CNT 4603: System Administration
Spring 2022

Project Five – Managing The `savn.local` Domain

Instructor : Dr. Mark Llewellyn
Email: mark.llewellyn@ucf.edu
~~HEC 236, 407-823-2790~~

Office Hours via Zoom: T & Th: 12:30-1:30pm, W: 3:30-4:20pm
Office Hours Zoom Details: Meeting ID: 924 3809 7405
Passcode: 983064
Q&A Sessions via Zoom: Meeting ID: 981 8349 4221
Passcode: 509807

Department of Computer Science
University of Central Florida

Project Five

- **Title:** "Project Five: Managing The `savn.local` Domain"
- **Points:** 100 points
- **Due Date: Sunday April 17, 2022** by 11:59 pm WebCourses time.
- **Objectives:** The completion of Project Four left you with a completely configured `savn.local` network. With this project we now begin some basic system administration activities on the network. This project will focus on `MJL-SP22-S22-1` and `MJL-SP22-S22-2`.
- **Deliverables:** Seven screen shots as shown on pages 8, 22, 29, 33, 36, 38, and 41.

Project Five – 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.

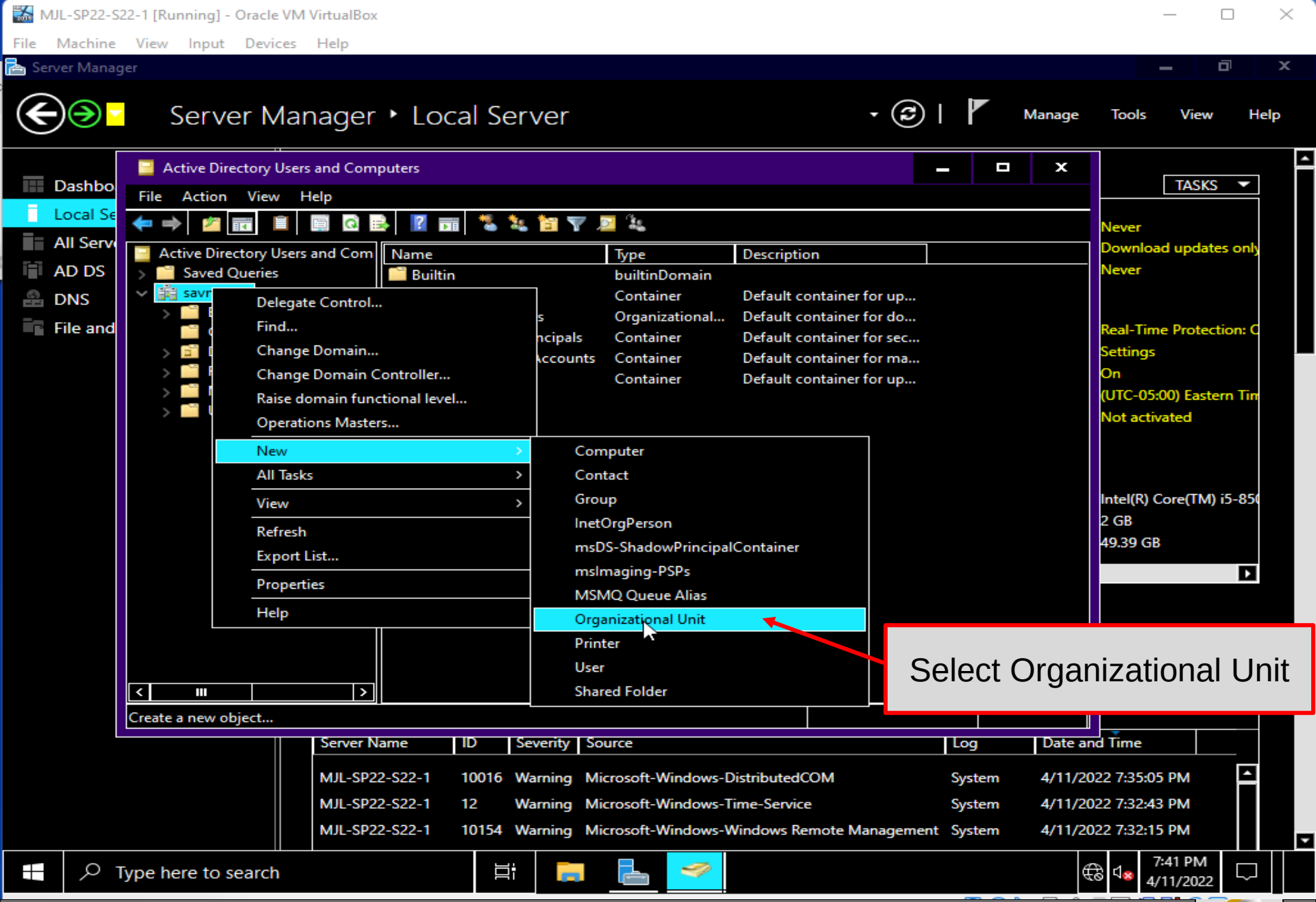
Project Five – Background

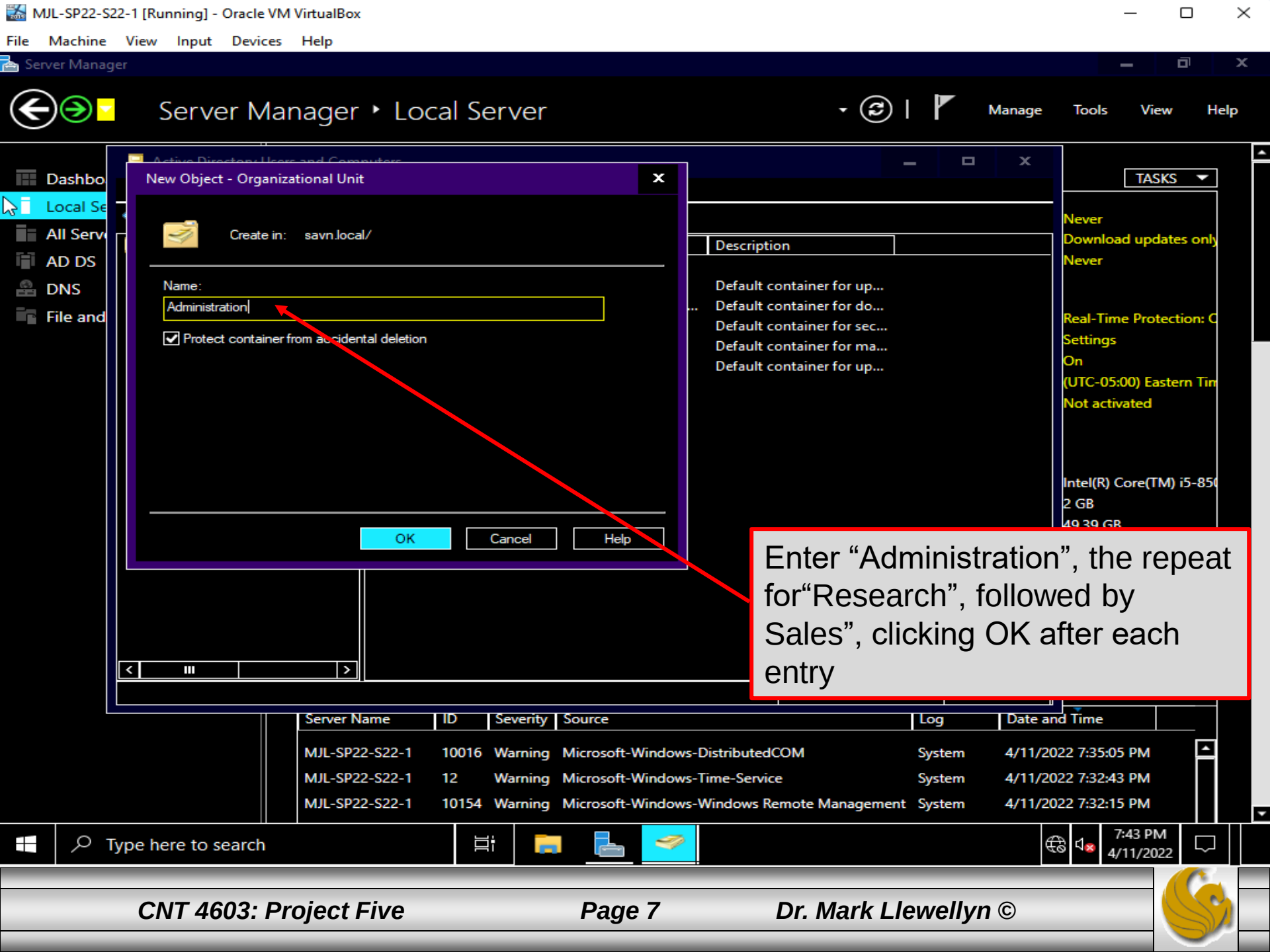
- The first step in Project Five will be to create some basic OUs for our `savn.local` domain.
- We'll consider our organization to be made up of three basic units: `administration`, `research`, and `sales`.
- The next couple of pages step you through setting up these three OUs.

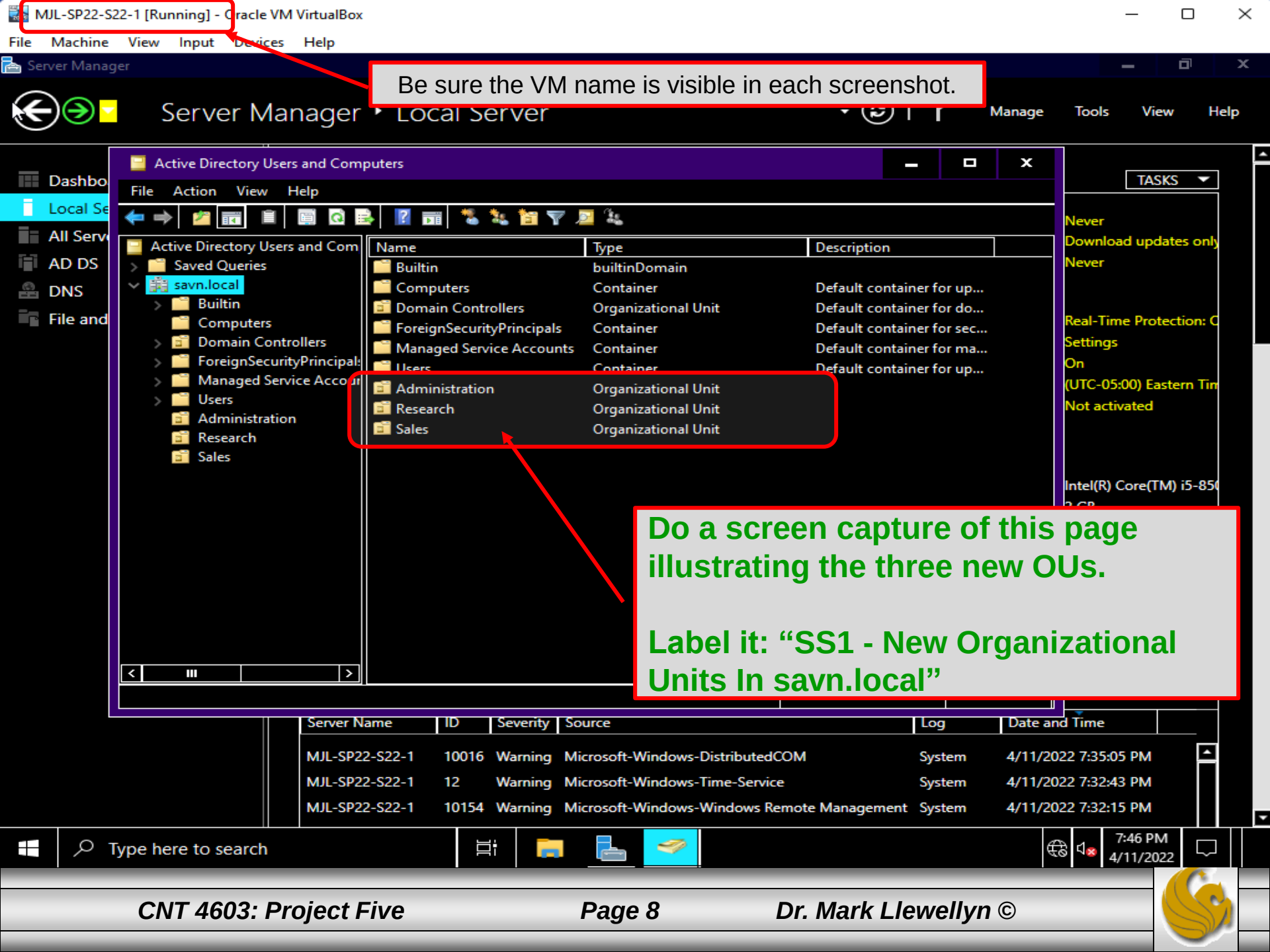
The pages that follow explain the details of the project, stepping you through the actions. In the various callouts, the items that appear in **bold green** text require you to do screen captures and/or answer questions. These screen captures and answers will constitute your submission for this project**. Be sure that the name of the VM is clearly visible in each screen shot.**

Project Five – Creating OUs

- Start `MJL-SP22-S22-1` (the domain controller for `savn.local`) domain.
- Click on Tools in the top right side of the Server Manager window.
- Select Active Director Users and Computers.
- Right-click the `savn.local` link in the left pane.
- Point to New and select Organizational Unit. (see page 6)
- When the new window appears, enter the name: `Administration`. (see page 7)
- 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.


MJL-SP22-S22-1 [Running] - Oracle VM VirtualBox
File Machine View Input Devices Help
Server Manager
Server Manager • Local Server
Manage Tools View Help
Active Directory Users and Computers
File Action View Help
Active Directory Users and Com
Saved Queries
Name Type Description
Builtin builtinDomain
Container Default container for up...
Organizational... Default container for do...
Container Default container for sec...
Container Default container for ma...
Container Default container for up...
Delegate Control...
Find...
Change Domain...
Change Domain Controller...
Raise domain functional level...
Operations Masters...
New
All Tasks
View
Refresh
Export List...
Properties
Help
Computer
Contact
Group
InetOrgPerson
msDS-ShadowPrincipalContainer
msImaging-PSPs
MSMQ Queue Alias
Organizational Unit
Printer
User
Shared Folder
Create a new object...
Select Organizational Unit
TASKS
Never
Download updates only
Never
Real-Time Protection:
Settings
On
(UTC-05:00) Eastern Tim
Not activated
Intel(R) Core(TM) i5-85
2 GB
49.39 GB
Server Name ID Severity Source Log Date and Time
MJL-SP22-S22-1 10016 Warning Microsoft-Windows-DistributedCOM System 4/11/2022 7:35:05 PM
MJL-SP22-S22-1 12 Warning Microsoft-Windows-Time-Service System 4/11/2022 7:32:43 PM
MJL-SP22-S22-1 10154 Warning Microsoft-Windows-Windows Remote Management System 4/11/2022 7:32:15 PM
Type here to search
7:41 PM
4/11/2022


MJL-SP22-S22-1 [Running] - Oracle VM VirtualBox
File Machine View Input Devices Help
Server Manager
Server Manager • Local Server
Manage Tools View Help
New Object - Organizational Unit
Create in: savn.local/
Name:
Administration
Protect container from accidental deletion
OK
Cancel
Help
Description
Default container for up...
Default container for do...
Default container for sec...
Default container for ma...
Default container for up...
TASKS
Never
Download updates only
Never
Real-Time Protection: C
Settings
On
(UTC-05:00) Eastern Tim
Not activated
Intel(R) Core(TM) i5-85
2 GB
49.39 GB
Server Name ID Severity Source Log Date and Time
MJL-SP22-S22-1 10016 Warning Microsoft-Windows-DistributedCOM System 4/11/2022 7:35:05 PM
MJL-SP22-S22-1 12 Warning Microsoft-Windows-Time-Service System 4/11/2022 7:32:43 PM
MJL-SP22-S22-1 10154 Warning Microsoft-Windows-Windows Remote Management System 4/11/2022 7:32:15 PM
Type here to search
7:43 PM
4/11/2022
Enter “Administration”, the repeat for“Research”, followed by Sales”, clicking OK after each entry


MJL-SP22-S22-1 [Running] - Oracle VM VirtualBox
File Machine View Input Devices Help
Be sure the VM name is visible in each screenshot.
Server Manager
Server Manager • Local Server
Manage Tools View Help
Active Directory Users and Computers
File Action View Help
Active Directory Users and Com
Saved Queries
savn.local
Builtin
Computers
Domain Controllers
ForeignSecurityPrincipals
Managed Service Accounts
Users
Administration
Research
Sales
Name Type Description
Builtin builtinDomain
Computers Container Default container for up...
Domain Controllers Organizational Unit Default container for do...
ForeignSecurityPrincipals Container Default container for sec...
Managed Service Accounts Container Default container for ma...
Users Container Default container for up...
Administration Organizational Unit
Research Organizational Unit
Sales Organizational Unit
Do a screen capture of this page illustrating the three new OUs.
Label it: “SS1 - New Organizational Units In savn.local”
TASKS
Never
Download updates only
Never
Real-Time Protection:
Settings
On
(UTC-05:00) Eastern Tim
Not activated
Intel(R) Core(TM) i5-85
Server Name ID Severity Source Log Date and Time
MJL-SP22-S22-1 10016 Warning Microsoft-Windows-DistributedCOM System 4/11/2022 7:35:05 PM
MJL-SP22-S22-1 12 Warning Microsoft-Windows-Time-Service System 4/11/2022 7:32:43 PM
MJL-SP22-S22-1 10154 Warning Microsoft-Windows-Windows Remote Management System 4/11/2022 7:32:15 PM
Type here to search
7:46 PM
4/11/2022

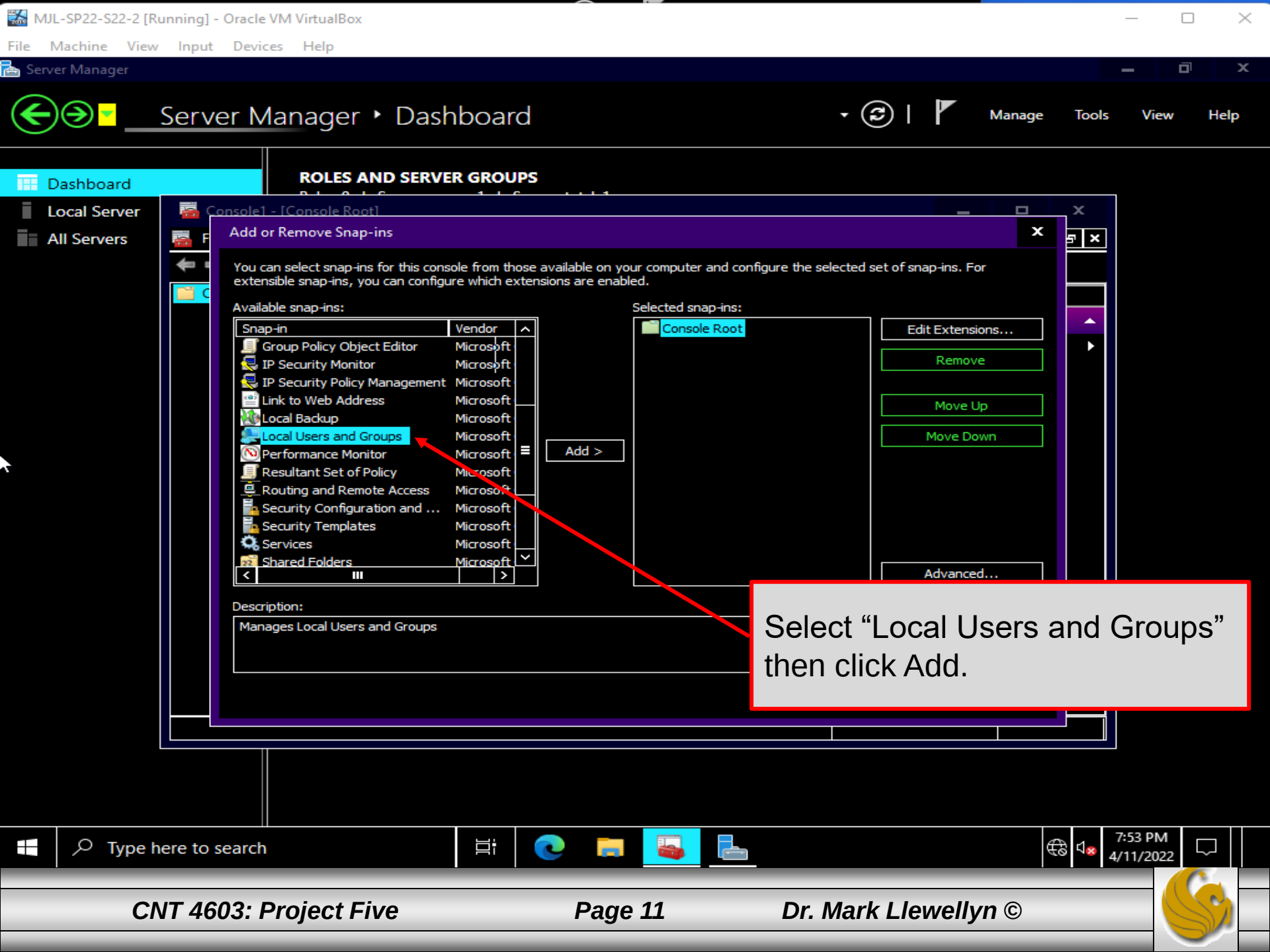
Project Five – User Account Management

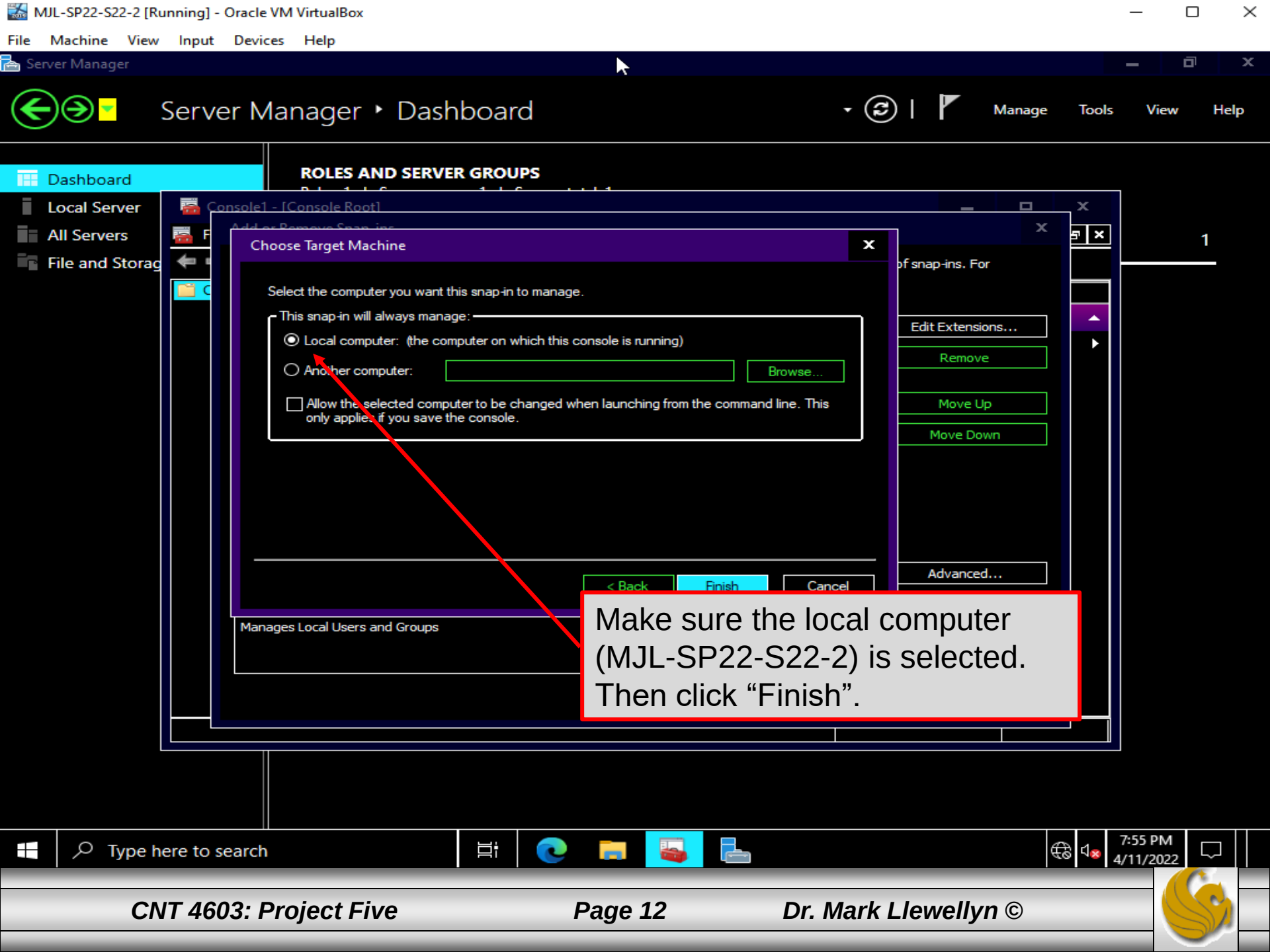
- We'll use the OUs you just created a bit later (and also in subsequent projects), but the next thing that I want to give you some experience handling is the creation and manipulation of user accounts on the servers.

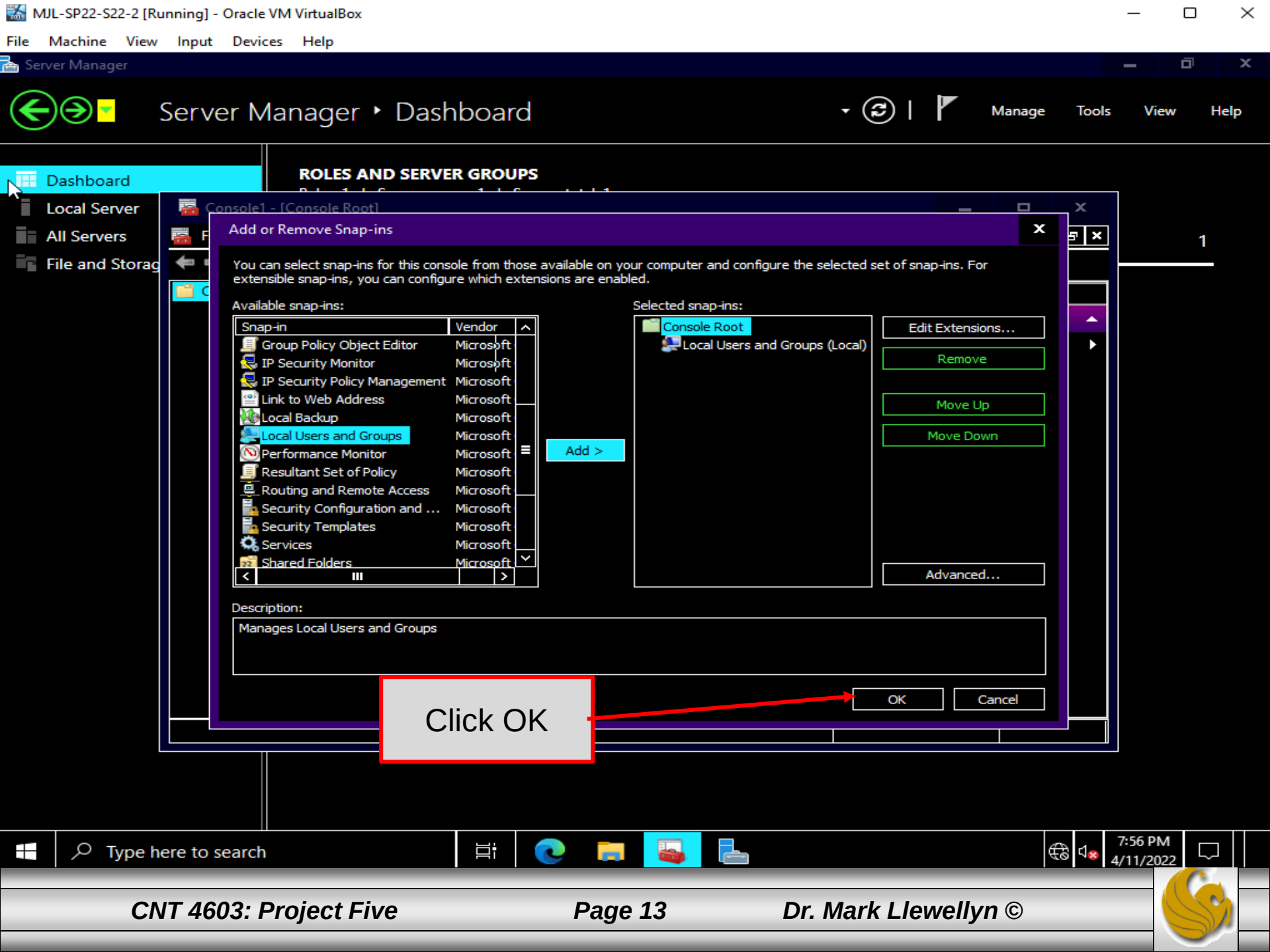
- While `MJL-SP22-S22-2` is a member of the `savn.local` domain it is also a stand-alone server (in that it is not a domain controller). Hence, on `MJL-SP22-S22-2` we can create a local, non-domain-oriented account. We'll do this first, before we create any domain-oriented accounts from inside AD on `MJL-SP22-S22-1`.

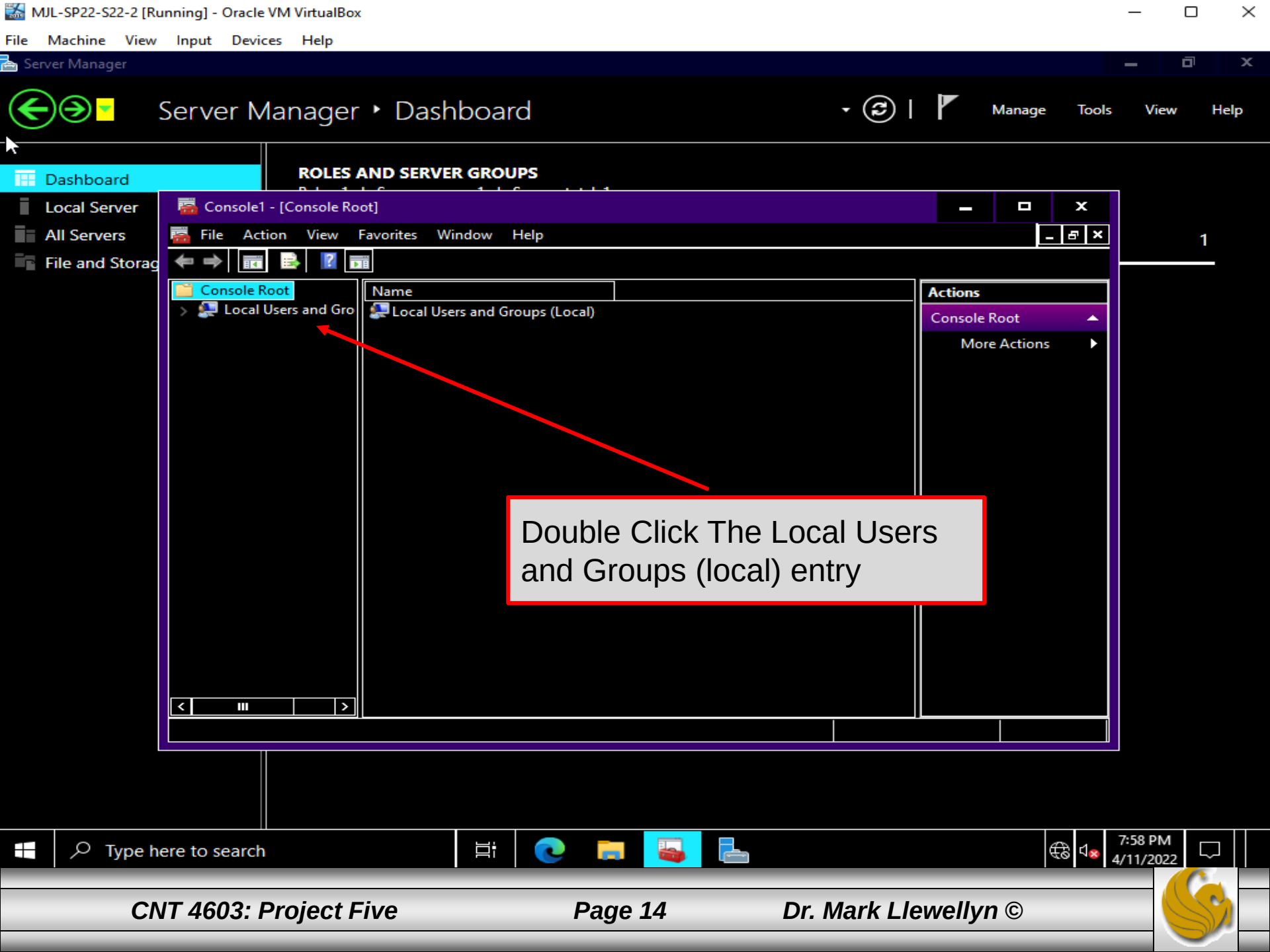
Generating a Local User Account on MJL-SP22-S22-2

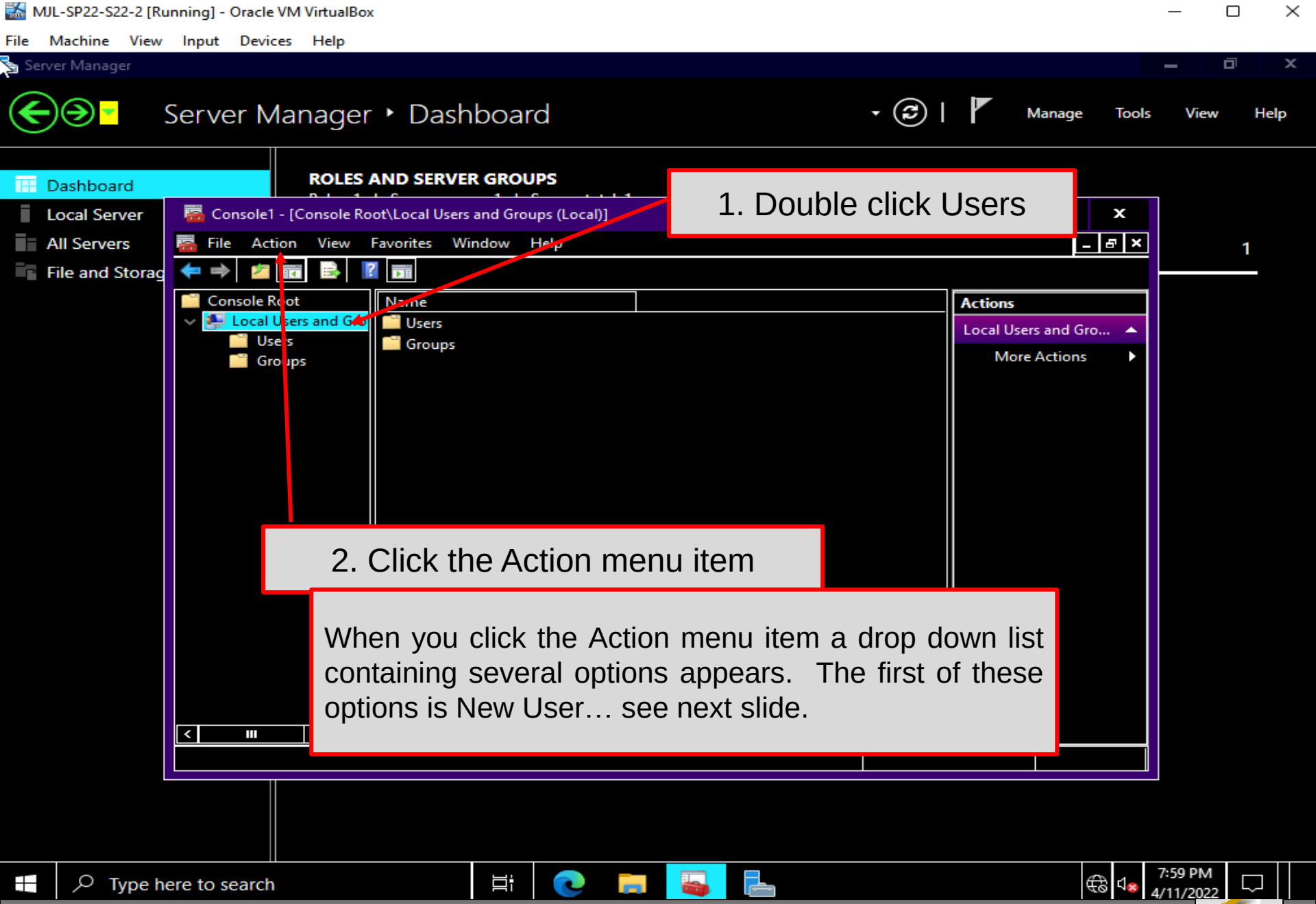
- On a server where AD is not installed, new user accounts are created by first installing the Local Users and Groups MMC (Microsoft Management Console) snap-in for standalone servers.
- The steps for doing this are:
  - Start MJL-SP22-S22-2 running.
  - Right click the Windows icon in the lower left of the window. Select 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.

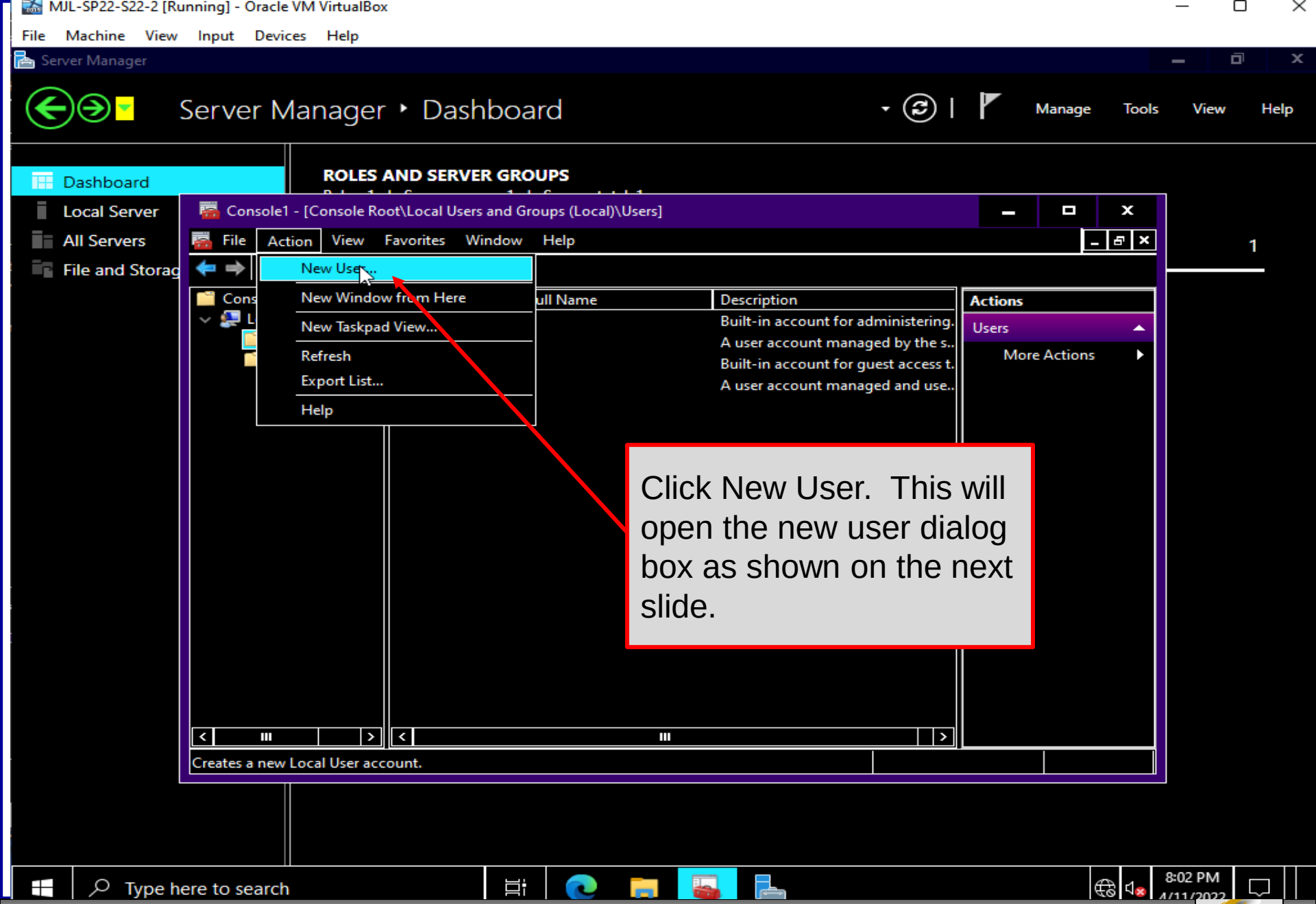

MJL-SP22-S22-2 [Running] - Oracle VM VirtualBox
File Machine View Input Devices Help
Server Manager
Server Manager • Dashboard
Manage Tools View Help
Dashboard
Local Server
All Servers
ROLES AND SERVER GROUPS
Console1 - [Console Root]
Add or Remove Snap-ins
You can select snap-ins for this console from 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
Group Policy Object Editor Microsoft
IP Security Monitor Microsoft
IP Security Policy Management Microsoft
Link to Web Address Microsoft
Local Backup Microsoft
Local Users and Groups Microsoft
Performance Monitor Microsoft
Resultant Set of Policy Microsoft
Routing and Remote Access Microsoft
Security Configuration and ... Microsoft
Security Templates Microsoft
Services Microsoft
Shared Folders Microsoft
Add >
Selected snap-ins:
Console Root
Edit Extensions...
Remove
Move Up
Move Down
Advanced...
Description:
Manages Local Users and Groups
Select “Local Users and Groups” then click Add.
Type here to search
7:53 PM
4/11/2022

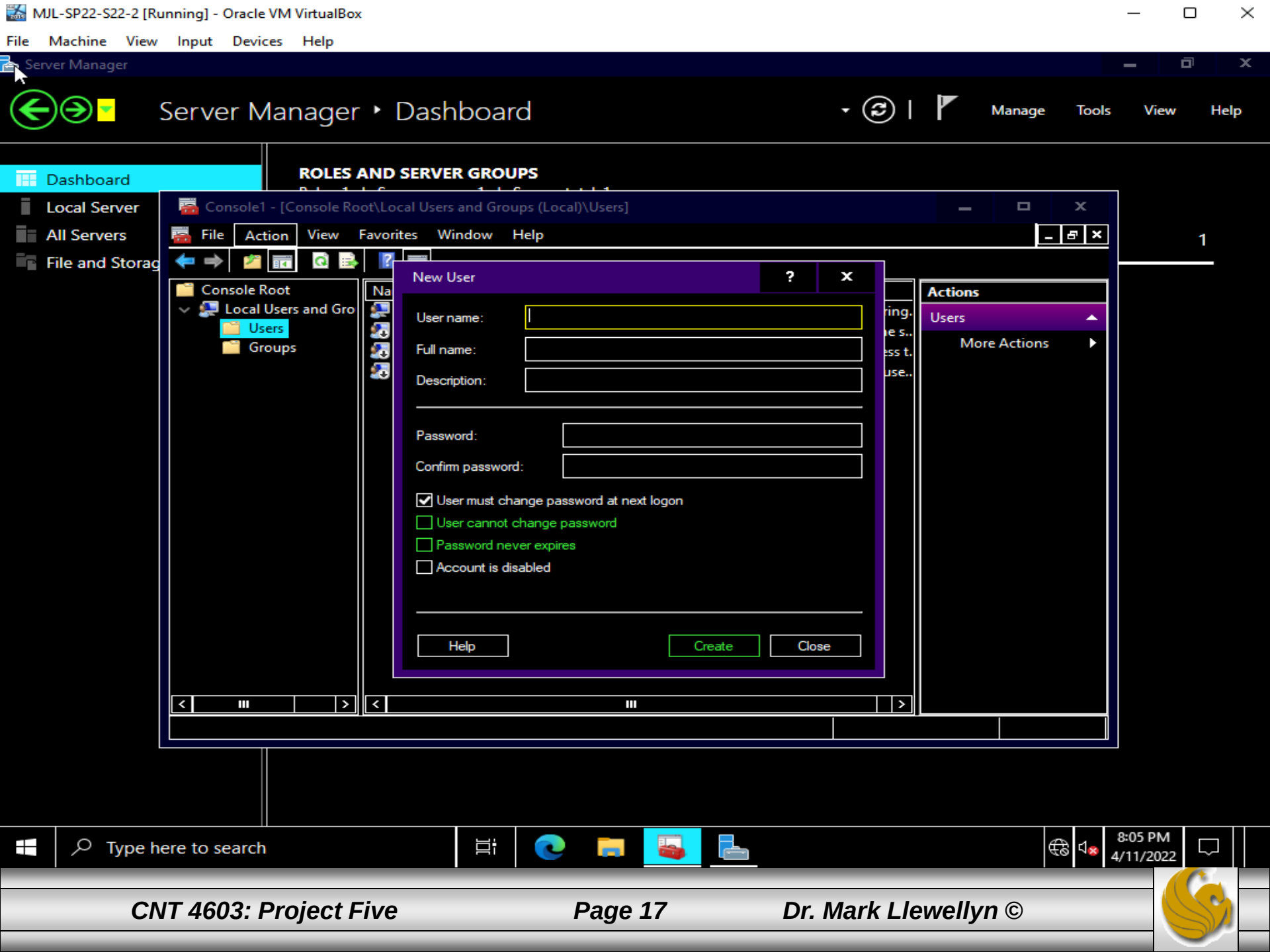

MJL-SP22-S22-2 [Running] - Oracle VM VirtualBox
File Machine View Input Devices Help
Server Manager
Server Manager • Dashboard
Manage Tools View Help
Dashboard
Local Server
All Servers
File and Storag
ROLES AND SERVER GROUPS
Console1 - [Console Root]
Choose Target Machine
Select the computer you want this snap-in to manage.
This snap-in will always manage:
Local computer: (the computer on which this console is running)
Another computer:
Browse...
Allow the selected computer to be changed when launching from the command line. This only applies if you save the console.
< Back
Finish
Cancel
Edit Extensions...
Remove
Move Up
Move Down
Advanced...
Manages Local Users and Groups
Make sure the local computer (MJL-SP22-S22-2) is selected. Then click “Finish”.
Type here to search
7:55 PM
4/11/2022

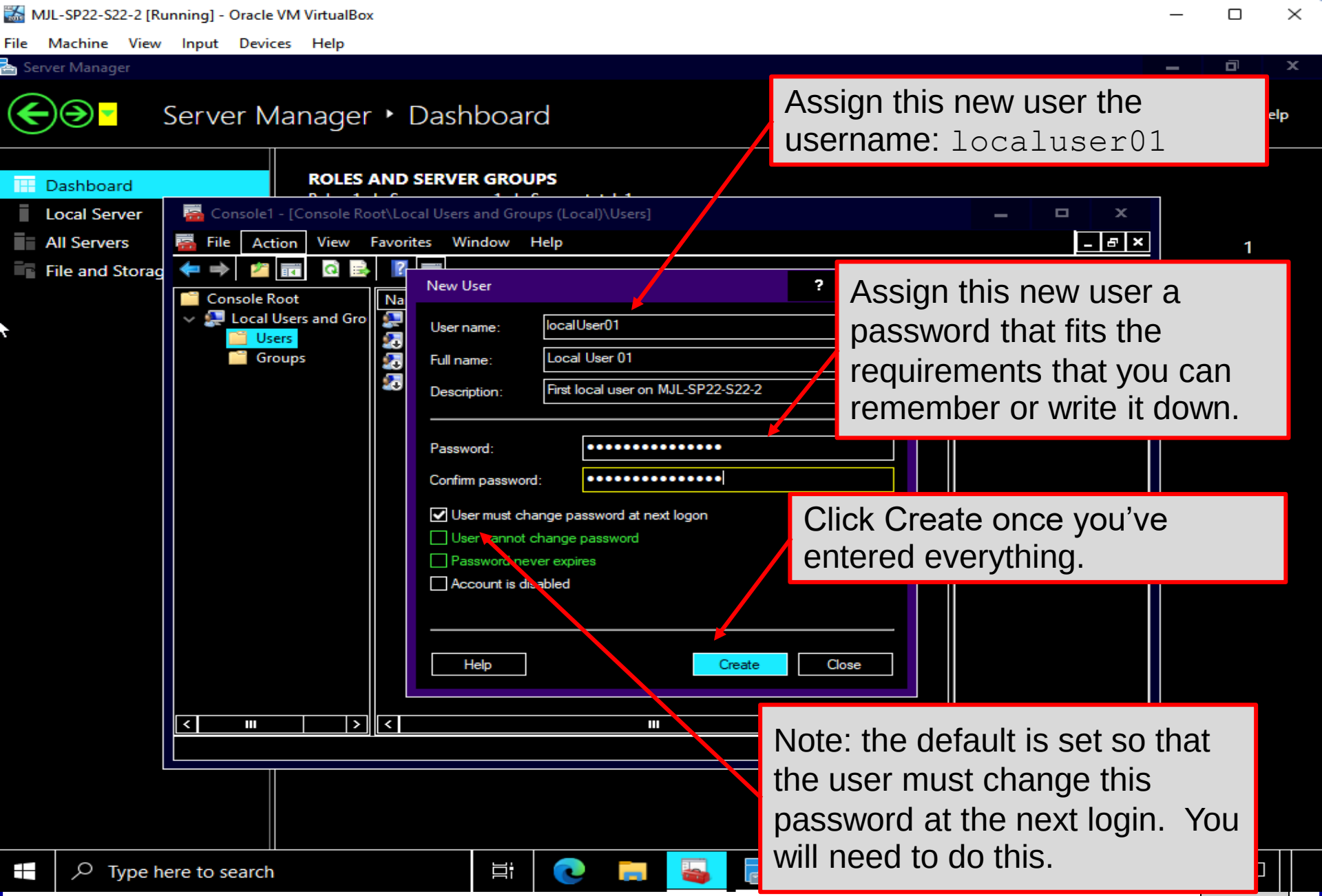

MJL-SP22-S22-2 [Running] - Oracle VM VirtualBox
File Machine View Input Devices Help
Server Manager
Server Manager • Dashboard
Manage Tools View Help
Dashboard
Local Server
All Servers
File and Storag
ROLES AND SERVER GROUPS
Console1 - [Console Root]
Add or Remove Snap-ins
You can select snap-ins for 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
Group Policy Object Editor Microsoft
IP Security Monitor Microsoft
IP Security Policy Management Microsoft
Link to Web Address Microsoft
Local Backup Microsoft
Local Users and Groups Microsoft
Performance Monitor Microsoft
Resultant Set of Policy Microsoft
Routing and Remote Access Microsoft
Security Configuration and ... Microsoft
Security Templates Microsoft
Services Microsoft
Shared Folders Microsoft
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
OK
Cancel
Click OK
Type here to search
7:56 PM
4/11/2022


MJL-SP22-S22-2 [Running] - Oracle VM VirtualBox
File Machine View Input Devices Help
Server Manager
Server Manager ▸ Dashboard
Manage Tools View Help
Dashboard
Local Server
All Servers
File and Storag
ROLES AND SERVER GROUPS
Console1 - [Console Root]
File Action View Favorites Window Help
Console Root
Local Users and Gro
Name
Local Users and Groups (Local)
Actions
Console Root
More Actions
Double Click The Local Users and Groups (local) entry
Type here to search
7:58 PM
4/11/2022


MJL-SP22-S22-2 [Running] - Oracle VM VirtualBox
File Machine View Input Devices Help
Server Manager
Server Manager • Dashboard
Manage Tools View Help
Dashboard
Local Server
All Servers
File and Storag
ROLES AND SERVER GROUPS
Console1 - [Console Root\Local Users and Groups (Local)]
File Action View Favorites Window Help
Console Root
Local Users and Gr
Users
Groups
Name
Users
Groups
Actions
Local Users and Gro...
More Actions
1. Double click Users
2. Click the Action menu item
When you click the Action menu item a drop down list containing several options appears. The first of these options is New User… see next slide.
Type here to search
7:59 PM
4/11/2022

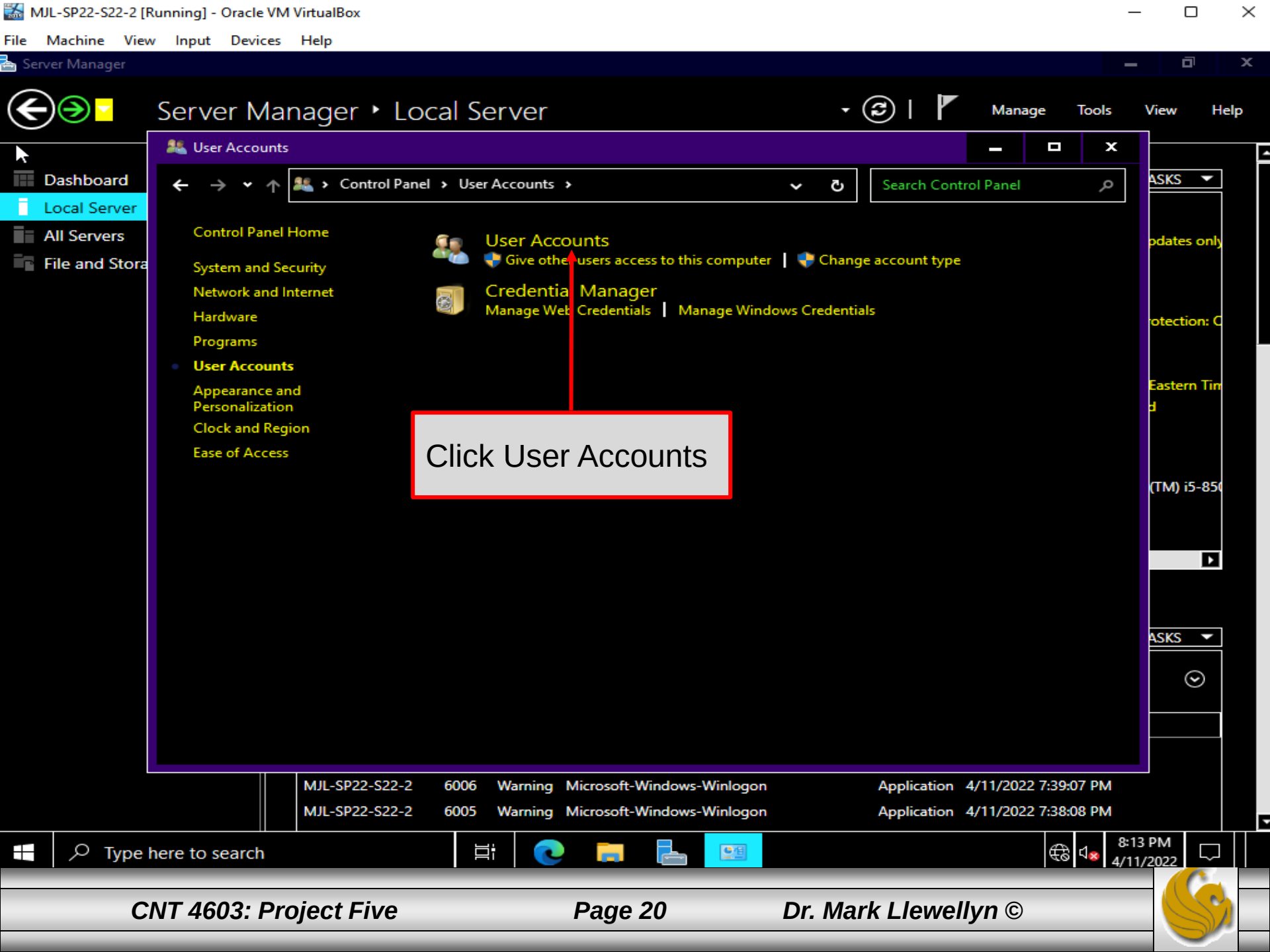

MJL-SP22-S22-2 [Running] - Oracle VM VirtualBox
File Machine View Input Devices Help
Server Manager
Server Manager ▸ Dashboard
Manage Tools View Help
Dashboard
Local Server
All Servers
File and Storag
ROLES AND SERVER GROUPS
Console1 - [Console Root\Local Users and Groups (Local)\Users]
File Action View Favorites Window Help
New User...
New Window from Here
New Taskpad View...
Refresh
Export List...
Help
Description
Built-in account for administering.
A user account managed by the s..
Built-in account for guest access t.
A user account managed and use..
Actions
Users
More Actions
Creates a new Local User account.
Click New User. This will open the new user dialog box as shown on the next slide.
Type here to search
8:02 PM

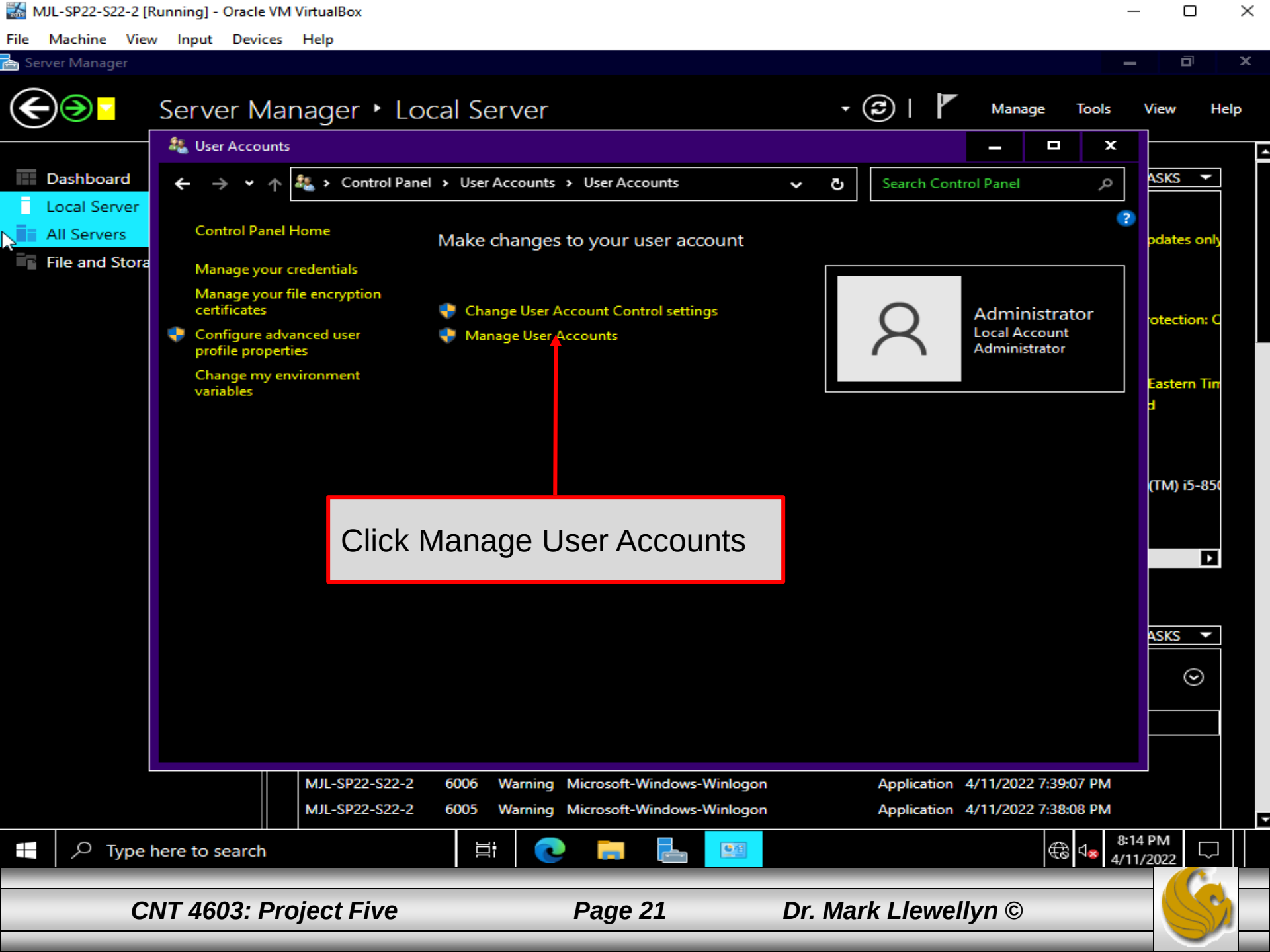

MJL-SP22-S22-2 [Running] - Oracle VM VirtualBox
File Machine View Input Devices Help
Server Manager
Server Manager ▸ Dashboard
Manage Tools View Help
Dashboard
Local Server
All Servers
File and Storag
ROLES AND SERVER GROUPS
Console1 - [Console Root\Local Users and Groups (Local)\Users]
File Action View Favorites Window Help
Console Root
Local Users and Gro
Users
Groups
New User
User name:
Full name:
Description:
Password:
Confirm password:
User must change password at next logon
User cannot change password
Password never expires
Account is disabled
Help
Create
Close
Actions
Users
More Actions
Type here to search
8:05 PM
4/11/2022

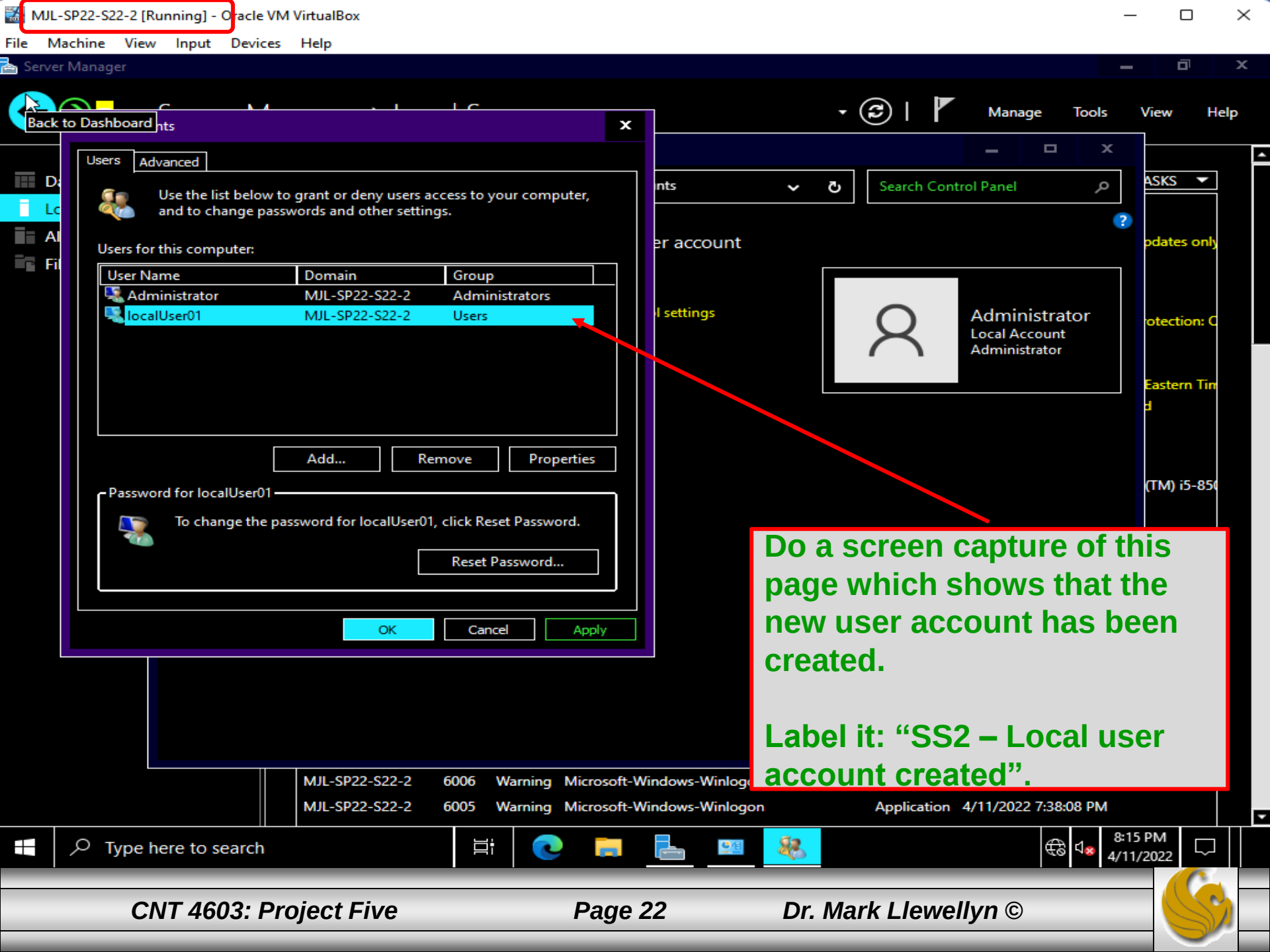

MJL-SP22-S22-2 [Running] - Oracle VM VirtualBox
File Machine View Input Devices Help
Server Manager
Server Manager • Dashboard
Dashboard
Local Server
All Servers
File and Storag
ROLES AND SERVER GROUPS
Console1 - [Console Root\Local Users and Groups (Local)\Users]
File Action View Favorites Window Help
Console Root
Local Users and Gro
Users
Groups
New User
User name: localUser01
Full name: Local User 01
Description: First local user on MJL-SP22-S22-2
Password:
Confirm password:
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.
Click Create once you've entered everything.
Note: the default is set so that the user must change this password at the next login. You will need to do this.
Type here to search

Generating a Local User Account on MJL-SP22-S22-2

- When you complete this task, save the changes when prompted and you will have successfully created a local user account on MJL-SP22-S22-2.
- Note that localuser01 is not a domain user and is known only locally to MJL-SP22-S22-2.
- From the Control Panel in MJL-SP22-S22-2, select the User Accounts option as shown on the next page.


MJL-SP22-S22-2 [Running] - Oracle VM VirtualBox
File Machine View Input Devices Help
Server Manager
Server Manager • Local Server
Manage Tools View Help
Dashboard
Local Server
All Servers
File and Stora
User Accounts
Control Panel › User Accounts ›
Search Control Panel
Control Panel Home
System and Security
Network and Internet
Hardware
Programs
User Accounts
Appearance and Personalization
Clock and Region
Ease of Access
User Accounts
Give other users access to this computer | Change account type
Credential Manager
Manage Web Credentials | Manage Windows Credentials
Click User Accounts
MJL-SP22-S22-2 6006 Warning Microsoft-Windows-Winlogon Application 4/11/2022 7:39:07 PM
MJL-SP22-S22-2 6005 Warning Microsoft-Windows-Winlogon Application 4/11/2022 7:38:08 PM
Type here to search
8:13 PM
4/11/2022


MJL-SP22-S22-2 [Running] - Oracle VM VirtualBox
File Machine View Input Devices Help
Server Manager
Server Manager • Local Server
Manage Tools View Help
Dashboard
Local Server
All Servers
File and Stora
User Accounts
Control Panel › User Accounts › User Accounts
Search Control Panel
Control Panel Home
Manage your credentials
Manage your file encryption certificates
Configure advanced user profile properties
Change my environment variables
Make changes to your user account
Change User Account Control settings
Manage User Accounts
Administrator
Local Account
Administrator
Click Manage User Accounts
MJL-SP22-S22-2 6006 Warning Microsoft-Windows-Winlogon Application 4/11/2022 7:39:07 PM
MJL-SP22-S22-2 6005 Warning Microsoft-Windows-Winlogon Application 4/11/2022 7:38:08 PM
Type here to search
8:14 PM
4/11/2022


MJL-SP22-S22-2 [Running] - Oracle VM VirtualBox
File Machine View Input Devices Help
Server Manager
Back to Dashboard
Manage Tools View Help
Users
Advanced
Use the list below to grant or deny users access to your computer, and to change passwords and other settings.
Users for this computer:
User Name Domain Group
Administrator MJL-SP22-S22-2 Administrators
localUser01 MJL-SP22-S22-2 Users
Add... Remove Properties
Password for localUser01
To change the password for localUser01, click Reset Password.
Reset Password...
OK Cancel Apply
Search Control Panel
Administrator
Local Account
Administrator
Do a screen capture of this page which shows that the new user account has been created.
Label it: "SS2 – Local user account created".
MJL-SP22-S22-2 6006 Warning Microsoft-Windows-Winlogon
MJL-SP22-S22-2 6005 Warning Microsoft-Windows-Winlogon Application 4/11/2022 7:38:08 PM
Type here to search
8:15 PM
4/11/2022

Generating a Domain User Account on MJL-SP22-S22-1

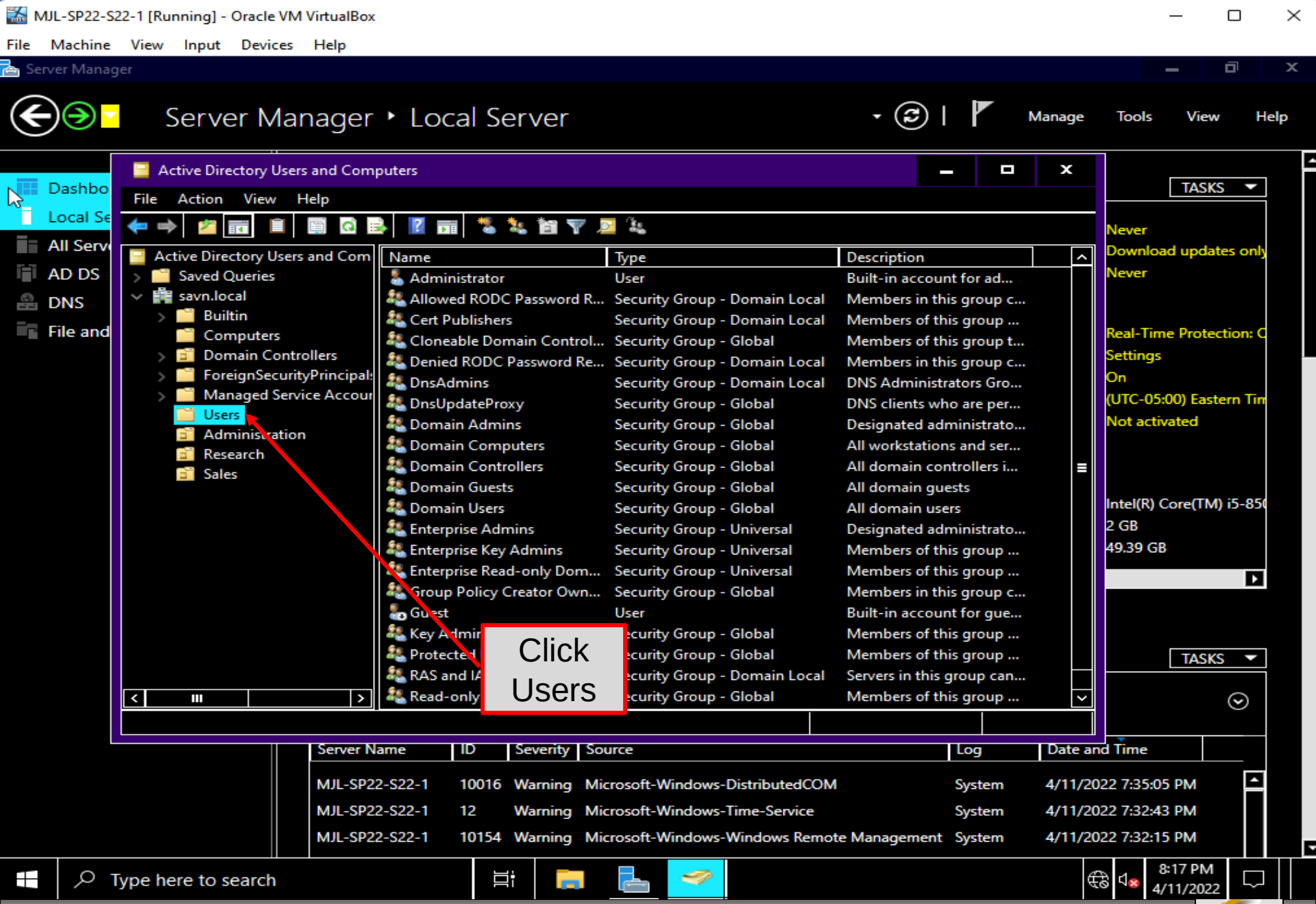
- Management and access to resources through Active Directory begins through user accounts. On a server where AD is installed, new user accounts are created via the Active Directory Users and Computers tool, which became accessible on MJL-SP22-S22-1 when it became the domain controller for the savn.local domain. It is accessible from Administrative Tools.

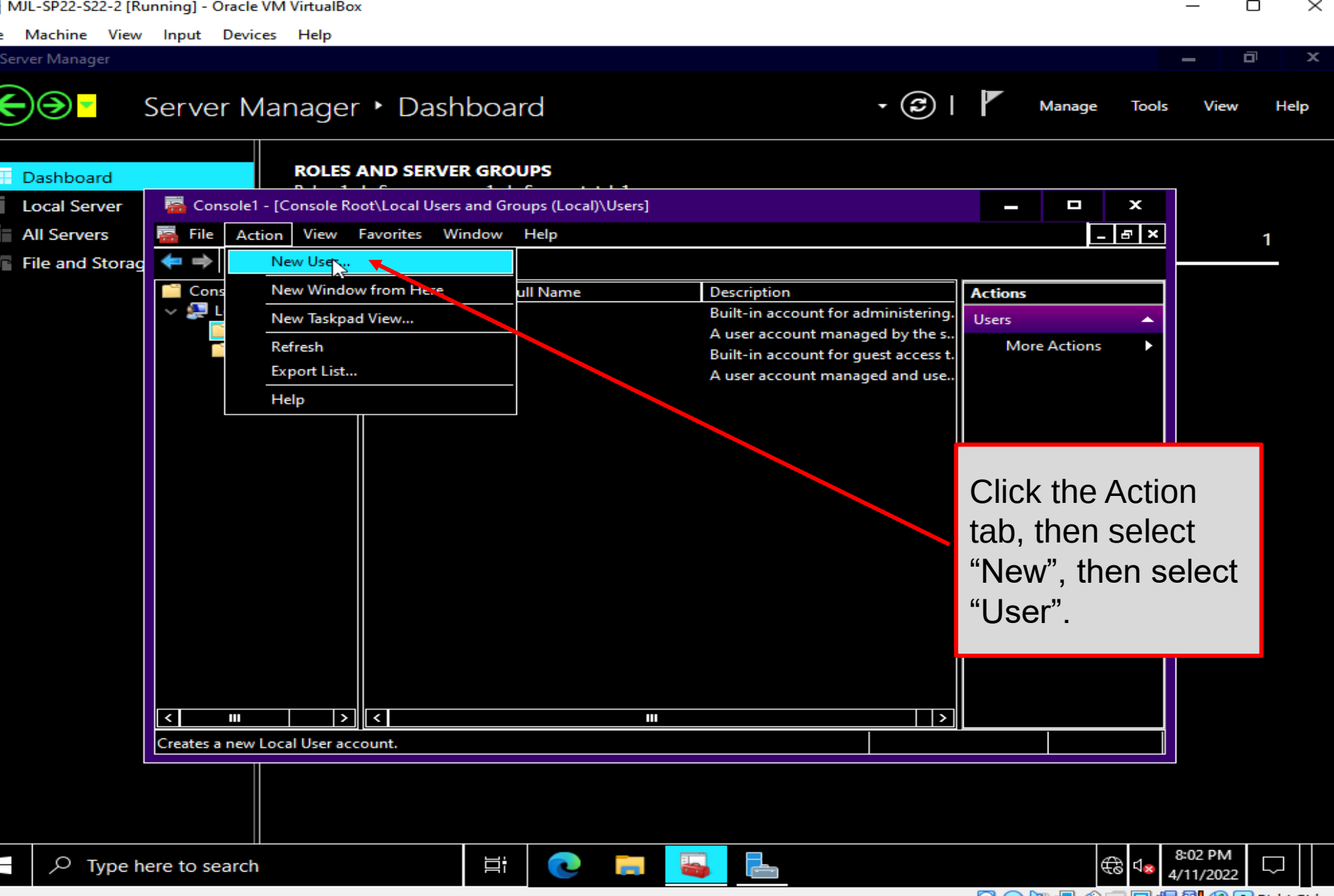
- To create a user in the savn.local domain the steps are:

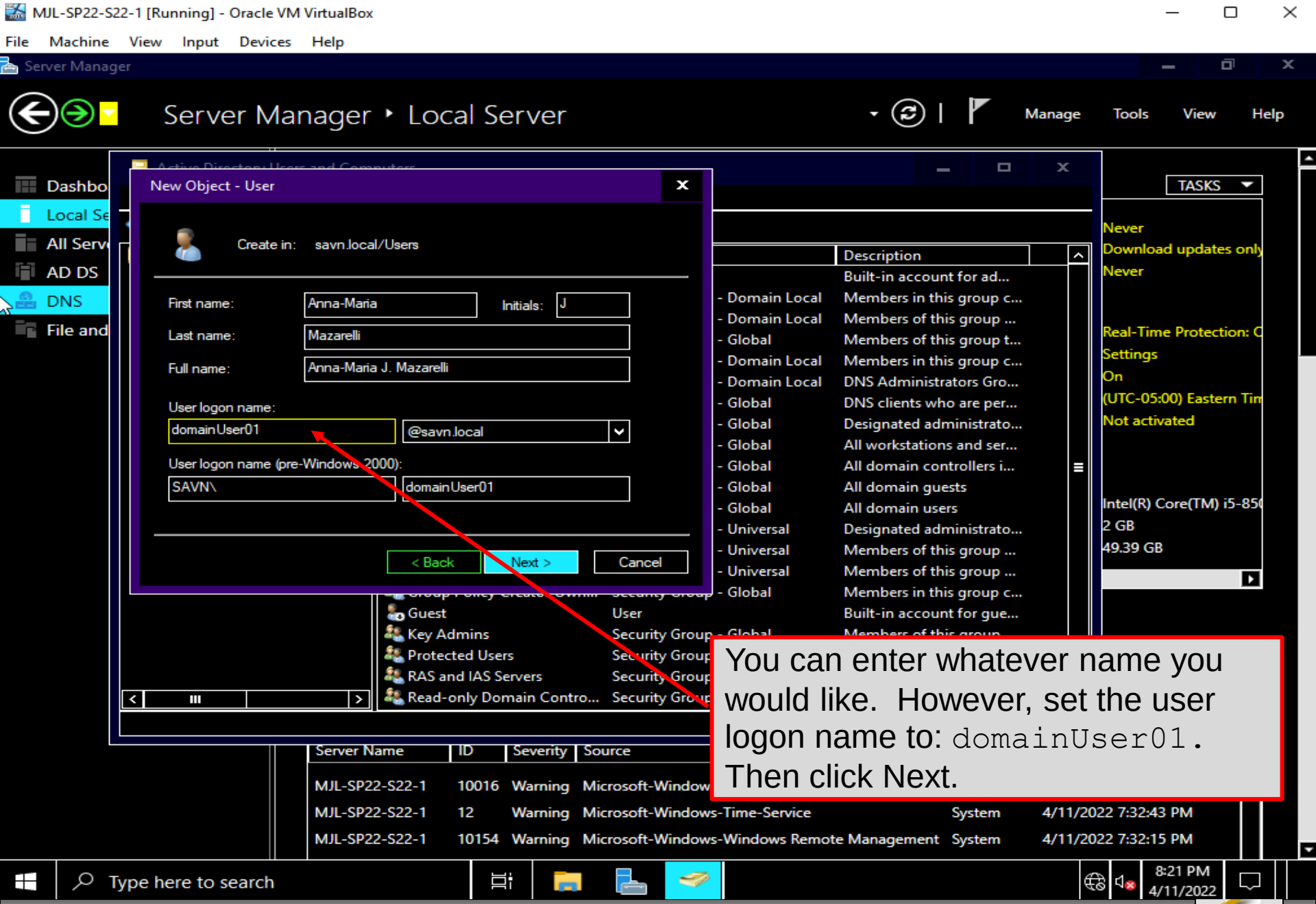
  - Start MJL-SP22-S22-1 running.

  - Click Administrative Tools, Select Active Directory Users and Computers from the list.

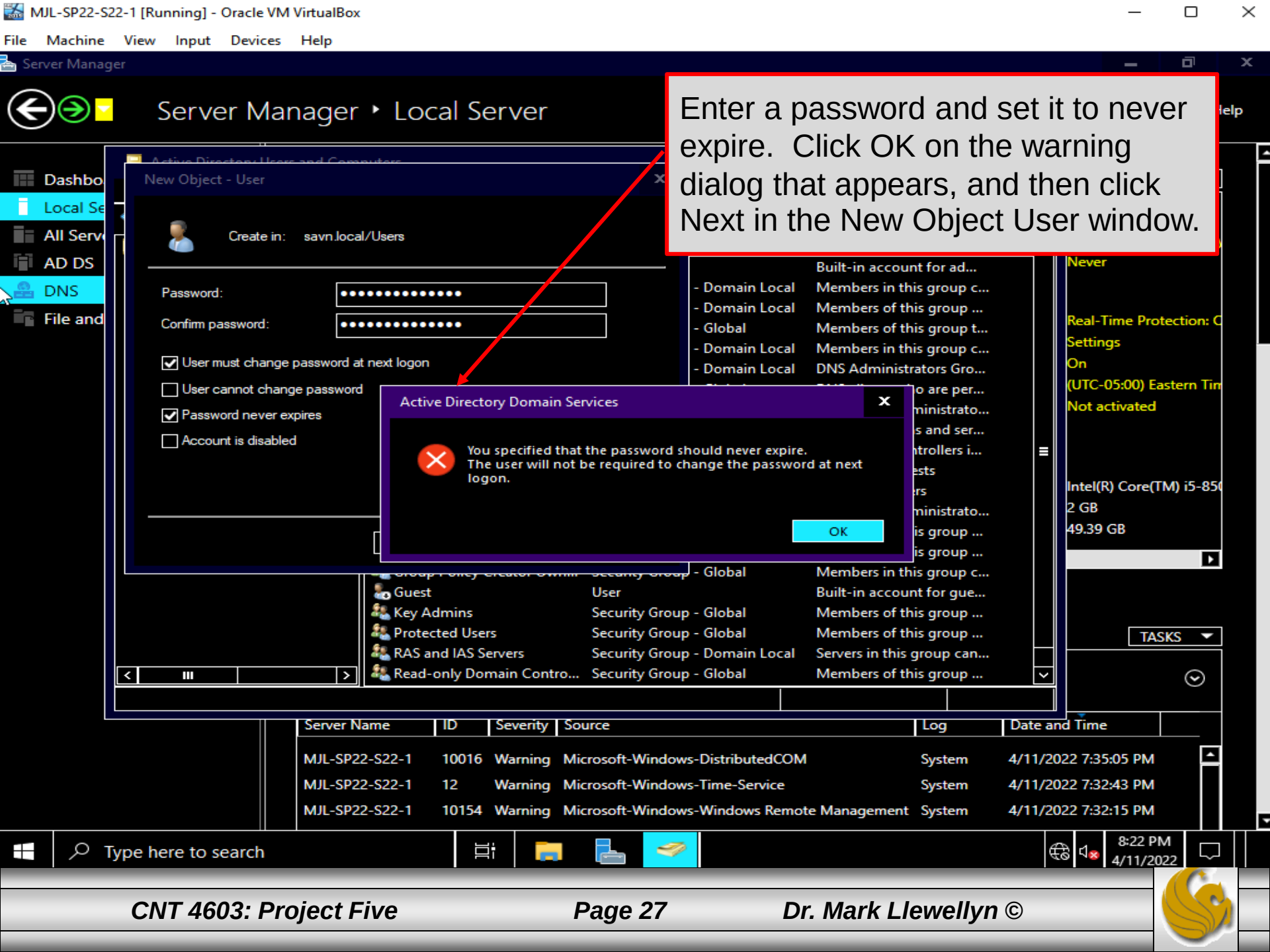
  - In the left pane, click the plus sign in front of the savn.local domain entry (it may already be expanded depending on what you've done here previously).

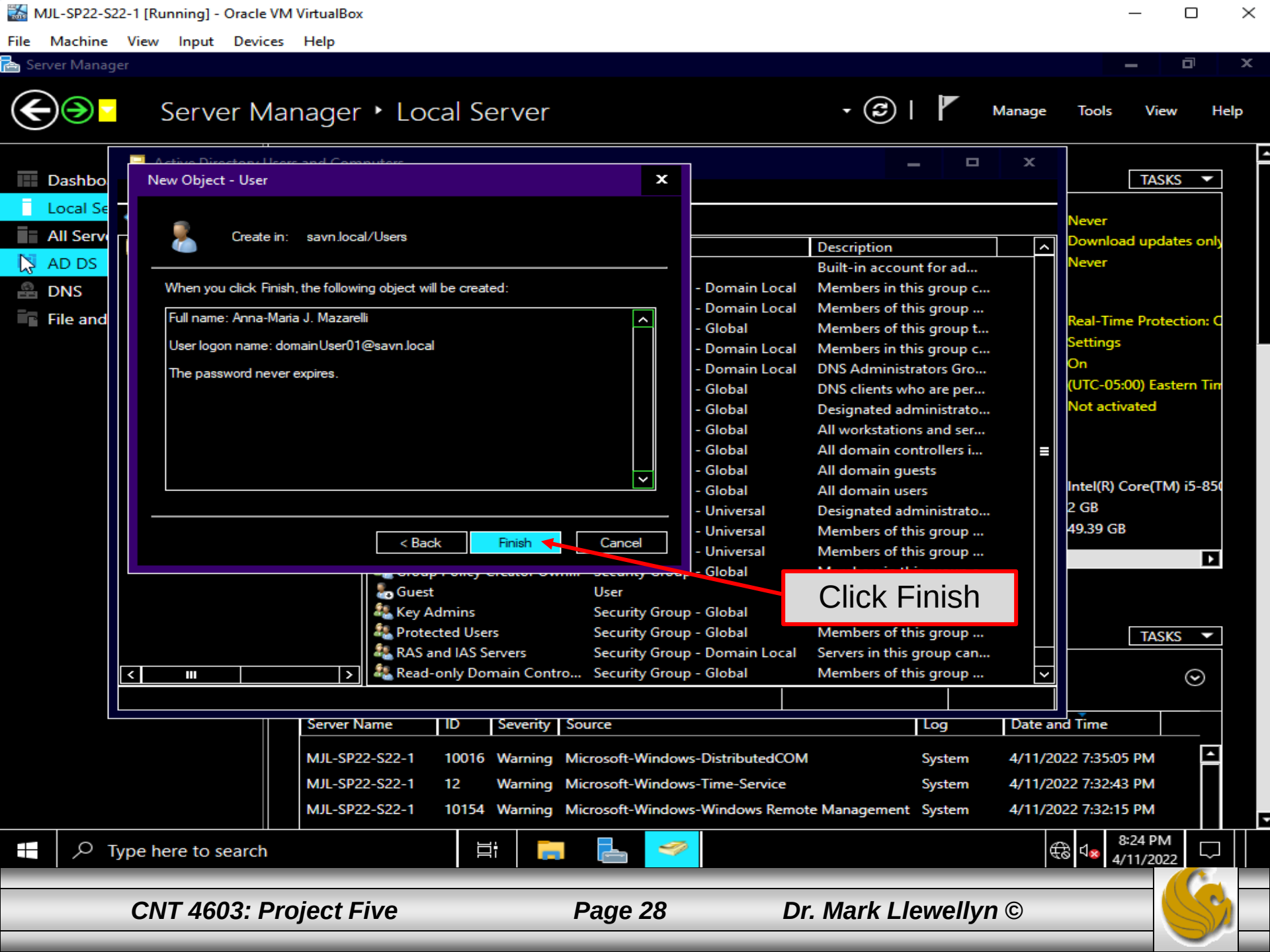

MJL-SP22-S22-1 [Running] - Oracle VM VirtualBox
File Machine View Input Devices Help
Server Manager
Server Manager • Local Server
Manage Tools View Help
Active Directory Users and Computers
File Action View Help
Active Directory Users and Com
Saved Queries
savn.local
Builtin
Computers
Domain Controllers
ForeignSecurityPrincipals
Managed Service Accou
Users
Administration
Research
Sales
Name Type Description
Administrator User Built-in account for ad...
Allowed RODC Password R... Security Group - Domain Local Members in this group c...
Cert Publishers Security Group - Domain Local Members of this group ...
Cloneable Domain Control... Security Group - Global Members of this group t...
Denied RODC Password Re... Security Group - Domain Local Members in this group c...
DnsAdmins Security Group - Domain Local DNS Administrators Gro...
DnsUpdateProxy Security Group - Global DNS clients who are per...
Domain Admins Security Group - Global Designated administrato...
Domain Computers Security Group - Global All workstations and ser...
Domain Controllers Security Group - Global All domain controllers i...
Domain Guests Security Group - Global All domain guests
Domain Users Security Group - Global All domain users
Enterprise Admins Security Group - Universal Designated administrato...
Enterprise Key Admins Security Group - Universal Members of this group ...
Enterprise Read-only Dom... Security Group - Universal Members of this group ...
Group Policy Creator Own... Security Group - Global Members in this group c...
Guest User Built-in account for gue...
Key Admin ecurity Group - Global Members of this group ...
Protected ecurity Group - Global Members of this group ...
RAS and IA ecurity Group - Domain Local Servers in this group can...
Read-only ecurity Group - Global Members of this group ...
Click Users
TASKS
Never
Download updates only
Never
Real-Time Protection: C
Settings
On
(UTC-05:00) Eastern Tim
Not activated
Intel(R) Core(TM) i5-85
2 GB
49.39 GB
TASKS
Server Name ID Severity Source Log Date and Time
MJL-SP22-S22-1 10016 Warning Microsoft-Windows-DistributedCOM System 4/11/2022 7:35:05 PM
MJL-SP22-S22-1 12 Warning Microsoft-Windows-Time-Service System 4/11/2022 7:32:43 PM
MJL-SP22-S22-1 10154 Warning Microsoft-Windows-Windows Remote Management System 4/11/2022 7:32:15 PM
Type here to search
8:17 PM
4/11/2022

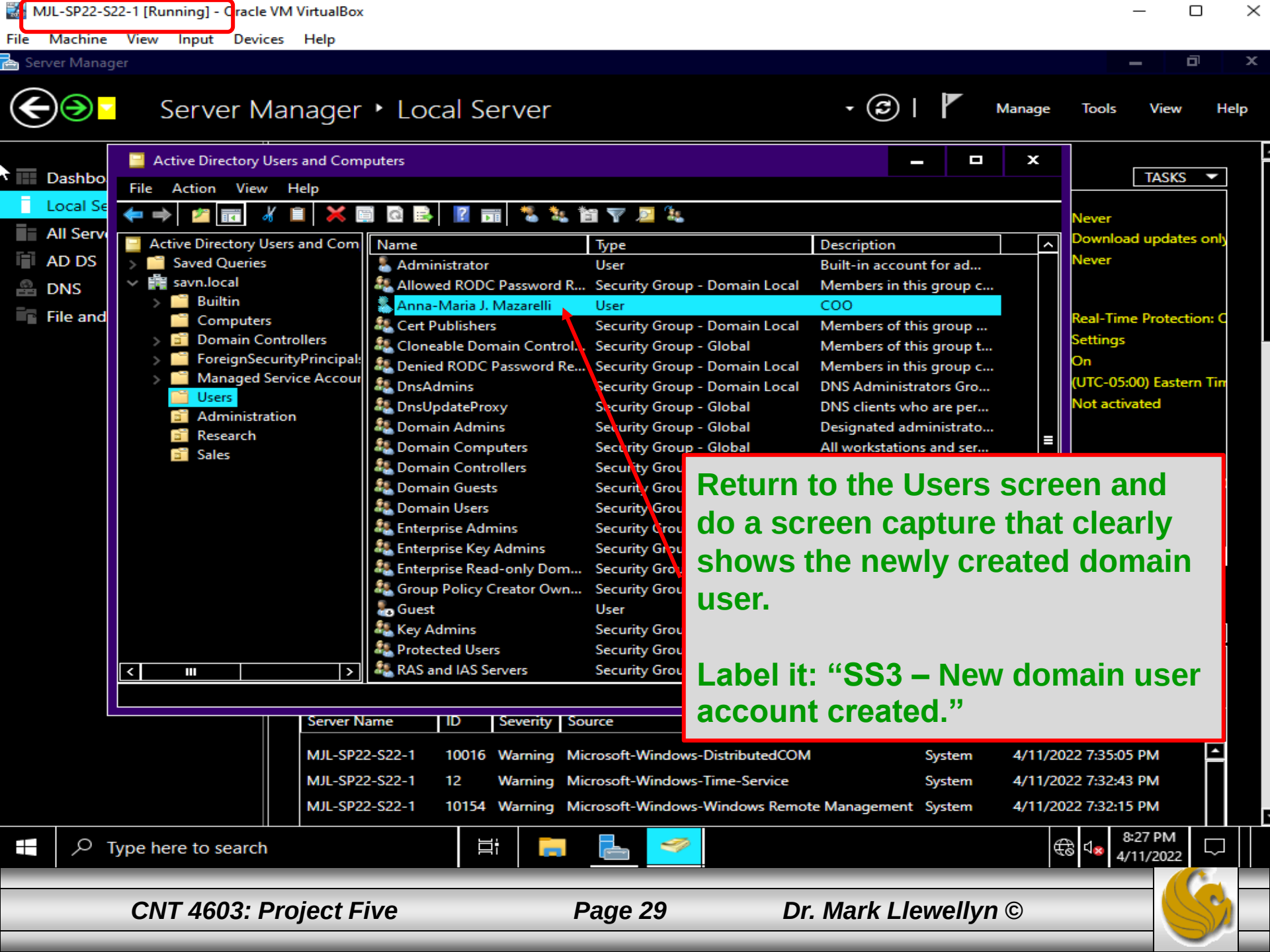

MJL-SP22-S22-2 [Running] - Oracle VM VirtualBox
Machine View Input Devices Help
Server Manager
Server Manager • Dashboard
Manage Tools View Help
Dashboard
Local Server
All Servers
File and Storag
ROLES AND SERVER GROUPS
Console1 - [Console Root\Local Users and Groups (Local)\Users]
File Action View Favorites Window Help
New User...
New Window from Here
New Taskpad View...
Refresh
Export List...
Help
Full Name
Description
Built-in account for administering.
A user account managed by the s..
Built-in account for guest access t.
A user account managed and use..
Actions
Users
More Actions
Creates a new Local User account.
Click the Action tab, then select "New", then select "User".
Type here to search
8:02 PM
4/11/2022
Right Ctrl



You can enter whatever name you would like. However, set the user logon name to: `domainUser01`. Then click Next.

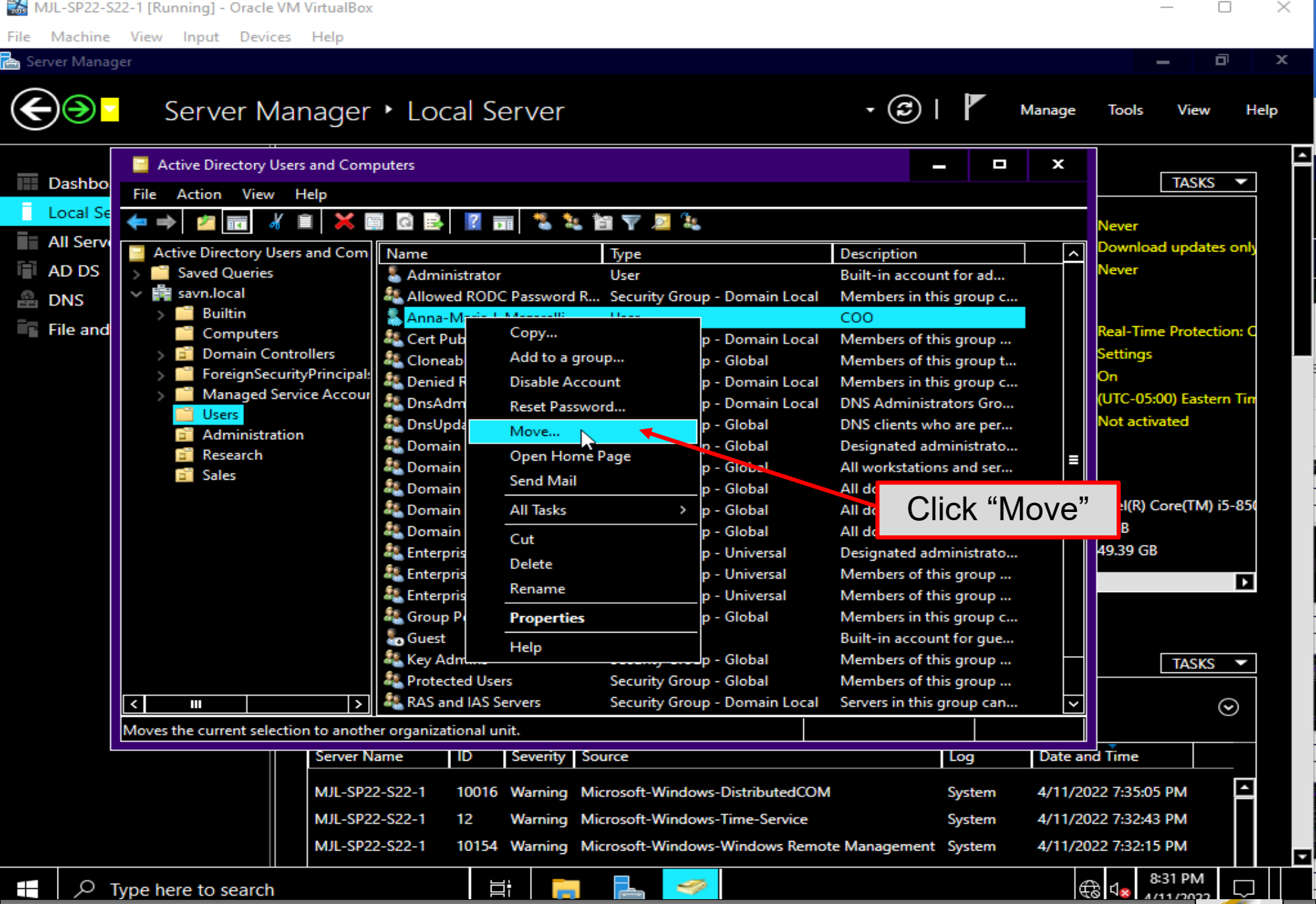

MJL-SP22-S22-1 [Running] - Oracle VM VirtualBox
File Machine View Input Devices Help
Server Manager
Server Manager • Local Server
Enter a password and set it to never expire. Click OK on the warning dialog that appears, and then click Next in the New Object User window.
New Object - User
Create in: savn.local/Users
Password:
Confirm password:
User must change password at next logon
User cannot change password
Password never expires
Account is disabled
Active Directory Domain Services
You specified that the password should never expire.
The user will not be required to change the password at next logon.
OK
Guest User Built-in account for gue...
Key Admins Security Group - Global Members of this group ...
Protected Users Security Group - Global Members of this group ...
RAS and IAS Servers Security Group - Domain Local Servers in this group can...
Read-only Domain Contro... Security Group - Global Members of this group ...
TASKS
Server Name ID Severity Source Log Date and Time
MJL-SP22-S22-1 10016 Warning Microsoft-Windows-DistributedCOM System 4/11/2022 7:35:05 PM
MJL-SP22-S22-1 12 Warning Microsoft-Windows-Time-Service System 4/11/2022 7:32:43 PM
MJL-SP22-S22-1 10154 Warning Microsoft-Windows-Windows Remote Management System 4/11/2022 7:32:15 PM
Type here to search
8:22 PM
4/11/2022

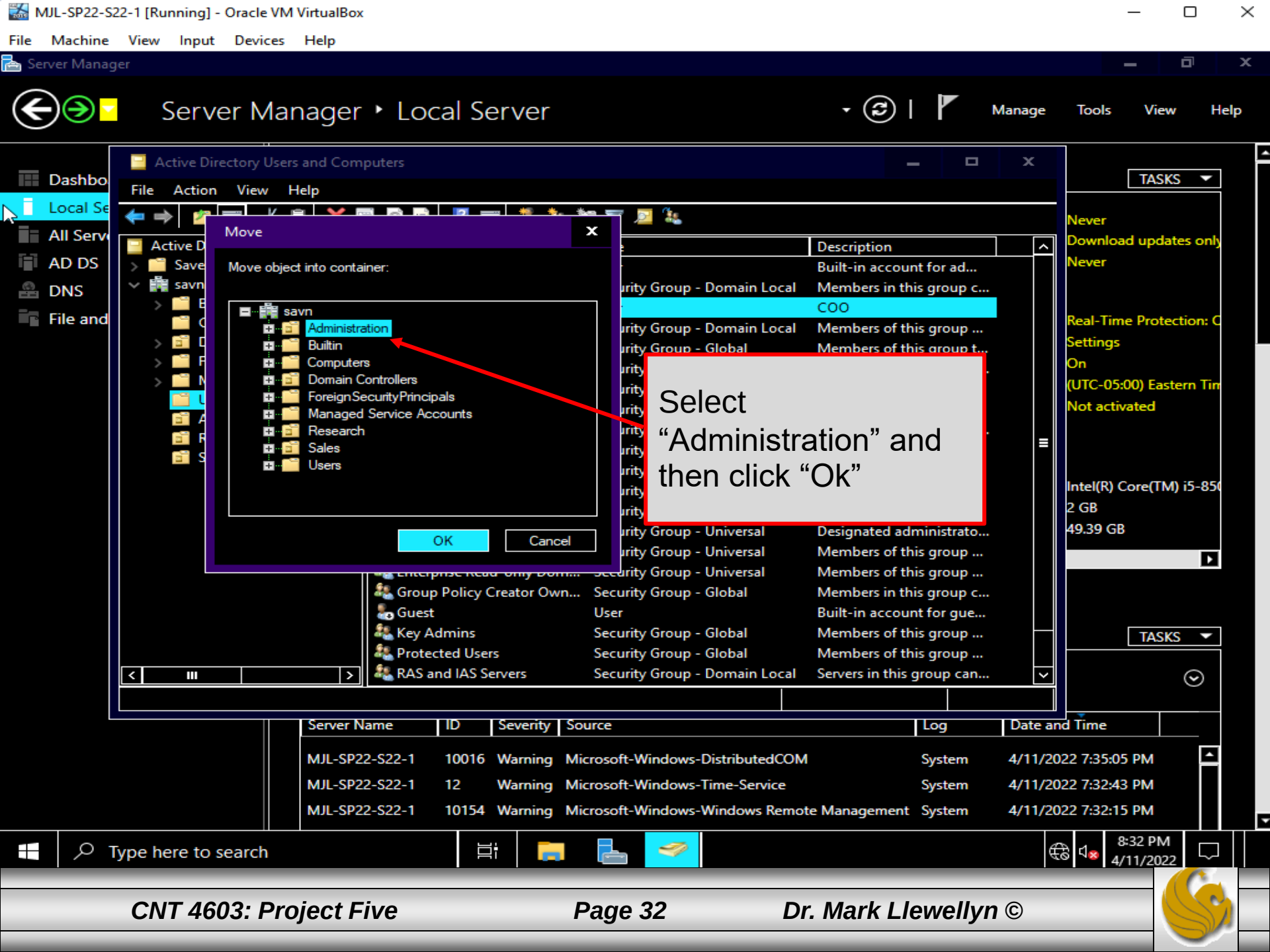

MJL-SP22-S22-1 [Running] - Oracle VM VirtualBox
File Machine View Input Devices Help
Server Manager
Server Manager • Local Server
Manage Tools View Help
New Object - User
Create in: savn.local/Users
When you click Finish, the following object will be created:
Full name: Anna-Maria J. Mazarelli
User logon name: domainUser01@savn.local
The password never expires.
< Back
Finish
Cancel
Click Finish
Description
Built-in account for ad...
Members in this group c...
Members of this group ...
Members of this group t...
DNS Administrators Gro...
DNS clients who are per...
Designated administrato...
All workstations and ser...
All domain controllers i...
All domain guests
All domain users
Guest
Key Admins
Protected Users
RAS and IAS Servers
Read-only Domain Contro...
Server Name ID Severity Source Log Date and Time
MJL-SP22-S22-1 10016 Warning Microsoft-Windows-DistributedCOM System 4/11/2022 7:35:05 PM
MJL-SP22-S22-1 12 Warning Microsoft-Windows-Time-Service System 4/11/2022 7:32:43 PM
MJL-SP22-S22-1 10154 Warning Microsoft-Windows-Windows Remote Management System 4/11/2022 7:32:15 PM
Type here to search
8:24 PM
4/11/2022

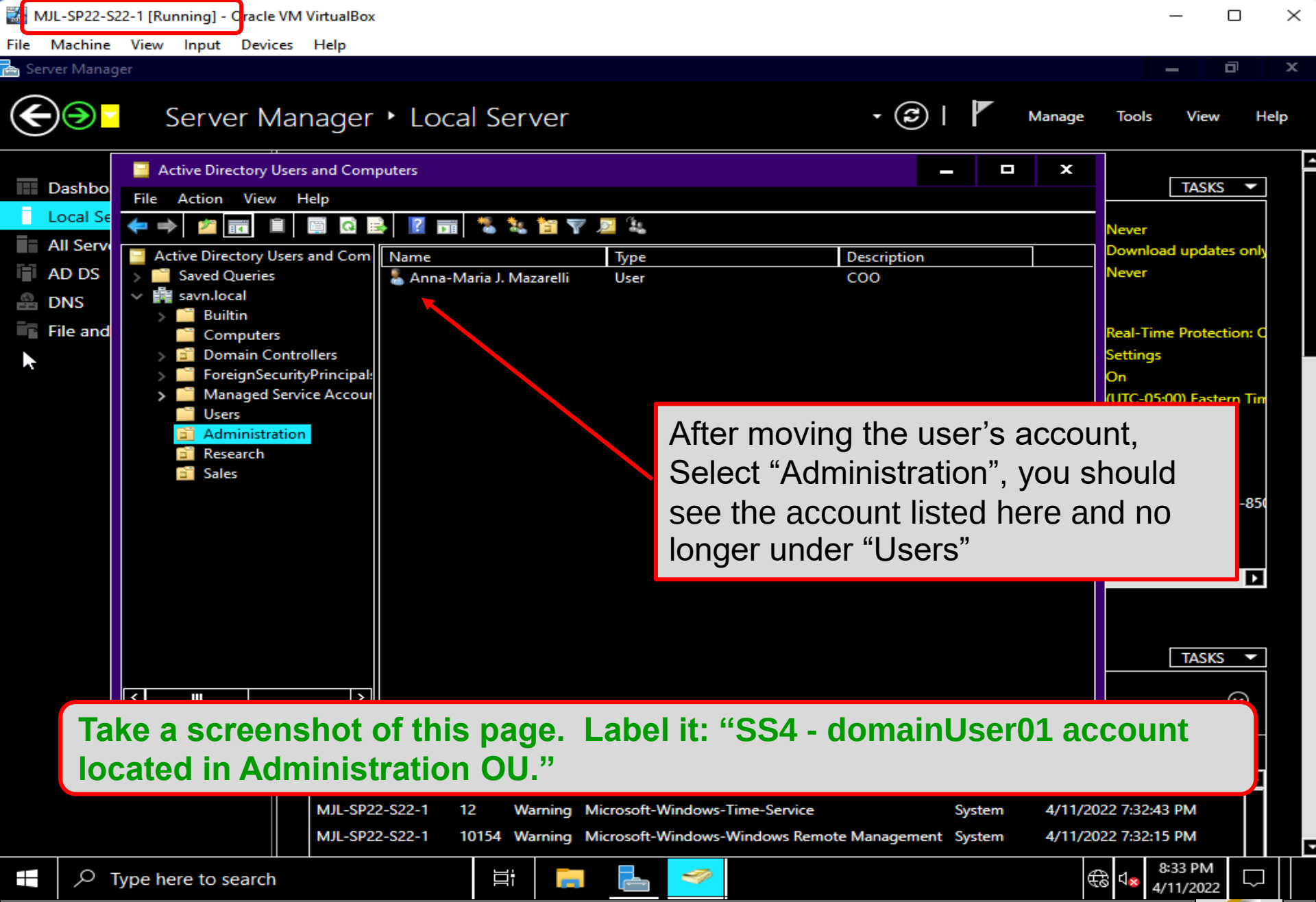

MJL-SP22-S22-1 [Running] - Oracle VM VirtualBox
File Machine View Input Devices Help
Server Manager
Server Manager • Local Server
Manage Tools View Help
Active Directory Users and Computers
File Action View Help
Active Directory Users and Com
Saved Queries
savn.local
Builtin
Computers
Domain Controllers
ForeignSecurityPrincipals
Managed Service Accour
Users
Administration
Research
Sales
Name Type Description
Administrator User Built-in account for ad...
Allowed RODC Password R... Security Group - Domain Local Members in this group c...
Anna-Maria J. Mazarelli User COO
Cert Publishers Security Group - Domain Local Members of this group ...
Cloneable Domain Control... Security Group - Global Members of this group t...
Denied RODC Password Re... Security Group - Domain Local Members in this group c...
DnsAdmins Security Group - Domain Local DNS Administrators Gro...
DnsUpdateProxy Security Group - Global DNS clients who are per...
Domain Admins Security Group - Global Designated administrato...
Domain Computers Security Group - Global All workstations and ser...
Domain Controllers
Domain Guests
Domain Users
Enterprise Admins
Enterprise Key Admins
Enterprise Read-only Dom...
Group Policy Creator Own...
Guest User
Key Admins
Protected Users
RAS and IAS Servers
TASKS
Never
Download updates only
Never
Real-Time Protection: C
Settings
On
(UTC-05:00) Eastern Tim
Not activated
Return to the Users screen and do a screen capture that clearly shows the newly created domain user.
Label it: "SS3 – New domain user account created."
Server Name ID Severity Source
MJL-SP22-S22-1 10016 Warning Microsoft-Windows-DistributedCOM System 4/11/2022 7:35:05 PM
MJL-SP22-S22-1 12 Warning Microsoft-Windows-Time-Service System 4/11/2022 7:32:43 PM
MJL-SP22-S22-1 10154 Warning Microsoft-Windows-Windows Remote Management System 4/11/2022 7:32:15 PM
Type here to search
8:27 PM
4/11/2022

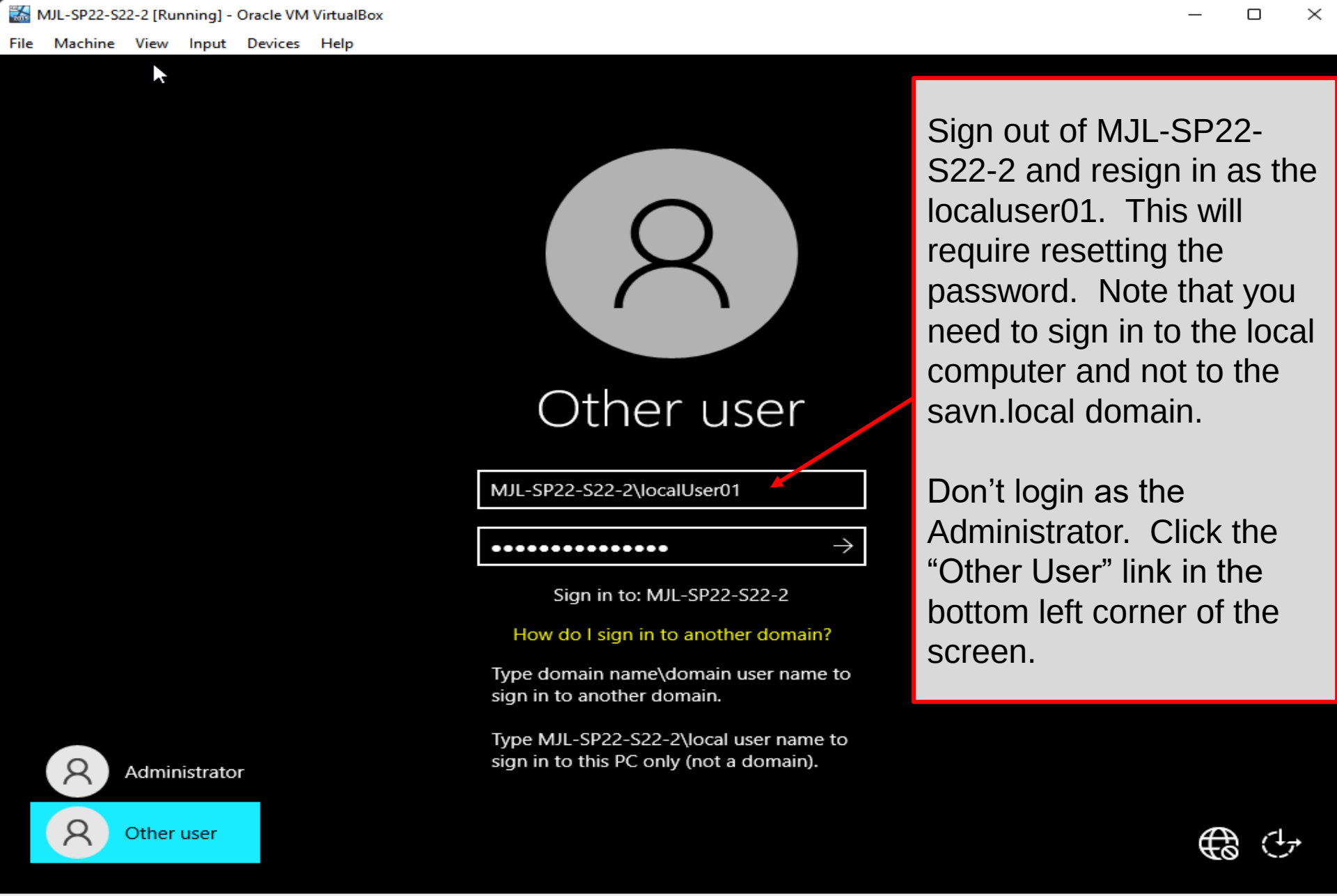
Moving a User Account to an OU

- Next, move the domain user account you just created (`domainUser01`) into the `Administration` OU that you created earlier.
- To do this, return to the screen shown on the previous slide. Highlight the new user account by selecting it and then right clicking the account.
- Select "Move" from the available options, as shown on the next slide:


MJL-SP22-S22-1 [Running] - Oracle VM VirtualBox
File Machine View Input Devices Help
Server Manager
Server Manager • Local Server
Manage Tools View Help
Active Directory Users and Computers
File Action View Help
Active Directory Users and Com
Saved Queries
savn.local
Builtin
Computers
Domain Controllers
ForeignSecurityPrincipal
Managed Service Accou
Users
Administration
Research
Sales
Name Type Description
Administrator User Built-in account for ad...
Allowed RODC Password R... Security Group - Domain Local Members in this group c...
COO
Cert Pub p - Domain Local Members of this group ...
Cloneab p - Global Members of this group t...
Denied R p - Domain Local Members in this group c...
DnsAdm p - Domain Local DNS Administrators Gro...
DnsUpda p - Global DNS clients who are per...
Domain p - Global Designated administrato...
Domain p - Global All workstations and ser...
Domain p - Global
Domain p - Global
Domain p - Global
Enterpris p - Universal Designated administrato...
Enterpris p - Universal Members of this group ...
Enterpris p - Universal Members of this group ...
Group P p - Global Members in this group c...
Guest Built-in account for gue...
Key Adm p - Global Members of this group ...
Protected Users Security Group - Global Members of this group ...
RAS and IAS Servers Security Group - Domain Local Servers in this group can...
Copy...
Add to a group...
Disable Account
Reset Password...
Move...
Open Home Page
Send Mail
All Tasks
Cut
Delete
Rename
Properties
Help
Click “Move”
Moves the current selection to another organizational unit.
TASKS
Never
Download updates only
Never
Real-Time Protection: C
Settings
On
(UTC-05:00) Eastern Tim
Not activated
49.39 GB
Server Name ID Severity Source Log Date and Time
MJL-SP22-S22-1 10016 Warning Microsoft-Windows-DistributedCOM System 4/11/2022 7:35:05 PM
MJL-SP22-S22-1 12 Warning Microsoft-Windows-Time-Service System 4/11/2022 7:32:43 PM
MJL-SP22-S22-1 10154 Warning Microsoft-Windows-Windows Remote Management System 4/11/2022 7:32:15 PM
Type here to search
8:31 PM

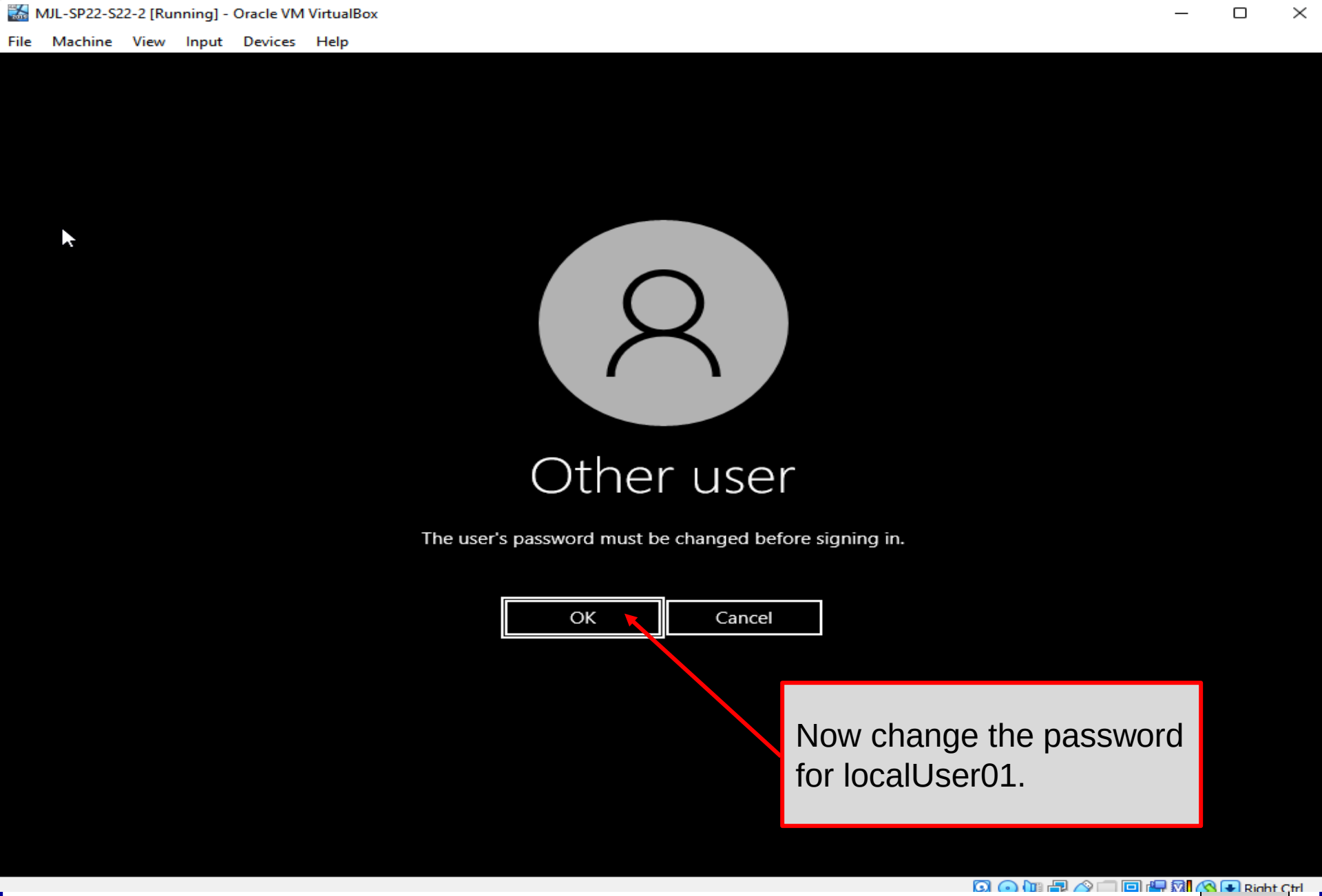

MJL-SP22-S22-1 [Running] - Oracle VM VirtualBox
File Machine View Input Devices Help
Server Manager
Server Manager • Local Server
Manage Tools View Help
Active Directory Users and Computers
File Action View Help
Move
Move object into container:
savn
Administration
Builtin
Computers
Domain Controllers
ForeignSecurityPrincipals
Managed Service Accounts
Research
Sales
Users
OK
Cancel
Select "Administration" and then click "Ok"
Description
Built-in account for ad...
Members in this group c...
COO
Members of this group ...
Designated administrato...
Group Policy Creator Own...
Security Group - Global
Members in this group c...
Guest
User
Built-in account for gue...
Key Admins
Protected Users
RAS and IAS Servers
Security Group - Domain Local
Servers in this group can...
TASKS
Never
Download updates only
Never
Real-Time Protection: C
Settings
On
(UTC-05:00) Eastern Tim
Not activated
Intel(R) Core(TM) i5-85
2 GB
49.39 GB
Server Name ID Severity Source Log Date and Time
MJL-SP22-S22-1 10016 Warning Microsoft-Windows-DistributedCOM System 4/11/2022 7:35:05 PM
MJL-SP22-S22-1 12 Warning Microsoft-Windows-Time-Service System 4/11/2022 7:32:43 PM
MJL-SP22-S22-1 10154 Warning Microsoft-Windows-Windows Remote Management System 4/11/2022 7:32:15 PM
Type here to search
8:32 PM
4/11/2022

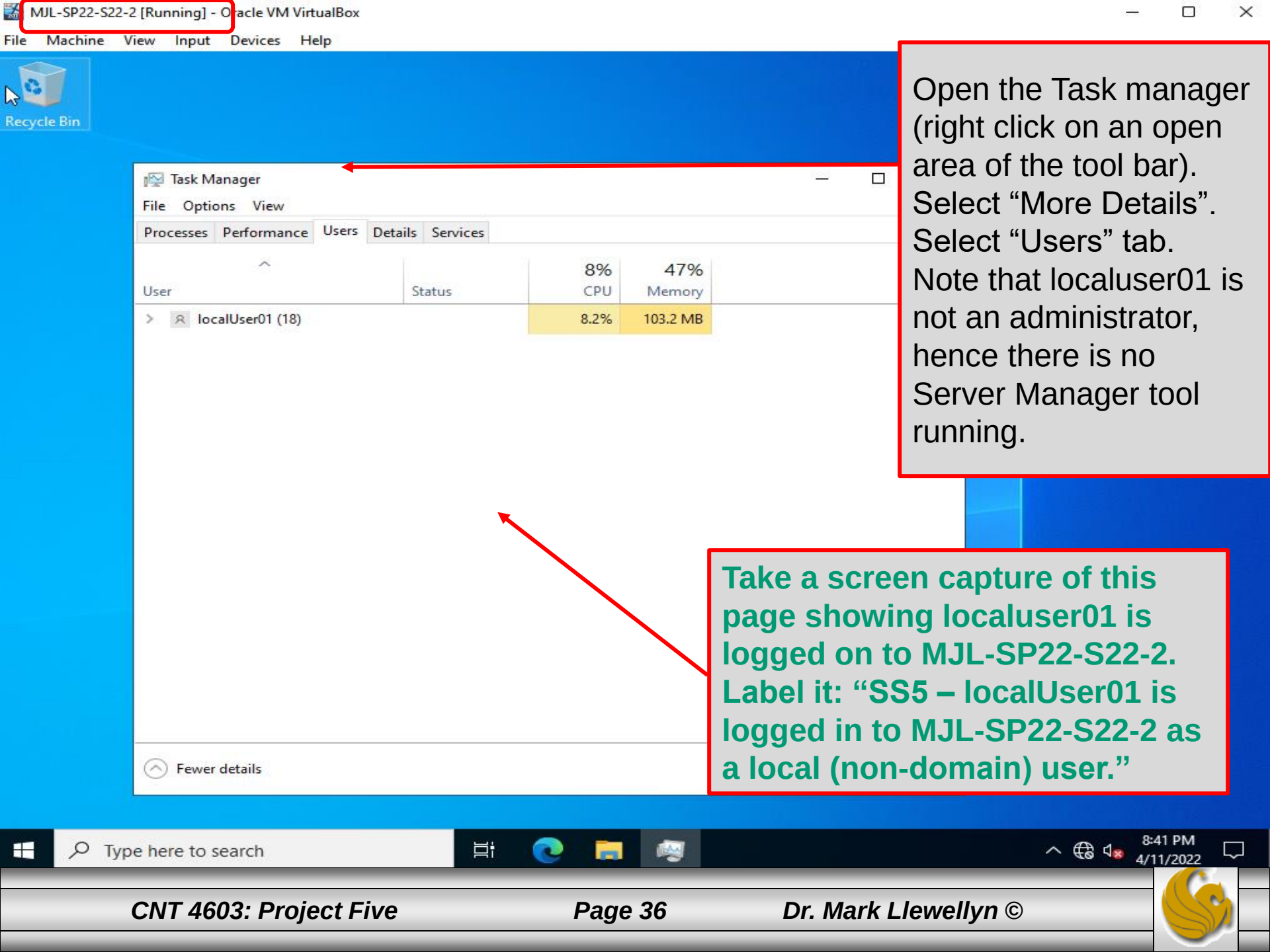

MJL-SP22-S22-1 [Running] - Oracle VM VirtualBox
File Machine View Input Devices Help
Server Manager
Server Manager • Local Server
Manage Tools View Help
Active Directory Users and Computers
File Action View Help
Active Directory Users and Com
Saved Queries
savn.local
Builtin
Computers
Domain Controllers
ForeignSecurityPrincipal
Managed Service Accou
Users
Administration
Research
Sales
Name Type Description
Anna-Maria J. Mazarelli User COO
TASKS
Never
Download updates only
Never
Real-Time Protection: C
Settings
On
(UTC-05:00) Eastern Tim
After moving the user's account, Select "Administration", you should see the account listed here and no longer under "Users"
Take a screenshot of this page. Label it: "SS4 - domainUser01 account located in Administration OU."
MJL-SP22-S22-1 12 Warning Microsoft-Windows-Time-Service System 4/11/2022 7:32:43 PM
MJL-SP22-S22-1 10154 Warning Microsoft-Windows-Windows Remote Management System 4/11/2022 7:32:15 PM
Type here to search
8:33 PM
4/11/2022

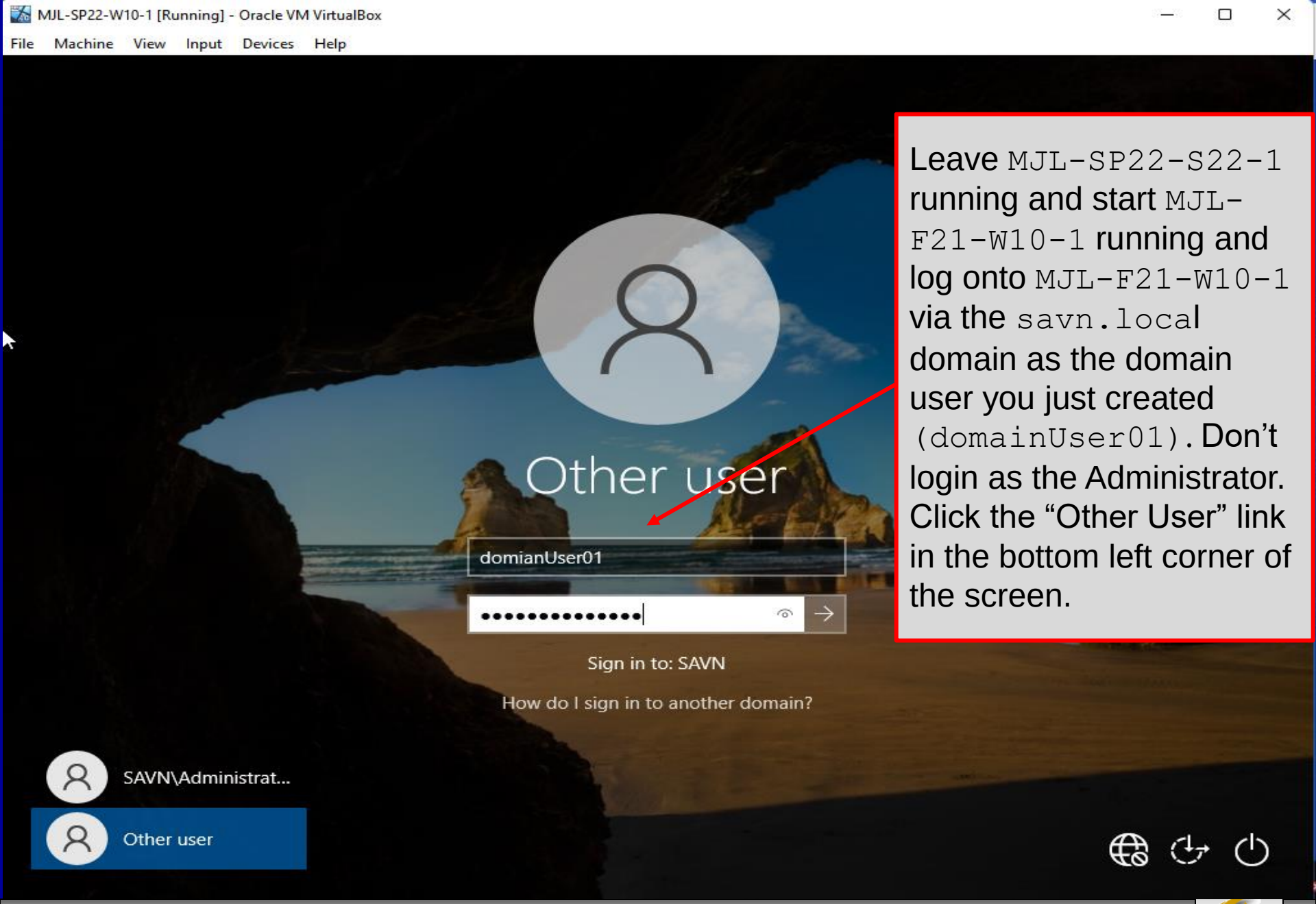


Sign out of MJL-SP22-S22-2 and resign in as the localuser01. This will require resetting the password. Note that you need to sign in to the local computer and not to the savn.local domain.

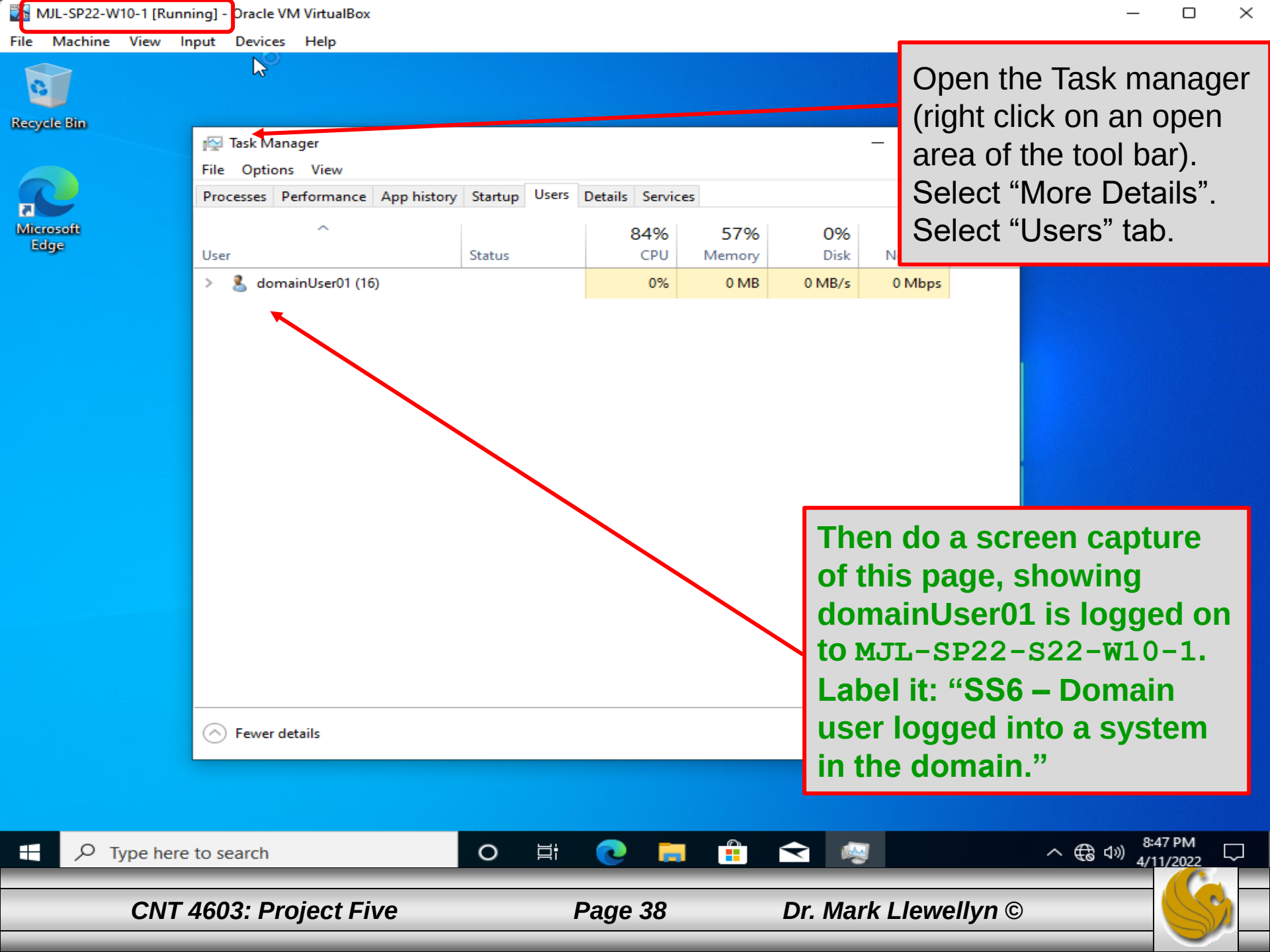
Don't login as the Administrator. Click the "Other User" link in the bottom left corner of the screen.


MJL-SP22-S22-2 [Running] - Oracle VM VirtualBox
File Machine View Input Devices Help
Other user
The user's password must be changed before signing in.
OK
Cancel
Now change the password for localUser01.
Right Ctrl


MJL-SP22-S22-2 [Running] - Oracle VM VirtualBox
File Machine View Input Devices Help
Recycle Bin
Task Manager
File Options View
Processes Performance Users Details Services
User
Status
8%
CPU
47%
Memory
localUser01 (18)
8.2%
103.2 MB
Fewer details
Open the Task manager (right click on an open area of the tool bar). Select “More Details”. Select “Users” tab. Note that localuser01 is not an administrator, hence there is no Server Manager tool running.
Take a screen capture of this page showing localuser01 is logged on to MJL-SP22-S22-2. Label it: “SS5 – localUser01 is logged in to MJL-SP22-S22-2 as a local (non-domain) user.”
Type here to search
8:41 PM
4/11/2022

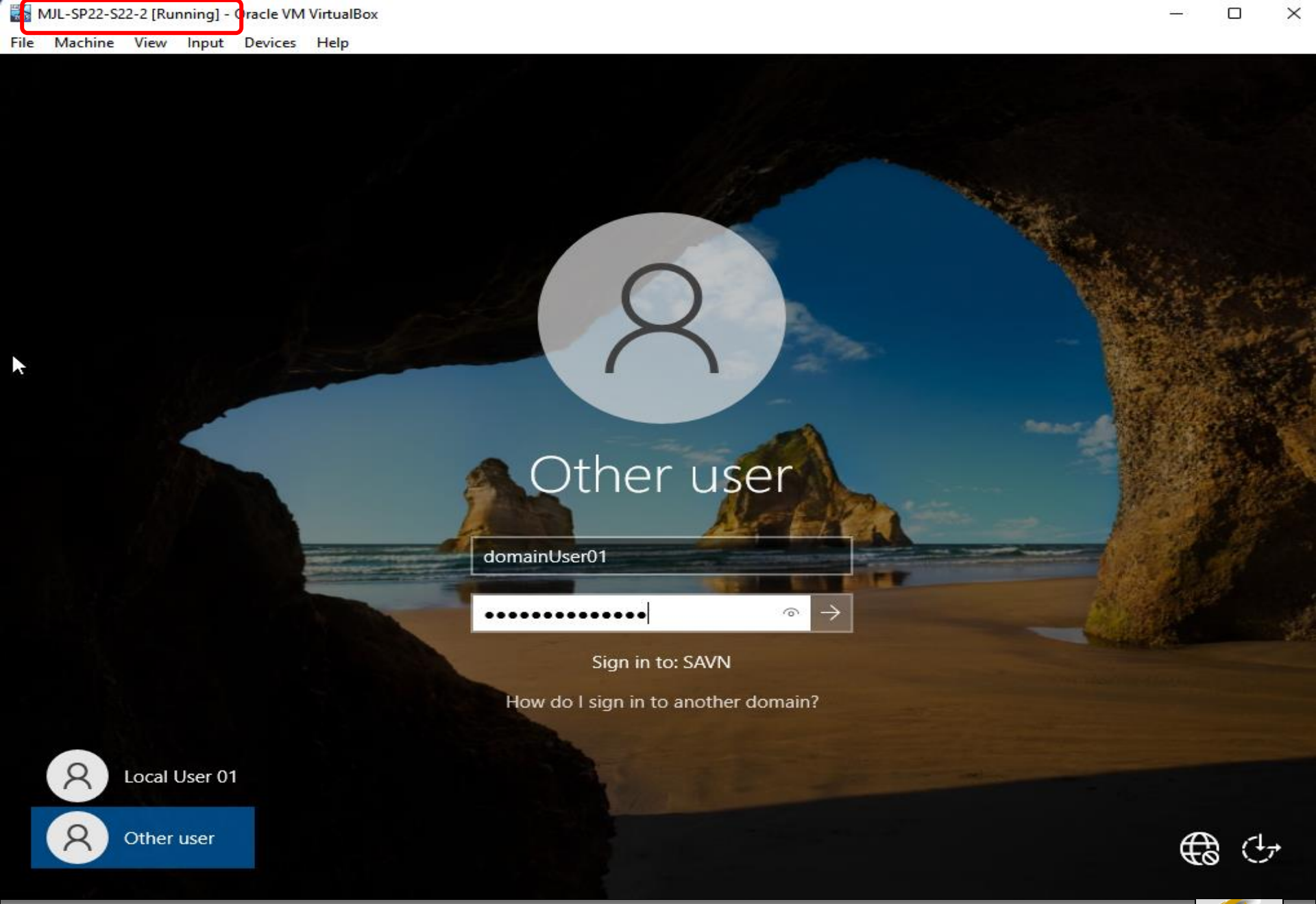


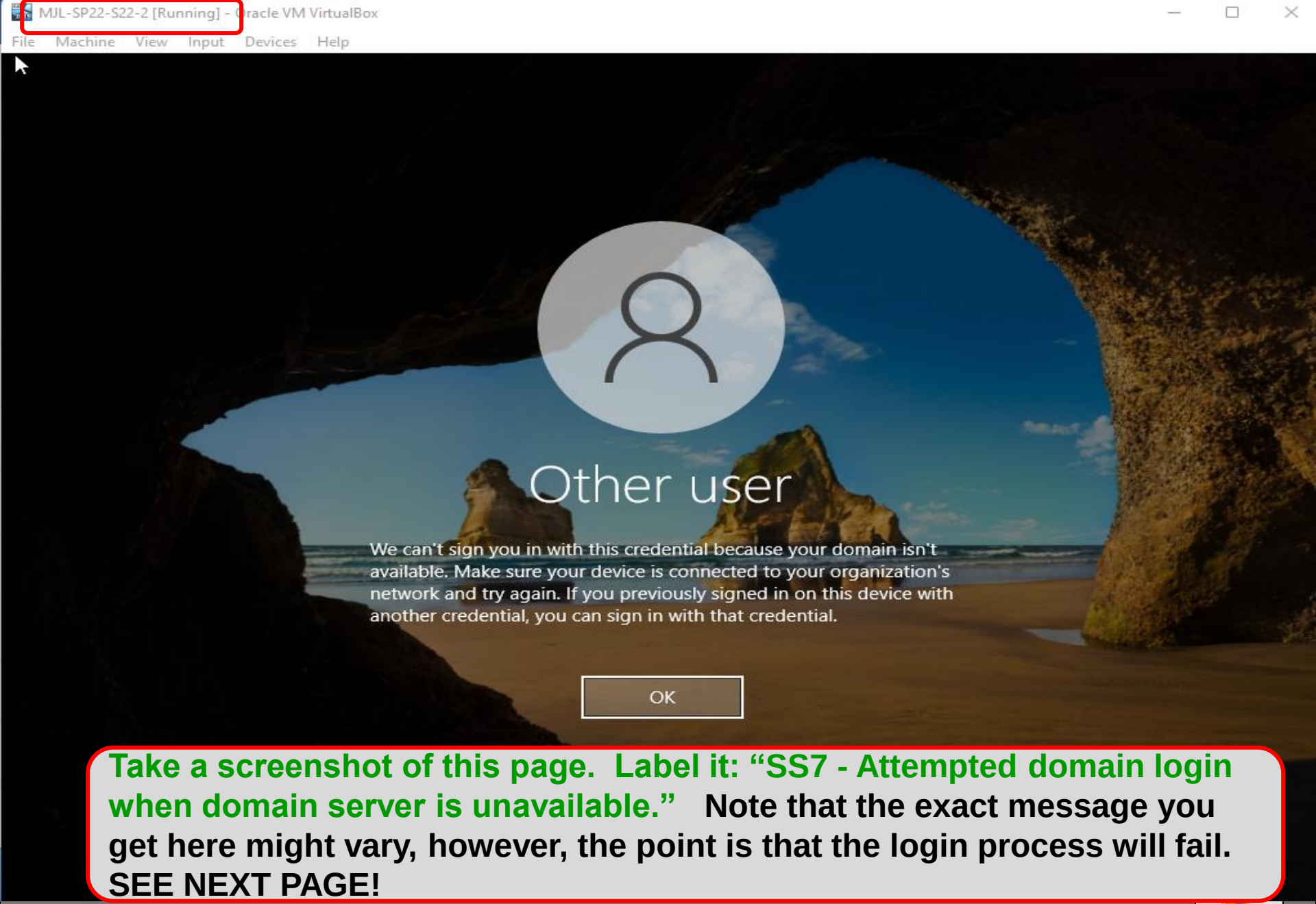
Leave `MJL-SP22-S22-1` running and start `MJL-F21-W10-1` running and log onto `MJL-F21-W10-1` via the `savn.local` domain as the domain user you just created (`domainUser01`). Don't login as the Administrator. Click the "Other User" link in the bottom left corner of the screen.


MJL-SP22-W10-1 [Running] - Oracle VM VirtualBox
File Machine View Input Devices Help
Recycle Bin
Microsoft Edge
Task Manager
File Options View
Processes Performance App history Startup Users Details Services
User Status 84% CPU 57% Memory 0% Disk N
domainUser01 (16) 0% 0 MB 0 MB/s 0 Mbps
Fewer details
Open the Task manager (right click on an open area of the tool bar). Select “More Details”. Select “Users” tab.
Then do a screen capture of this page, showing domainUser01 is logged on to MJL-SP22-S22-W10-1. Label it: “SS6 – Domain user logged into a system in the domain.”
Type here to search
8:47 PM 4/11/2022

Domain User Logon Attempt With No Domain Controller Available

- For the next step in this project, shutdown **all** VMs in the `savn.local` domain that are currently running.
- Note that only an administrator has the permissions to power off a server. Thus, if you are currently logged to any system in the `savn.local` domain as either `domainUser01` or `localuser01` you cannot do this, you will have to log back in as the administrator)
- Start `MJL-SP22-S22-2` running and attempt to log into the `savn.local` domain as `domainUser01`.
- The attempt to log in to `MJL-SP22-S22-2` as `domainUser01` will fail since the domain controller `MJL-SP22-S22-1` is off-line. You should see a screen similar to the one shown on page 41.


MJL-SP22-S22-2 [Running] - Oracle VM VirtualBox
File Machine View Input Devices Help
Other user
domainUser01
Sign in to: SAVN
How do I sign in to another domain?
Local User 01
Other user



Take a screenshot of this page. Label it: "SS7 - Attempted domain login when domain server is unavailable." Note that the exact message you get here might vary, however, the point is that the login process will fail. SEE NEXT PAGE!

IMPORTANT!!!

- After failing to log on with the domain controller offline, **do not force stop `MJL-SP22-S22-2`.**
- Instead, restart `MJL-SP22-S22-1` (the domain controller) and once it has restarted, do a proper login on `MJL-SP22-S22-2` (as an Administrator) and go through the normal proper shutdown procedures for each VM.
- **DO NOT FORCE STOP `MJL-SP22-S22-2`!**