CT5052NP Network Operating System (NOS)

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London met id:	23048939	Deadline:	Sept-30,2024
Group:	C6 2nd year		

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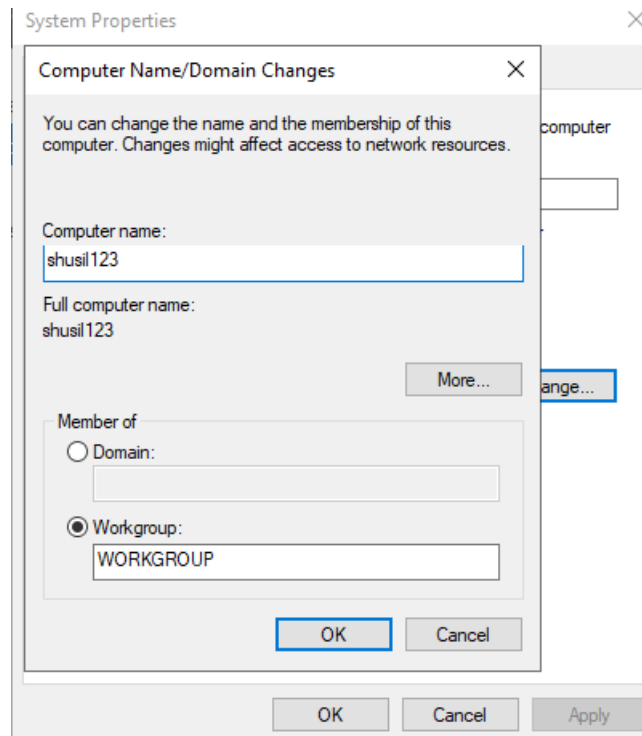
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1. Server manager

Server manager is a tool that comes inbuilt with the Windows Server. This helps to manage the server easily using the GUI of the manager.
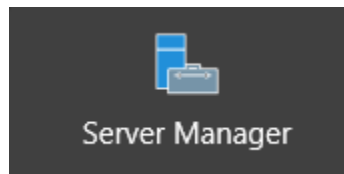
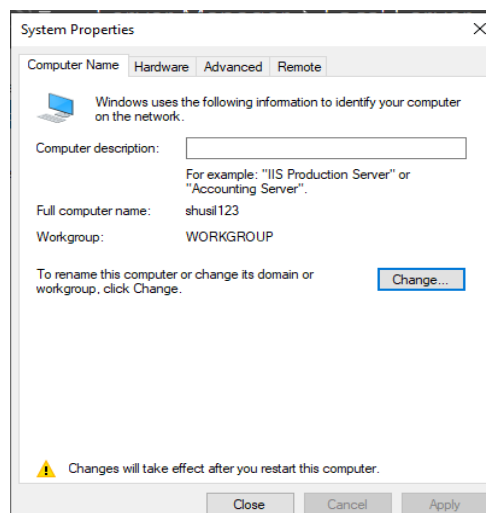

2. Changing the Server's name

Here we have clicked on local server from the dashboard of Server manager, where you can see that we have clicked on changed button to change the server's name into "shusil123".
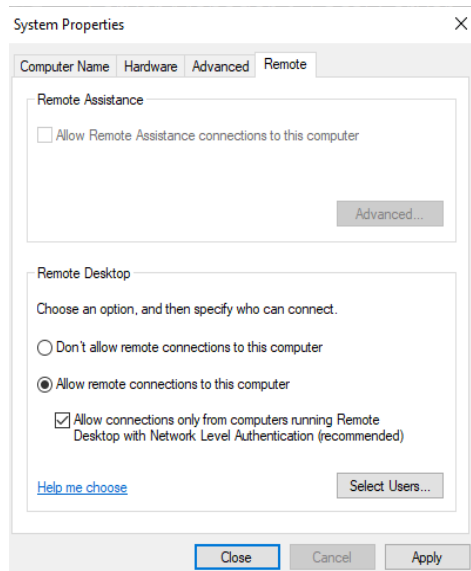
After clicking on the "ok" then the server's name got changed.

3. Enabling Remote Desktop

Remote Desktop Service allows a remote connection to the server to access its GUI and features.
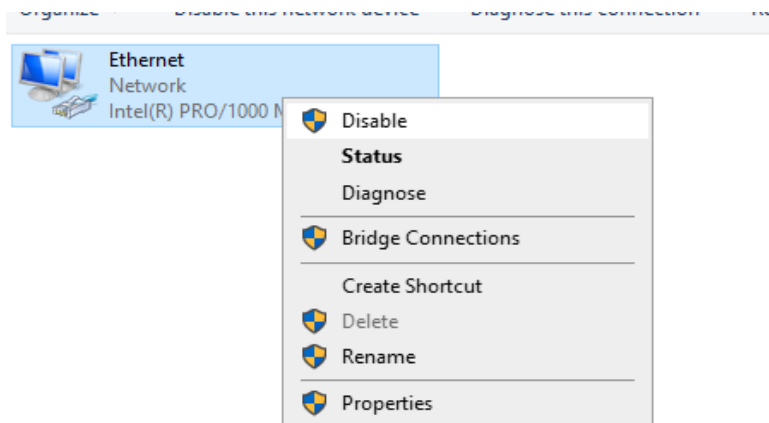
Here in the same window, we have clicked on remote server in the upright position. Than the new window is opened,
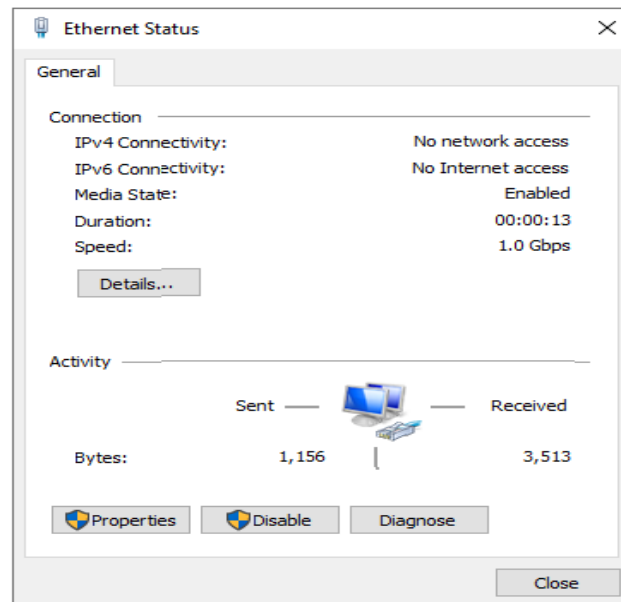

After that we clicked on the apply button.

4. Setting up Static IP addresses

To setting up the IP address we have searched Veiw Network connection. And after opening it the windows popped open after that we have done right click on the Ethernet.

Then we clicked on the status button and another window popped open,

After that we have clicked on the properties,
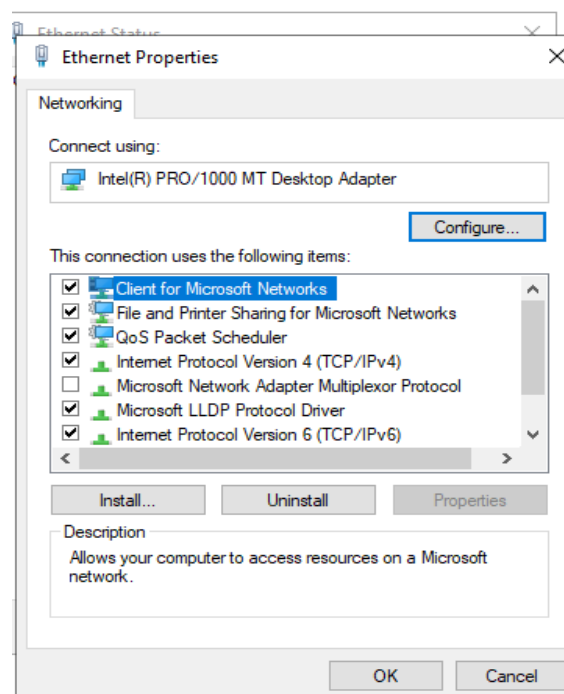
Here we have clicked on the Internet Protocol Version 4 (TCP / IPv4), then we clicked on properties to set the ip address,
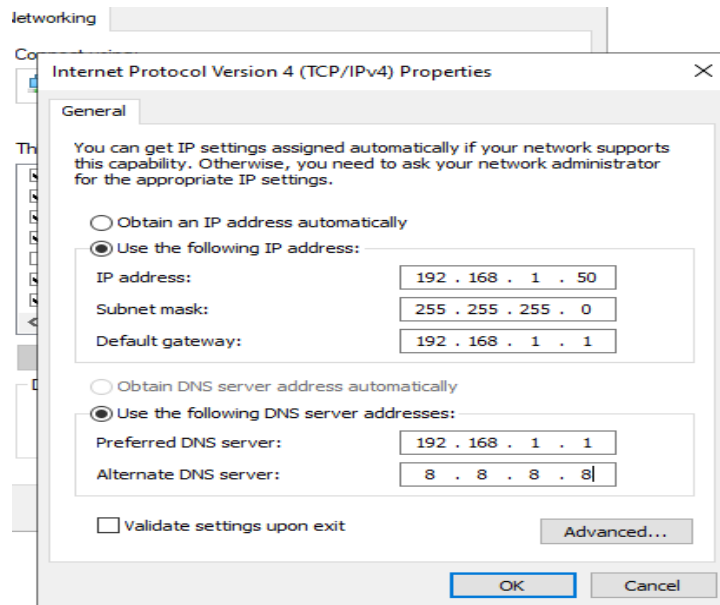
Here we press on the "ok" button and the work is completed.

5. Changing the time zone

To change the time zone, we go on local server and clicked on the time zone from the menu,
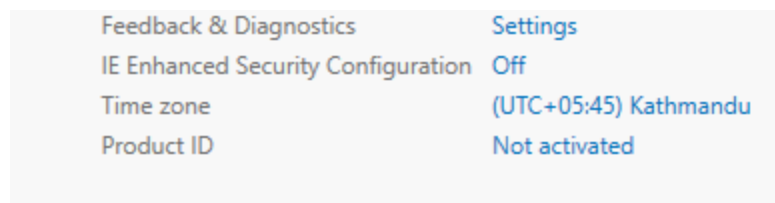
After clicking on its new window popped open,
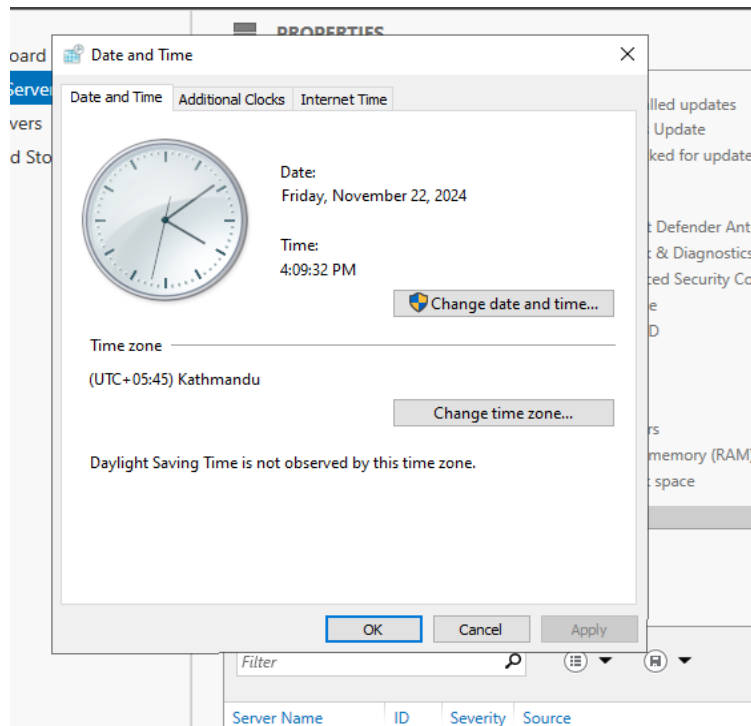
And we have clicked on change time zone option to change the time zone,
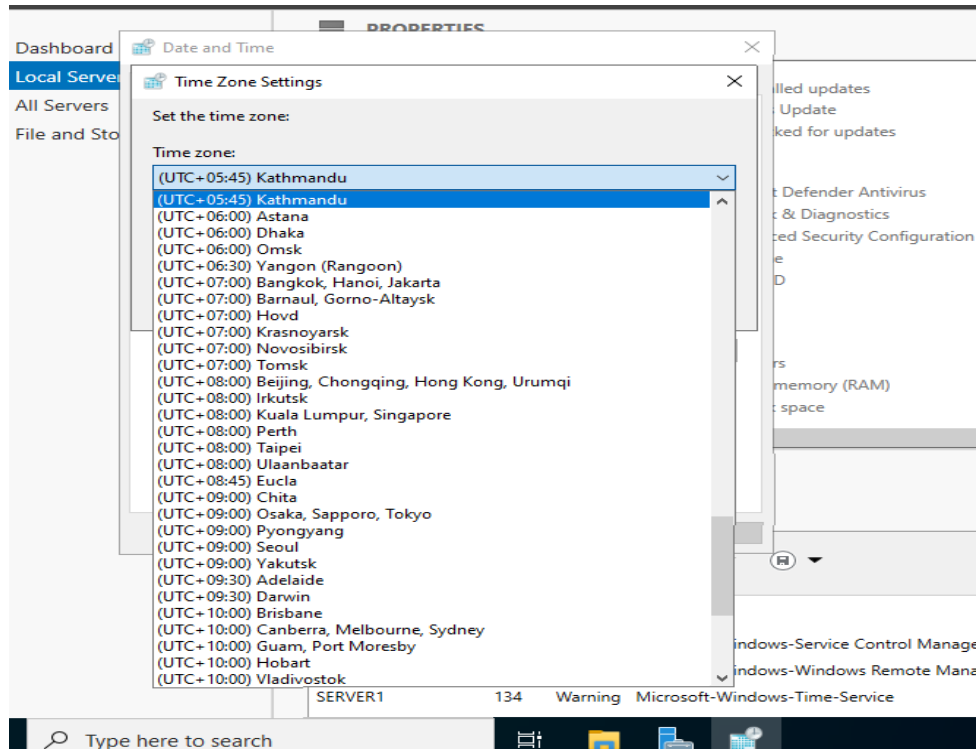
We have selected "UTC Kathmandu" as per instructions.

6. Turning off IE enhanced security and checking for updates

To turn off this we have press on IE enhanced Security Configuration button and the windows popped open,
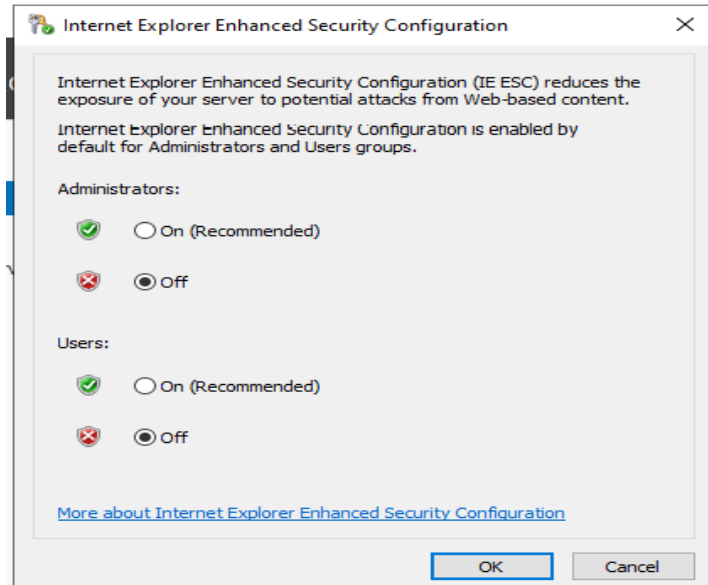
After clickin on off button we clicked on the ok button.
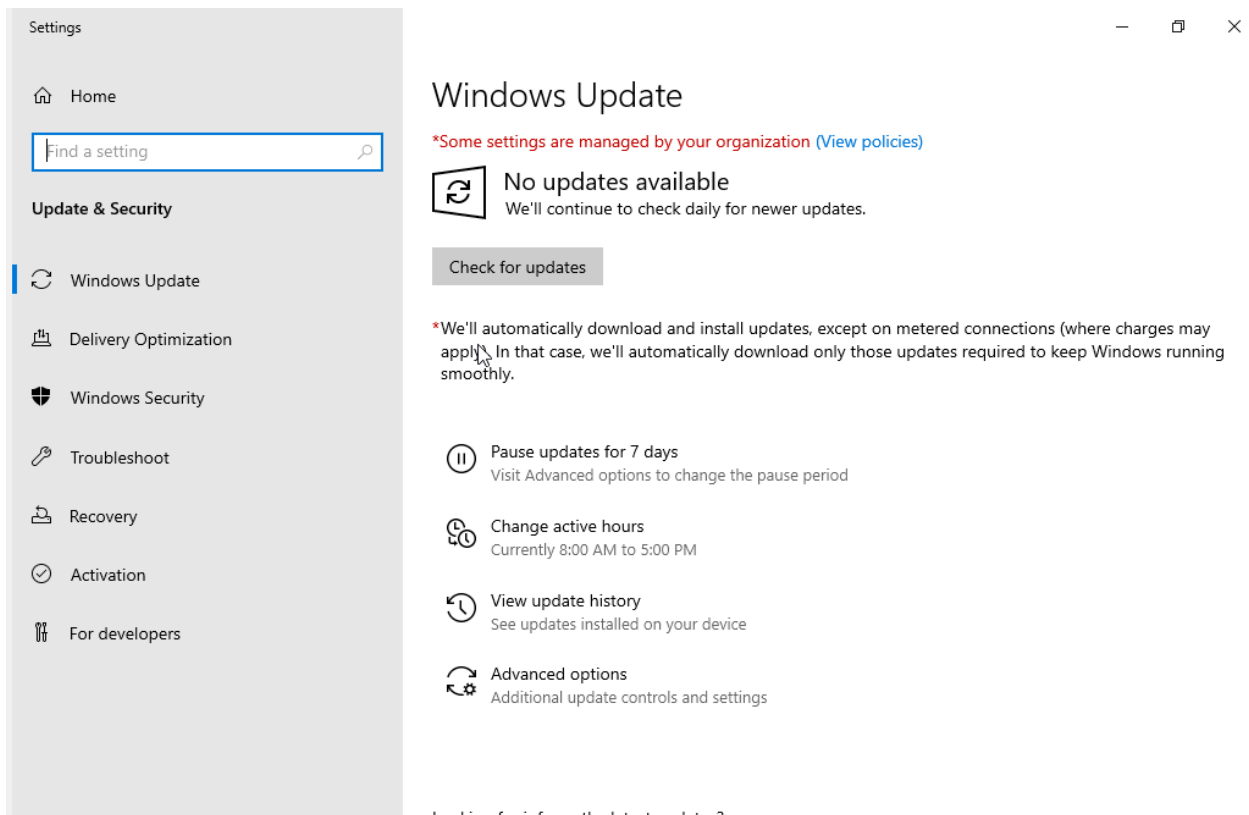
7. Adding user using GUI

From the toolbar from top right button, we selected computer management option,
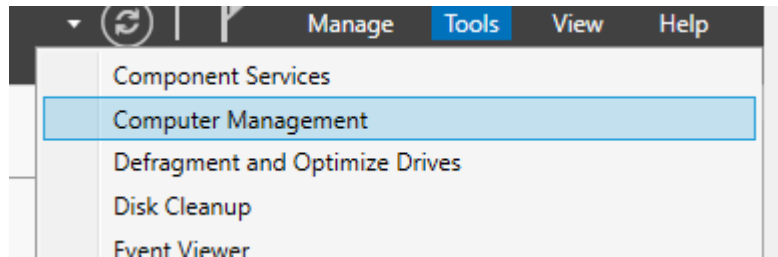
And then new window popped open,
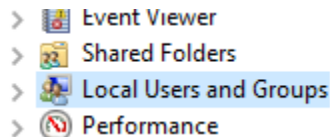
We have selected local users and groups option,
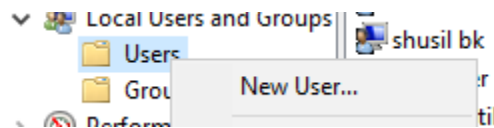
Then in the user folder we have done right click on it to create new user ,
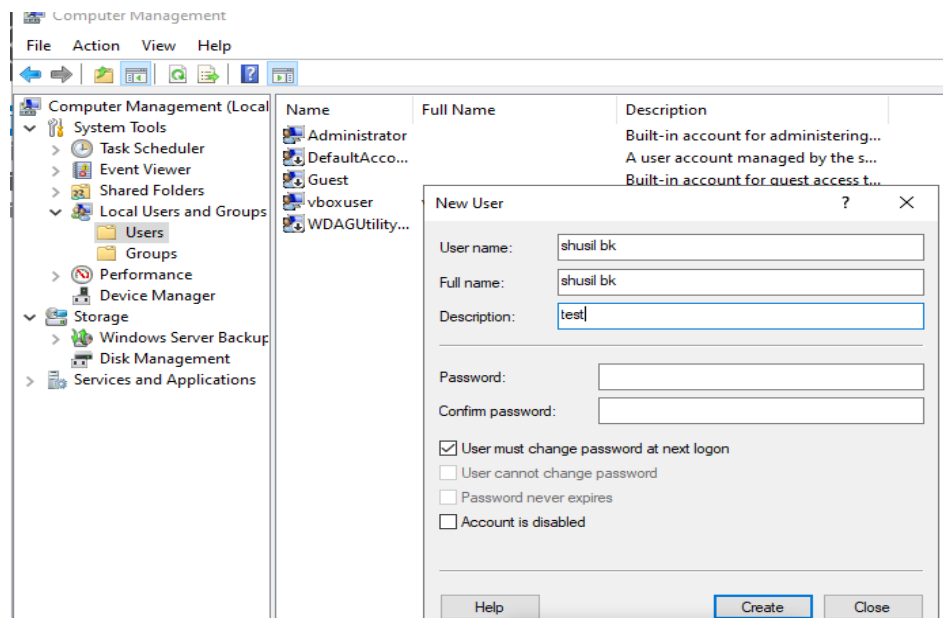
We have filled up the bar and added user using GUI.

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8. Adding new user using Shell

We searched PowerShell inside the window server and then we ran it as an administration.

We done coding as per instructions.

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

PS C:\Windows\system32> get-localuser

Name               Enabled Description
----               ------- -----------
Administrator      True    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
shusil bk          True    test
vboxuser           True
WDAGUtilityAccount False   A user account managed and used by the system for Windows Defender App

PS C:\Windows\system32> new-localuser -name "shusil bk 2" -description "this is a test user" -nop

Name          Enabled Description
----          ------- -----------
shusil bk 2   True    this is a test user

PS C:\Windows\system32> get-localuser

Name               Enabled Description
----               ------- -----------
Administrator      True    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
shusil bk          True    test
shusil bk 2        True    this is a test user
vboxuser           True
WDAGUtilityAccount False   A user account managed and used by the system for Windows Defender App
```

Here by entering "get-local user" we have seen all the users. Then we add the user named "shusil bk 2", then we again see the usernames by entering "get-localuser", we saw the username had been added.

9. Removing a user

It was easy to remove tutor as per seeing the instructions,

```
PS C:\Windows\system32> remove-localuser -name "shusil bk 2"
PS C:\Windows\system32> get-localuser

Name                Enabled Description
----                ------- -----------
Administrator       True    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
shusil bk           True    test
vboxuser            True
WDAGUtilityAccount  False   A user account managed and used by the system for Windows Defender A
```

Here we have removed user username "shusil bk 2" and again we check it by entering "get-localuser" and it was successfully removed.

10. Storing passwords using variables as securestrings

```
PS C:\Windows\system32> get-localuser

Name                Enabled Description
----                ------- -----------
Administrator       True    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
shusil bk           True    test
vboxuser            True
WDAGUtilityAccount  False   A user account managed and used by the system for Windows Defender Application Guard scen...

PS C:\Windows\system32> $password = read-host -assecurestring
************
PS C:\Windows\system32> new-localuser -name "shusil 2" -password $password -description "this is a new user"

Name     Enabled Description
----     ------- -----------
shusil 2 True    this is a new user

PS C:\Windows\system32> get-localuser

Name                Enabled Description
----                ------- -----------
Administrator       True    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
shusil 2            True    this is a new user
shusil bk           True    test
vboxuser            True
WDAGUtilityAccount  False   A user account managed and used by the system for Windows Defender Application Guard scen...

PS C:\Windows\system32>
```

Here first we have seen there is only one user named "shusil bk" and then we have used method to store passwords using variable as securedstrings, here it required alpha numeric letter for the strong password. After that we saw the password is stored in the new username "shusil 2" where again we saw users and it was added to it.