: System Administration Spring 2011

Project Six – Managing The `savn.local` Domain

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Project Six

- **Title:** “Project Six: Managing The `savn.local` Domain”
- **Points:** 30 points
- **Due Date:** April 13th by 11:55 pm WebCourses time.
- **Objectives:** The completion of Project Five left you with a completely configured `savn.local` network. With this project we now begin basic system administration activities on the network. This project will focus on `Server01` and `Server02`.
- **Deliverables:** Screen shots as shown on pages 8, 20, 27, and 28.



Project Six – Background

- You may recall from our earlier discussions of domains/trees/forests that an organizational unit (OU) offers a way to achieve more flexibility in managing the resources associated with a business unit, department, or division than is possible through domain administration alone.
- An OU is a grouping of related objects within a domain, similar to the idea of having sub-directories within a directory.
- OUs are typically used to reflect the structure of the organization without having to completely restructure the domains with the that structure changes.
- OUs allow the grouping of objects so that they can be administered using the same group policies, such as security.



Project Six – Background

- The step in Project Six will be to create some basic OUs for our `savn.local` domain.
- We'll consider our organization to be made up of three basic units: administration, research, and sales.
- The next couple of pages step you through setting up these three OUs.



Project Six – Creating OUs

- Start `Server01` (the domain controller for `savn.local`) domain.
- Click on Administrative Tools.
- Click Active Directory Users and Computers.
- Right-click the `savn.local` link in the left pane.
- Point to New and select Organizational Unit.
- When the new window appears, enter the name: `Administration`.
- Repeat these steps for: `Research and Sales`.
- After completing this task, get a screen shot of the Active Directory Users and Computers window showing the three new OUs, like page 8.



The screenshot shows the Active Directory Users and Computers console. The main pane displays a table with the following data:

Name	Type	DC Type	Site	Description
SERVER01	Computer	GC	Default-First-Sit...	

A context menu is open over the 'New' option, listing the following items:

- Computer
- Contact
- Group
- InetOrgPerson
- MSMQ Queue Alias
- Organizational Unit
- Printer
- User
- Shared Folder

A red arrow points from a red-bordered box containing the text 'Select Organizational Unit' to the 'Organizational Unit' option in the context menu.



Project Six – Creating OUs

New Object - Organizational Unit ✕

 Create in: savn.local/

Name:



Active Directory Users and Computers

File Action View Help

Name	Type	Description
Builtin	builtinDomain	
Computers	Container	Default container for upgr...
Domain Controllers	Organizational Unit	Default container for dom...
ForeignSecurityPrincipals	Container	Default container for secu...
LostAndFound	lostAndFound	Default container for orph...
Program Data	Container	Default location for storag...
System	Container	Builtin system settings
Users	Container	Default container for upgr...
NTDS Quotas	msDS_QuotaContainer	Quota specifications cont...
Administration	Organizational Unit	
Sales	Organizational Unit	
Research	Organizational Unit	
Infrastructure	infrastructureUpdate	

Do a screen capture of this page illustrating the three new OUs.



Project Six – User Account Management

- We'll use the OUs you just created a bit later (and also in subsequent projects), but the next thing that I want to give you some experience handling is the creation and manipulation of user accounts on the servers.
- While `Server02` is a member of the `savn.local` domain it is also a stand-alone server (in that it is not a domain controller). Hence, on `Server02` we can create a local, non-domain oriented account. We'll do this first, before we create any domain oriented accounts from inside AD on `Server01`.

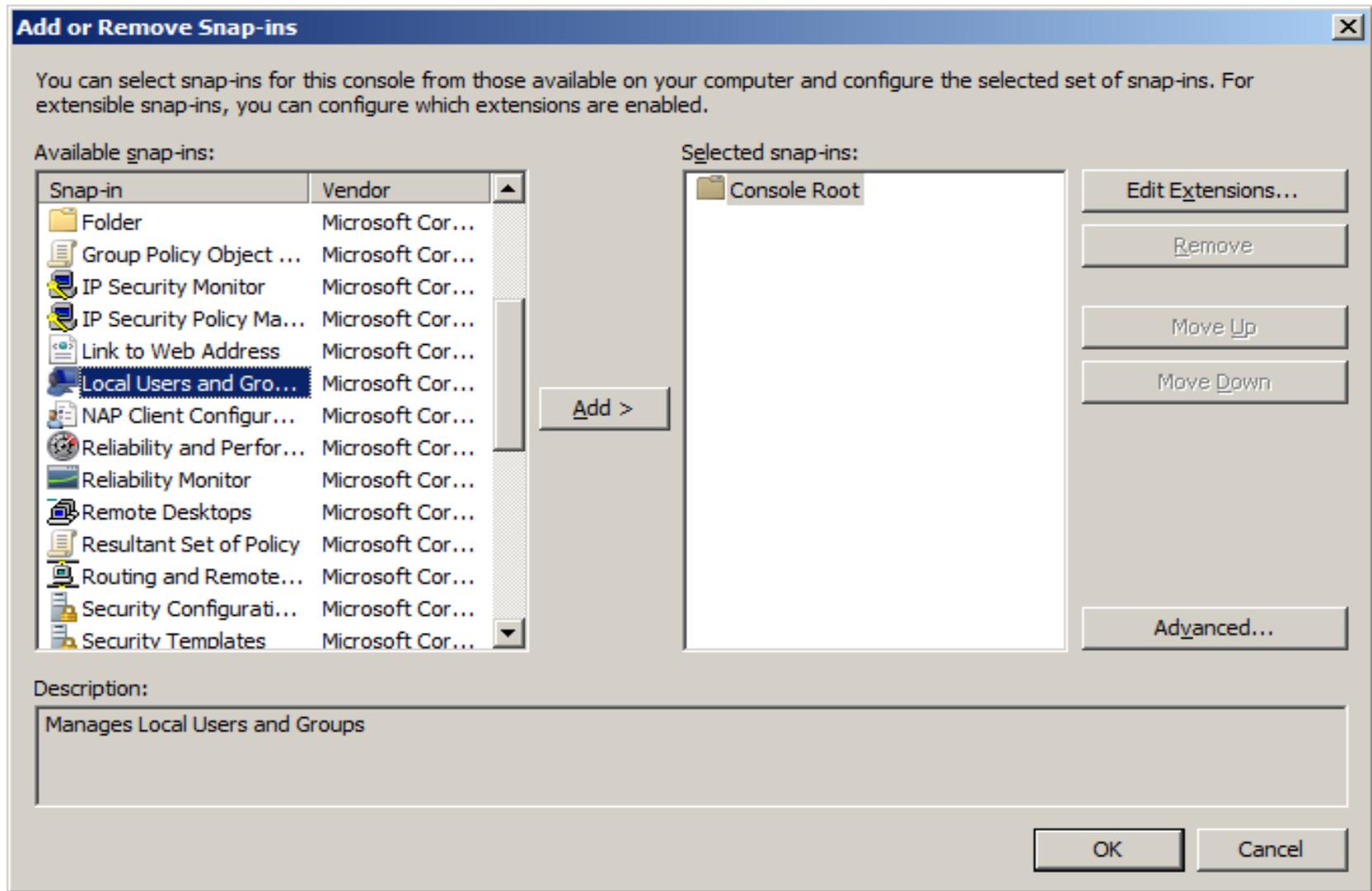


Generating a Local User Account on Server02

- On a server where AD is not installed, new user accounts are created by first installing the Local Users and Groups MMC (Microsoft Management Console) snap-in for standalone servers.
- The steps for doing this are:
 - Start Server02 running.
 - Click Start, click Run, enter `mmc` at the prompt, and click OK.
 - Click the File menu option, and click Add/Remove Snap
 - Under Available snap-ins, find and click Local Users and Groups. See next page for a screen shot of this.

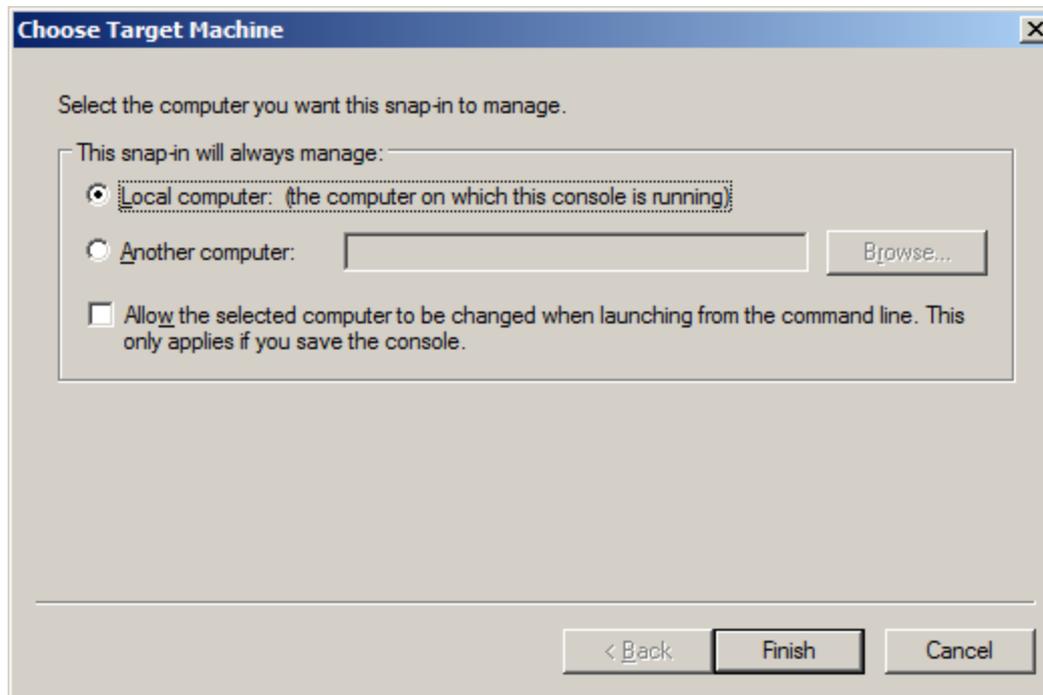


Generating a Local User Account on Server02



Generating a Local User Account on Server02

- Click the Add button to make this a selected snap-in.
- In the Choose Target Machine dialog box, leave Local computer (the computer on which this console is running) selected and click Finish.



Generating a Local User Account on Server02

Add or Remove Snap-ins

You can select snap-ins for this console from those available on your computer and configure the selected set of snap-ins. For extensible snap-ins, you can configure which extensions are enabled.

Available snap-ins:

Snap-in	Vendor
Folder	Microsoft Cor...
Group Policy Object ...	Microsoft Cor...
IP Security Monitor	Microsoft Cor...
IP Security Policy Ma...	Microsoft Cor...
Link to Web Address	Microsoft Cor...
Local Users and Gro...	Microsoft Cor...
NAP Client Configur...	Microsoft Cor...
Reliability and Perfor...	Microsoft Cor...
Reliability Monitor	Microsoft Cor...
Remote Desktops	Microsoft Cor...
Resultant Set of Policy	Microsoft Cor...
Routing and Remote...	Microsoft Cor...
Security Configurati...	Microsoft Cor...
Security Templates	Microsoft Cor...

Add >

Selected snap-ins:

- Console Root
- Local Users and Groups (Local)

Edit Extensions...
Remove
Move Up
Move Down
Advanced...

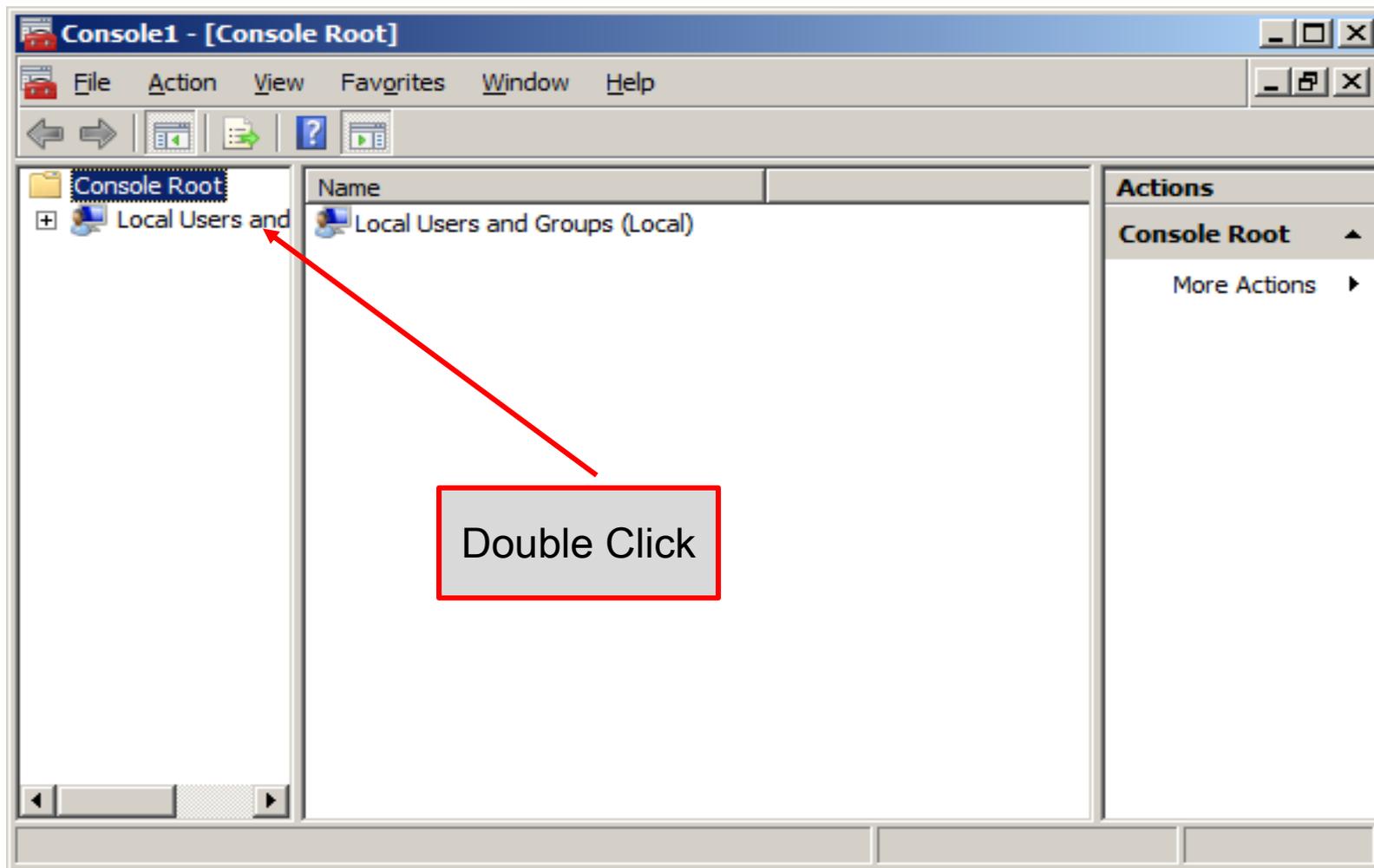
Description:
Manages Local Users and Groups

Click OK

OK Cancel

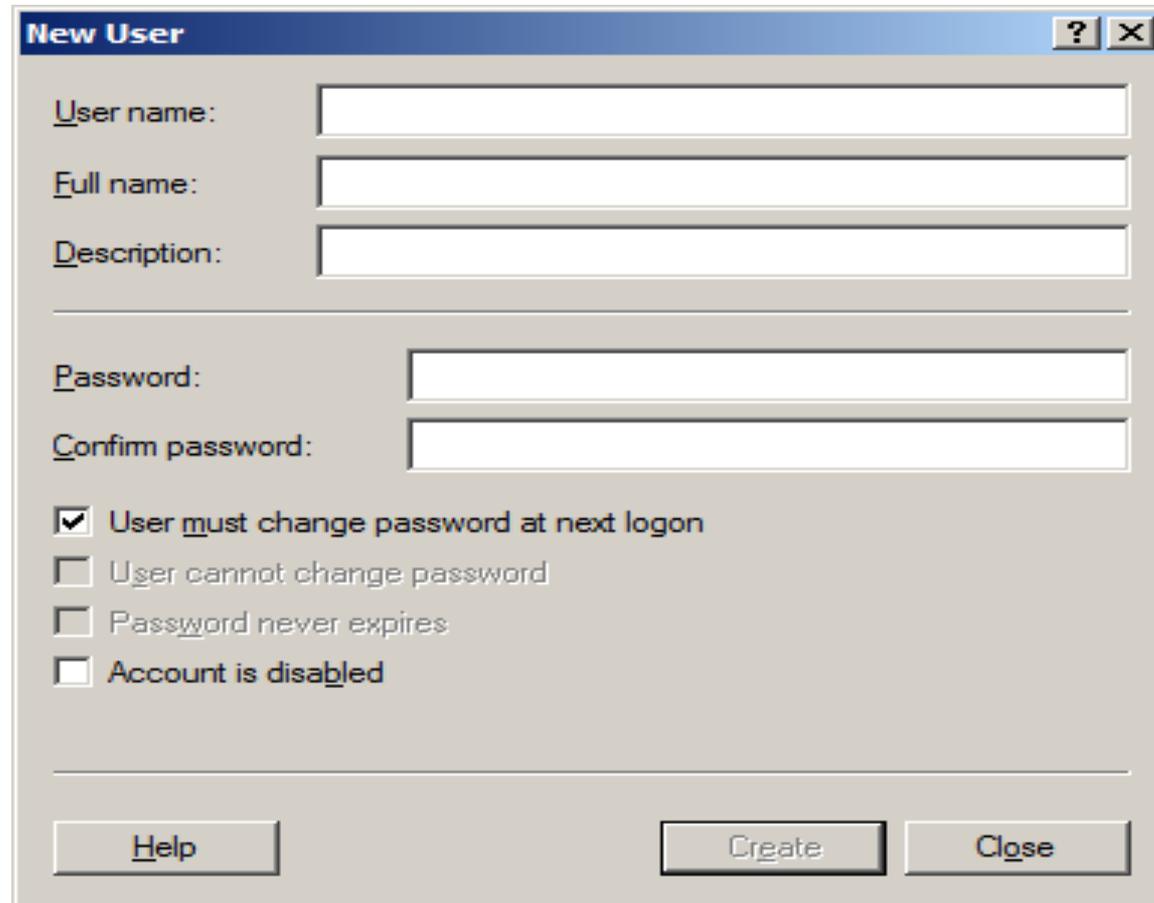


Generating a Local User Account on Server02



Generating a Local User Account on Server02

- When you click the Action menu item a drop down list containing several options appears. The first of these options is New User... , click on this option and the New User dialog box as shown below appears:



The screenshot shows a 'New User' dialog box with the following fields and options:

- User name:** [Text input field]
- Full name:** [Text input field]
- Description:** [Text input field]
- Password:** [Text input field]
- Confirm password:** [Text input field]
- User must change password at next logon
- User cannot change password
- Password never expires
- Account is disabled

Buttons at the bottom: **Help**, **Create**, **Close**



Generating a Local User Account on Server02

New User [?] [X]

User name: localuser01

Full name: local user 01

Description:

Password: [dots]

Confirm password: [dots]

User must change password at next logon

User cannot change password

Password never expires

Account is disabled

[Help] [Create] [Close]

Assign this new user the username: localuser01

Assign this new user a password that fits the requirements that you can remember or write it down.

Since we don't have any security concerns on our little network, set the password to never expire. Note: the default is set so that the user must change this password at the next login.

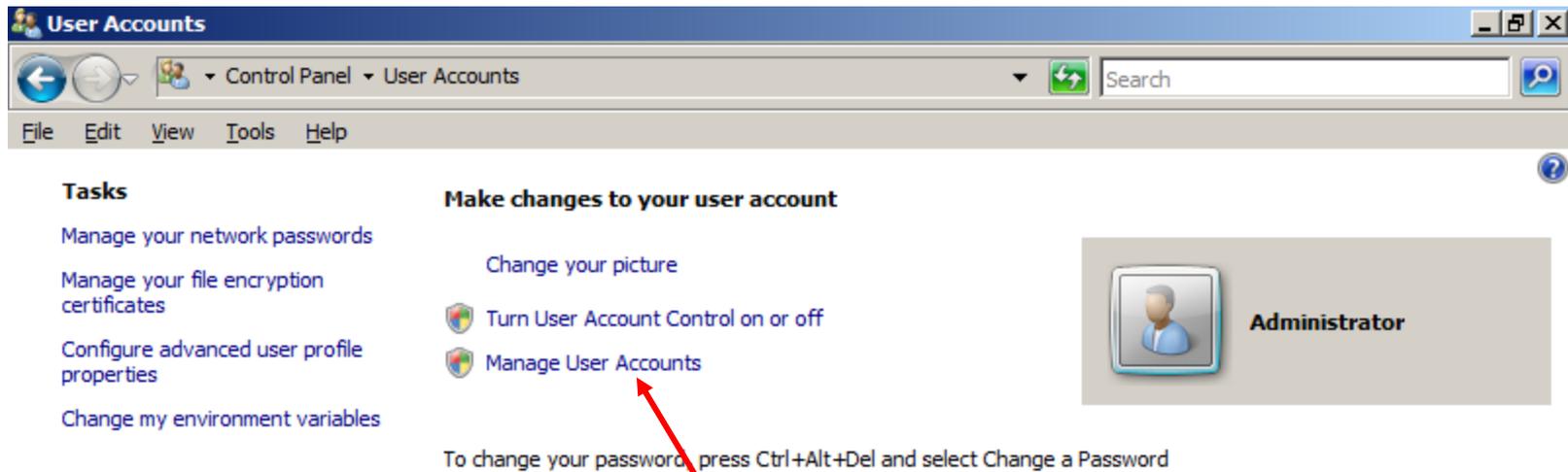


Generating a Local User Account on Server02

- When you complete this task, save the changes when prompted and you will have successfully created a local user account on Server02.
- Note that localuser01 is not a domain user and is known only locally to Server02.
- From the Control Panel in Server02, select the User Accounts option as shown on the next page.



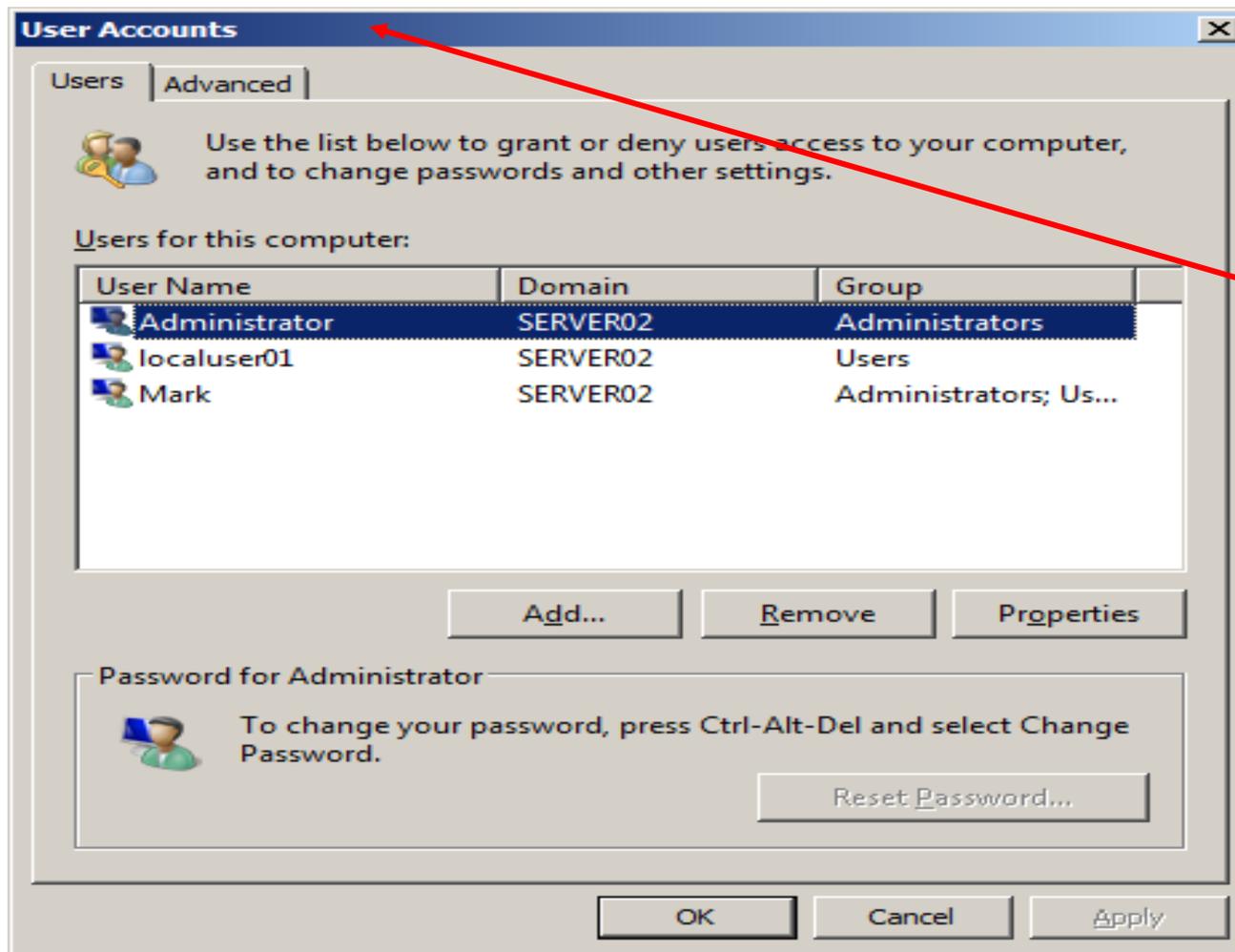
Generating a Local User Account on Server02



Double click
Manage User
Accounts



Generating a Local User Account on Server02



Do a screen capture of this window which shows that the new user account has been created.



Generating a Domain User Account on `Server01`

- Management and access to resources through Active Directory begins through user accounts. On a server where AD is installed, new user accounts are created by first installing the Active Directory Users and Computers snap-in. We've already installed this snap-in in an earlier project. It is accessible from Administrative Tools.
- To create a user in the `savn.local` domain the steps are:
 - Start `Server01` running.
 - Click Administrative Tools, Select Active Directory Users and Computers from the list.
 - In the left pane, click the plus sign in front of the `savn.local` domain entry (it may already be expanded depending on what you've done here previously).



Generating a Domain User Account on Server01

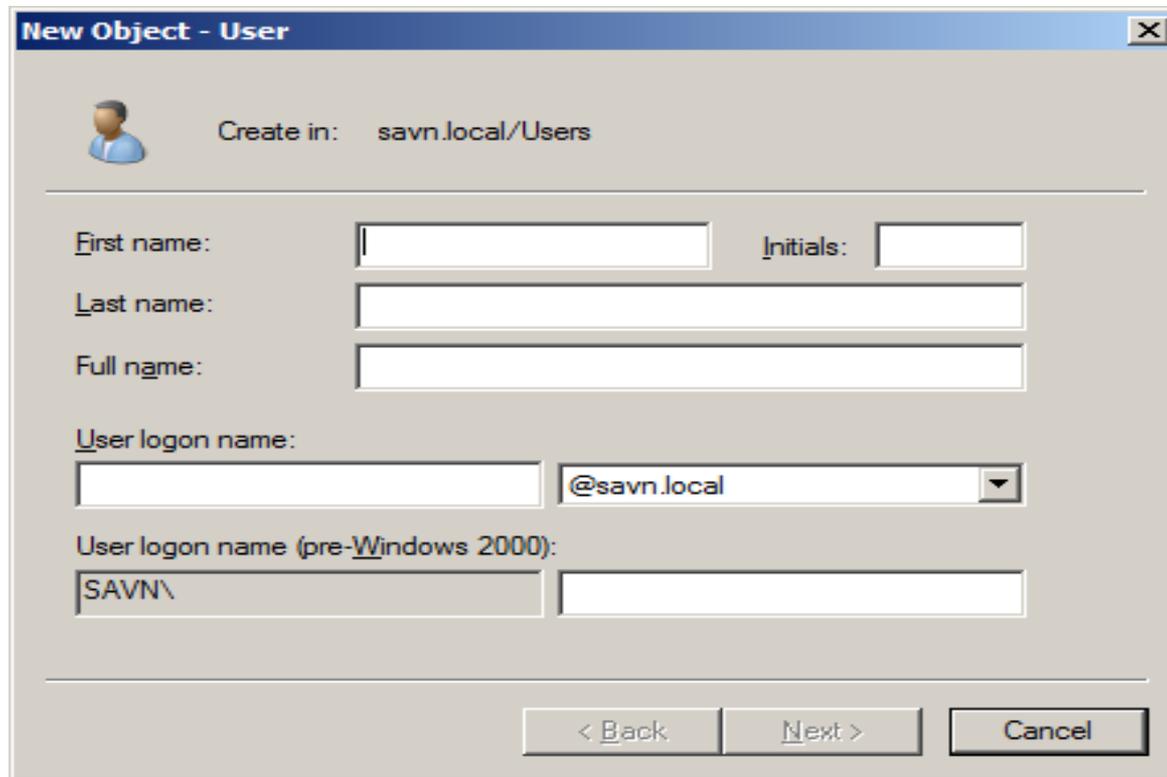
The screenshot shows the Active Directory Users and Computers console. The left pane displays a tree view of the directory structure, with the 'Users' folder under 'savn.local' selected. A red arrow points from a callout box labeled 'Click User' to the 'Users' folder. The main pane displays a list of users and groups with columns for Name, Type, and Description.

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 - Universal	Members of this group are...
Group Policy Creator Owners	Security Group - Global	Members in this group can...
Guest	User	Built-in account for guest ...
krbtgt	User	Key Distribution Center Se...
RAS and IAS Servers	Security Group - Domain Local	Servers in this group can ...
Read-only Domain Controllers	Security Group - Global	Members of this group are...
Schema Admins	Security Group - Universal	Designated administrators...



Generating a Domain User Account on Server01

- Once you have the Users screen open, either right click on Users in the left pane or click on the Action menu item at the top and from the drop-down list select New, then select User. You should see the dialog box as shown below.



New Object - User

Create in: savn.local/Users

First name: Initials:

Last name:

Full name:

User logon name: @savn.local

User logon name (pre-Windows 2000): SAVN\

< Back Next > Cancel



Generating a Domain User Account on Server01

- Enter your name into the new user dialog box and give the user the login name of domainUser01.

New Object - User

Create in: savn.local/Users

First name: Initials:

Last name:

Full name:

User login name: @savn.local

User login name (pre-Windows 2000):

< Back Next > Cancel

Set username to: domainUser01



Generating a Domain User Account on Server01

- The password setting dialog box appears next. Give the user a password and set it to never expire.

New Object - User

Create in: savn.local/Users

Password: [.....]

Confirm password: [.....]

User must change password at next logon

User cannot change password

Password never expires

Account is disabled

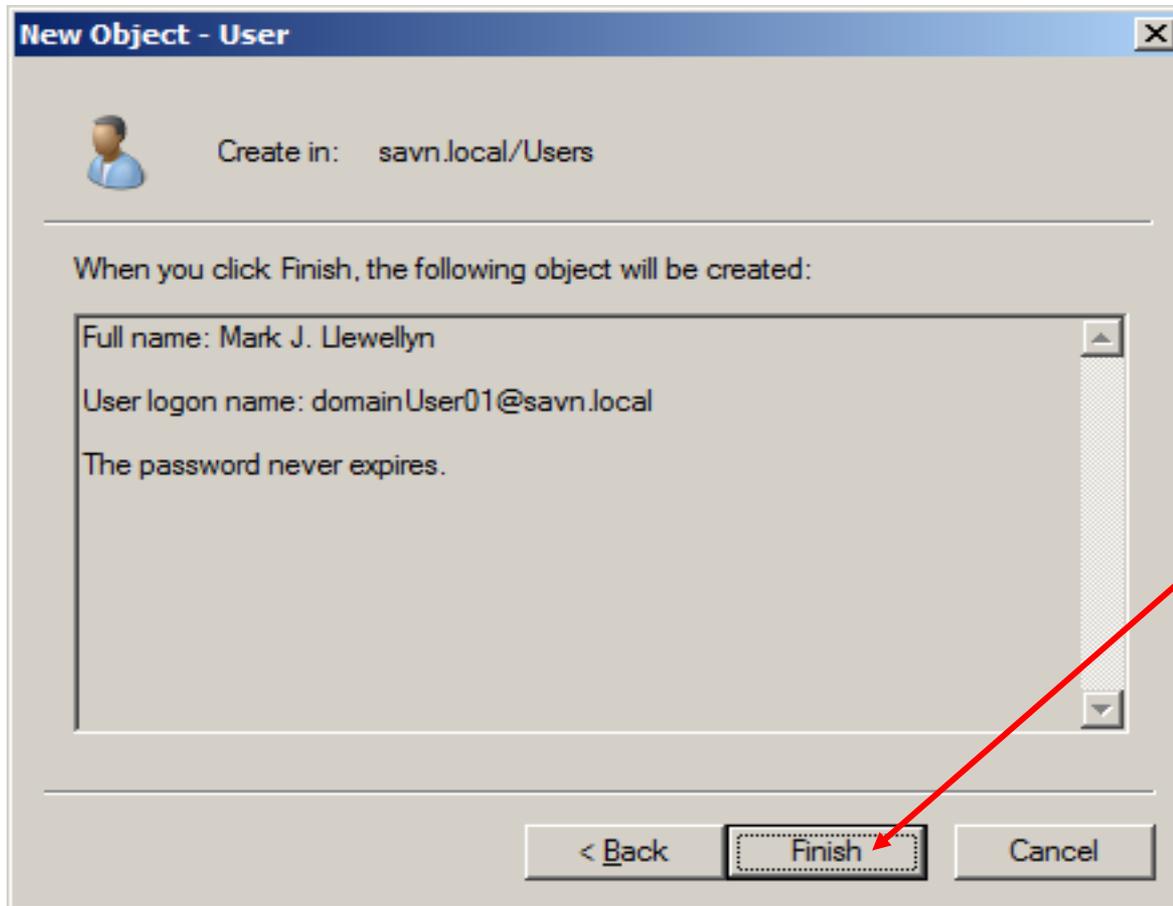
< Back Next > Cancel

Set password to never expire



Generating a Domain User Account on Server01

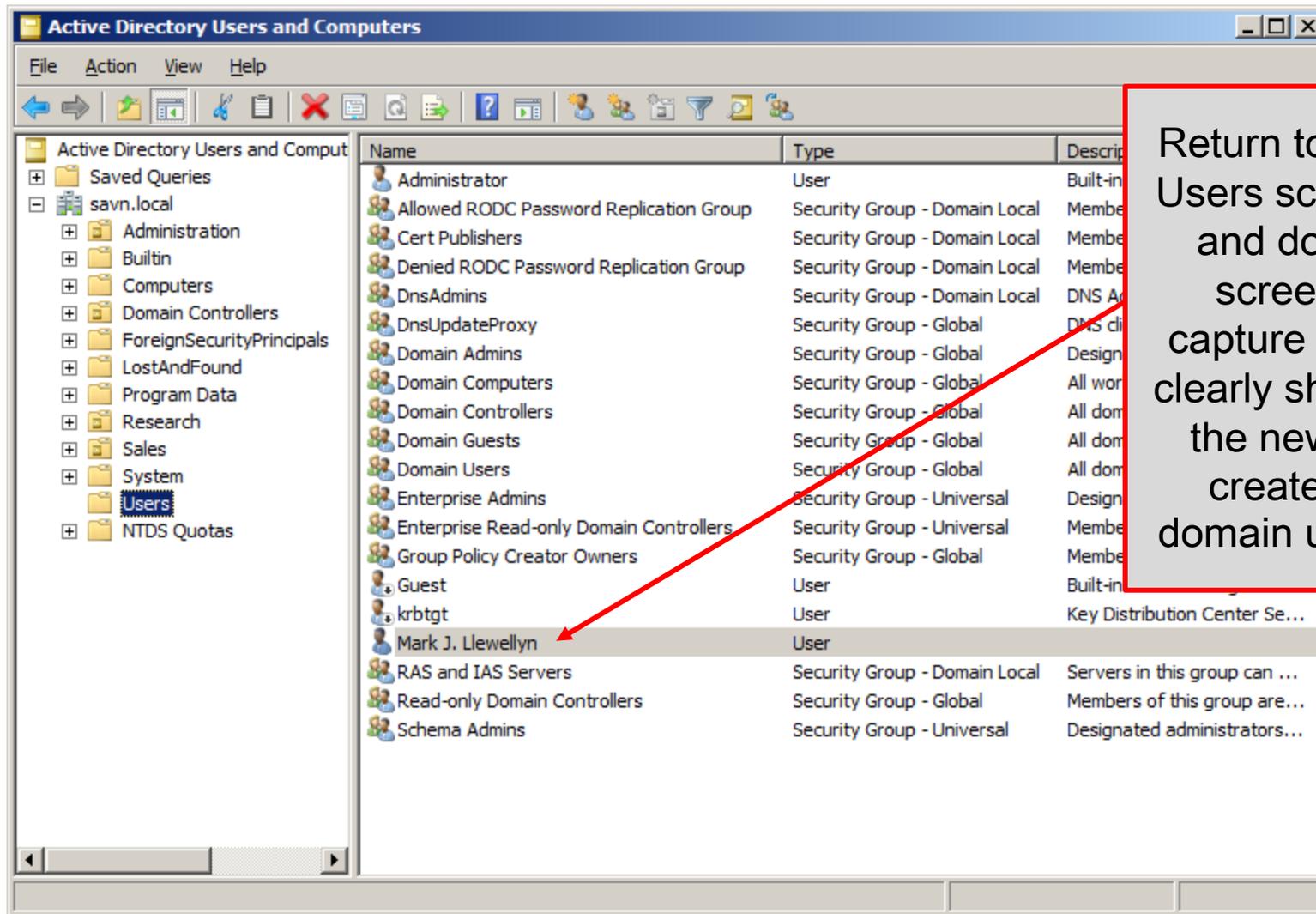
- The final dialog box appears next with a summary of information for the new user



Click Finish

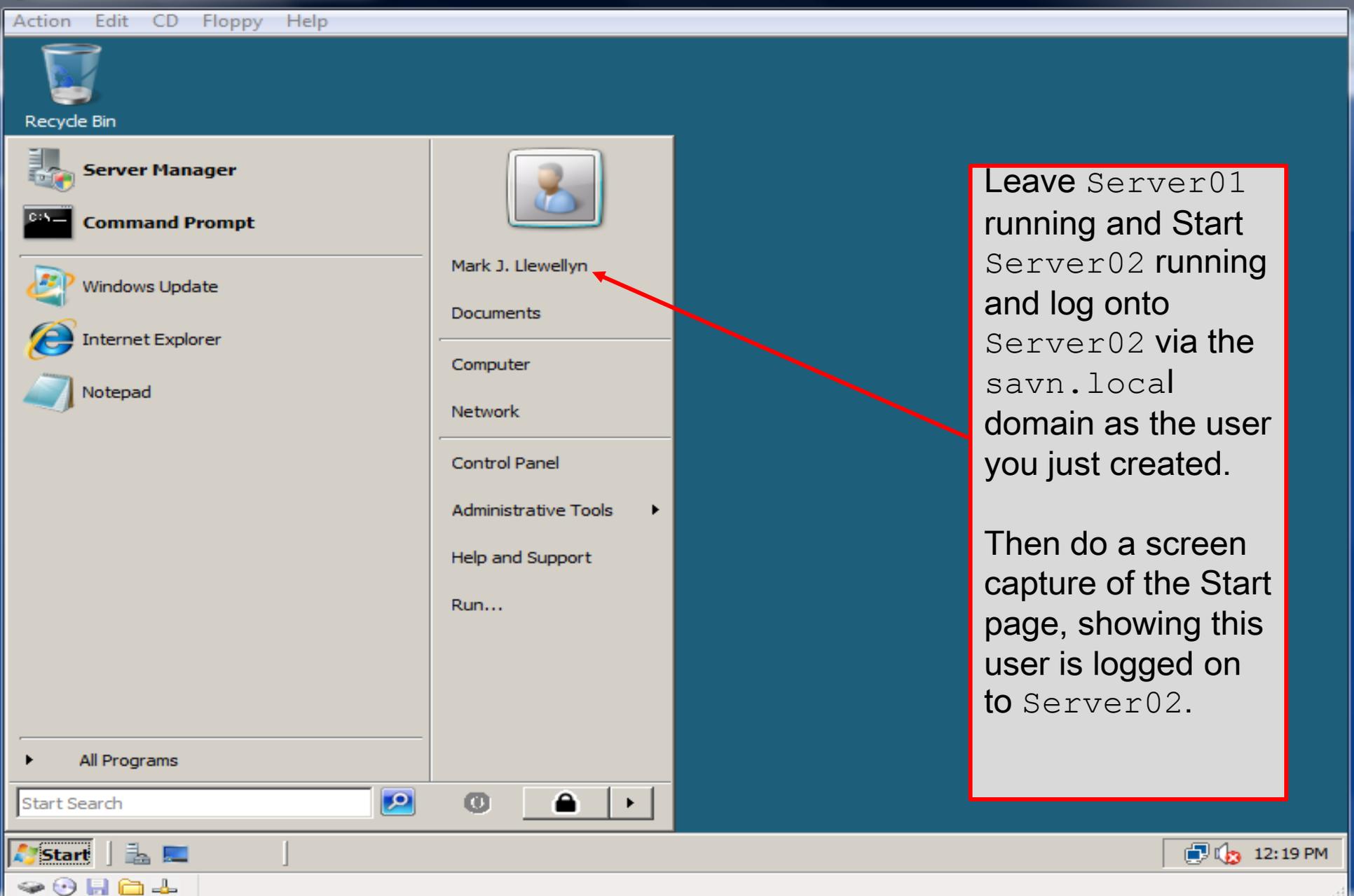


Generating a Domain User Account on Server01



Return to the Users screen and do a screen capture that clearly shows the newly created domain user.





Leave Server01 running and Start Server02 running and log onto Server02 via the savn.local domain as the user you just created.

Then do a screen capture of the Start page, showing this user is logged on to Server02.



Shut down Server01 and leave Server02 running. If you are currently logged onto Server02 as domainUser01, logout. Then attempt to log in to Server02 as domainUser01 and you should see this screen

 There are currently no logon servers available to service the logon request.

OK

