



Module Code & Module Title

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Introduction

Windows Server is a operating system developed by Microsoft providing server level administrations with powerful tools to manage server infrastructure. Microsoft Windows Server 2022 is equipped with Graphical User interface in server management service which earlier versions like Windows server 2008 were lacking, such as configuring server settings, managing roles, and monitoring performance. (Microsoft, 2022) Microsoft Windows Server is widely used server operating system being compatible, secure, robust support.

Microsoft Windows Server has evolved through different phases of development with growing in the IT industry and its infrastructure. (Microsoft, learn microsoft, n.d.) Windows server has centralized management system for server management in GUI format to simplfy the task of management. The new release also provides secured connectivity that introduces several new capabilities such as faster and more secure encrypted HTTPS connections, industry standard SMB AES 256 encryption and more.

Server management systems are developed by many companies but Windows server by Microsoft has wide support and Microsoft own cloud platform as "Azure" so they have a wide range of services so the system integration with other microsoft products will be easy. Other companies offer some server operating systems eg: Red Hat Enterprise Linux(RHEL), Mac OS X server, CentOS.

Here in this log we are installing windows server 2022 through UTM, emulating a virtual machine in the previous log. Microsoft has been developing windows server on security, data integrity, cloud performance, compatibility. This log outlines the post-installation configuration steps, focusing on crucial server setup tasks like renaming the server, enabling Remote Desktop, configuring a static IP address, and managing users.

Objective

This log reports the documentation processes of configuring Windows Server 2022 using

Server Manager and PowerShell. Windows Server 2022 has been installed in our local

device by virtualization technology using hypervisors like Vmware, UTM, etc. Through the

use of a virtual machine we installed windows server in the previous log, here we are

introduced to the concept of server management. The goal is to ensure the server is

correctly configured and ready for operational use.

Required Tools and Concepts

Hardware Requirements

o 1.4 GHz 64-bit processor

o 2GB for server with Desktop Experience, 4GB recommended

o 32GB minimum storage

Software Requirements

o Windows 10 recommended, Mac OS, Linux

o Virtualbox, Parallel Desktop, Vmbox, UTM, etc.

o Windows Server 2022(iso file)

Concepts

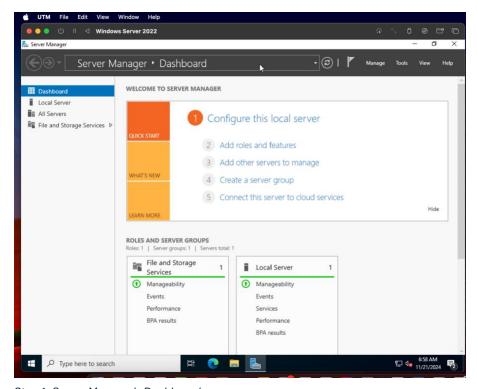
Server Manager: A GUI tool for managing server configurations.

PowerShell: A command-line shell and scripting language for task automation.

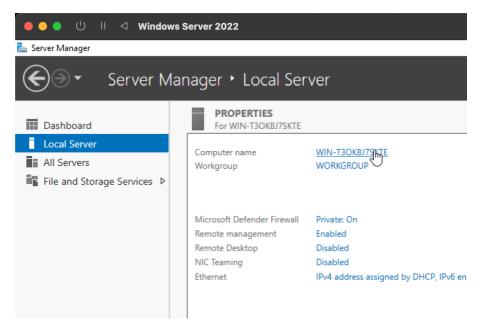
Static IP Addressing: Manually configuring a fixed IP address.

4

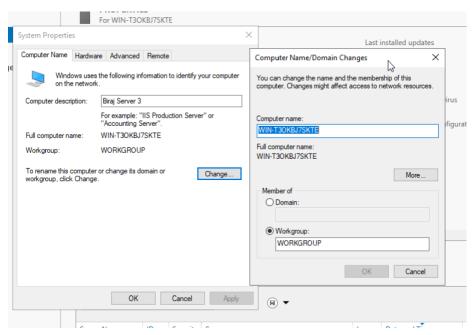
Steps to replicate



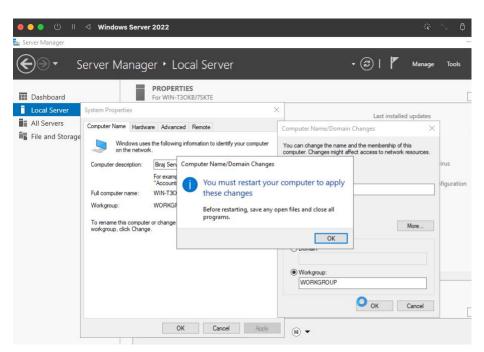
Step 1: Server Manager's Dashboard



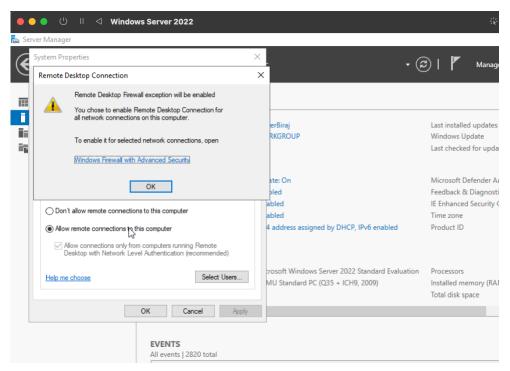
Step 2: Go to Local Server and Click on comupter name to change



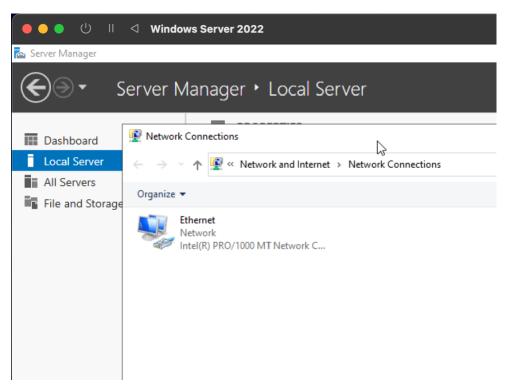
Step 3: Click on change, a new dialouge box appears to enter new name



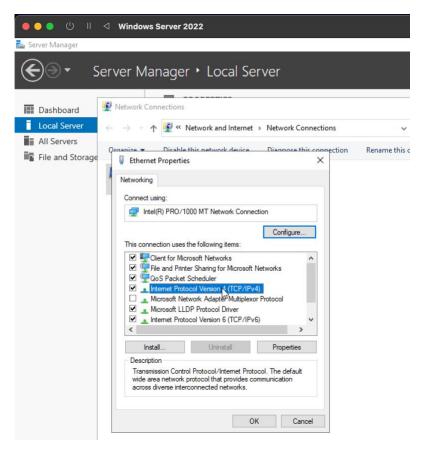
Step 4: restart the computer to take effect on changes made



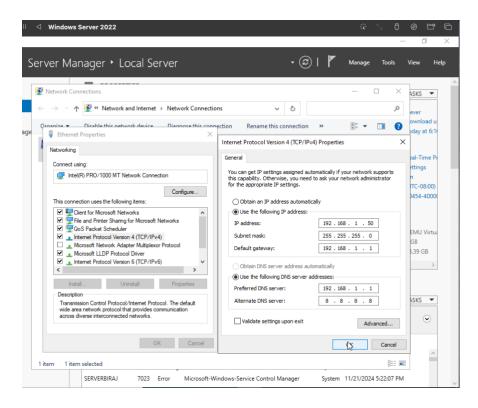
Step 5: from the previous dialouge box, go to Remote tab to allow remote connection on the server



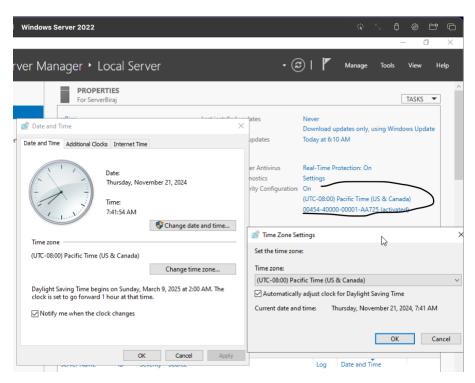
Step 6: Go to Network and Connections interface



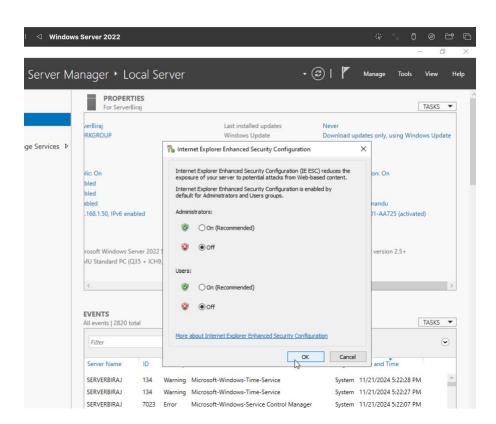
Step 8: Find Internet Protocol Version and click on its properties



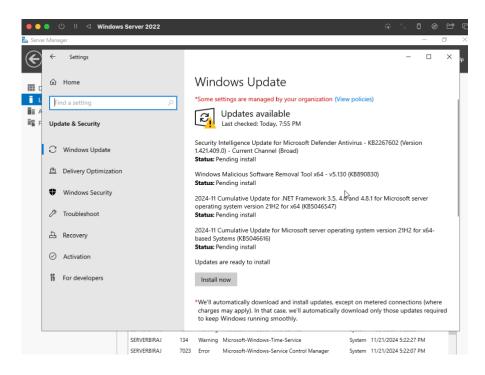
Step 7: Set new static IP address



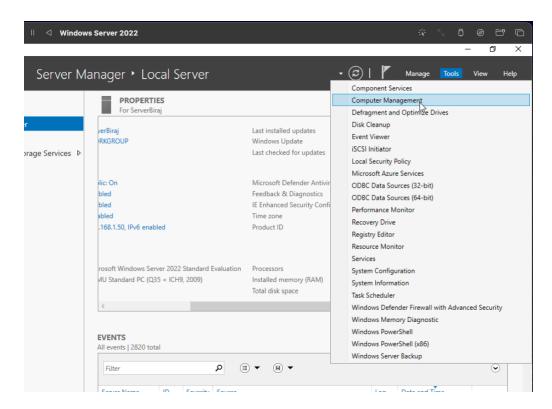
Step 10: Change the time zone settings



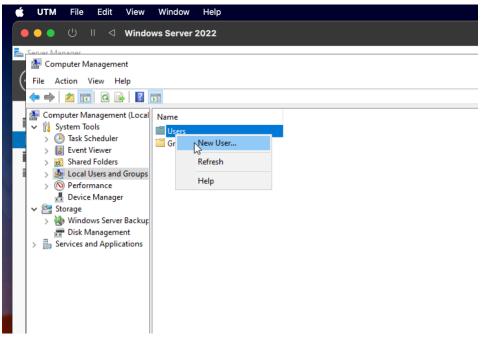
Step 9: Turn off enchaned security config



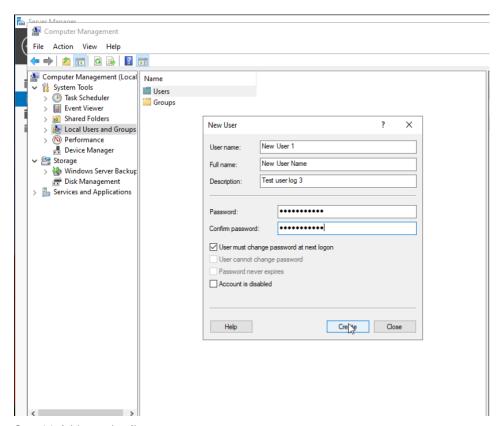
Step 11: Check and update the OS



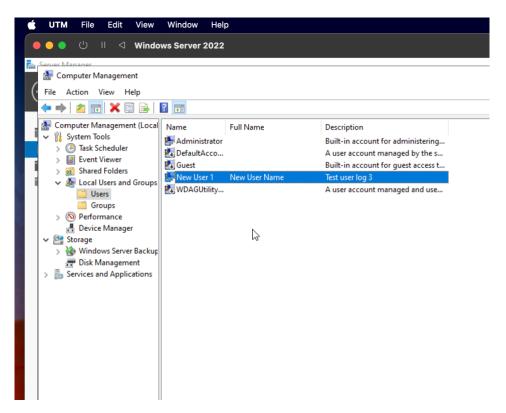
Step 12: Go to Computer Management from Tools menu



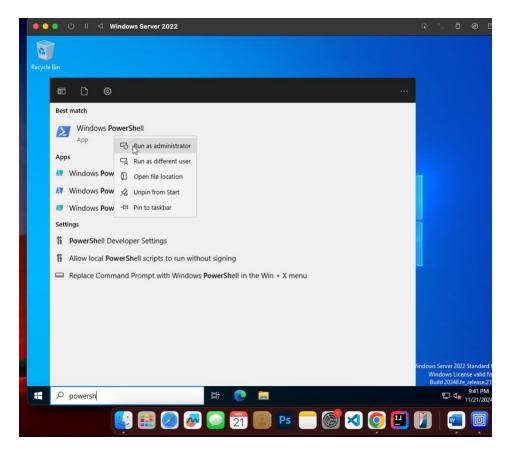
Step 13: Adding User in GUI(desktop experience)



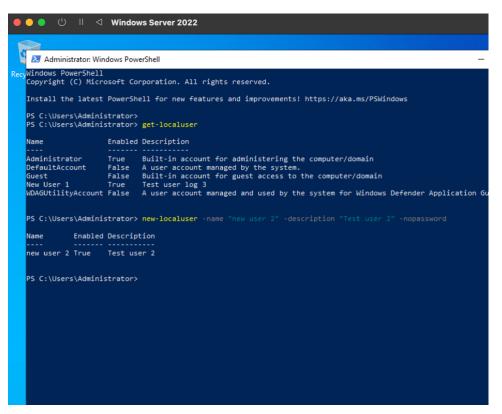
Step 14: Add user details



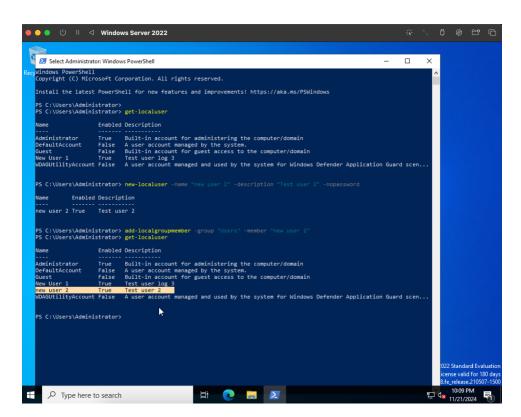
Step 15: Check user list in GUI(desktop experience)



Step 16: Run PowerShell as adminstrator



Step 17: working in CLI using PowerShell



Step 18: adding user through CLI

```
Administrator Windows PowerShell
new user 2 True Test user 2

PS C:\Users\Administrator> add-localgroupmember -group "Users" -member "new user 2"

PS C:\Users\Administrator> get-localuser

Name Enabled Description

Administrator True Built-in account for administering the computer/domain
DefaultAccount False A user account managed by the system.
New User 1 True Test user log 3

new user 2 True Test user log 3

new user 2 True Test user log 3

new user 2 True Test user log 3

PS C:\Users\Administrator> remove-localuser -name"new user 2"
remove-localuser : User -namenew user 2 was not found.
At line: I charil remove-localuser -name"new user 2:

- CategoryInfo - SubjectNotFound: (-namenew user 2:String) [Remove-LocalUser], UserNotFoundException + FullyQualffiedForrols : UserNotFound, Nicrosoft, PowerShell.Commands . RemoveLocalUser Command

PS C:\Users\Administrator> remove-localuser -name "new user 2"

PS C:\Users\Administrator> Built-in account for administering the computer/domain

DefaultAccount False A user account managed by the system.

Guest False Built-in account for guest access to the computer/domain

DefaultAccount False A user account managed and used by the system for Windows Defender Application Guard scenarios.

PS C:\Users\Administrator>

PS C:\Users\Administrator>
```

Step 19: removing user

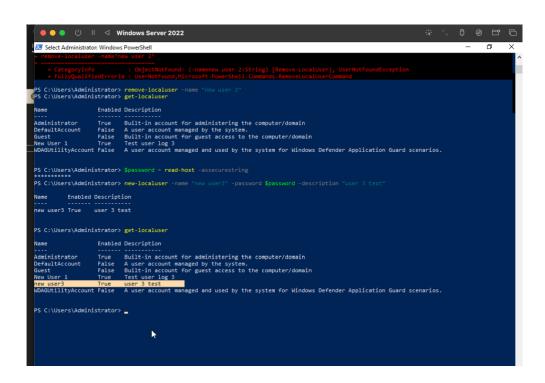
Step 20: Hide the password by securestring

```
Windows PowerShell

PS C:\Users\Administrator: Windows PowerShell

PS C:\Users\Administrator: See - namenew user 2 move localuser - name new user 2 move localuser: User - namenew user 2 move localuser: User - namenew user 2 move localuser: User - namenew user 2 move localuser: name new user 3 move localuser: name new user 2 move localuser: name new user 3 move localuser: name new user 3 move localuser: name new user 3 move use
```

Step 22: add user after securestring for password



Step 21: verify the process

Conclusion

This log documented the essential post-installation configurations for Windows Server. Using Server Manager and PowerShell, tasks such as renaming the server, enabling Remote Desktop, setting a static IP address, and managing users were successfully completed. These steps ensure that the server is properly configured and ready for operational use.

References

Microsoft. (2022). *Microsoft*. From Windows server: https://www.microsoft.com/en-us/evalcenter/evaluate-windows-server-2022

Microsoft. (n.d.). From learn microsoft: https://learn.microsoft.com/en-us/windows-server/get-started/get-started-with-windows-server