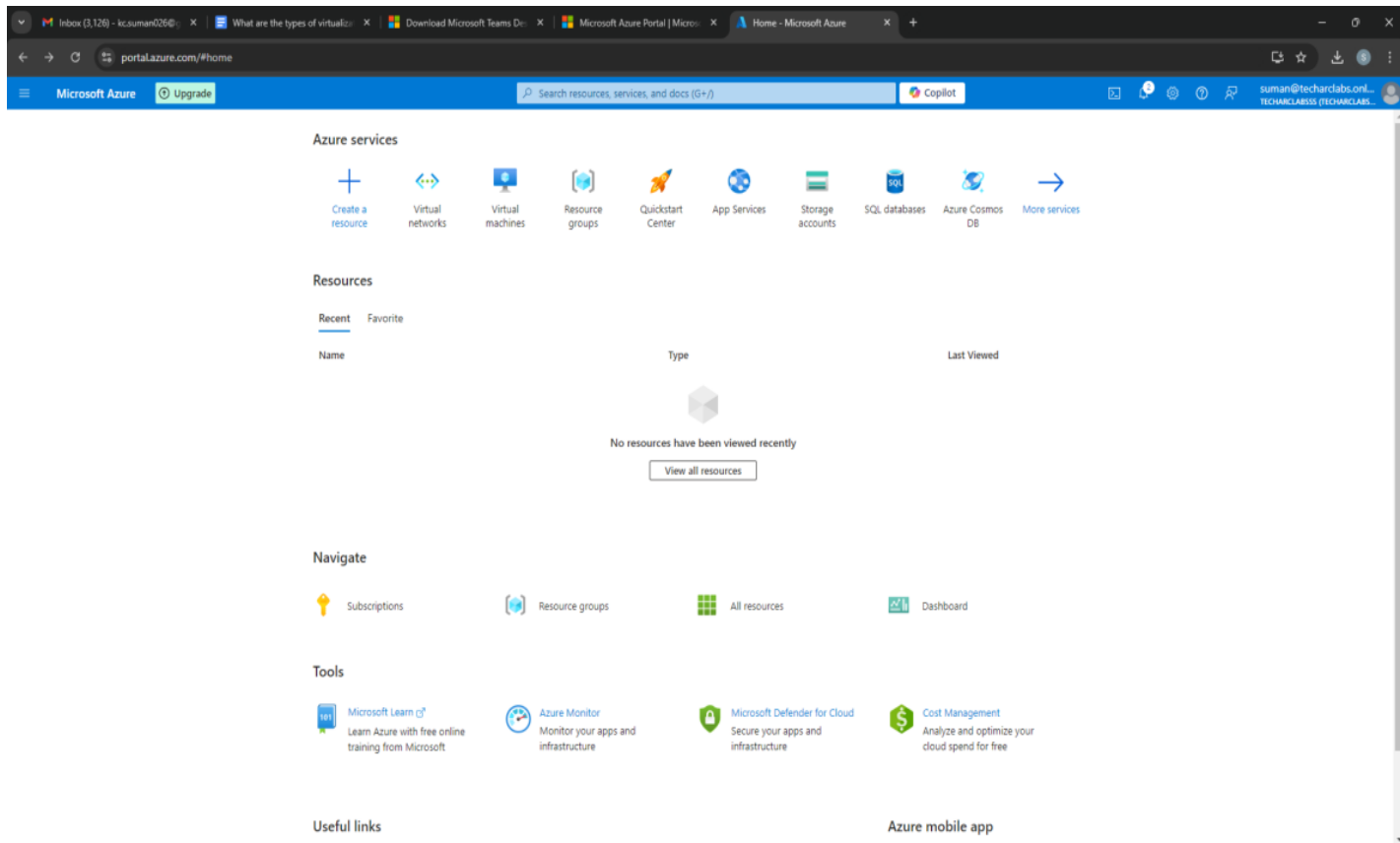


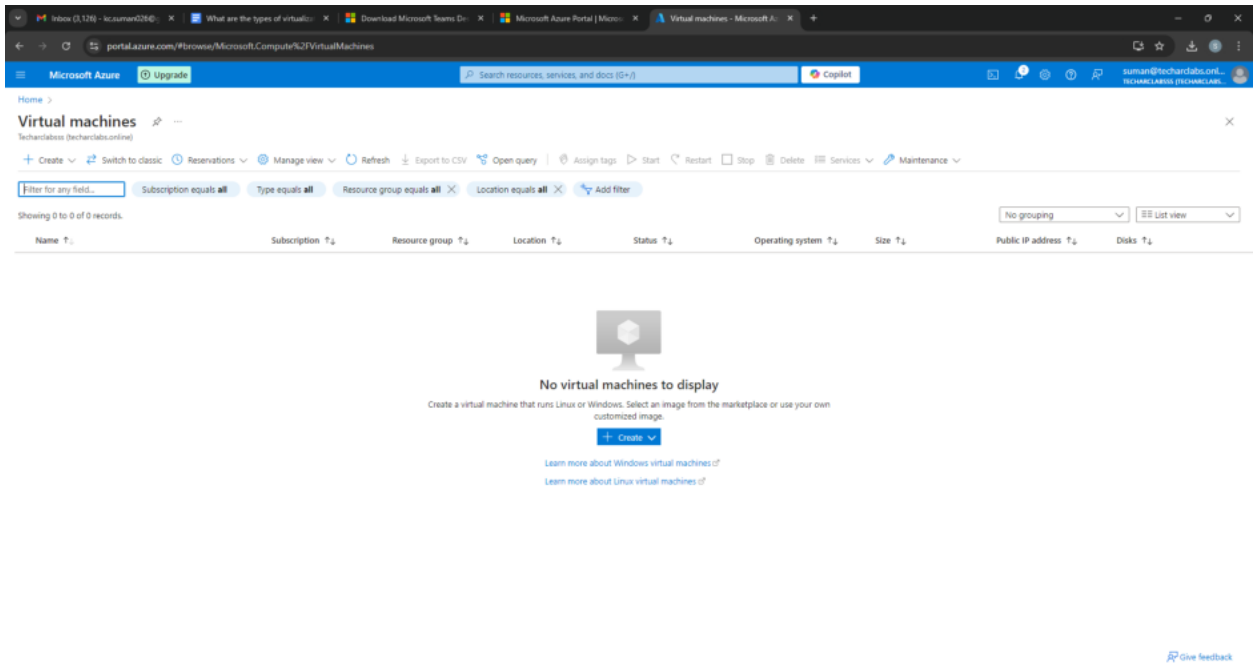
Using (DC01) server in Azure cloud. Create 2 OU, 2 Groups and 2 users.

Steps:

1. Sign in to the Microsoft azure portal. <https://azure.microsoft.com/en-au/get-started/azure-portal>



2. Click on to the virtual machine
 - Click on create a resource and select compute virtual machine



3. Configure Basic Settings:

- Subscription: Azure Subscription 1
- Resource Group: DC01
- Virtual Machine Name: DC01
- Region: Australia East
- Image: Windows Server 2019 Datacenter
- Size: Standard_B2ms - 2 vcpus, 8 GiB memory (US\$83.22/month)
- Username and Password: dcdamin01 and password.....

[Home](#) > [Virtual machines](#) >

Create a virtual machine ...

🔗

Help me create a low cost VM

Help me create a VM optimized for high availability

Help me choose the right VM size for my workload

Basics Disks Networking Management Monitoring Advanced Tags Review + create

Create a virtual machine that runs Linux or Windows. Select an image from Azure marketplace or use your own customized image. Complete the Basics tab then Review + create to provision a virtual machine with default parameters or review each tab for full customization. [Learn more](#) 📄

i This subscription may not be eligible to deploy VMs of certain sizes in certain regions.

Project details

Select the subscription to manage deployed resources and costs. Use resource groups like folders to organize and manage all your resources.

Subscription * ⓘ

Azure subscription 1 ▾

Resource group * ⓘ

(New) DC01 ▾

[Create new](#)

Instance details

Virtual machine name * ⓘ

DC01 ✓

Region * ⓘ

(Asia Pacific) Australia East ▾

Availability options ⓘ

No infrastructure redundancy required ▾

Security type ⓘ

Trusted launch virtual machines ▾

[Configure security features](#)

i You are in the free trial period. Costs associated with this VM can be covered by any remaining credits on your subscription. [Learn more](#)

Size * **i** Standard_B2ms - 2 vcpus, 8 GiB memory (US\$83.22/month) ▼
[See all sizes](#)

Enable Hibernation **i** ☐
i Hibernate is not supported by the size that you have selected. Choose a size that is compatible with Hibernation to enable this feature. [Learn more](#)

Administrator account

Username * **i** dcadmin01 ✓

Password * ✓

Confirm password * ✓

Inbound port rules

Select which virtual machine network ports are accessible from the public internet. You can specify more limited or granular network access on the Networking tab.

Public inbound ports * **i** ☐ None
☒ Allow selected ports

Select inbound ports * RDP (3389) ▼

4. Configure Disks:

- Default setting

5. Configure Networking:

- Virtual Network: DC01-vnet
- Subnet: default (10.0.0.0/24)
- Public IP: DC01-ip
- Network Security Group: Ensure it allows RDP traffic (port 3389).
- Delete public IP and NIC when VM is deleted

Create a virtual machine ...



Help me create a low cost VM

Help me create a VM optimized for high availability

Help me choose the right VM size for my workload

Basics Disks **Networking** Management Monitoring Advanced Tags Review + create

Define network connectivity for your virtual machine by configuring network interface card (NIC) settings. You can control ports, inbound and outbound connectivity with security group rules, or place behind an existing load balancing solution.

[Learn more](#)

Network interface

When creating a virtual machine, a network interface will be created for you.

Virtual network * ⓘ

(new) DC01-vnet

[Create new](#)

Subnet * ⓘ

(new) default (10.0.0.0/24)

Public IP ⓘ

(new) DC01-ip

[Create new](#)

NIC network security group ⓘ

☐ None

☒ Basic

☐ Advanced

Public inbound ports * ⓘ

☐ None

☒ Allow selected ports

Select inbound ports *

RDP (3389)

Delete public IP and NIC when VM is deleted ⓘ



Enable accelerated networking ⓘ



The selected VM size does not support accelerated networking.

Load balancing

You can place this virtual machine in the backend pool of an existing Azure load balancing solution. [Learn more](#)

Load balancing options ⓘ

☒ None

☐ Azure load balancer

Supports all TCP/UDP network traffic, port-forwarding, and outbound flows.

☐ Application gateway

Web traffic load balancer for HTTP/HTTPS with URL-based routing, SSL termination, session persistence, and web application firewall.

6. Configure Management, Monitoring, and Advanced Settings:

- Default

7. Review and Create:

- Review the configuration settings.
- Click Create to deploy the VM.

ome >

CreateVm-MicrosoftWindowsServer.WindowsServer-201-20240912121247 | Overview

Deployment

Search x << Delete Cancel Redeploy Download Refresh

Overview

- Inputs
- Outputs
- Template

Deployment is in progress

Deployment name: CreateVm-MicrosoftWindowsServer.WindowsS... Start time: 12/09/2024, 12:25:58
Subscription: [Azure subscription 1](#) Correlation ID: 93f84ef6-16d2-4375-a466-f4e2706deb16
Resource group: DC01

Deployment details

Resource	Type	Status	Operation details
No results.			

Give feedback

[Tell us about your experience with deployment](#)

Home >

DC01

Virtual machine

Search x << Connect Start Restart Stop Hibernate Capture Delete Refresh Open in mobile Feedback CLI / PS

Overview

- Activity log
- Access control (IAM)
- Tags
- Diagnose and solve problems
- Connect
- Networking
- Settings
- Availability + scale
- Security
- Backup + disaster recovery
- Operations
- Monitoring
- Automation
- Help

Essentials

Resource group (move) : [DC01](#)
Status : Creating
Location : Australia East
Subscription (move) : [Azure subscription 1](#)
Subscription ID : 09cf1406-aa97-4f33-971a-9c8aa1876c8b

Operating system : Windows
Size : Standard B2ms (2 vcpus, 8 GiB memory)
Public IP address : [104.210.84.21](#)
Virtual network/subnet : [DC01-vnet/default](#)
DNS name : [Not configured](#)
Health state : -
Time created : 12/09/2024, 02:26 UTC

Tags (edit) : [Add tags](#)

JSON View

Properties

Virtual machine	
Computer name	DC01
Operating system	Windows
VM generation	V2
VM architecture	x64
Hibernation	Disabled
Host group	-
Host	-
Proximity placement group	-
Colocation status	N/A

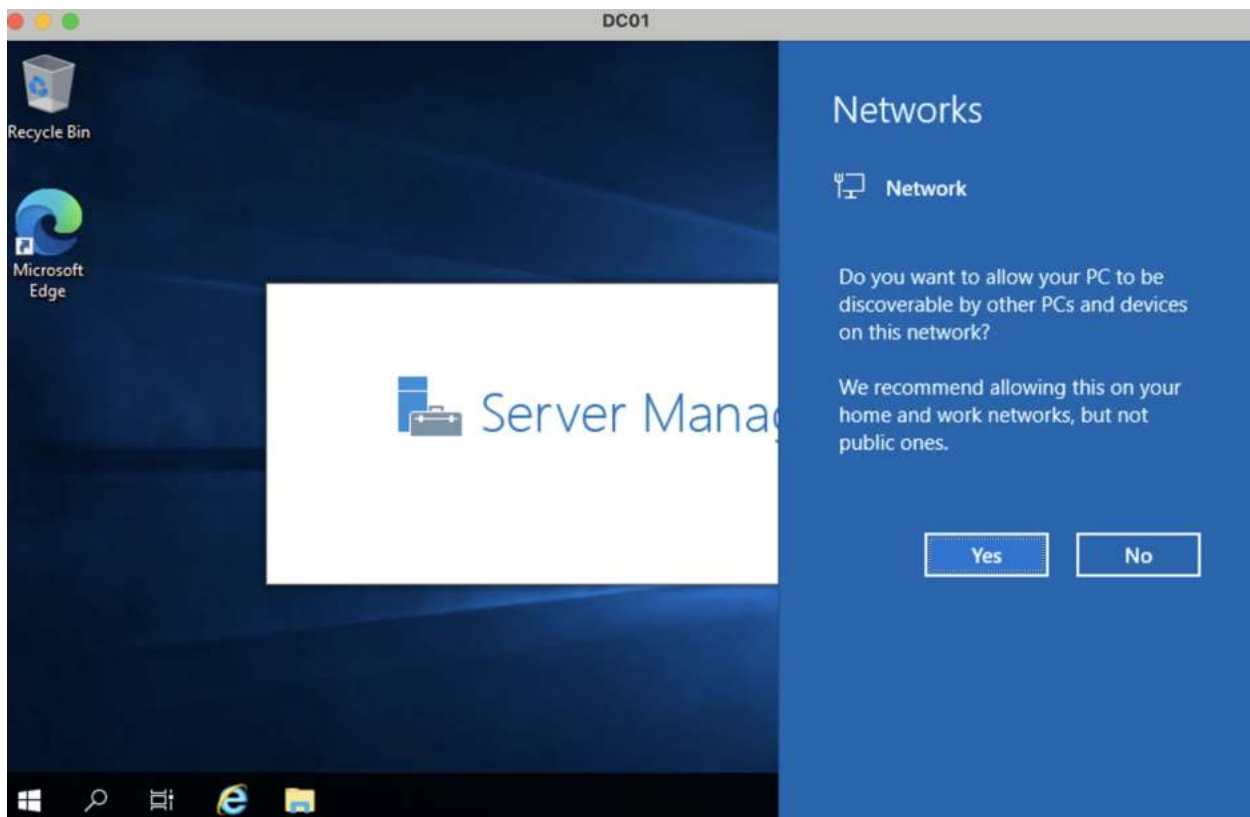
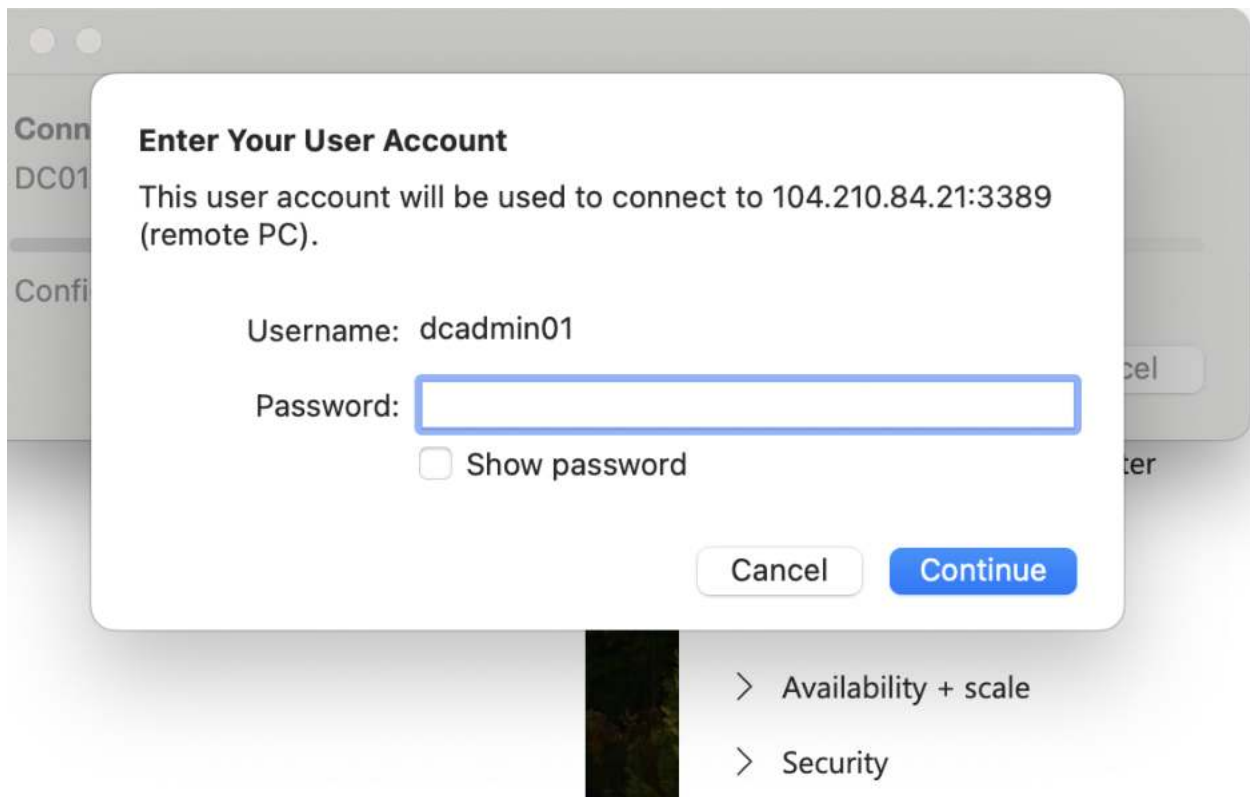
Networking

Public IP address	104.210.84.21 (Network interface dc01155)
Public IP address (IPv6)	-
Private IP address	10.0.0.4
Private IP address (IPv6)	-
Virtual network/subnet	DC01-vnet/default
DNS name	Configure

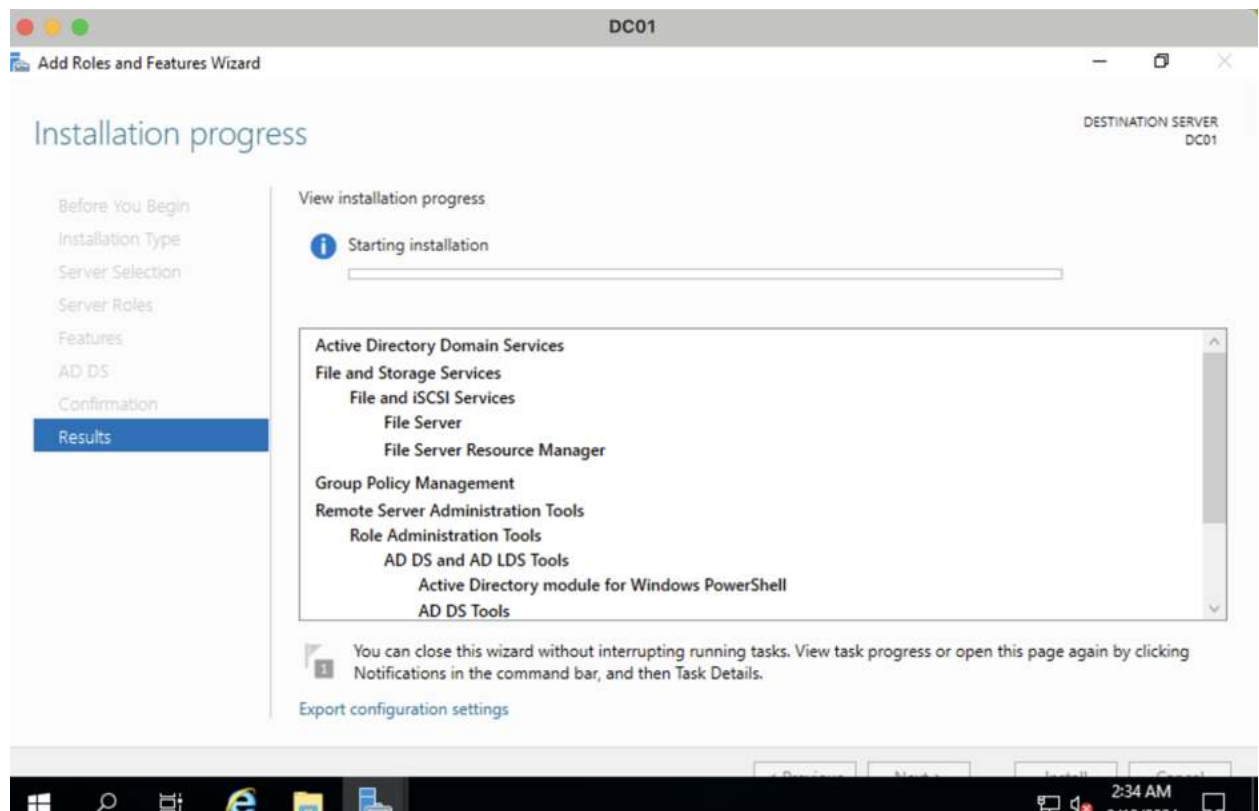
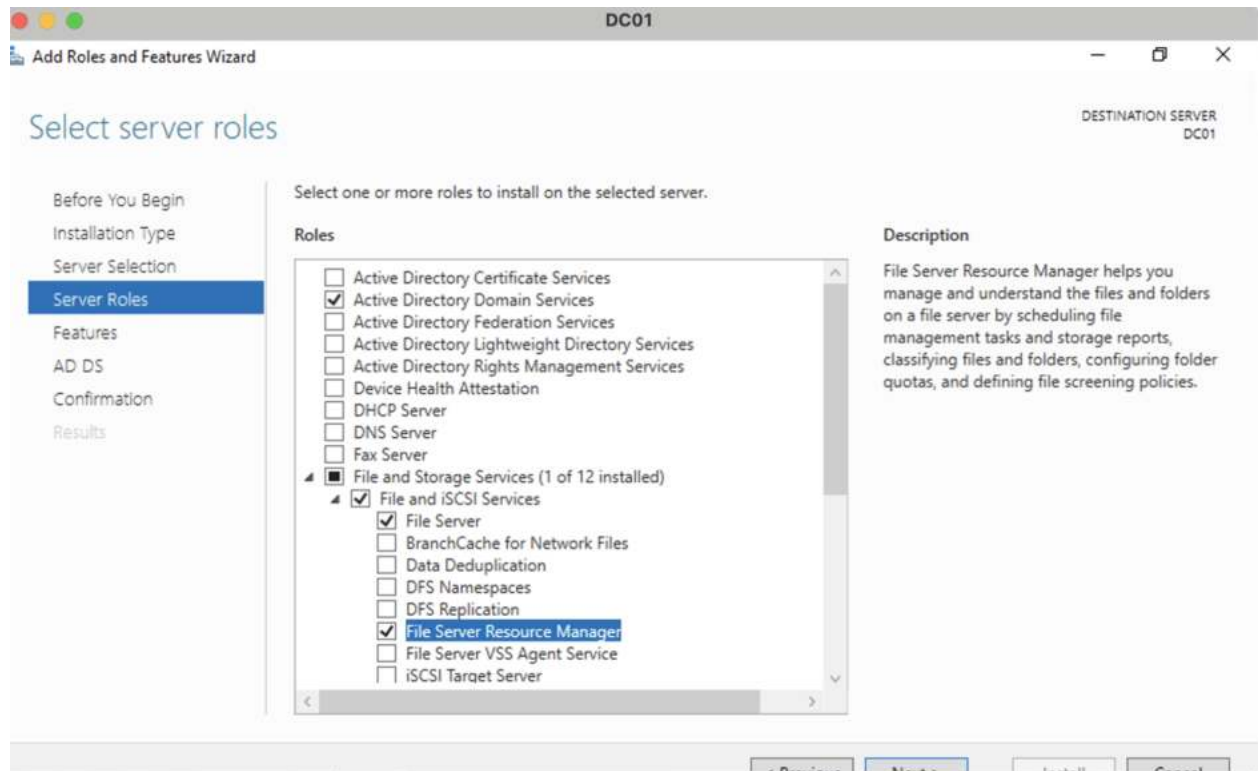
Size

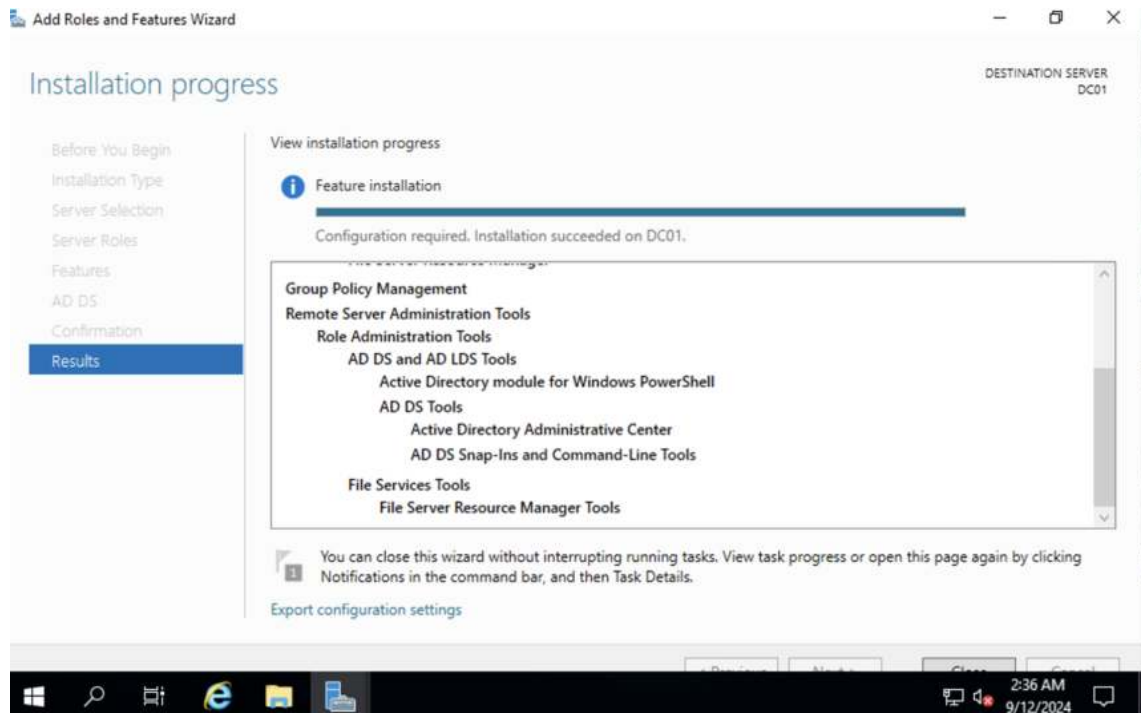
Size	Standard B2ms
vCPUs	2

8. Connect the virtual machine with the rdp file. Download the rdp file and connect it.
9. Enter administrator credential to connect

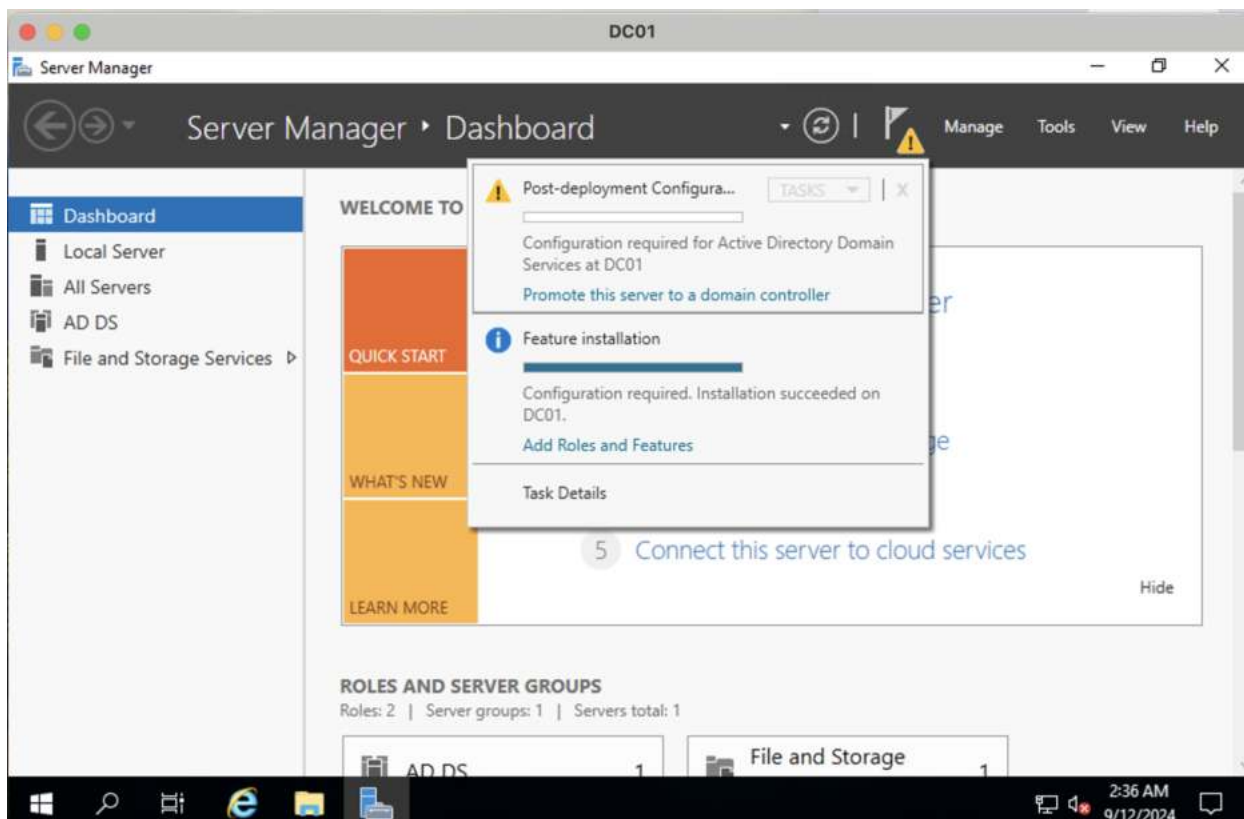


10. Open server manager and add roles Active directory domain services to make it domain controller.

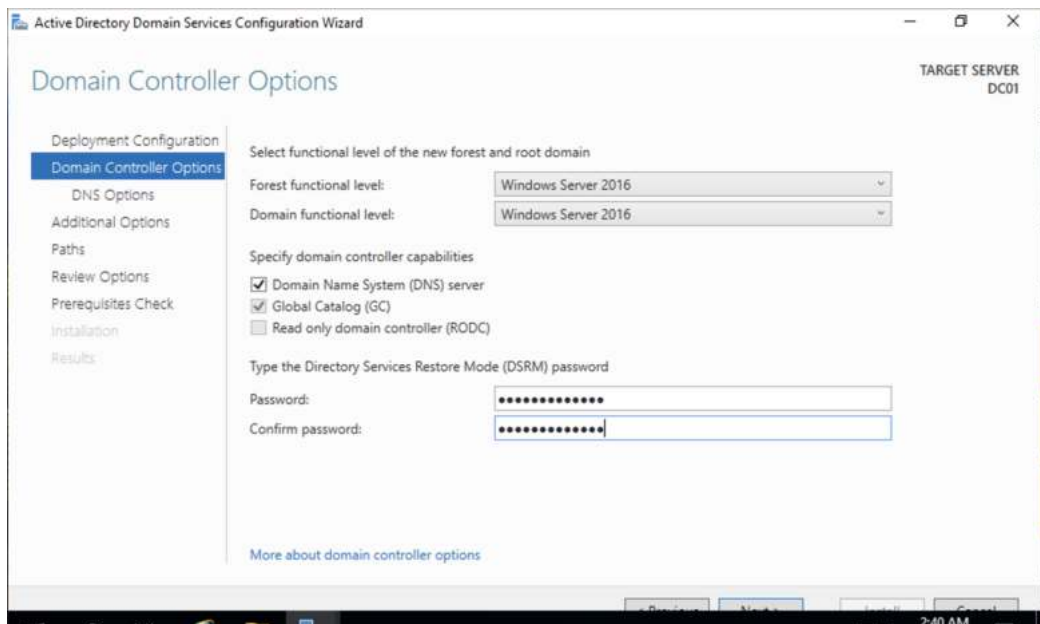




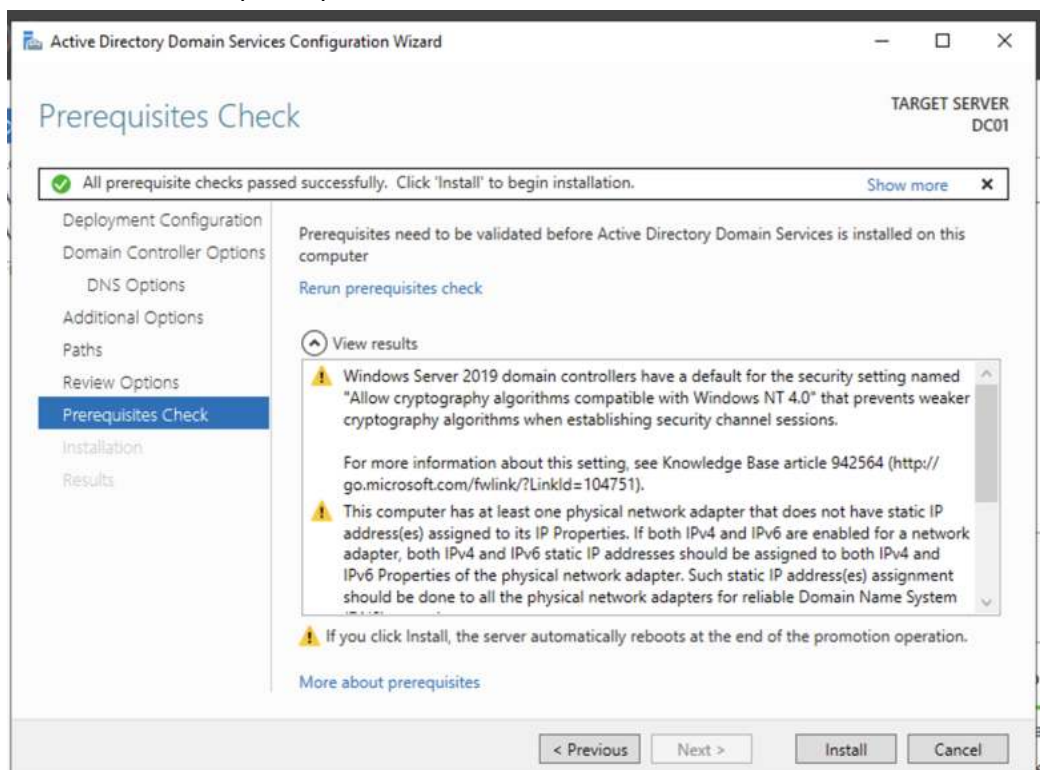
2. Promote the Virtual Machine to Domain Controller



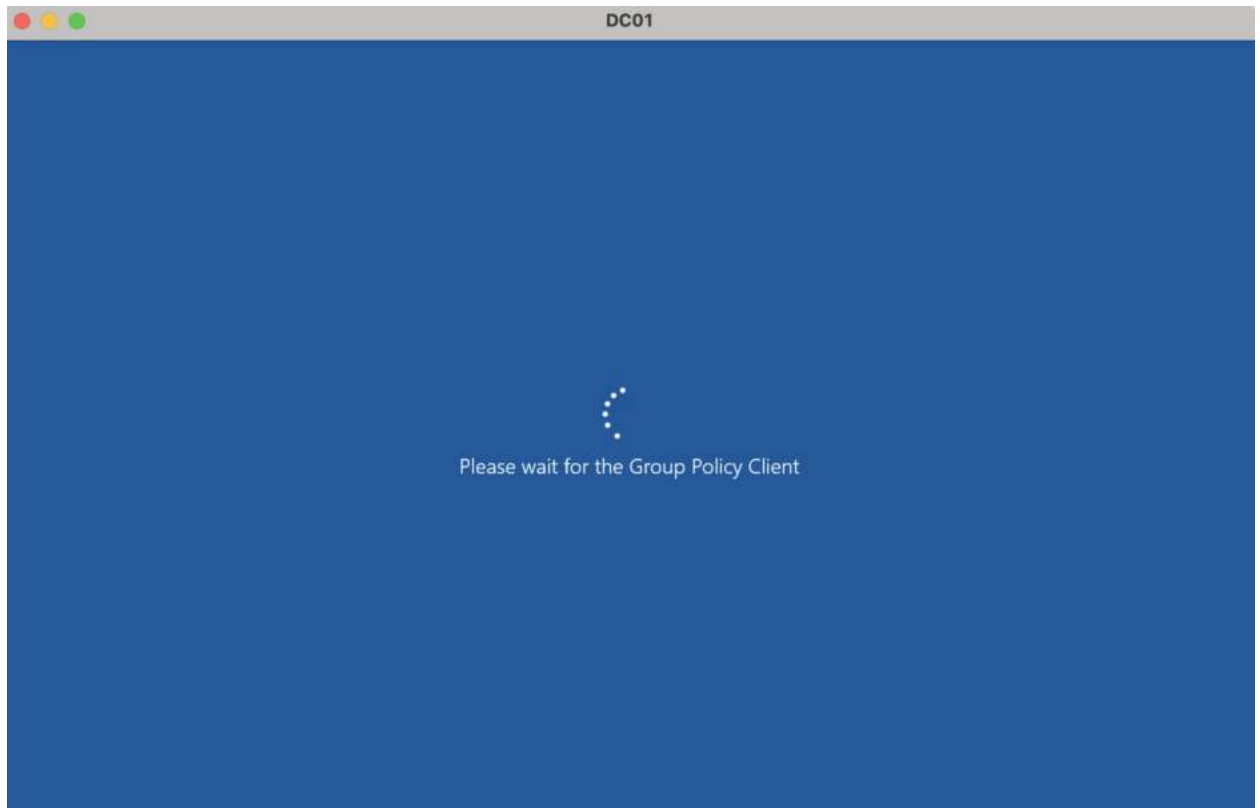
1. Add new forest in this case: techarclabs.online



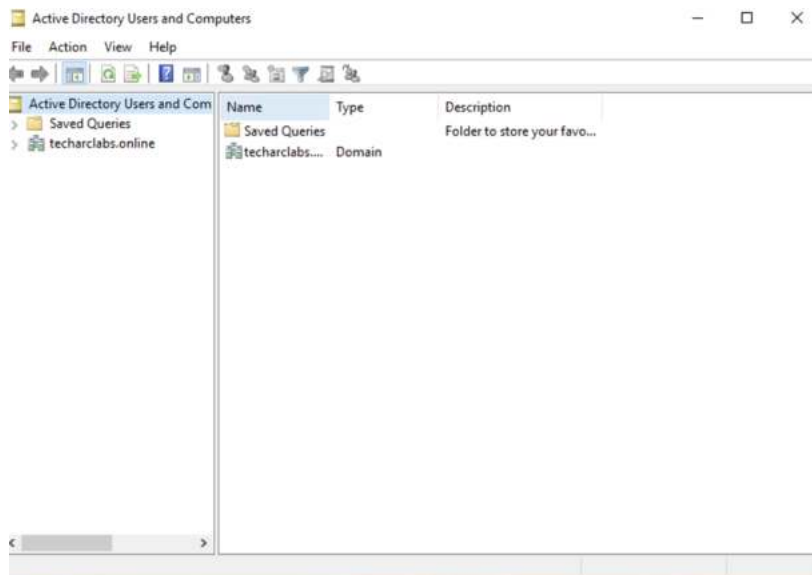
2. Install the prerequisites check



3. VM will restart again

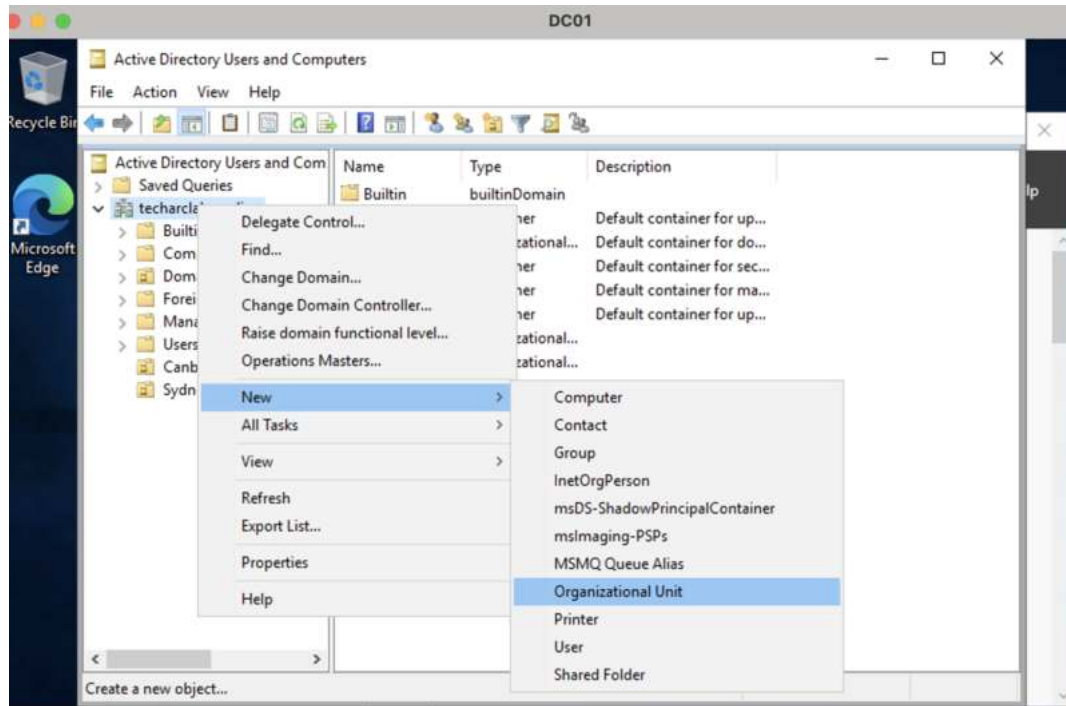


3. Verify the Domain Controller

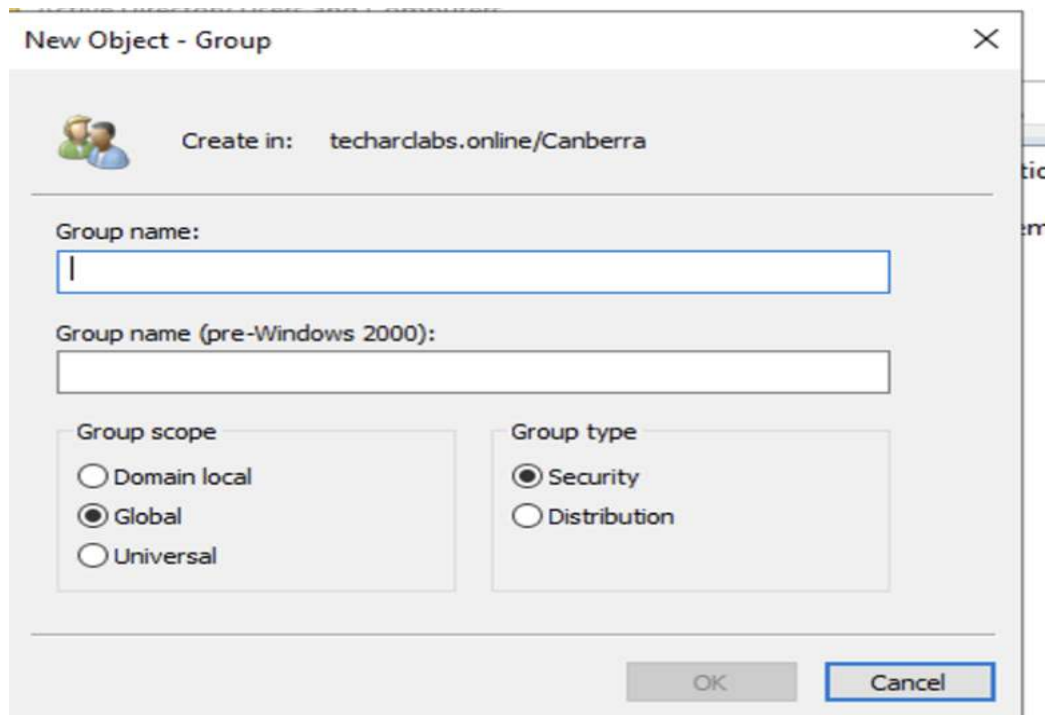


1. Login and verify the Active directory domain services has been added.
2. New forest of techarlabs.online can be seen.

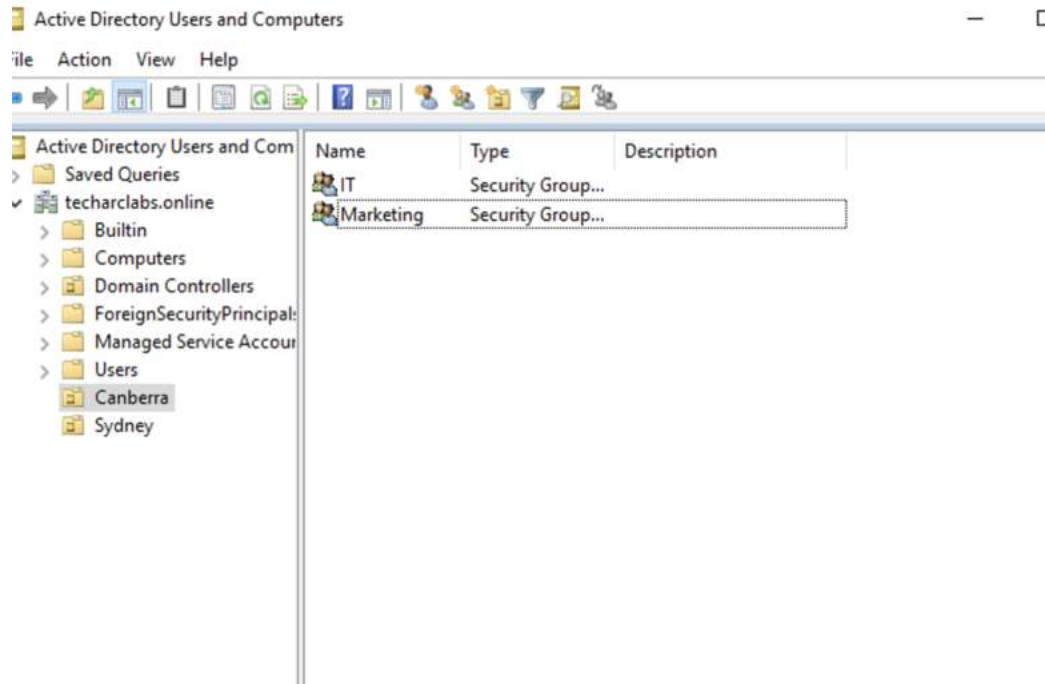
4. Create 2 OU, 2 Groups and 2 Users



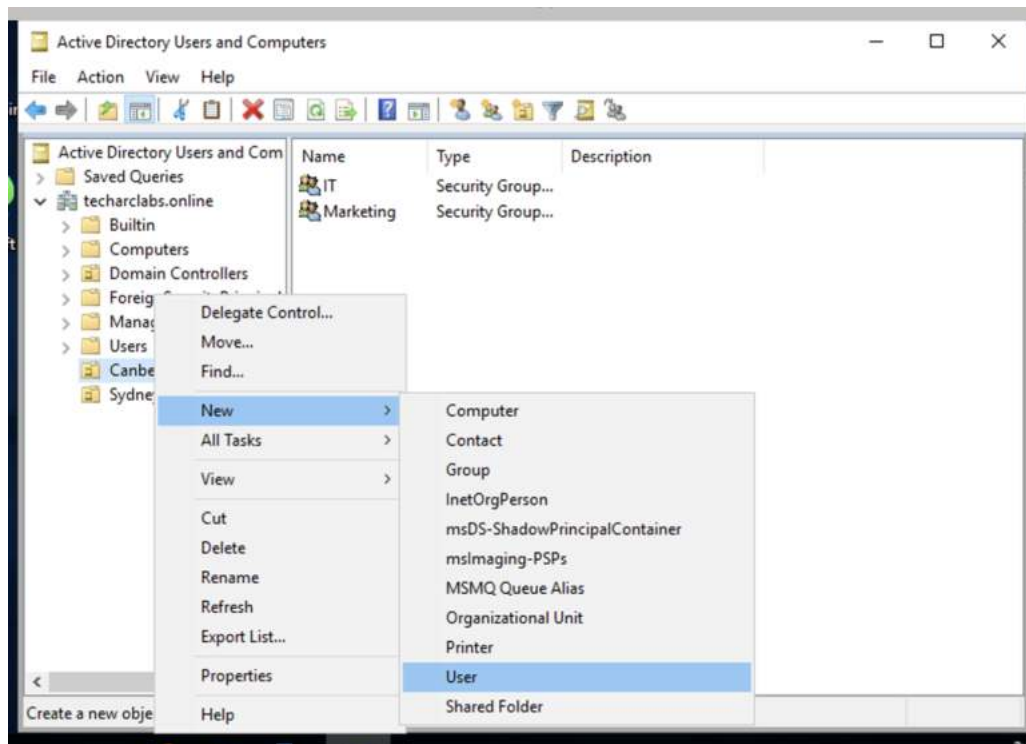
1. Click on techarc...>new>Organizational Unit

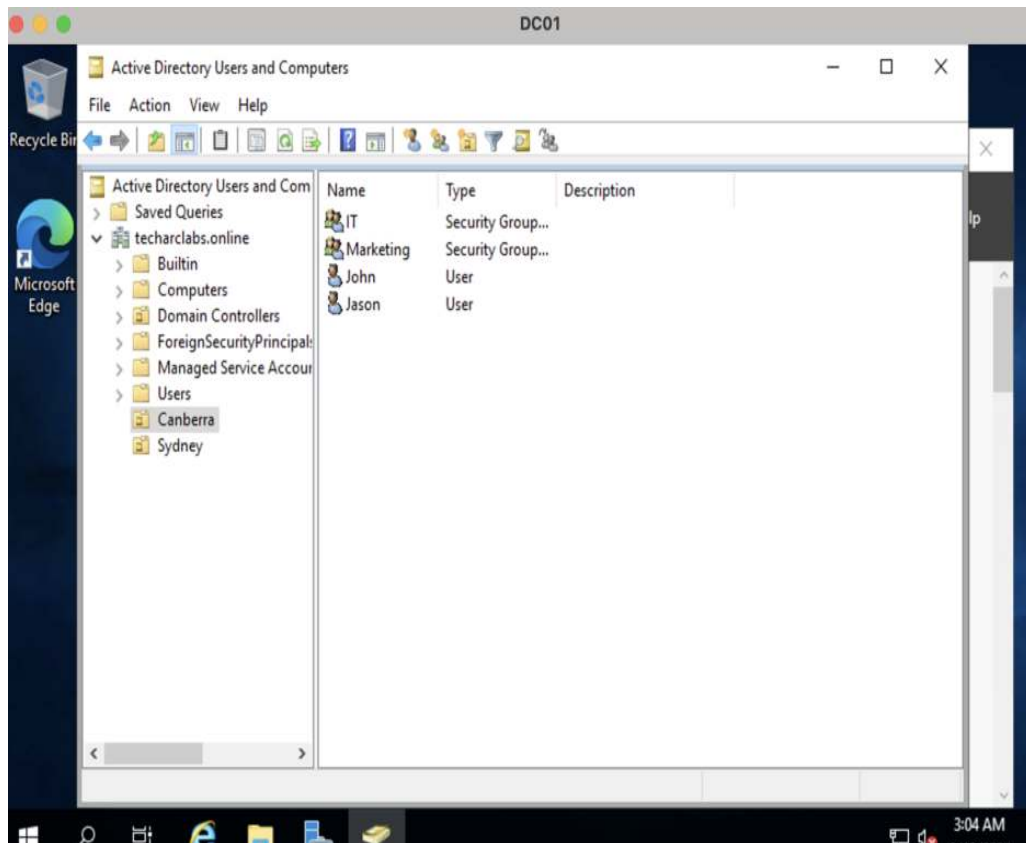


2. Create groups click on canberra and new and groups. Enter the group name as IT.

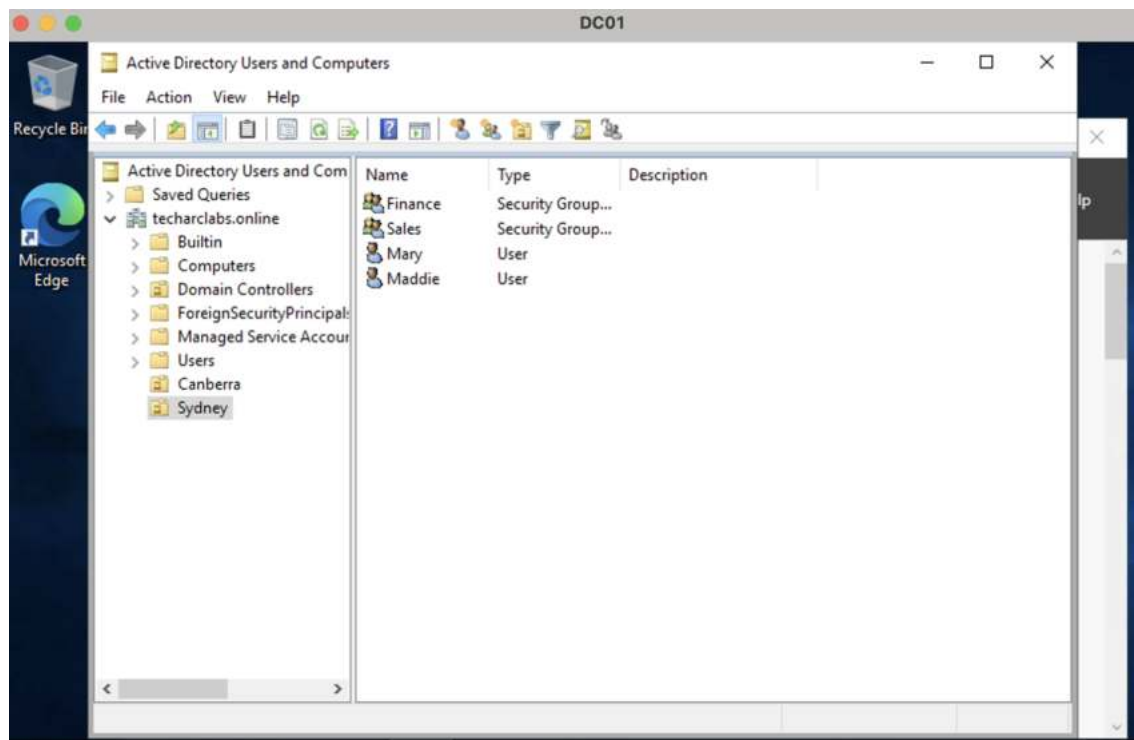


3. Similarly create users. For example: John and Jason in Canberra OU





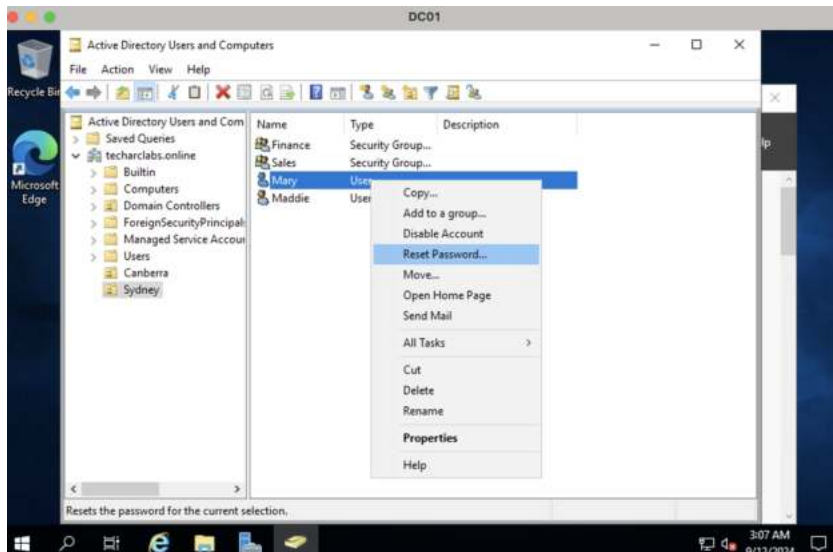
4. 2 groups and 2 user for Canberra



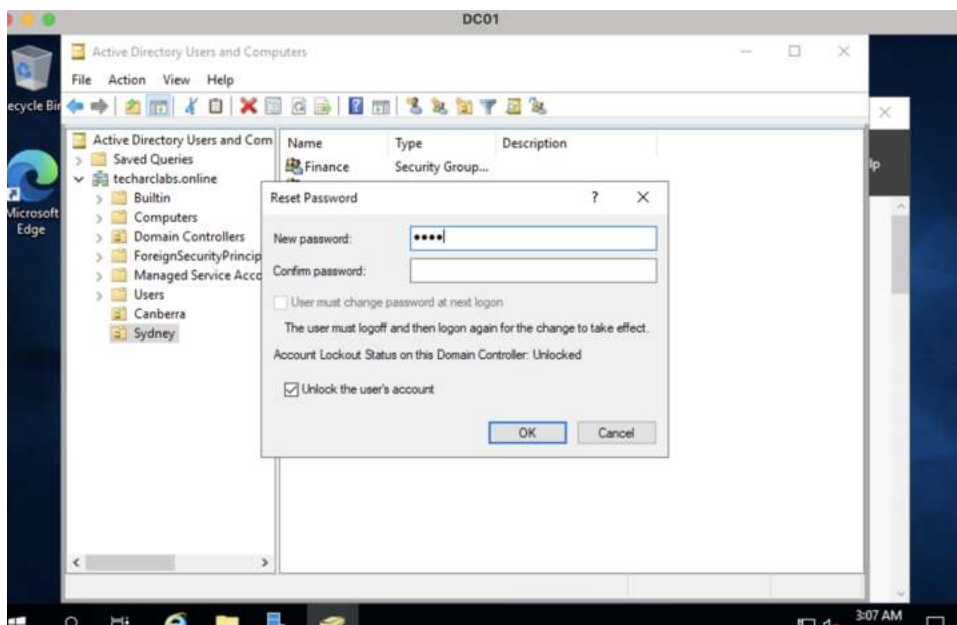
5. 2 groups and 2 users for Sydney.

How to reset password and unlock user?

1. Click the user that needs password reset



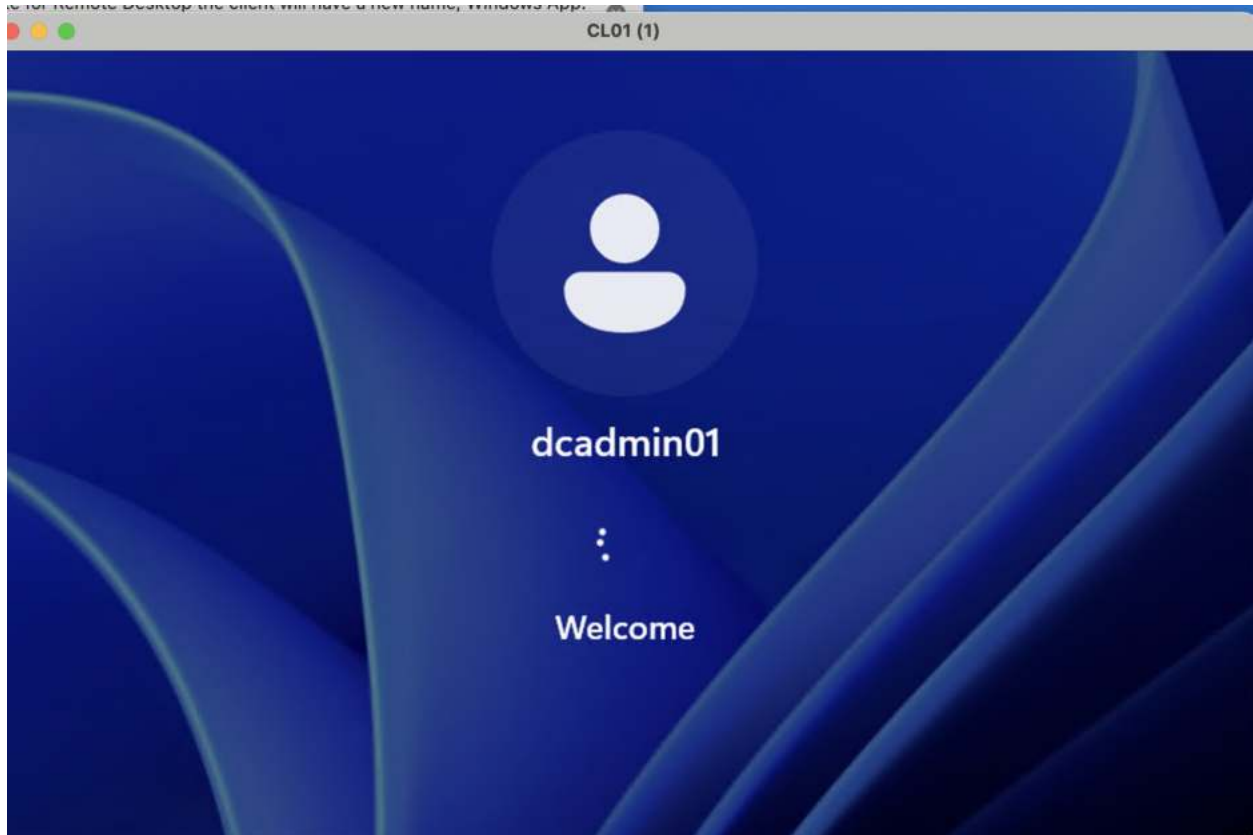
2. Unlock the user's account if the user's account needs to be unlocked and give a new password and make sure to change the password afterwards.



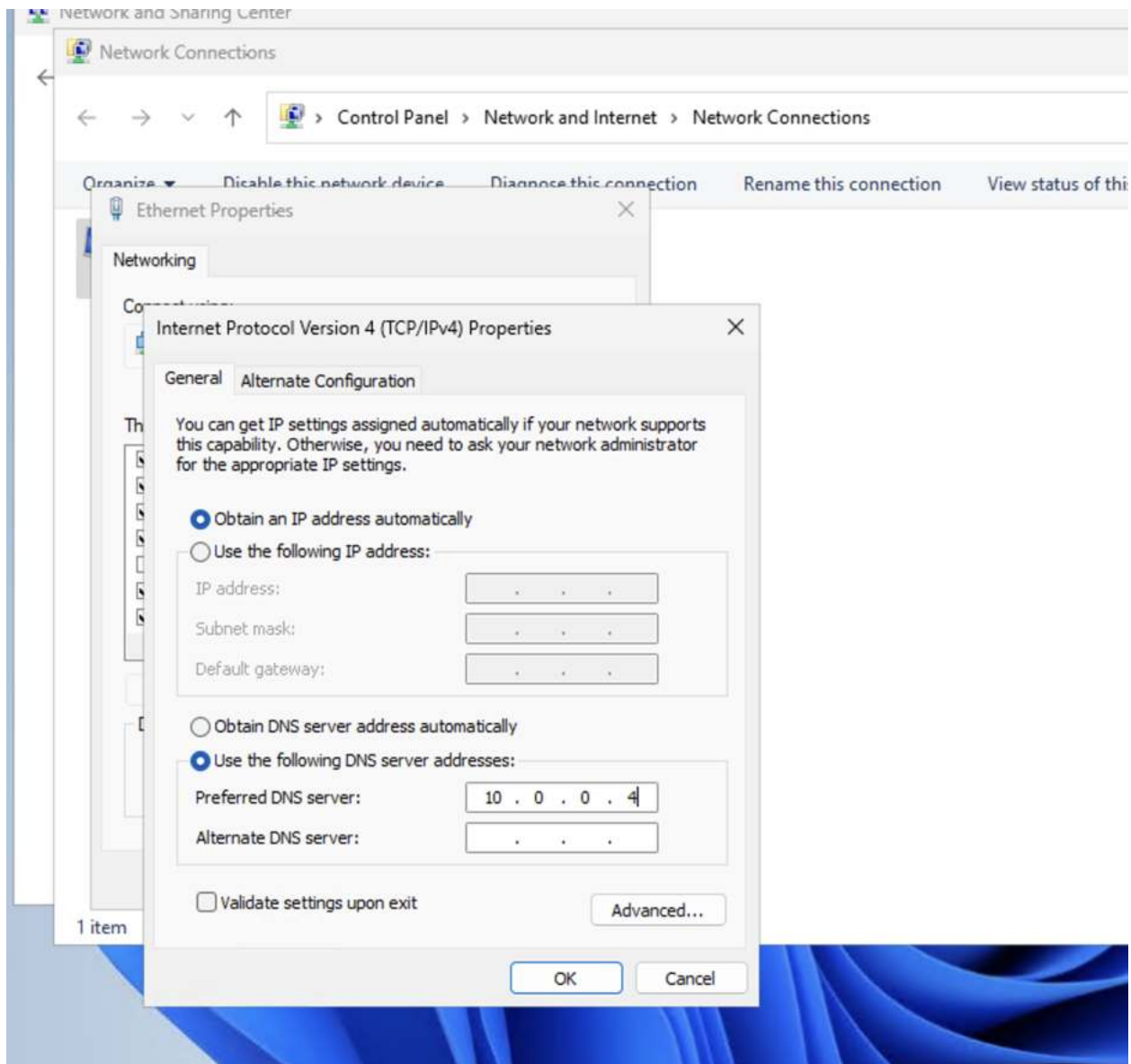
How to join a client's computer to DC01? Screenshot the process.

To join the client computer to DC01 we need to create a client operating VM which is the same process of creating DC01 but instead of installing Windows server 2019 we install Windows operating system 10 Pro or enterprise because windows 11 home does not support domain join.

Note: Ensure DC01 and Client operating system in the same resource group for connectivity.



Client operating system has been created. In order to connect to the domain controller make sure the IP address of DC01(10.0.0.4 in this case) is added to the DNS of Client operating system



Now time to connect CL01 to DC01

1. Go to setting >System>About>Domain or workgroup



Settings



System > About

F9C58F95-2D56-47F5-BFBD-2431E4FCAFAD

Product ID

00331-10000-00001-AA932

System type

64-bit operating system, x64-based processor

Pen and touch

No pen or touch input is available for this display

Related links

[Domain or workgroup](#)

[System protection](#)

[Advanced system settings](#)



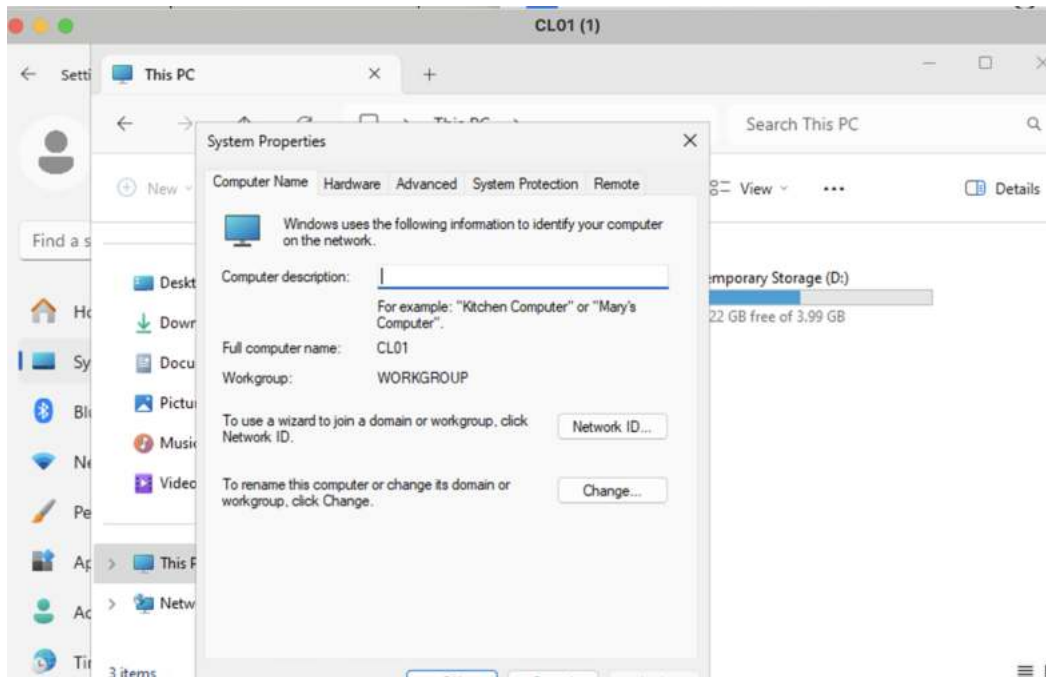
Windows specifications

Copy

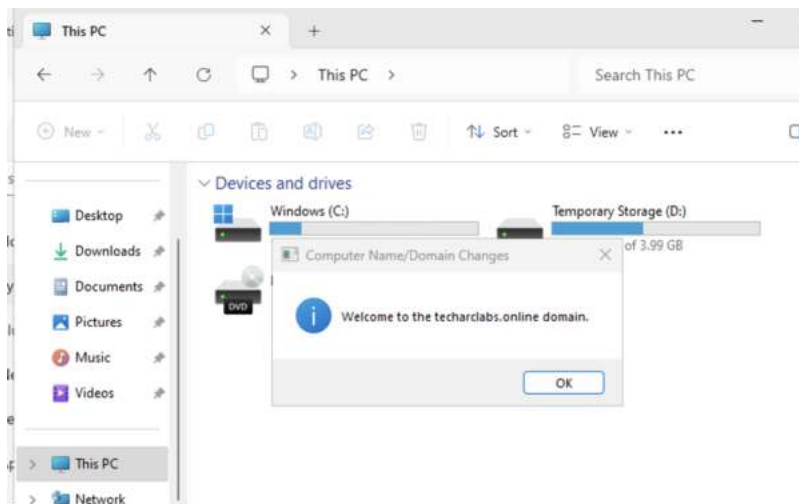


Edition

1. Click change to change its domain or workgroup

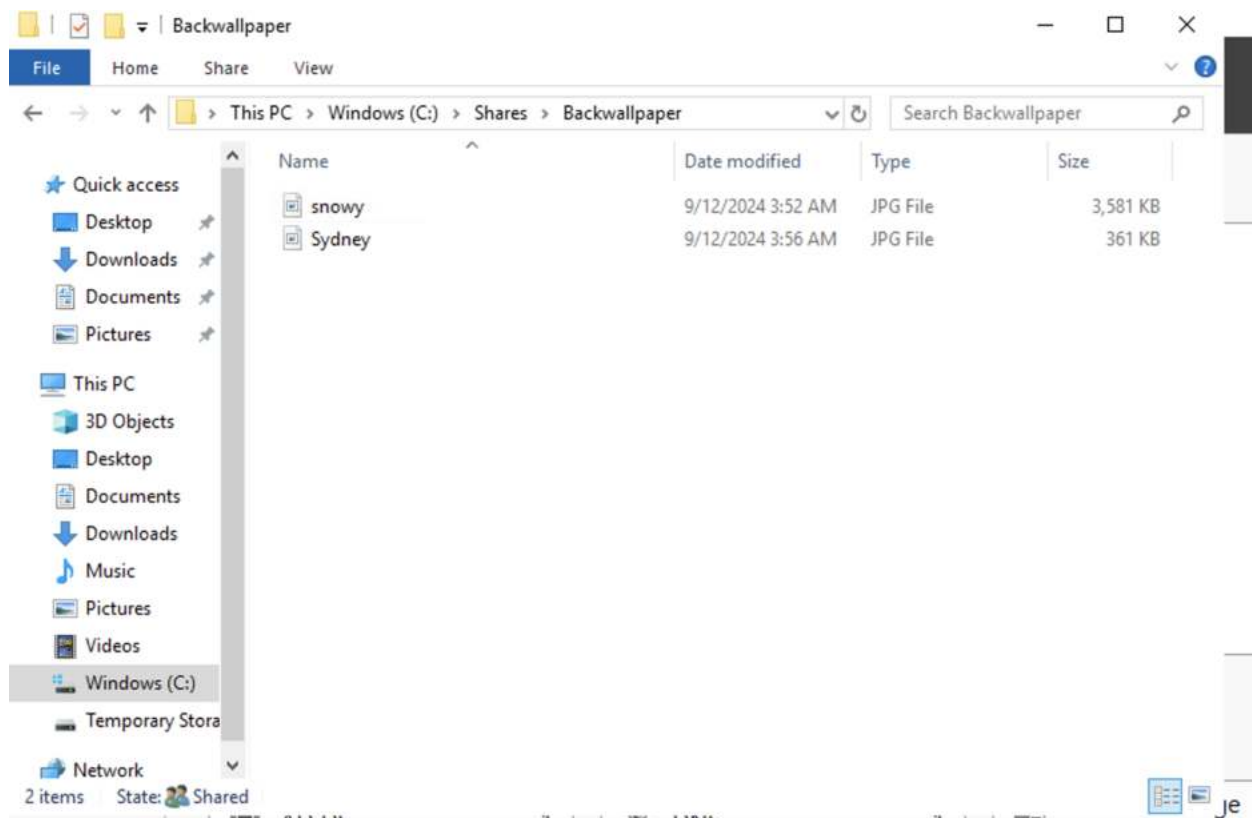
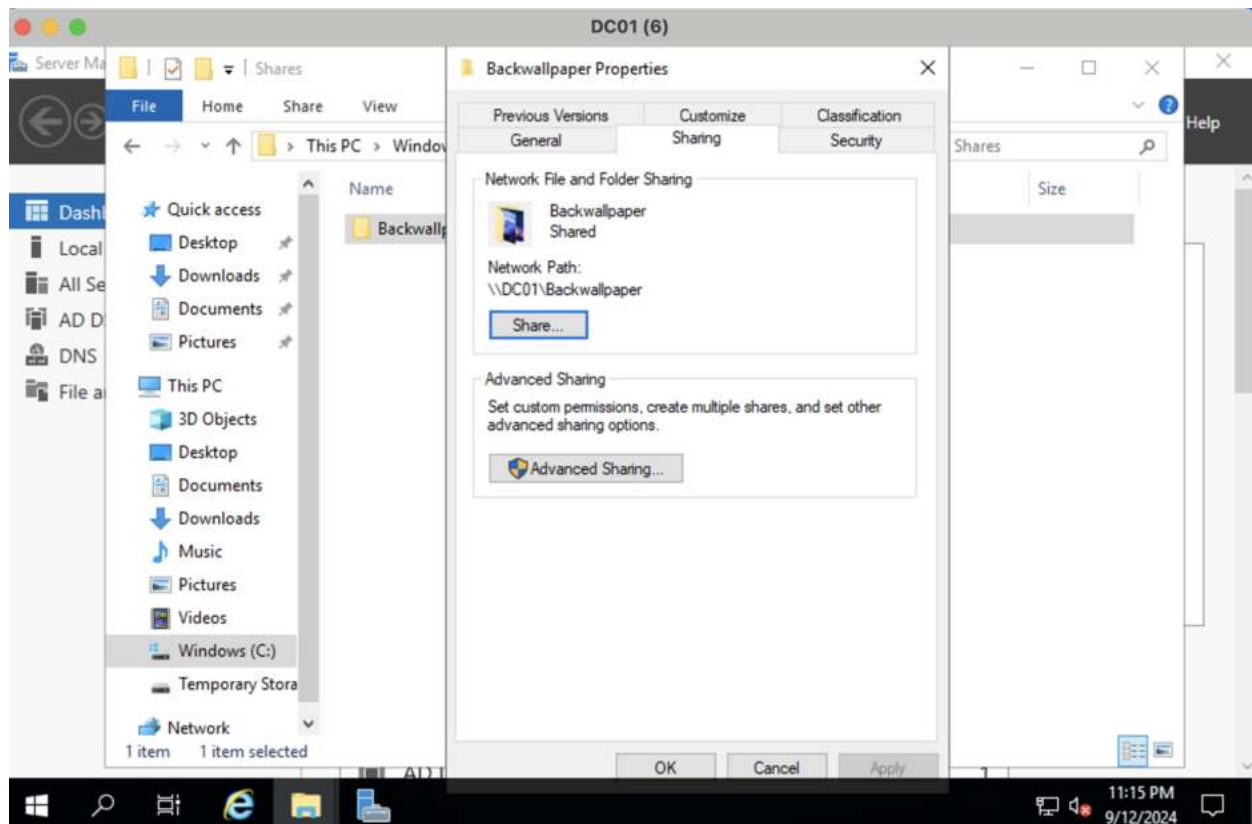


2. Enter the domain administrator credential to change workgroup to domain



Using group policy, change the wallpaper of all the members to Snowy Mountain in your specific organizational unit.

1. To change the wallpaper of members of the Canberra and Sydney organizational unit. We need to create a shared folder which is accessible to all members.



2. Go to Group Policy and Management>Canberra OU>Create GPO in this domain and Link>Name the GPO>edit GPO>User Configuration>Policies>Administrative Templates>Desktop>Desktop>Desktop wallpaper>edit >enable>set Wallpaper name(\\DC01\Back Wallpaper\snowy.jpg)in this case.

Desktop Wallpaper

Desktop Wallpaper

Previous Setting Next Setting

☐ Not Configured ☒ Enabled ☐ Disabled

Comment:

Supported on: At least Windows 2000

Options:

Wallpaper Name:

\\DC01\Backwallpaper\snowy.jpg

Example: Using a local path:
C:\windows\web\wallpaper\home.jpg

Example: Using a UNC path:
\\Server\Share\Corp.jpg

Wallpaper Style: Fill

Help:

Specifies the desktop background ("wallpaper") displayed on all users' desktops.

This setting lets you specify the wallpaper on users' desktops and prevents users from changing the image or its presentation. The wallpaper you specify can be stored in a bitmap (*.bmp) or JPEG (*.jpg) file.

To use this setting, type the fully qualified path and name of the file that stores the wallpaper image. You can type a local path, such as C:\Windows\web\wallpaper\home.jpg or a UNC path, such as \\Server\Share\Corp.jpg. If the specified file is not available when the user logs on, no wallpaper is displayed. Users cannot specify alternative wallpaper. You can also use this setting to specify that the wallpaper image be centered, tiled, or stretched. Users cannot change this specification.

If you disable this setting or do not configure it, no wallpaper is

4. Go to cmd and enforce the group policy using command: gpupdate /force.

Administrator: Command Prompt

```
Microsoft Windows [Version 10.0.17763.6293]  
(c) 2018 Microsoft Corporation. All rights reserved.
```

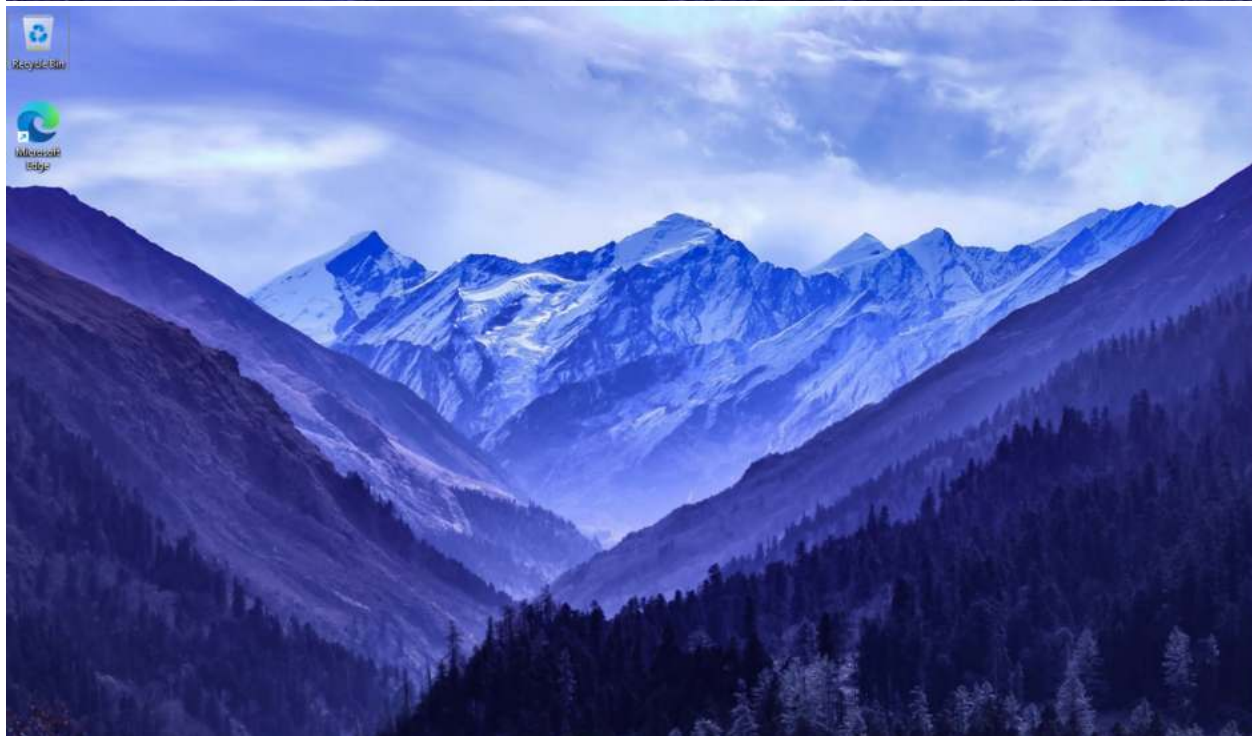
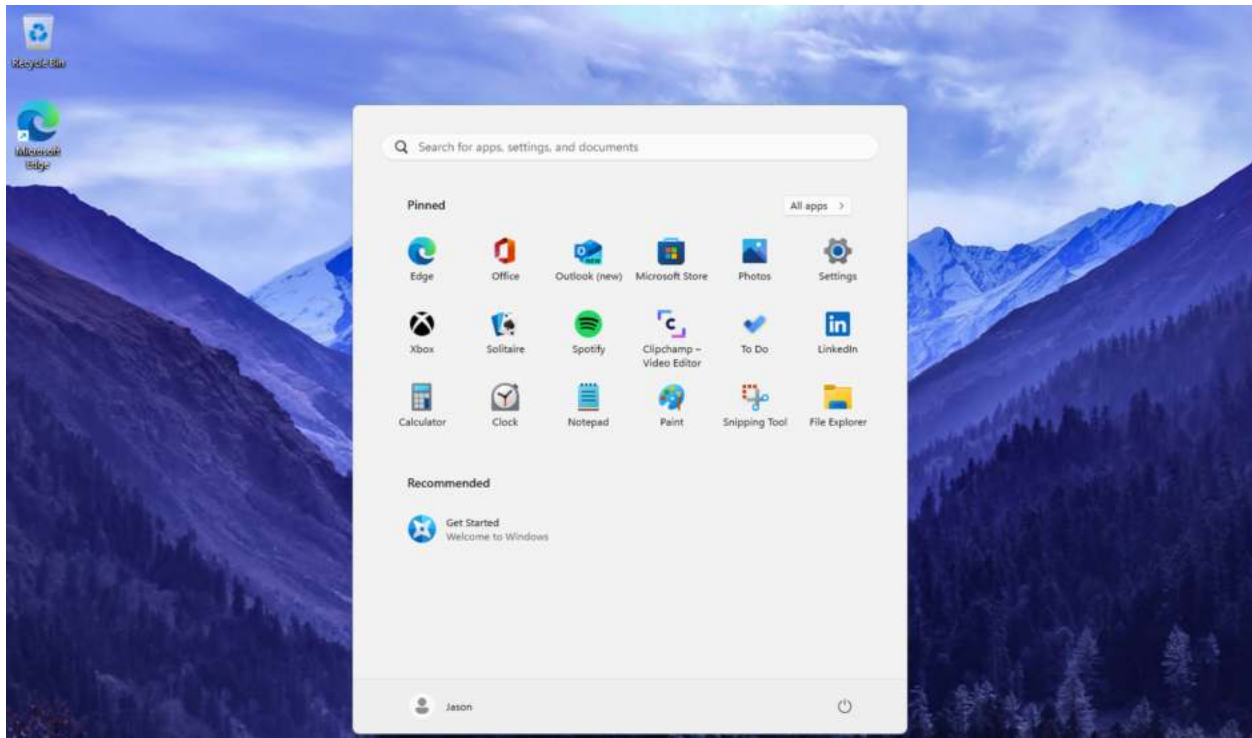
```
C:\Users\dcadmin01>gpupdate /force  
Updating policy...
```

```
Computer Policy update has completed successfully.  
User Policy update has completed successfully.
```

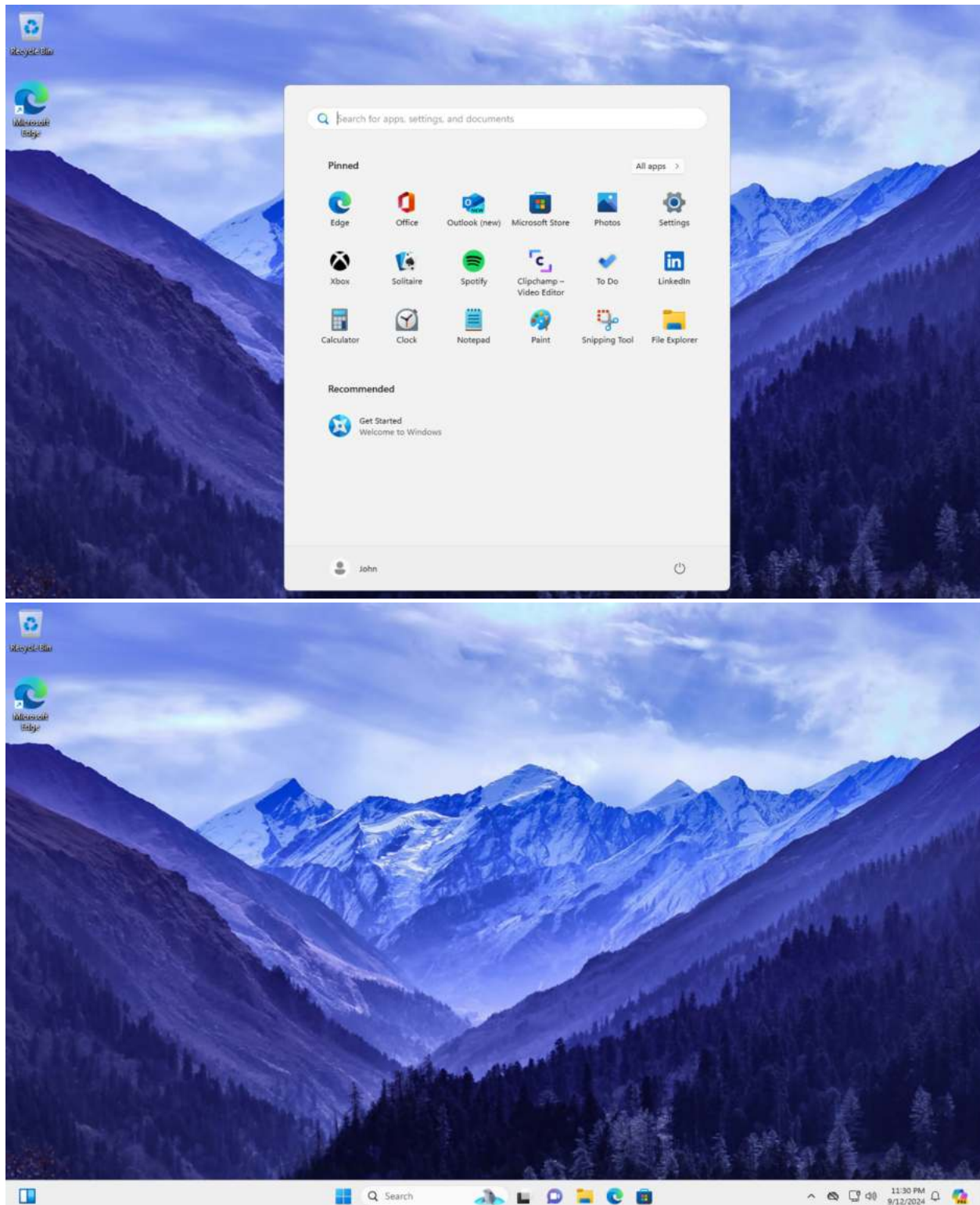
```
C:\Users\dcadmin01>_
```

5. Our users from Canberra OU are Jason and John. So they should have Snowy Mountain Wallpaper.

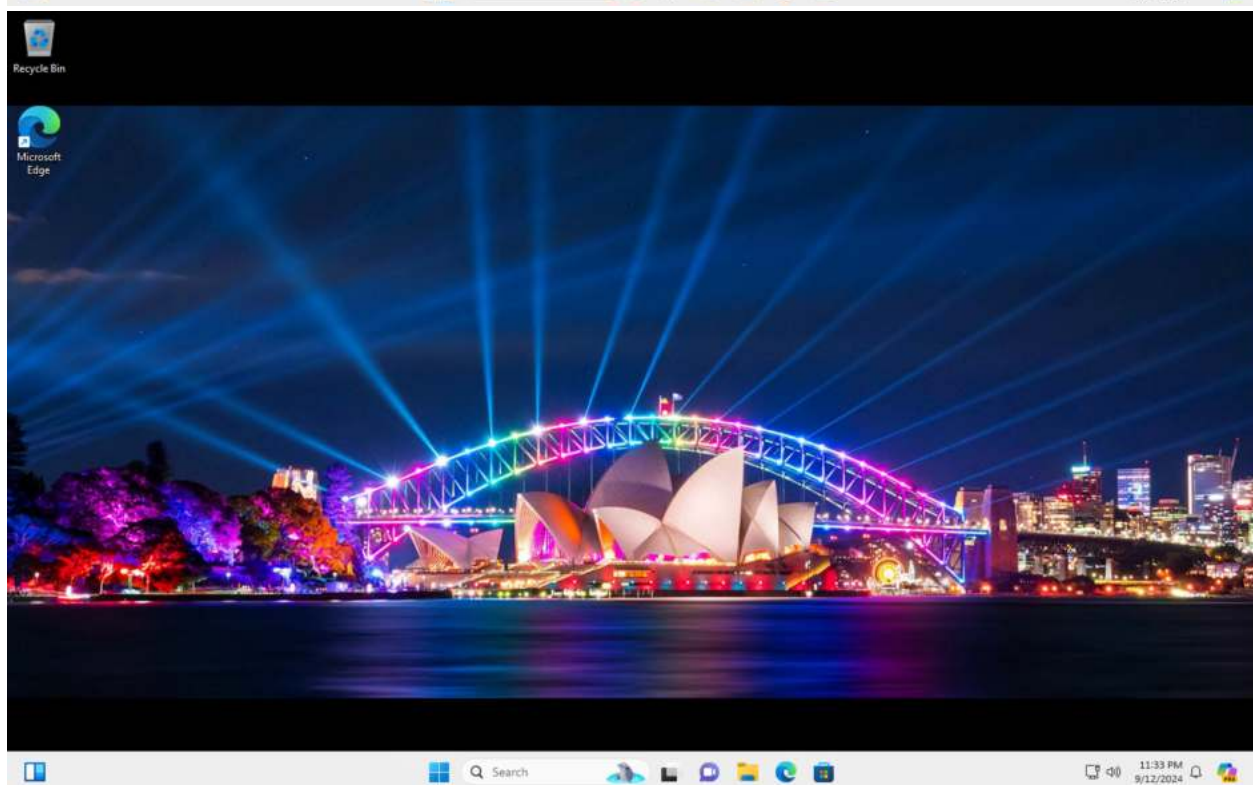
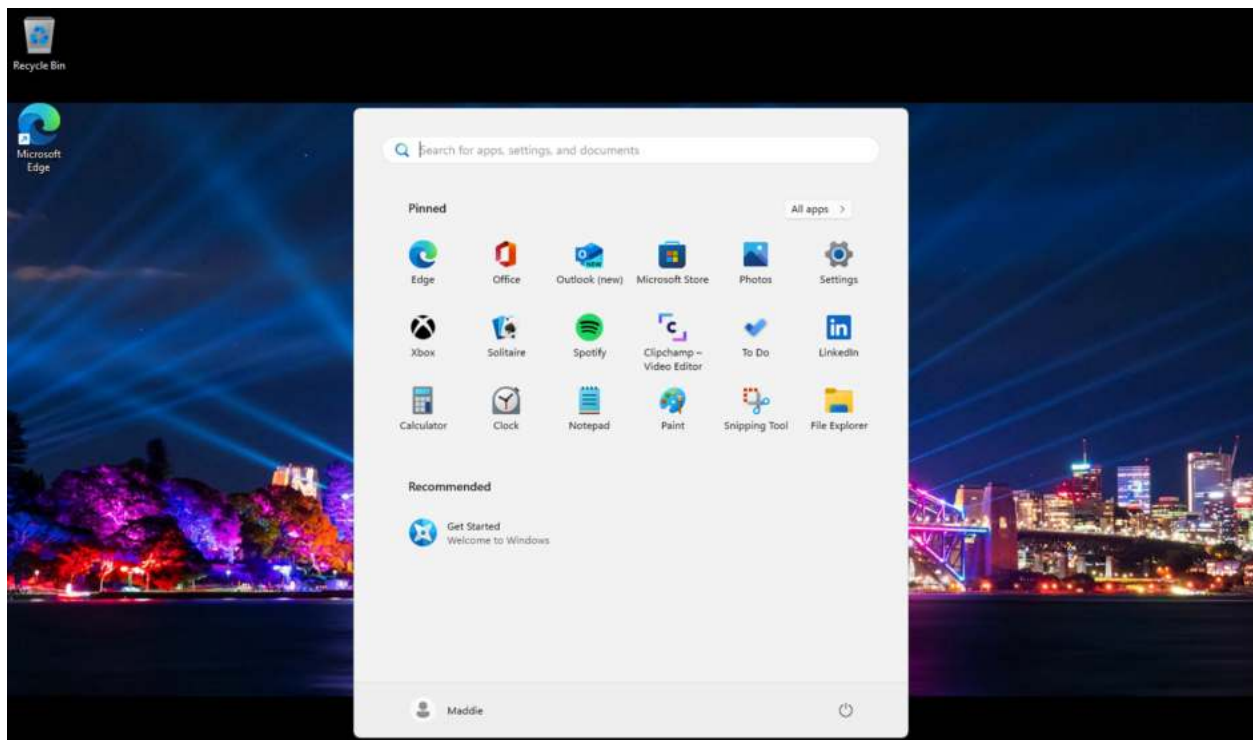
Jason Wallpaper



John Wallpaper



6. Maddie and Mary are from Sydney OU and they should have Harbour Bridge Wallpaper.
Maddie Wallpaper



Mary Wallpaper

