



# Module Code & Module Title Level 5 – CT5052 Network Operating System

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I confirm that I understand my coursework needs to be submitted online via Google Classroom under the relevant module page before the deadline in order for my assignment to be accepted and marked. I am fully aware that late submissions will be treated as non-submission and a mark of zero will be awarded.

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#### 1. Introduction

Windows Server includes a built-in software which is known as Sever Manager that makes it simple for users to monitor and setup servers. Users are able to create and handle manager server tasks, maintain health of server and establish settings for different servers using a single screen.

It first came out in Windows Server and to make operations simple, like implementing tasks that is Active Directory and DNS, maintaining performance and solving issues. Since it provides remote control without having separate login server. Server Manager is very helpful when operating many servers in a network. One important resource for IT managers, Server managers provides a multiple option for server management effectively. With aim to achieve rise production, and reduce the operation of current IT systems, Server manager helps to control operations like building a new server, and identifying errors.

Furthermore, it is the most common device for powerful server management and important part of for every Windows Server setting. On the web everything depends on server. Specifically, in the world of e-commerce, the ability of customers to find electronic commerce and business suppliers, the experience they have once they get there, the security of transactions, and the integrity of data all depend on the servers. Servers are the computing engines of the Internet.

### 2. Activities Users can Perform with Server Manager

#### 2.1 Changing the Server name

• From the dashboard of server manager, select to local server.

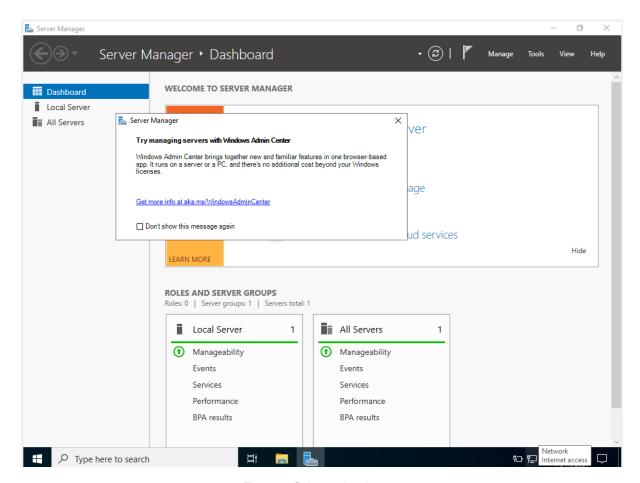


Figure 1: Select to local server

A cofiguration box will open when you select computer name

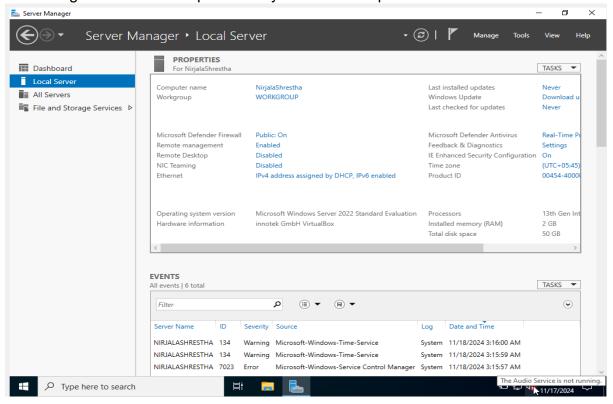


Figure 2: Selecting computer name

Change the server name and save your changes.

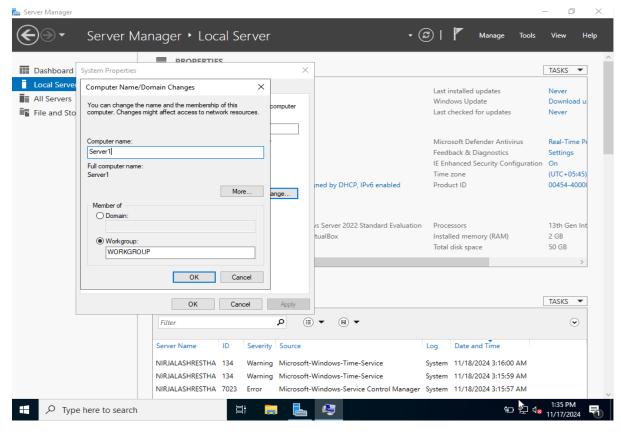


Figure 3:Changing server name

#### 2.2 Turning on Remote Desktop

- Remote Desktop provides remote control to the operations and GUI server.
- Select the button for Remote Desktop

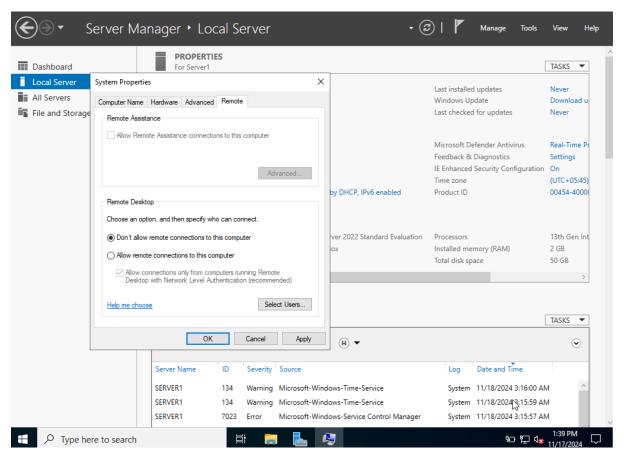


Figure 4:Select the button for Remote Desktop

 Select and tap the allow button and then a firewall alert notification will show up.

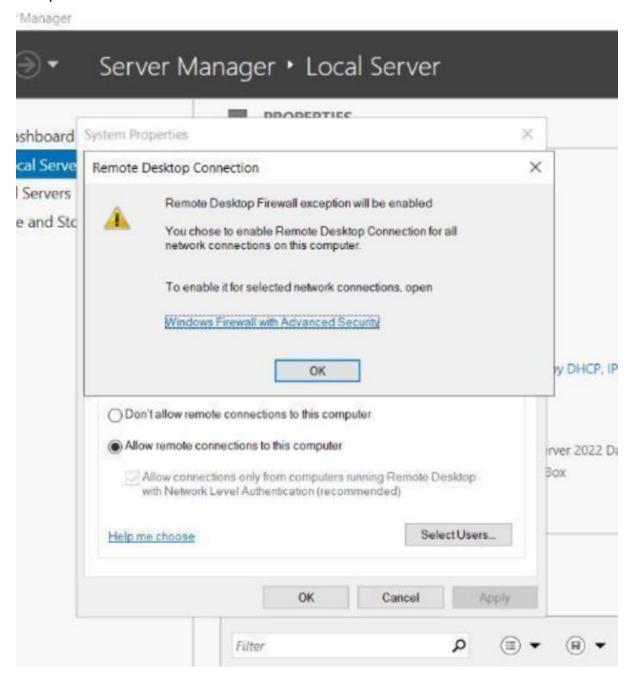


Figure 5: Remote Desktop firewall

Click Ok button to verify all of the changes that were made.

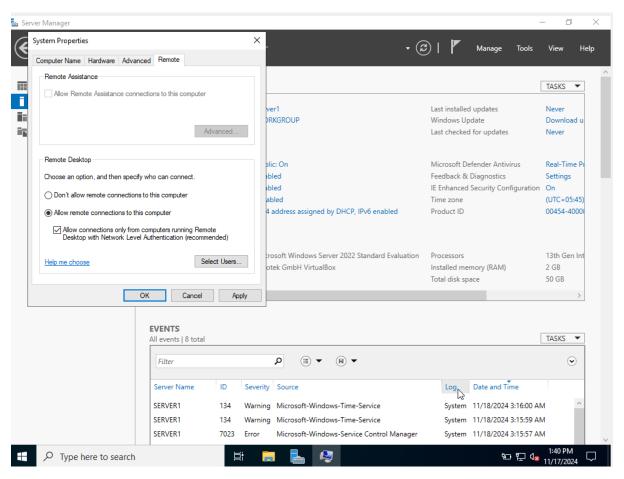


Figure 6: Verifying the changes

#### 2.3 Setting Up a Static IP Address

• In order to see network adapters, select the Ethernet icon.

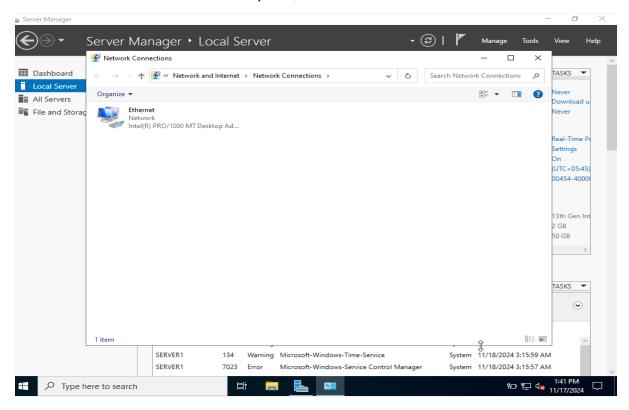


Figure 7: Selecting Ethernet icon

Use the right-click of adapters and select the properties.

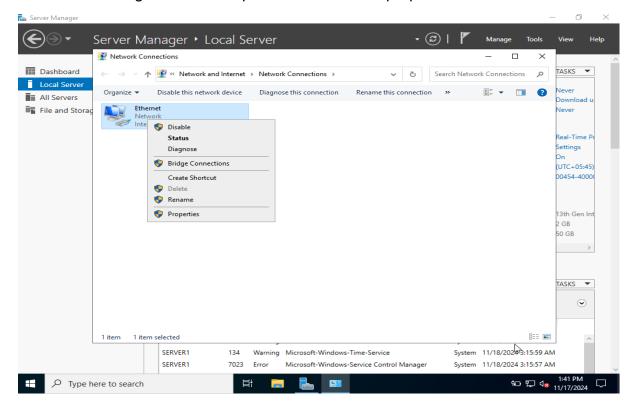


Figure 8: Selecting the properties

 Double click the properties windows IPv4 icon and this will open a new window to enter IP

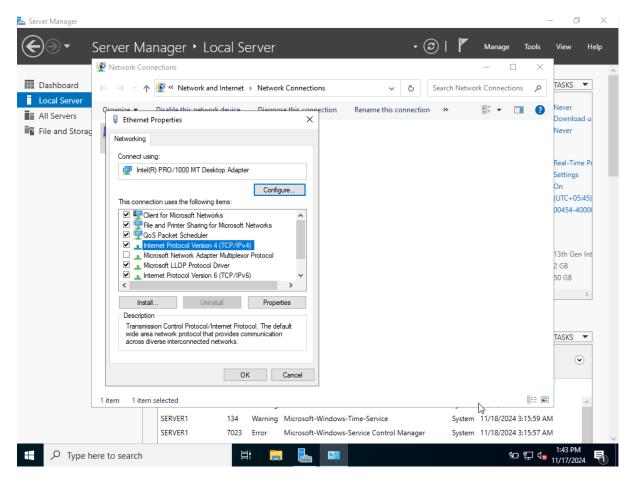


Figure 9: New window to enter IP

 Add the necessary details like gateway, primary and secondary DNS, IP address, and subnet mask.

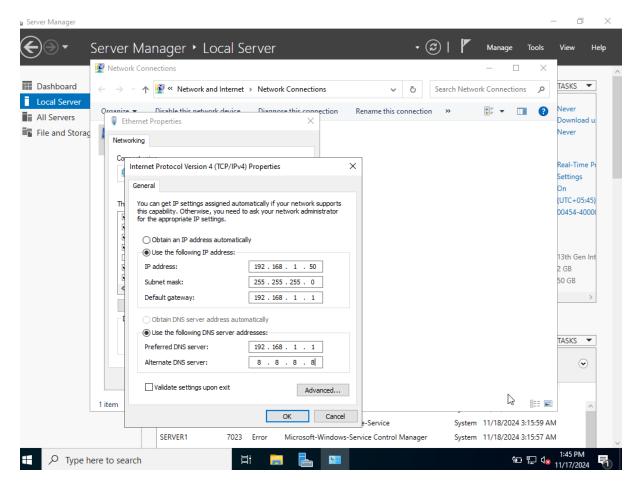


Figure 10: Adding required details including subnet mask

#### 2.4 Changing the time zone

In the server manager, choose the Time zone setting by clicking

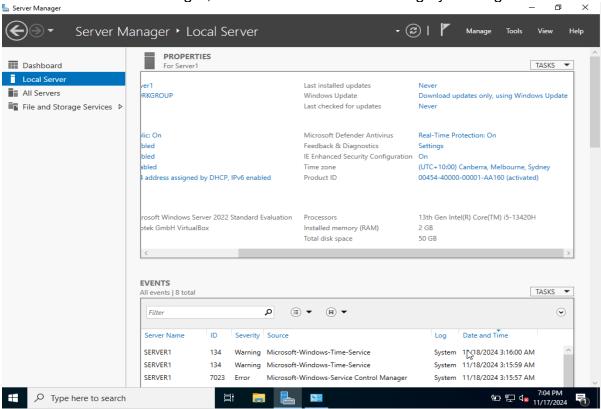


Figure 11: Choosing the time zone

• Select the button called Change Time Zone

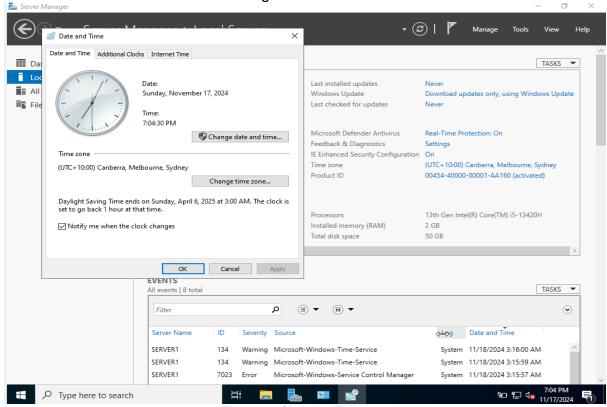


Figure 12: Changing Time zone

 Enter the suitable time zone from the drop-down options such as Kathmandu in Nepal.

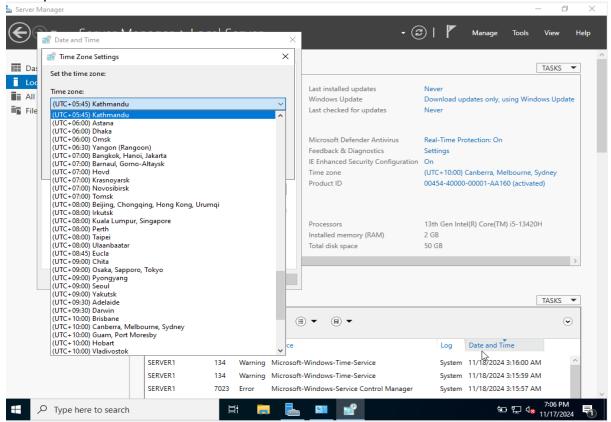


Figure 13: Entering the suitable time zone

At last, press the 'OK' button.

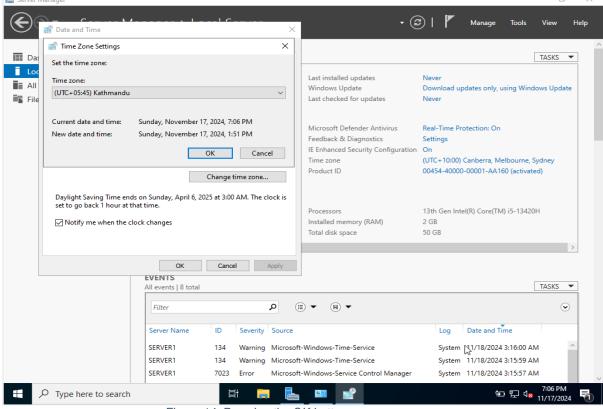


Figure 14: Pressing the OK button

#### 2.5 Turning Off IE Enhanced Security and searching for updates

- From the menu that appears, click the IE Enhanced Security button.
- The security setting is turned on by default.

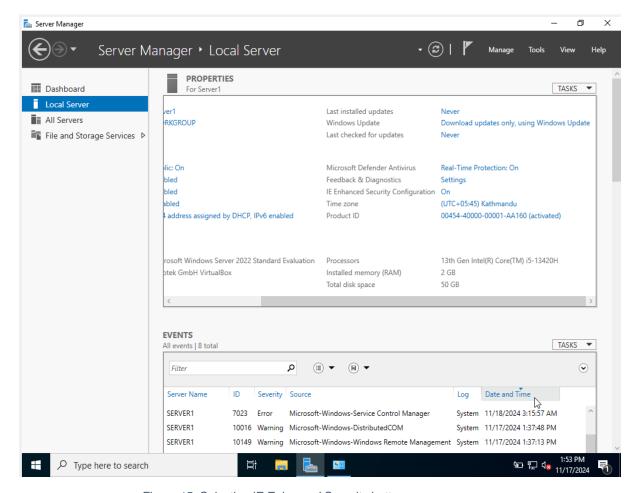


Figure 15: Selecting IE Enhanced Security button

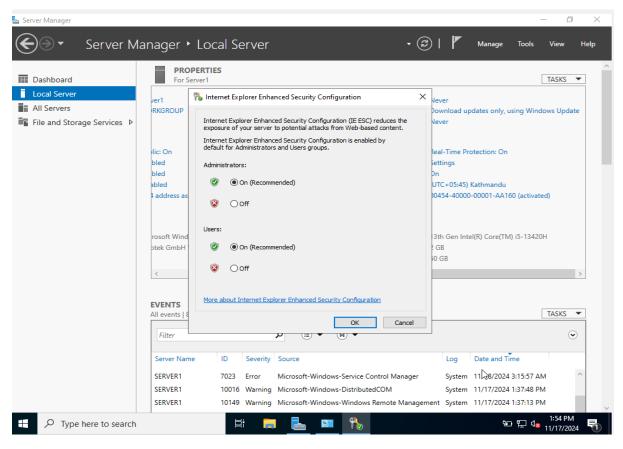


Figure 16: Security setting is turned on by default

Select OK to verify the action.

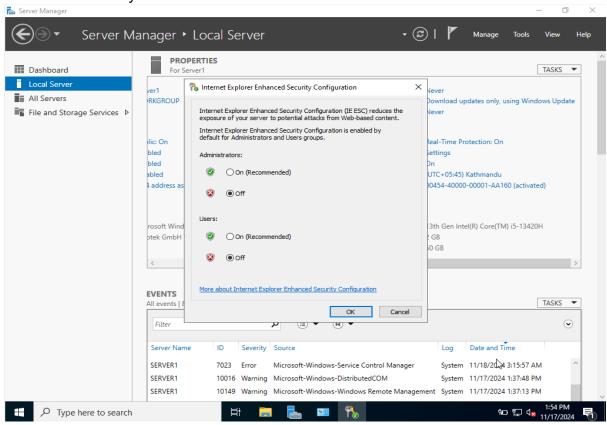


Figure 17: Selecting OK to confirm

• For new Windows Update to be downloaded and set up by itself, click updates and pick Check for updates.

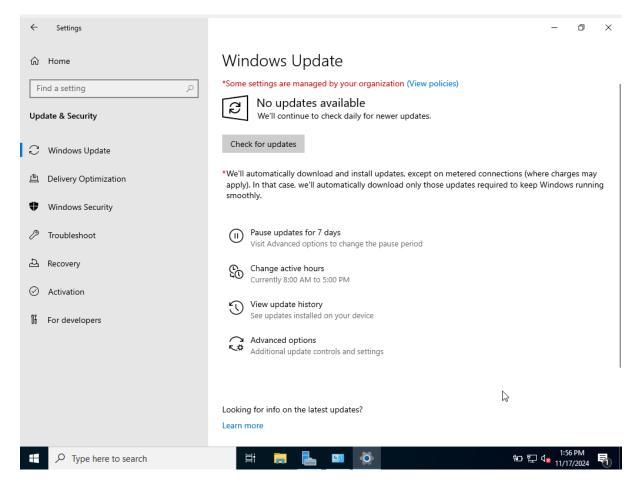


Figure 18: Checking for Updates

#### 2.6 Adding a New User using GUI method

 Select Computer Management from the list and then click tools from the toolbar at the top right of server manager.

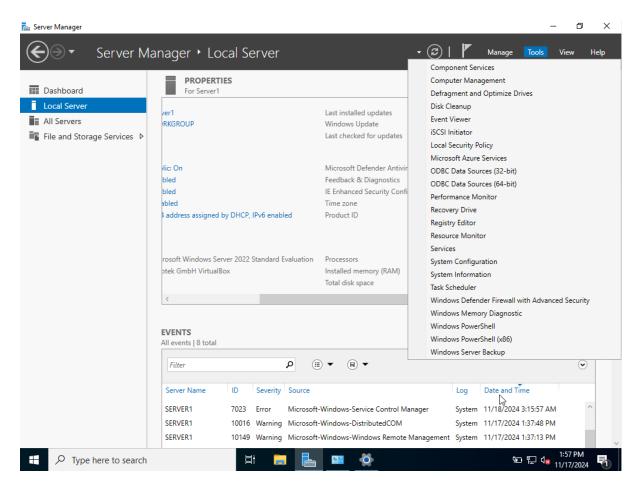


Figure 19: Selecting Computer Management from the list

Go to the local users and group from the panel on the left.

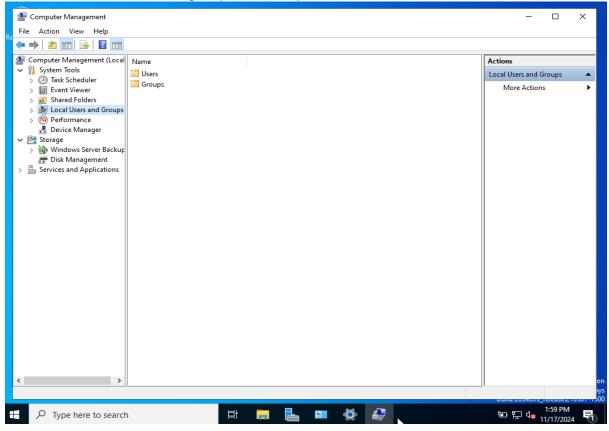


Figure 20: Clicking to local users and group

Select New User by right-clicking Users.

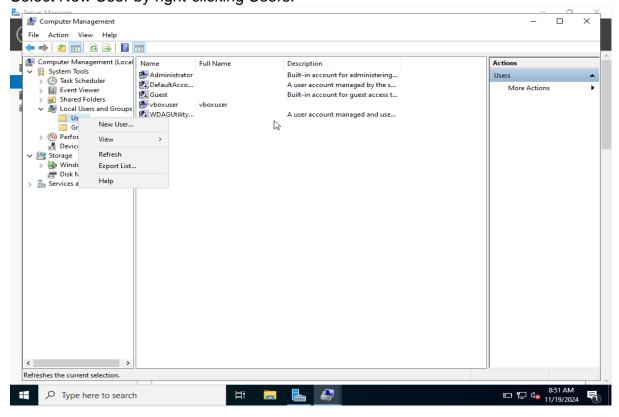


Figure 21: Selecting new user

Computer Management File Action View Help (n 🖒 🖒 🔁 🔐 🔯 🔁 📆 🜆 Computer Management (Local Name Actions Full Name System Tools

Task Scheduler Administrator Built-in account for administering... Users DefaultAcco... A user account managed by the s... More Actions Event Viewer **Guest** Built-in account for quest access t. > 👸 Shared Folders vboxuse Local Users and Groups WDAGUtility... Users User name: New User 1 Groups > N Performance New User ☐ Device Manager
✓ 📇 Storage New Test User Description Windows Server Backup ☐ Disk Management
 > ☐ Services and Applications Confirm password: User must change password at next logon User cannot change passy Account is disabled Help Create Close Type here to search © 및 4 8:52 AM

Select create button after providing the user information in the new window.

Figure 22: Providing user details

The new user will be added successfully.

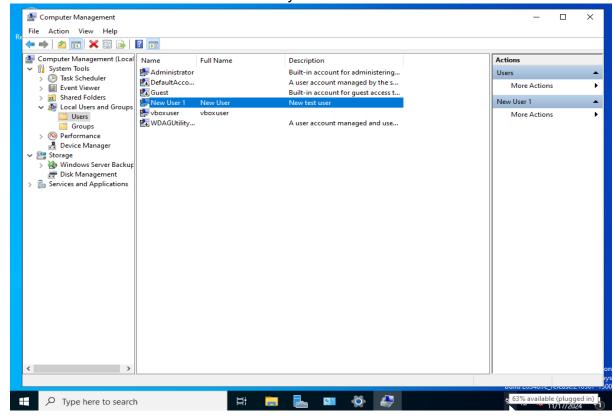


Figure 23:New user added successfully

#### 2.7 Using power shell to add a new user.

• Run power shell on Windows as an administrator.

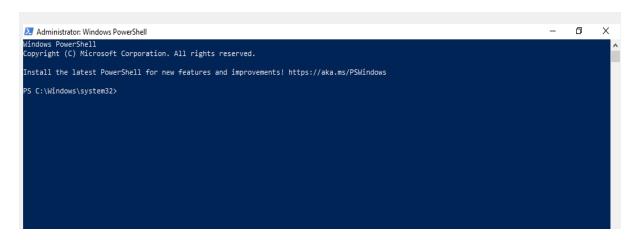


Figure 24: Running power shell as administrator

In order to see all of the users, enter 'get-localuser' command.

```
Administrator Windows PowerShell

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Install the latest PowerShell for new features and improvements! https://aka.ms/PSWindows

PS C:\Windows\system32>
```

Figure 25: Entering the command to see all user

• Enter "new-localuser -name 'username' -description 'description' -password 'password'" command in order to start new user. In this scenario, no password is provided.

Figure 26: Entering command to start a new user

The new user is added successfully.

```
Administrator: Windows PowerShell

Aindows PowerShell
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Install the latest PowerShell for new features and improvements! https://aka.ms/PSWindows

PS C:\Windows\system32>
```

Figure 27: New user added successfully

• In comparison to GUI, users need to be frequently added to the group from the Shell and they are not added instantly. The command is "add-localgroupmember -group 'groupname' -member 'username'".

Figure 28: Entering command for local group member

#### 2.8 Removing a User

• The command for removing user from the Shell is "remove-localuser -name 'username'". Removing user is very easy task to do.

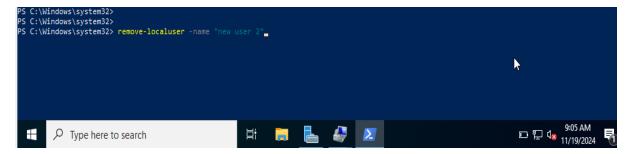


Figure 29: Inserting command for remove user

Checking and confirming that the user is removed

Figure 30: Verifying user is removed

#### 2.9 Using variables as securestring to store password

In power shell, a securestring is a specific variable that is created to store a
password safely. The command is \$variable -read-host -assecurestring.

Figure 31: Entering command to store a password

 Enter a password, when it is necessary. Make sure that password must holds both alpha numeric and symbolic like Tr@vel2024!

```
PS C:\Windows\system32> $password = read-host -assecurestring

*********

PS C:\Windows\system32> new-localuser -name "new user 3" -password $password -description "This is new user 3"
```

Figure 32: Entering password including alpha numeric and symbolic

Create a new user by providing variable as password.

Figure 33: Creating a new user

Create a new user by using variable as password that was already saved.

Figure 34: Create a new user by using variable as password

#### 3. References

Held, G. (2000). Server Management. London, England: CRC Press.

Held, G. (2000). Server Management. London, England.: CRC Press.

#### 4. Conclusion

In the case of stable and efficient IT services, server manager is very important feature. Even though server manager has become more simple and faster by suing the modern tools, there still remains problems which includes expensive costs, hard to maintain, and the demand for trained employees. Companies may handle difficulties while making sure that their server work securely without any risk. We can achieve this by being creative and investing in the correct devices and policies.