**LONDON METROPOLITAN UNIVERSITY**

**islington college**
(इस्लिङ्टन कलेज)

**Module Code & Module Title**

**Level 5 – Operating Systems**

**Assessment Type**

**Logbook 3**

**Semester**

**2024 Autumn**

**Student Name: Bibhuti Sigdel**

**London Met ID: 23047458**

**College ID: np01nt4a230128**

**Assignment Due Date: Thursday, November 21, 2024**

**Assignment Submission Date: Wednesday, November 20, 2024**

**Submitted To: Sarika Dahal**

**Word Count (Where Required):818**

*I confirm that I understand my coursework needs to be submitted online via MST 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.*

Table of Contents

Table of Figures

## 1. Server Manager

### 1.1. Aim

This report provides a complete, step-by-step guidance to common server management activities, such as renaming the server, turning on remote desktop access, setting up a static IP address, changing the time zone, turning off Internet Explorer Enhanced Security, and updating the system. Adding users using the command shell and graphical user interface, deleting users, and safely saving passwords as encrypted strings are all covered. Enhancing the security, dependability, performance, and general management of servers is the goal of these guidelines.

### 1.2. Objectives

- To change the server name
- To enable remote desktop
- Configure static IP addresses
- Change the time zone
- Turn off Internet Explore Enhanced Security
- Check for updates
- Add and remove users
- Securely store passwords using encrypted variable strings.
- Increase the server's security
- Boost the reliability of server operations.
- Enhance server performance and features.
- Optimize server management for greater efficiency.

### 1.3. Required tools

- **Oracle VirtualBox :** Virtual Box enables users to install and run different operating systems simultaneously on their computers by allowing them

to create and run virtual machines. This is extremely useful for software testing, trying out various configurations, and securing environments by separating them. (Archlinux, 2024)



Figure 1: Oracle VirtualBox

- **Microsoft :** Microsoft Word is a word processing program that may be used to create simple and intricate documents. With Office 365, you may download the program to your hard drive and see it online. (geeksforgeeks, 2021)



Figure 2 : MS Word

- Snipping tool : Snipping tools are software used to take screenshots or capture specific areas of a computer screen. They are useful for sharing information, creating documentation, and generating visual content.



Figure 3 : Snipping tool

- MST : With features like interactive videos, diagnostic reports, test papers, and tutor support, all accessible through a straightforward website login, Innovate Tech's e-learning platform, "My Second Teacher," seeks to revolutionize Nepal's educational system.



Figure 4 :  MST

## 1.4.   Steps required for lab

**Sep 1 :** Open window's server 2022 , from dashboard go to local server
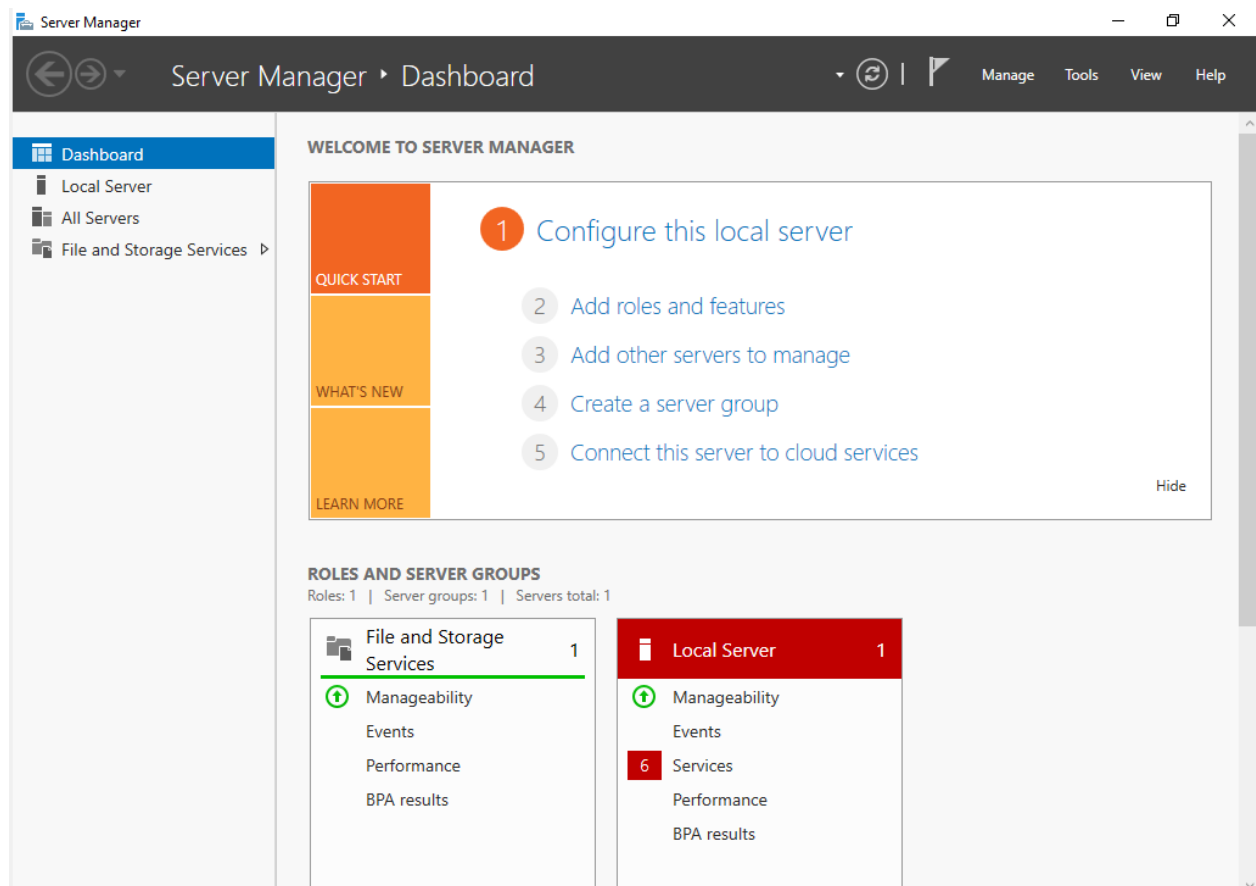


Figure 5: Window's server dashboard

**Step 2 :** Changing computer name as Bibhuti.
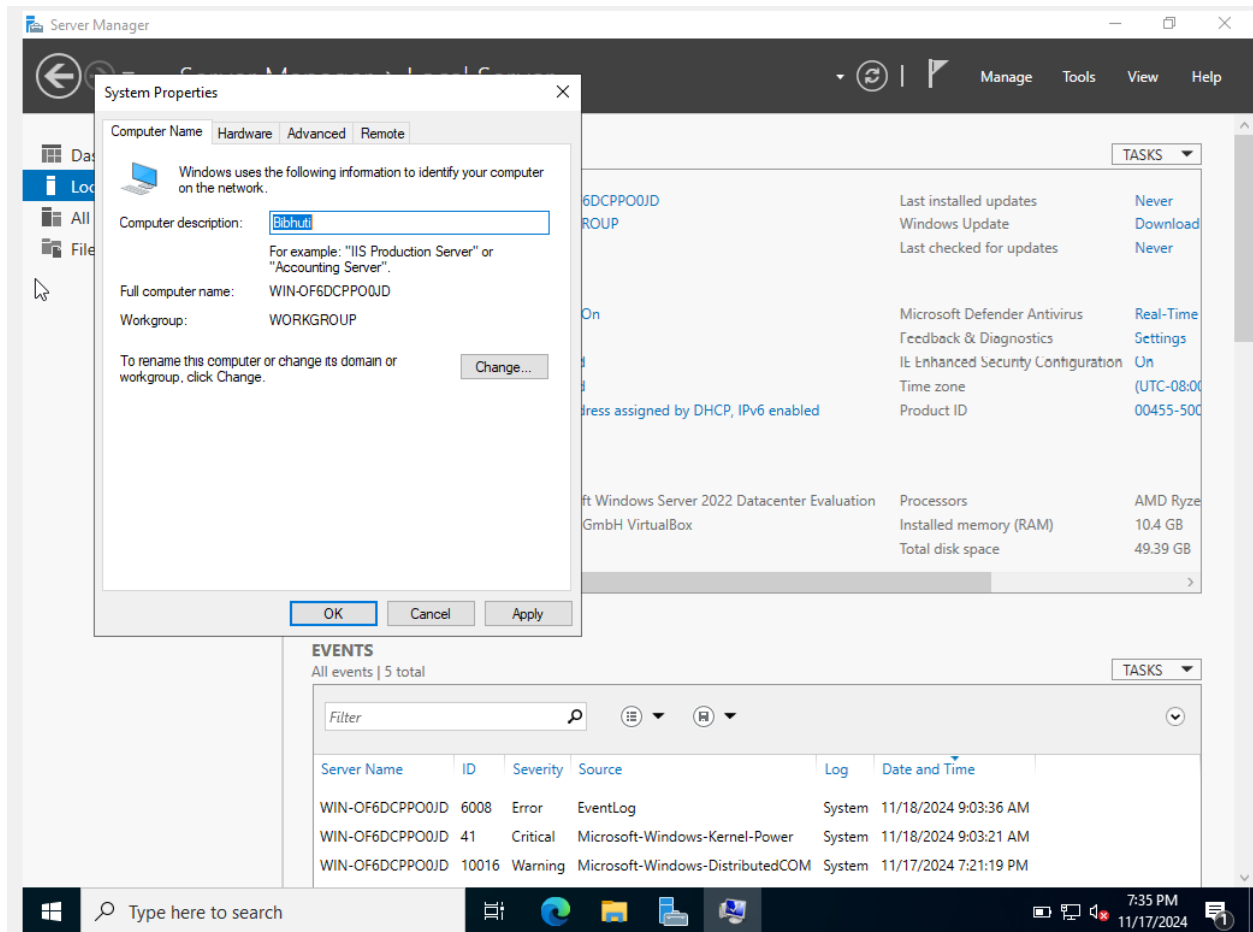


Figure 6 : Changing server name

**Step 3 :** Click on remote desktop and allow remote connection to this computer.
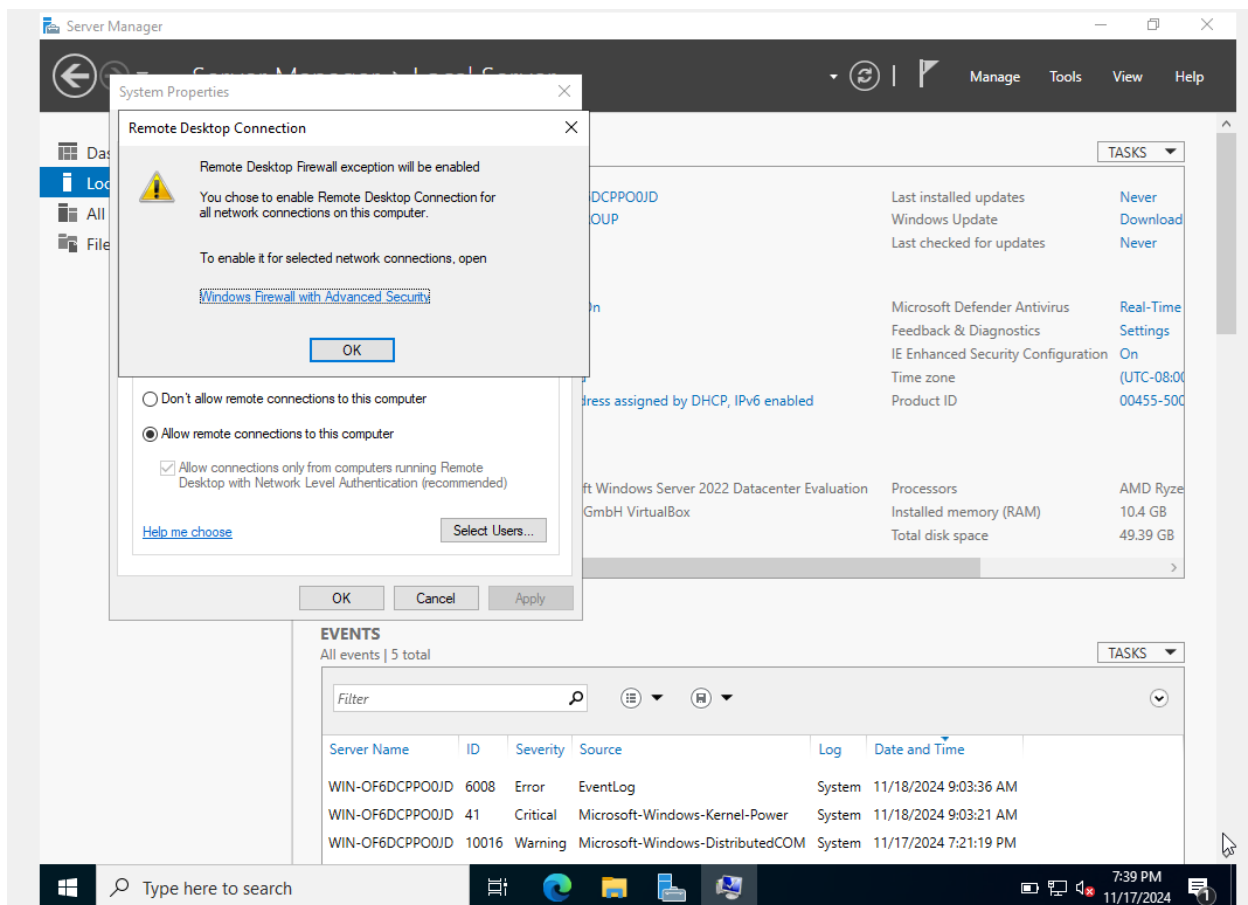


Figure 7 : Enabling remote desktop

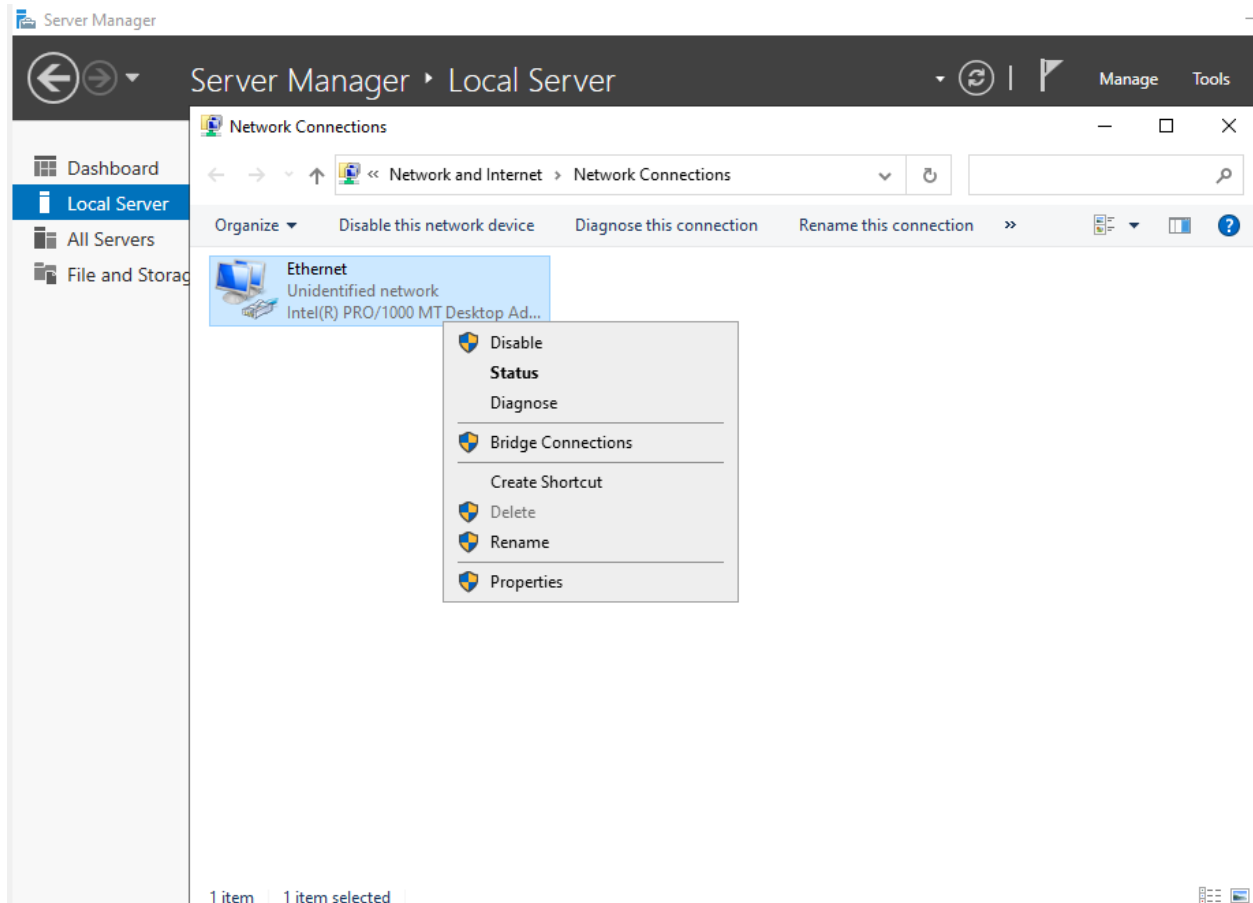**Step 4 :** Go to ethernet and to properties , select internet protocol version 4 , configure ip manually.
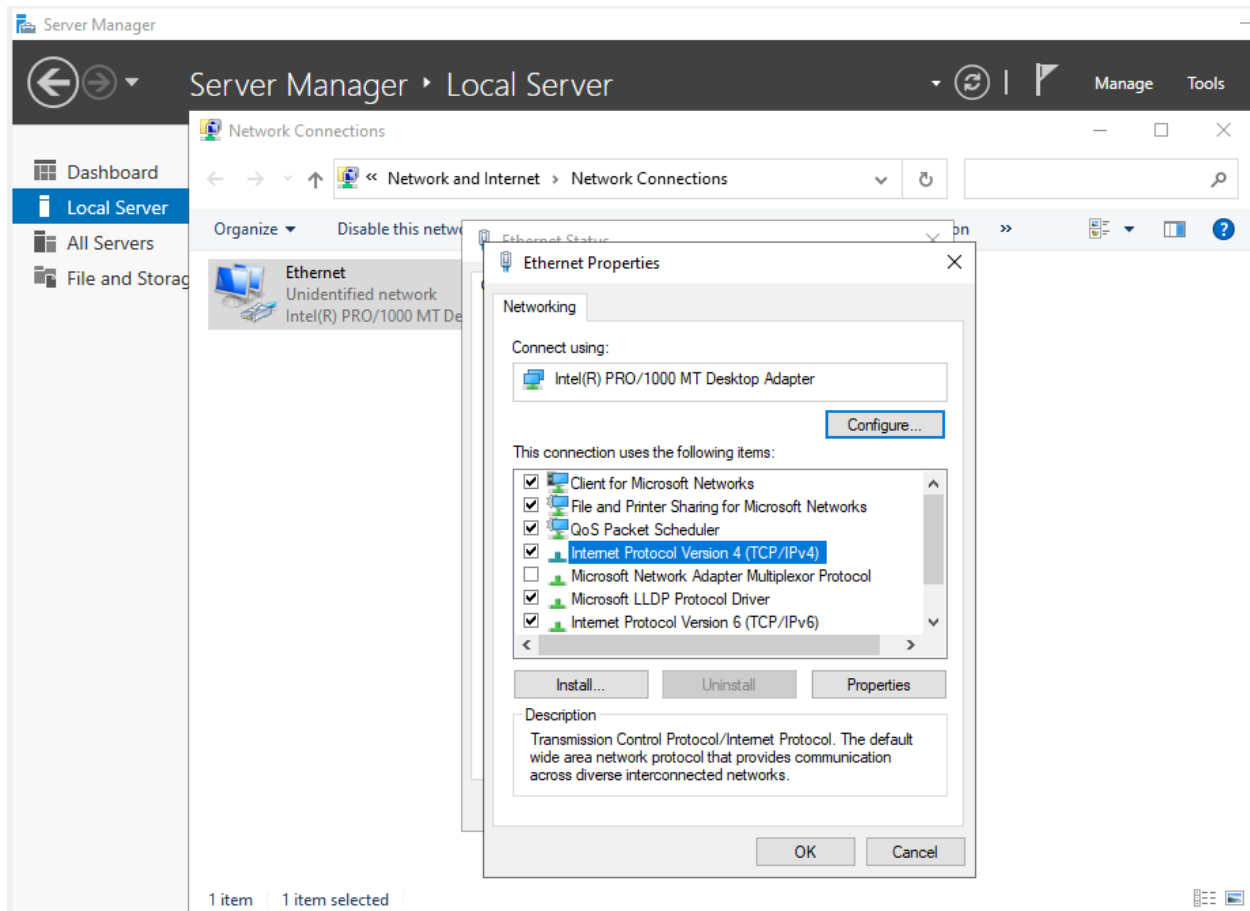


Figure 8: Go to ethernet and properties

Figure 9:Selecting Internet protocol version 4
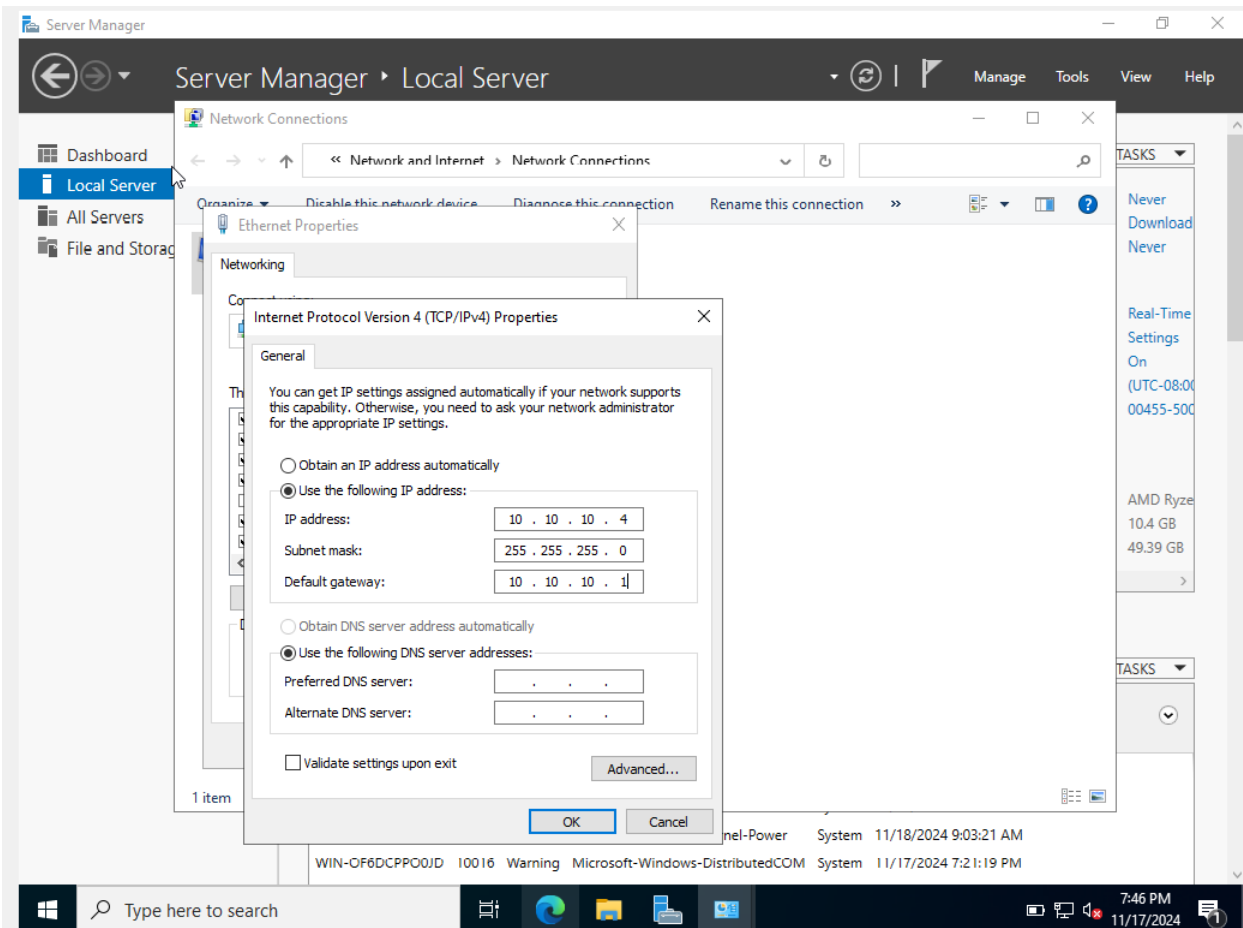
Figure 10 : Configuring Static IP address

**Step 5:** Changing the time zone to Kathmandu
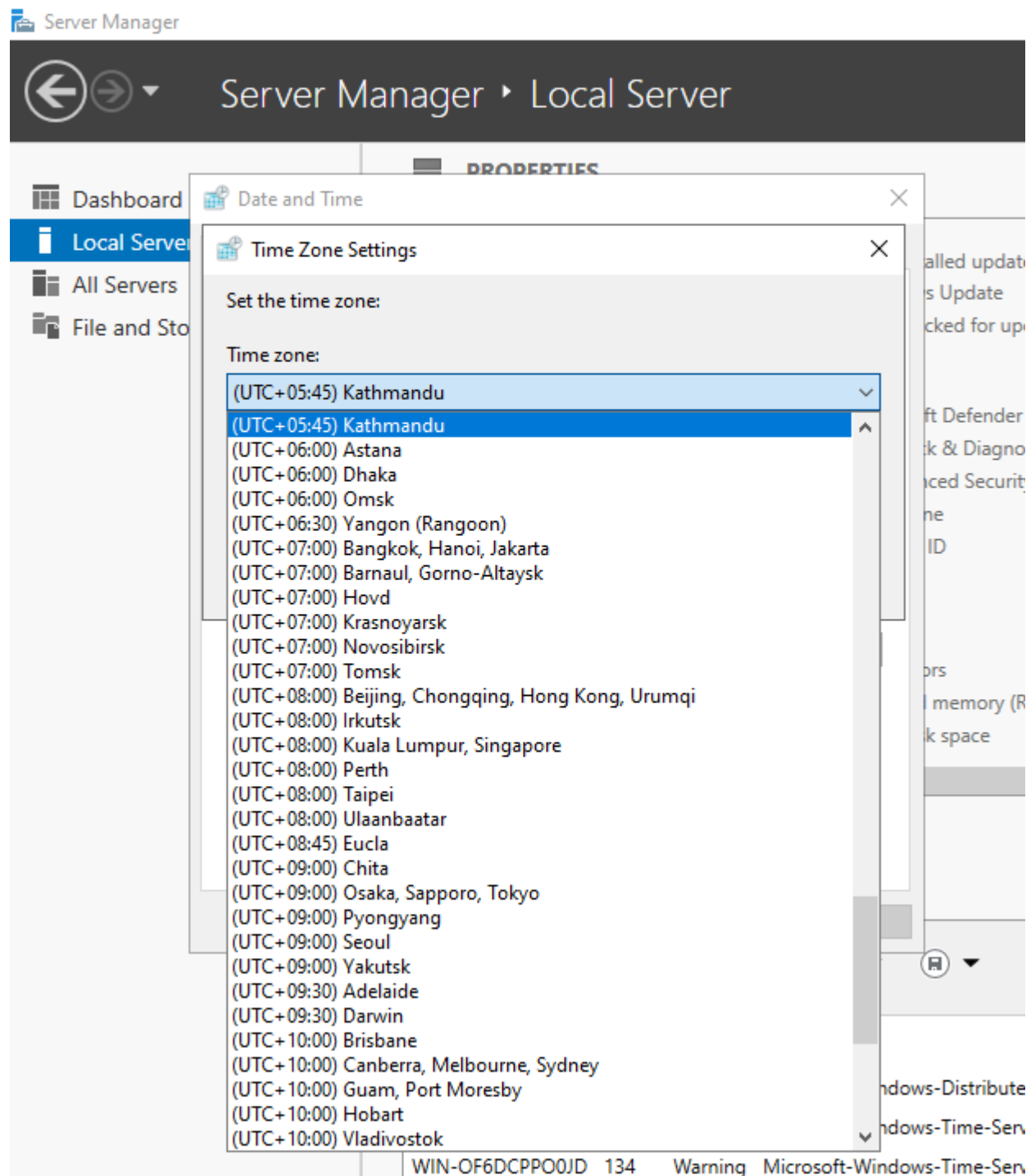


Figure 11: Selecting time zone
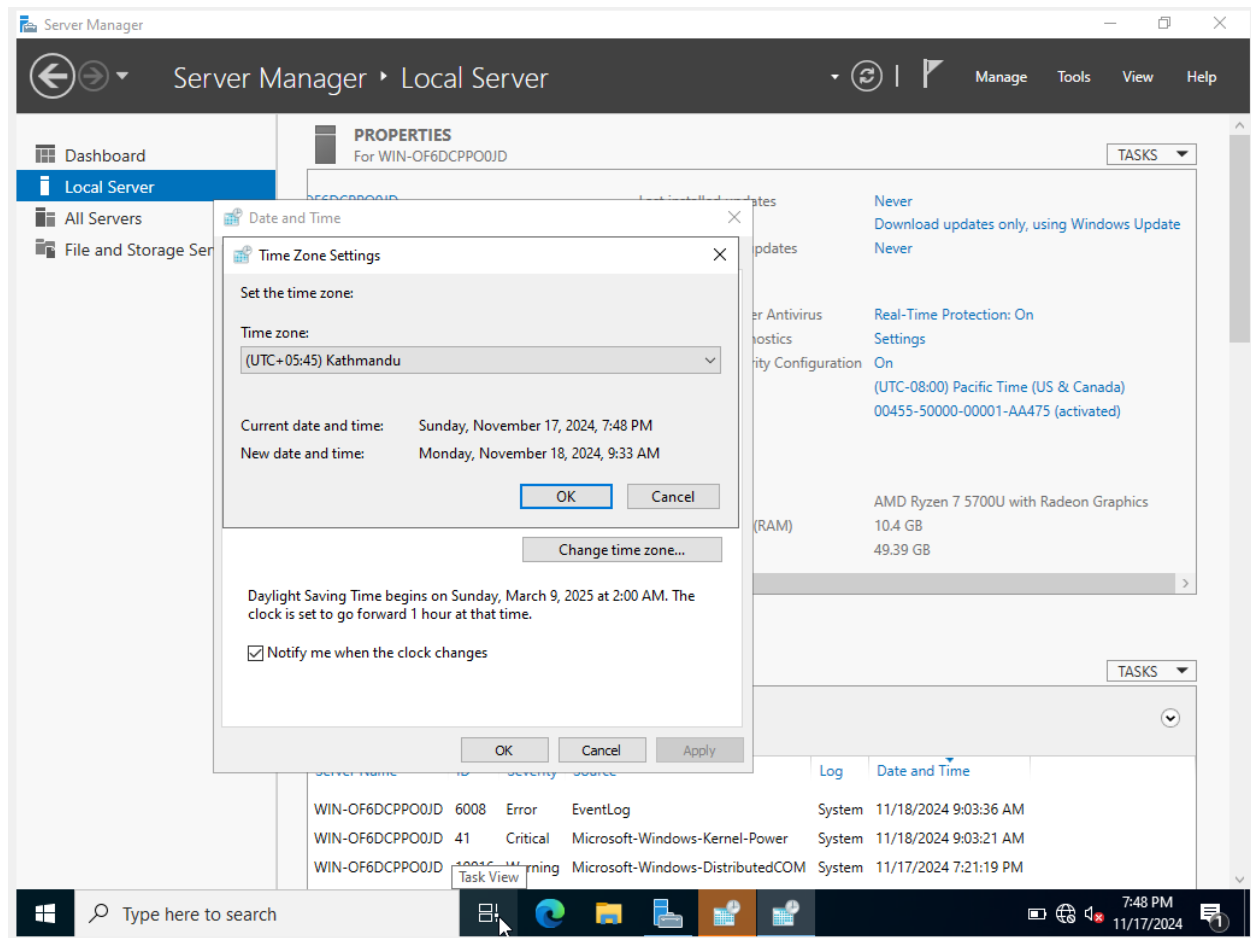
Figure 12: Click ok to set time zone

**Step 6 :** Turn off Internet Explore Enhanced Security
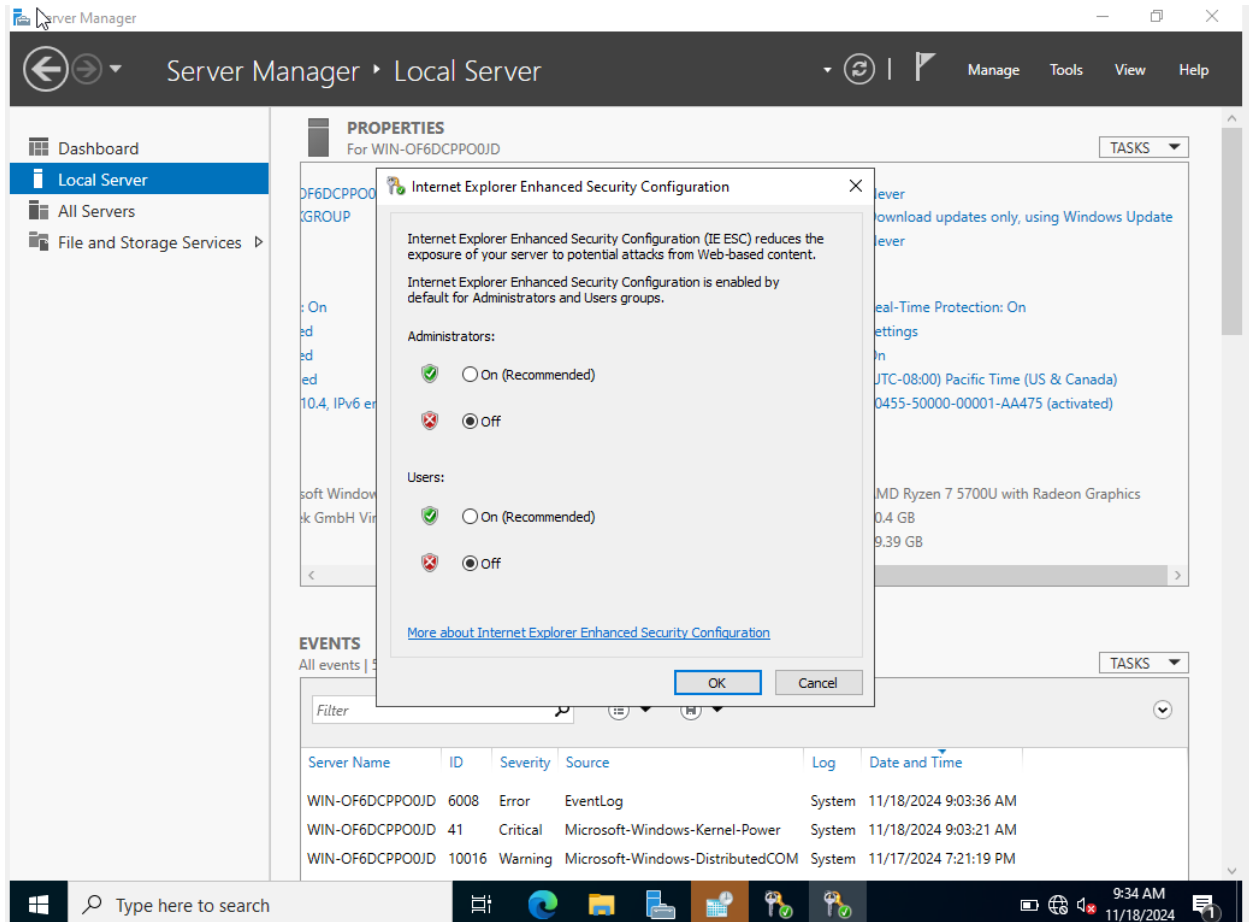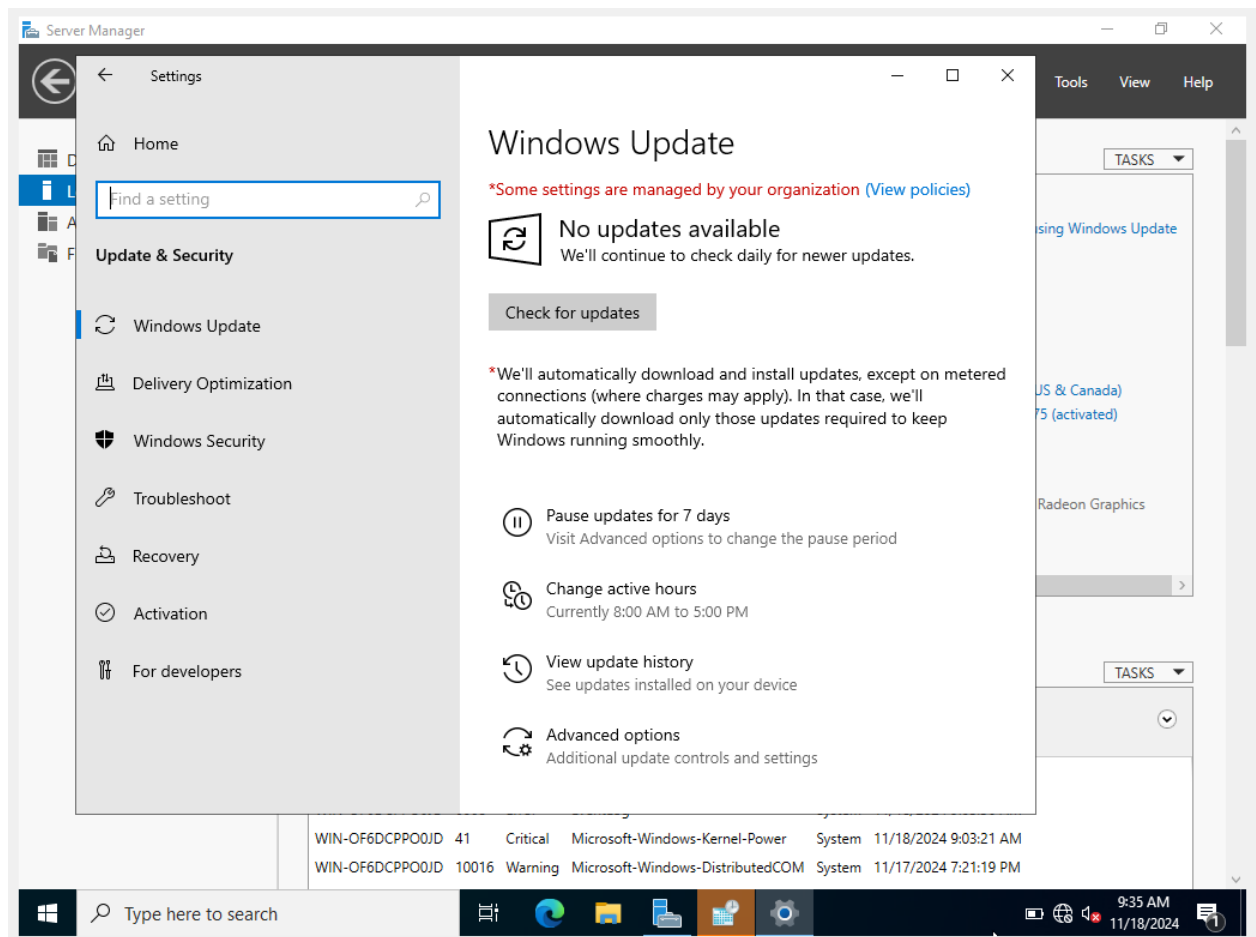


Figure 13 : Turning off Internet Explore Enhanced Security

**Step 7 :** Checking for updates



Figure 14 : Checking window's update

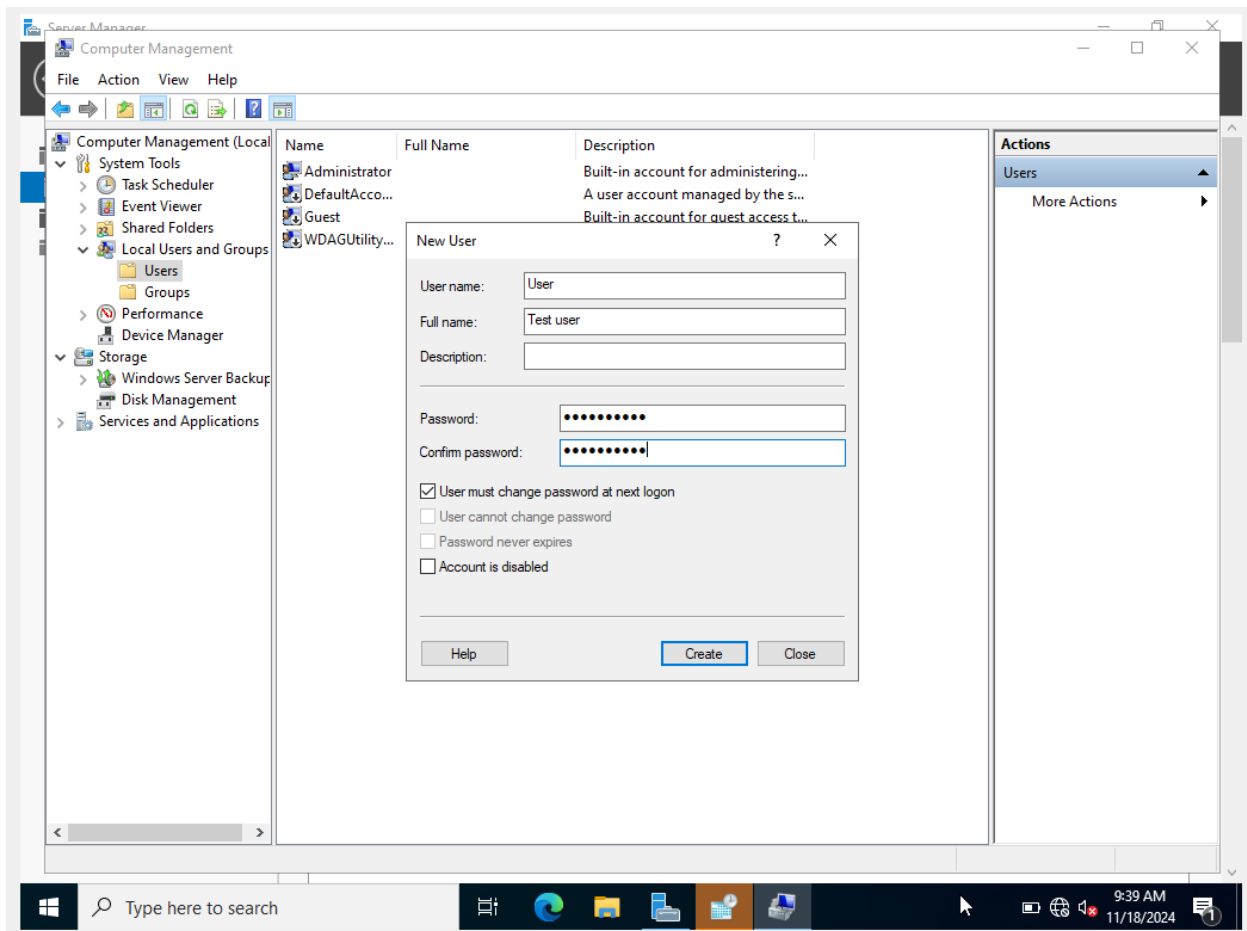**Step 8 :** Go to local user and group , and to user then to new users and add user in GUI
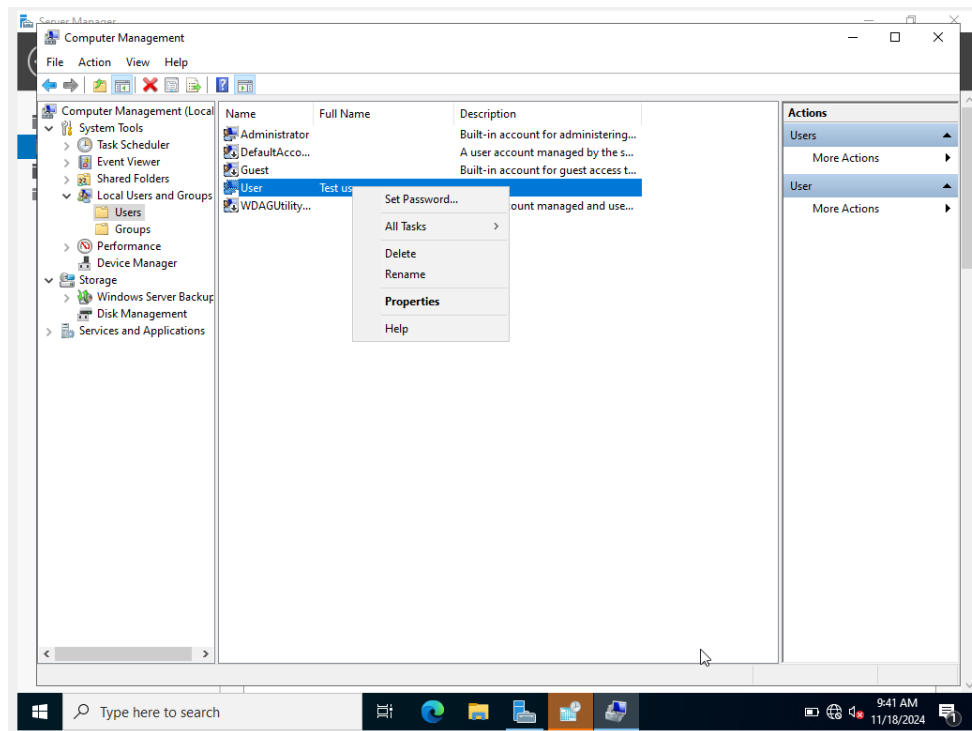


Figure 15 : Adding user in GUI

**Step 9 :** Deleting User in GUI
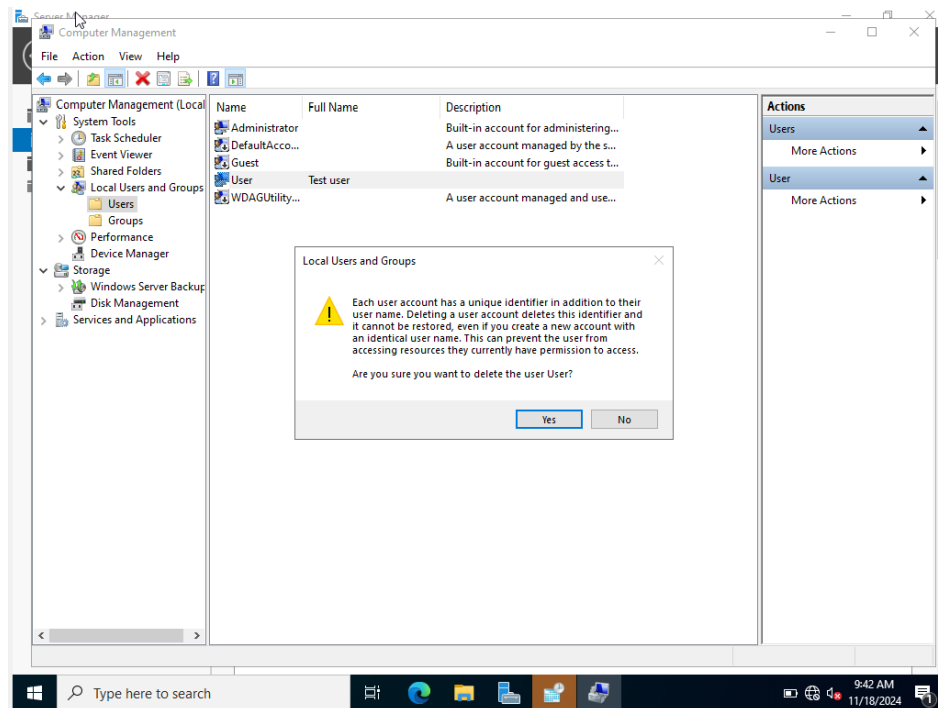


Figure 16 : Deleting user in GUI

Figure 17 : Click ok to delete

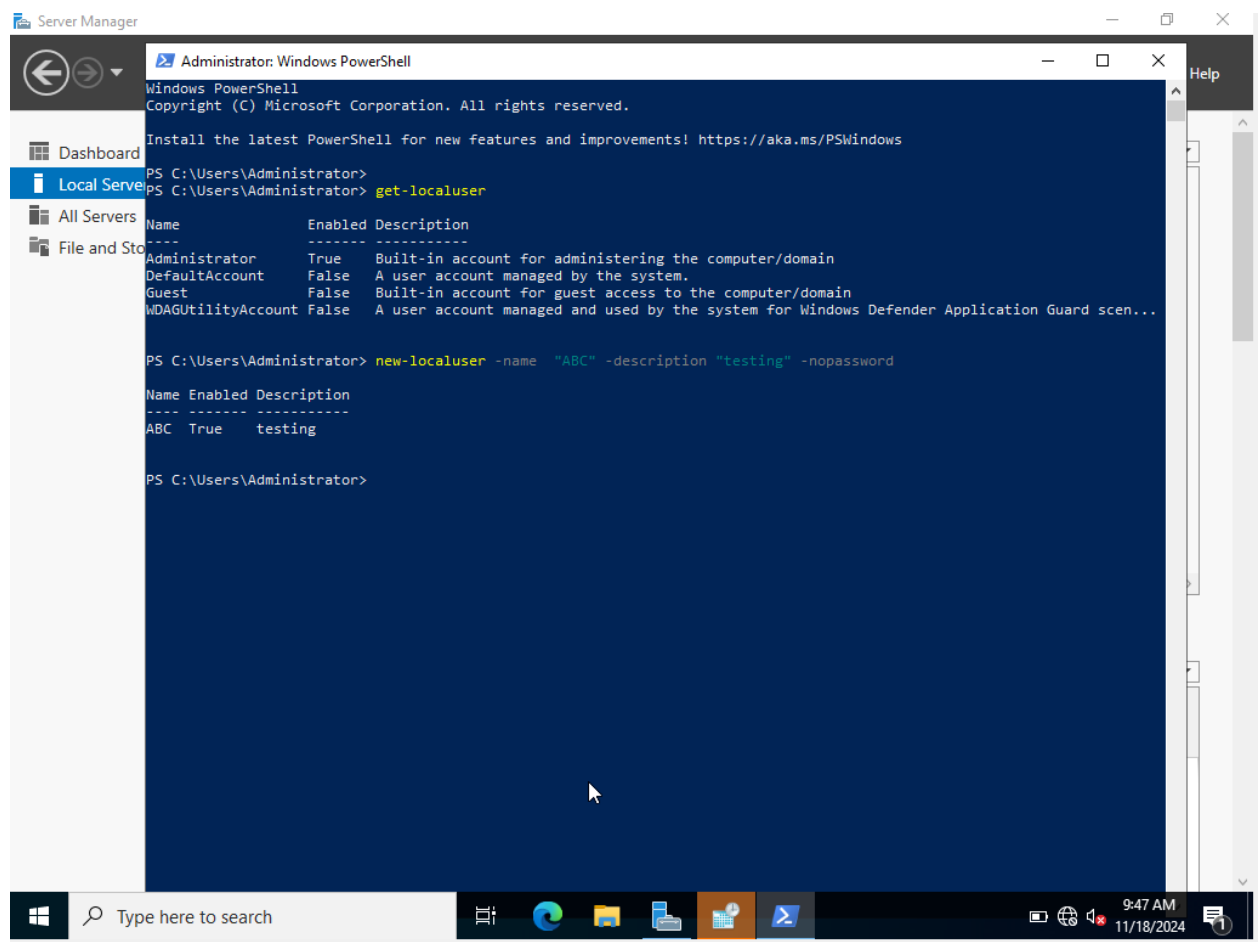**Step 10 :** Go to powershell from command "get-localuser" view lacal user



Figure 18 : Adding user in powershell

**Step 11 :** Creating user when no password is given using command "new-localuser -name "ABC" -description "testing" -nopassword".
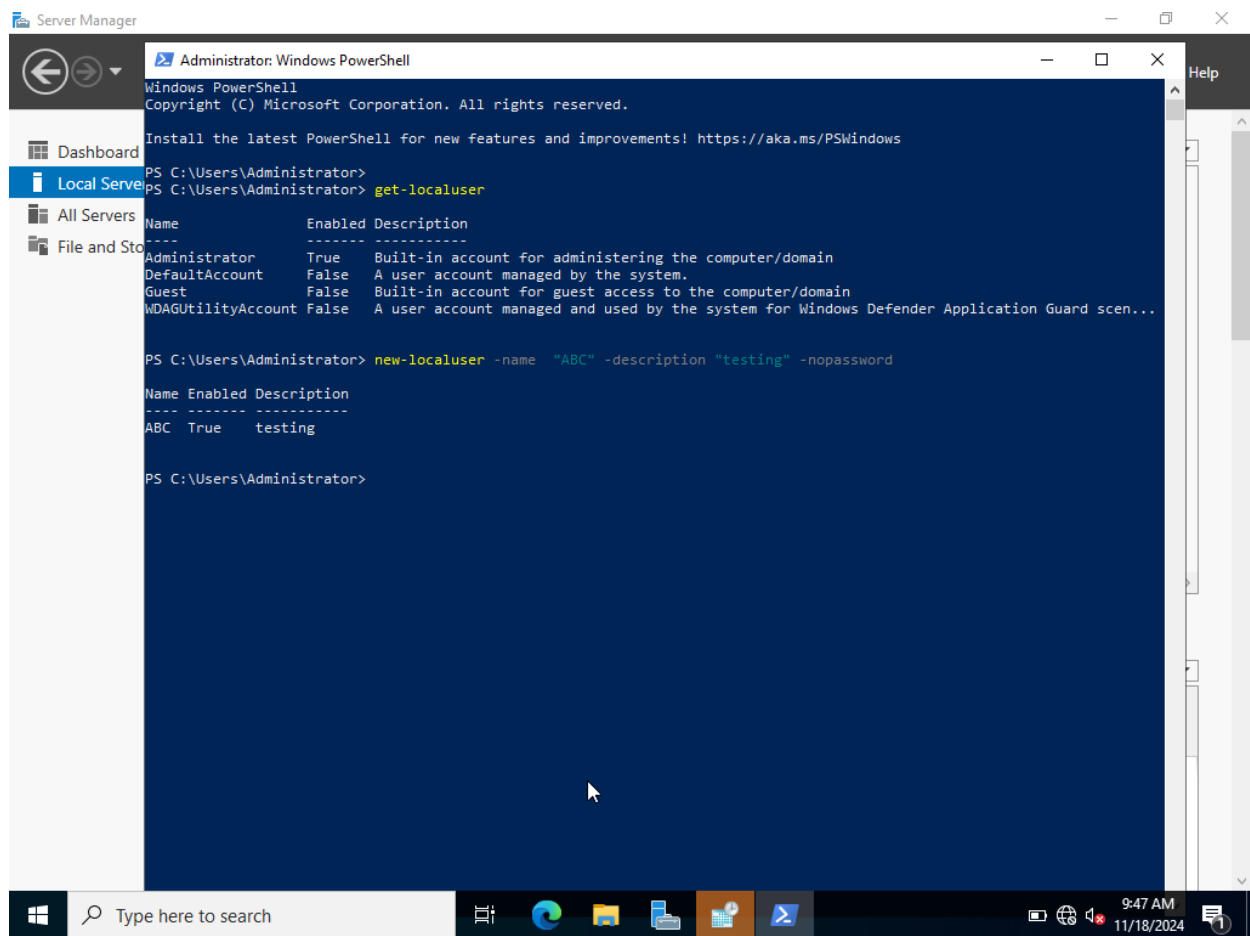


Figure 19 : Creating user user without password

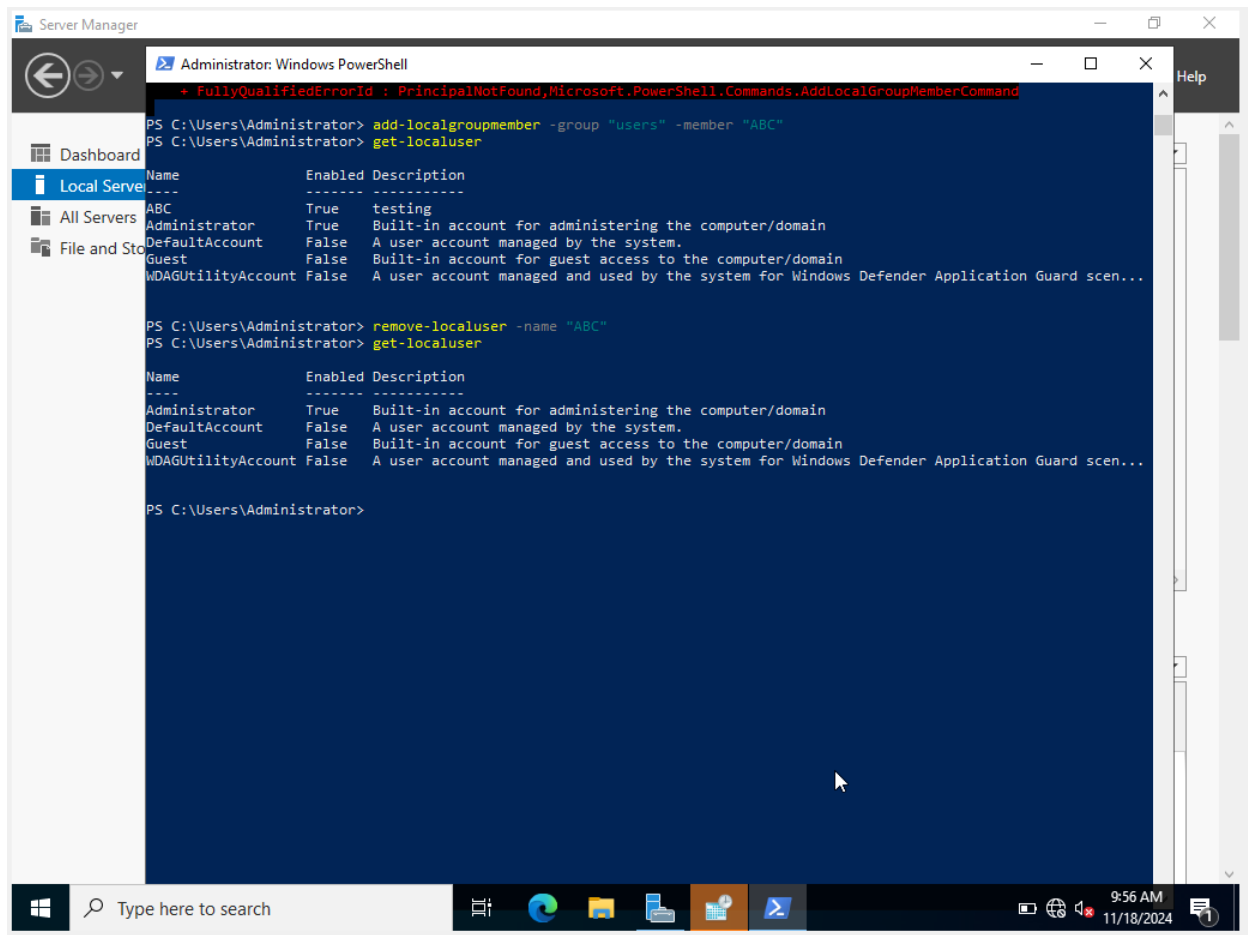**Step 12 :** Removing User using command "remove-localuser -name "ABC" " and viewing local user



Figure 20 : Removing user

**Step 13 :** Storing password using variable assecurestring from command " $password = read-host -assecurestring"



Figure 21 : Storing password using securestring
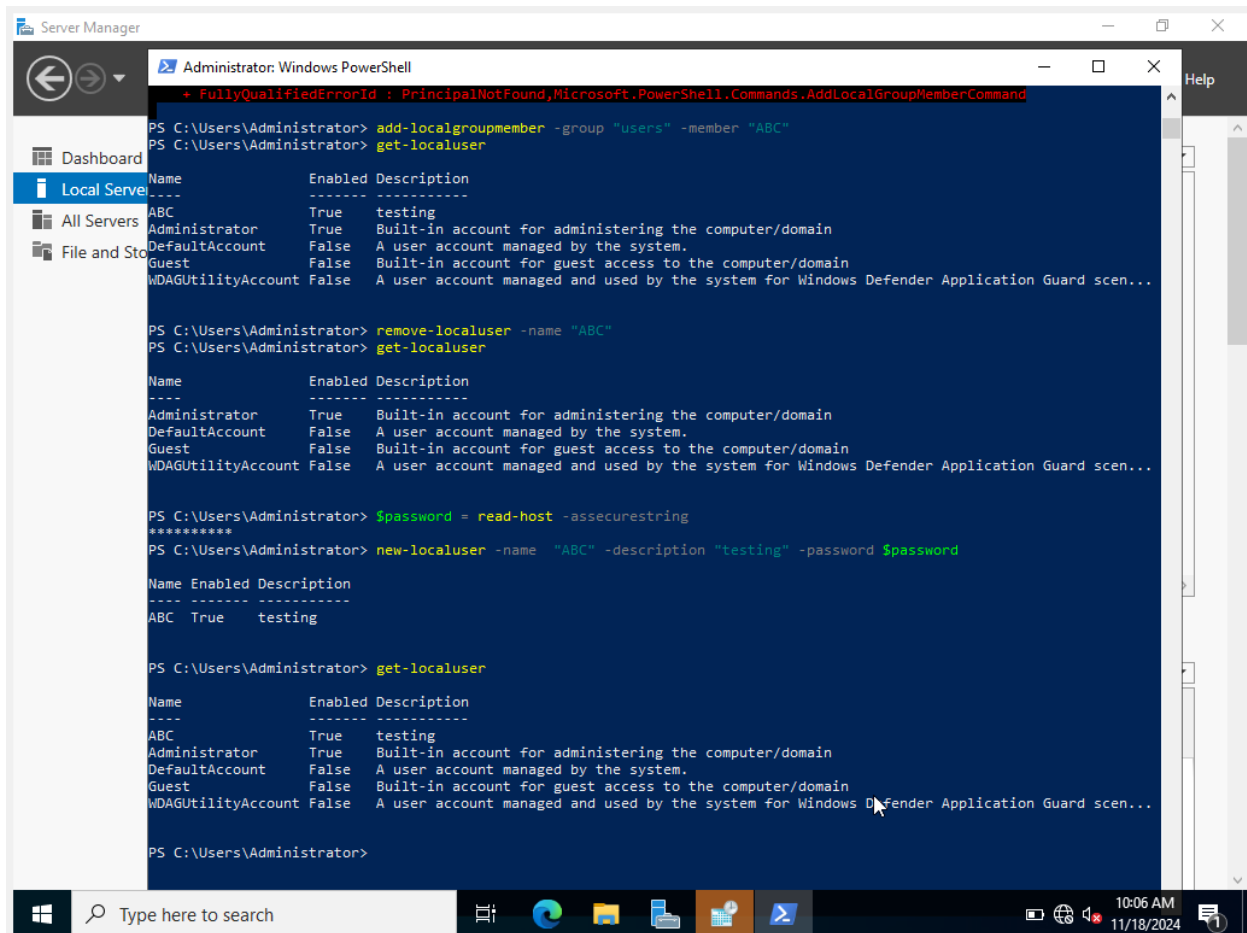
Step 14 : Creating new user using the same password



Figure 22:Creating new user with password.

## 2. Conclusion

In conclusion key server administration techniques highlighted in this research are intended to improve servers' overall performance, security, and dependability while streamlining administrative procedures. Users can efficiently complete important operations including renaming the server, turning on remote desktop, setting up static IP addresses, controlling user accounts, and safely handling sensitive data by following the instructions.

Additionally, the capacity of programs like Microsoft Word and Oracle VirtualBox to support safe, flexible settings and enable comprehensive documentation has been highlighted. Administrators may optimise server operations and make sure their infrastructure is prepared to handle present and future IT needs by putting these suggestions into practice.

## 3. Reference

Archlinux. (2024, october 13). *Archlinux.* Retrieved from Archlinux: https://wiki.archlinux.org/title/VirtualBox

geeksforgeeks. (2021, june 31). *geeksforgeeks.* Retrieved from geeksforgeeks: https://www.geeksforgeeks.org/introduction-to-microsoft-word/