Name: Muhammad Osama

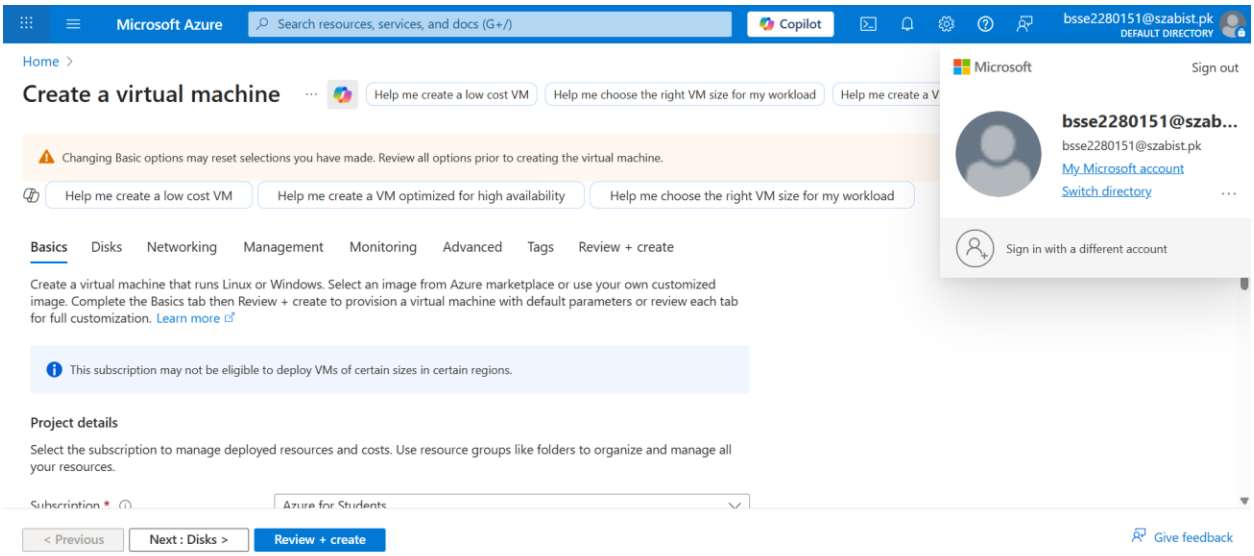
Registration no: 2280151

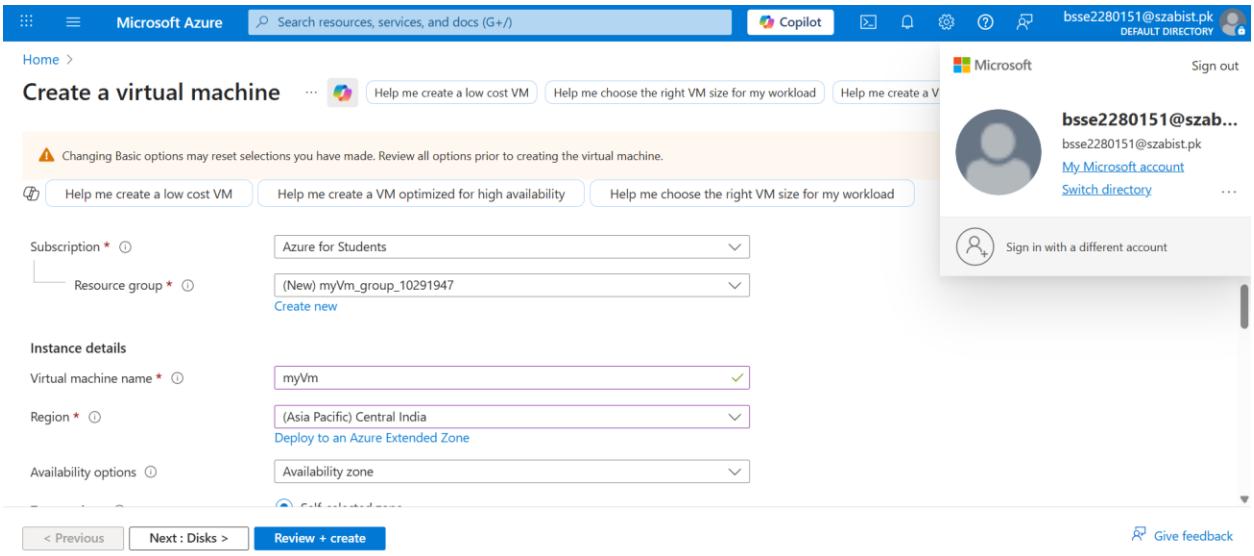
Program: BSSE

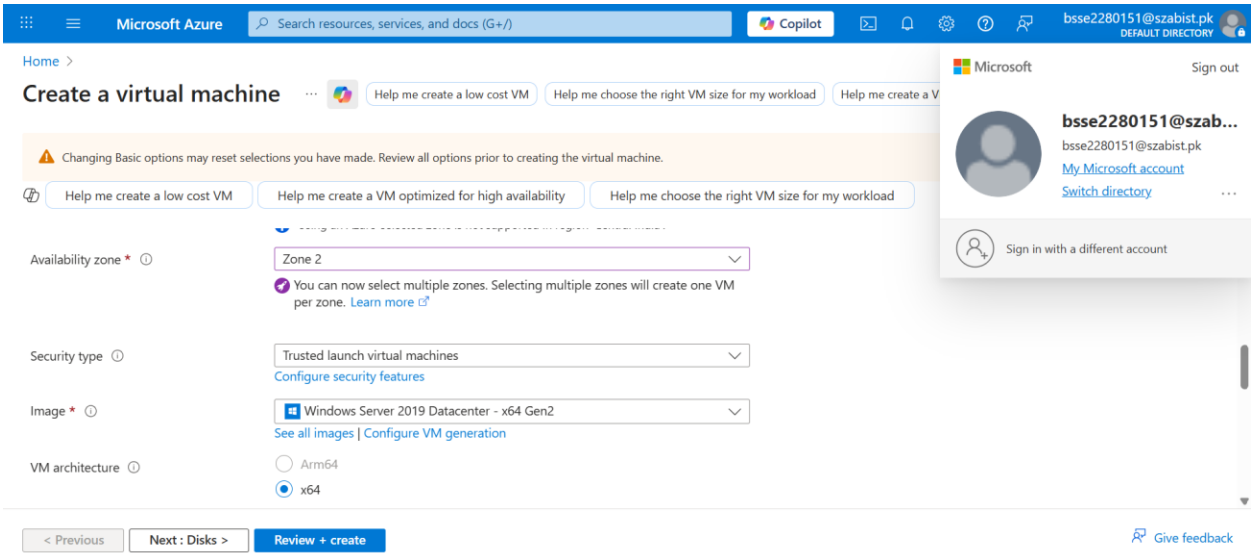
Section: B

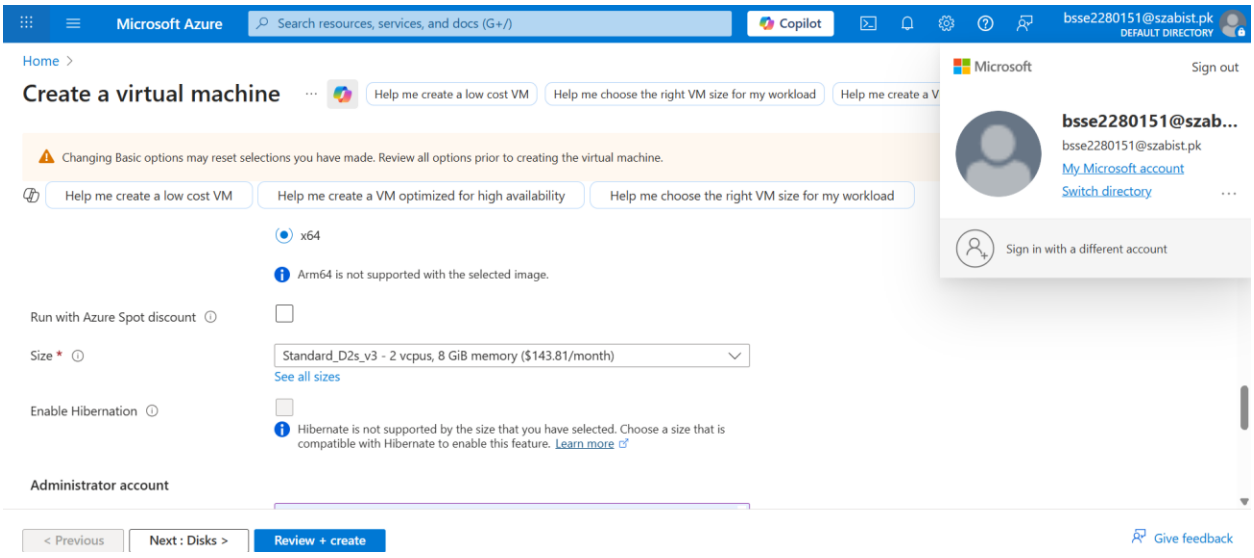
LAB 01 - Create a Virtual Machine in Azure

Task 1: Create the Virtual Machine:






Microsoft Azure
Search resources, services, and docs (G+/)
Copilot
bsse2280151@szabist.pk
DEFAULT DIRECTORY
Home
Create a virtual machine
Help me create a low cost VM
Help me choose the right VM size for my workload
Help me create a V
Changing Basic options may reset selections you have made. Review all options prior to creating the 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
Availability zone *
Zone 2
You can now select multiple zones. Selecting multiple zones will create one VM per zone. Learn more
Security type
Trusted launch virtual machines
Configure security features
Image *
Windows Server 2019 Datacenter - x64 Gen2
See all images | Configure VM generation
VM architecture
Arm64
x64
< Previous
Next : Disks >
Review + create
Give feedback
Microsoft
Sign out
bsse2280151@szab...
bsse2280151@szabist.pk
My Microsoft account
Switch directory
Sign in with a different account


Microsoft Azure
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Copilot
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DEFAULT DIRECTORY
Home
Create a virtual machine
Help me create a low cost VM
Help me choose the right VM size for my workload
Help me create a V
Changing Basic options may reset selections you have made. Review all options prior to creating the 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
x64
Arm64 is not supported with the selected image.
Run with Azure Spot discount
Size *
Standard_D2s_v3 - 2 vcpus, 8 GiB memory ($143.81/month)
See all sizes
Enable Hibernation
Hibernate is not supported by the size that you have selected. Choose a size that is compatible with Hibernate to enable this feature. Learn more
Administrator account
< Previous
Next : Disks >
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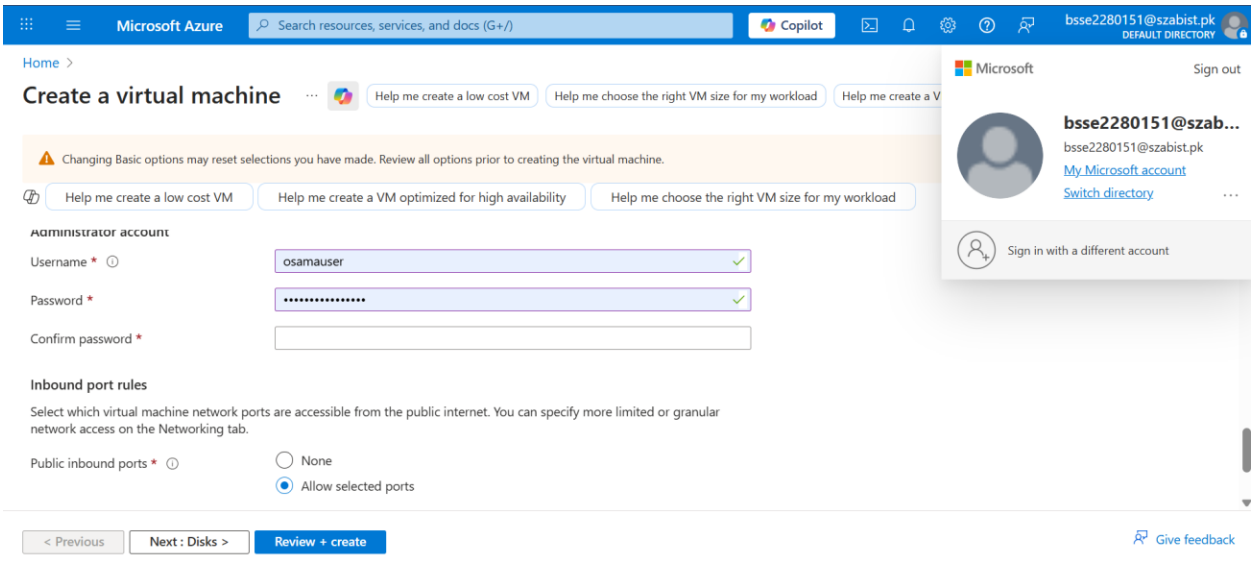
bsse2280151@szabist.pk
My Microsoft account
Switch directory
Sign in with a different account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Home
Create a virtual machine
Help me create a low cost VM
Help me choose the right VM size for my workload
Changing Basic options may reset selections you have made. Review all options prior to creating the 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
Administrator account
Username *
osamauser
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 *
None
Allow selected ports
< Previous
Next : Disks >
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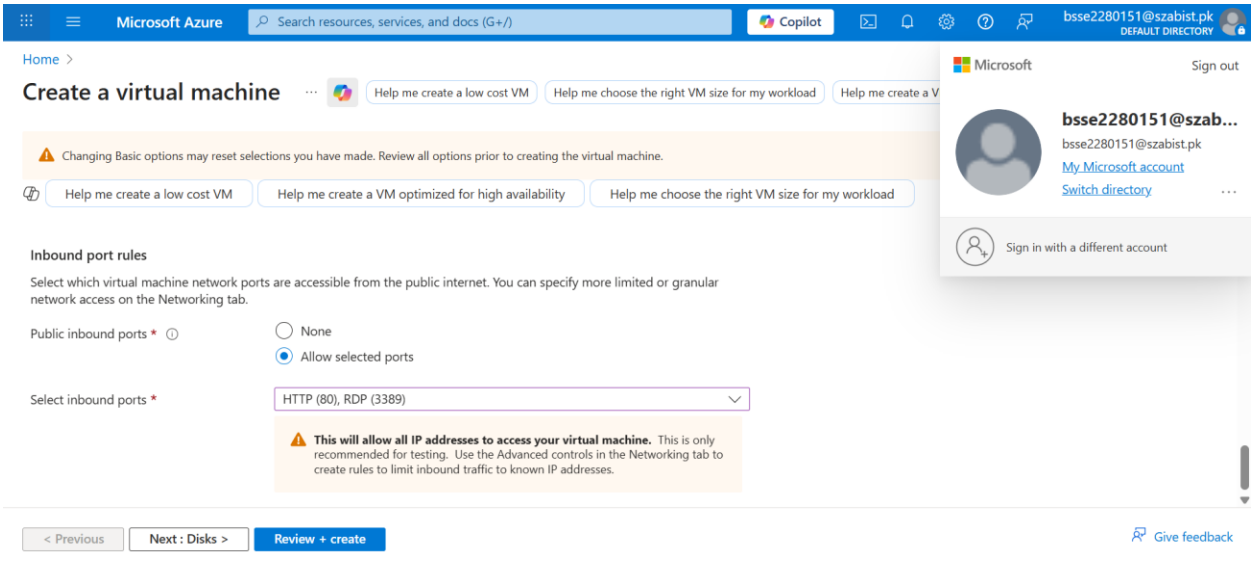
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Home
Create a virtual machine
Help me create a low cost VM
Help me choose the right VM size for my workload
Changing Basic options may reset selections you have made. Review all options prior to creating the virtual machine.
Help me create a low cost VM
Help me create a VM optimized for high availability
Help me choose the right VM size for my workload
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 *
None
Allow selected ports
Select inbound ports *
HTTP (80), RDP (3389)
This will allow all IP addresses to access your virtual machine. This is only recommended for testing. Use the Advanced controls in the Networking tab to create rules to limit inbound traffic to known IP addresses.
< Previous
Next : Disks >
Review + create
Give feedback
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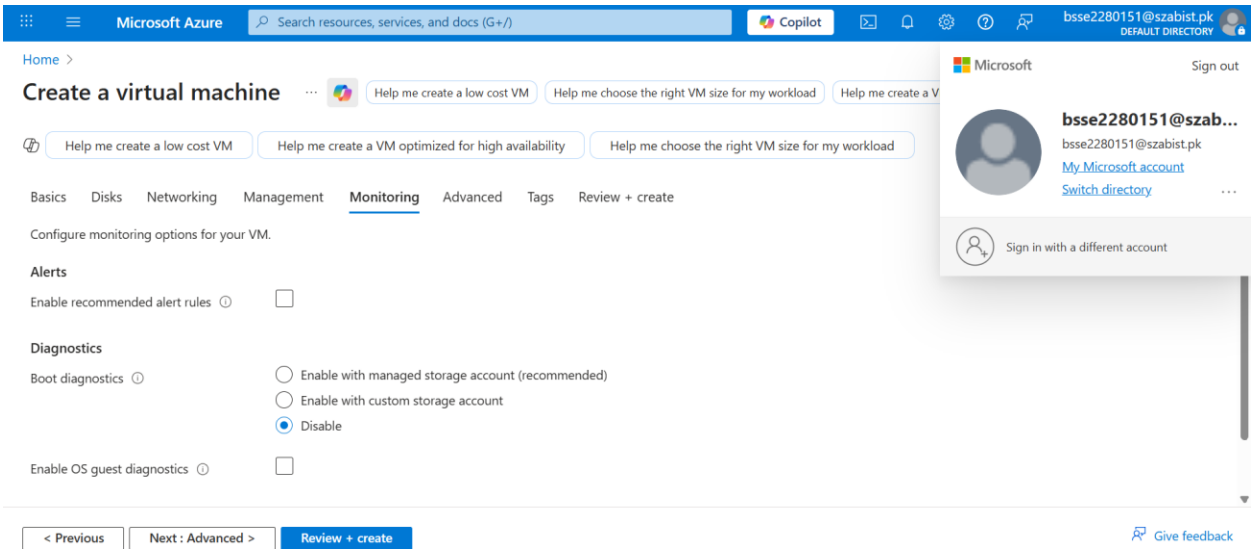
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DEFAULT DIRECTORY
Home
Create a virtual machine
Help me create a low cost VM
Help me choose the right VM size for my workload
Help me create a VM optimized for high availability
Basics
Disks
Networking
Management
Monitoring
Advanced
Tags
Review + create
Configure monitoring options for your VM.
Alerts
Enable recommended alert rules
Diagnostics
Boot diagnostics
Enable with managed storage account (recommended)
Enable with custom storage account
Disable
Enable OS guest diagnostics
< Previous
Next : Advanced >
Review + create
Give feedback
Microsoft
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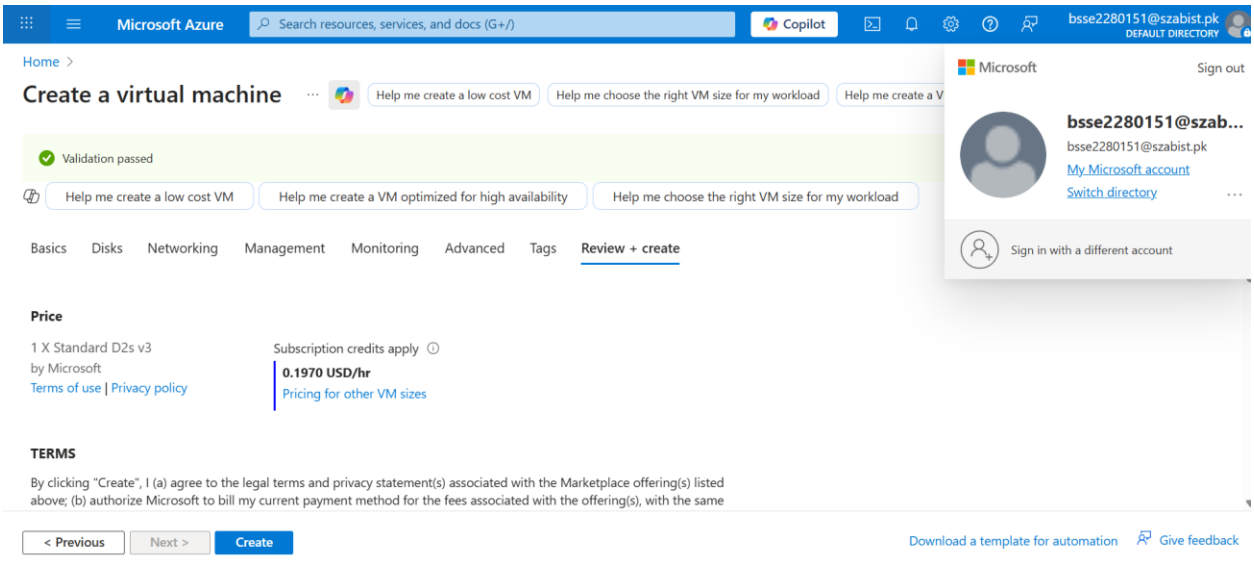
bsse2280151@szabist.pk
My Microsoft account
Switch directory
Sign in with a different account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Copilot
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DEFAULT DIRECTORY
Home
Create a virtual machine
Help me create a low cost VM
Help me choose the right VM size for my workload
Validation passed
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
Price
1 X Standard D2s v3
by Microsoft
Terms of use | Privacy policy
Subscription credits apply
0.1970 USD/hr
Pricing for other VM sizes
TERMS
By clicking "Create", I (a) agree to the legal terms and privacy statement(s) associated with the Marketplace offering(s) listed above; (b) authorize Microsoft to bill my current payment method for the fees associated with the offering(s), with the same
< Previous
Next >
Create
Download a template for automation
Give feedback
Microsoft
Sign out
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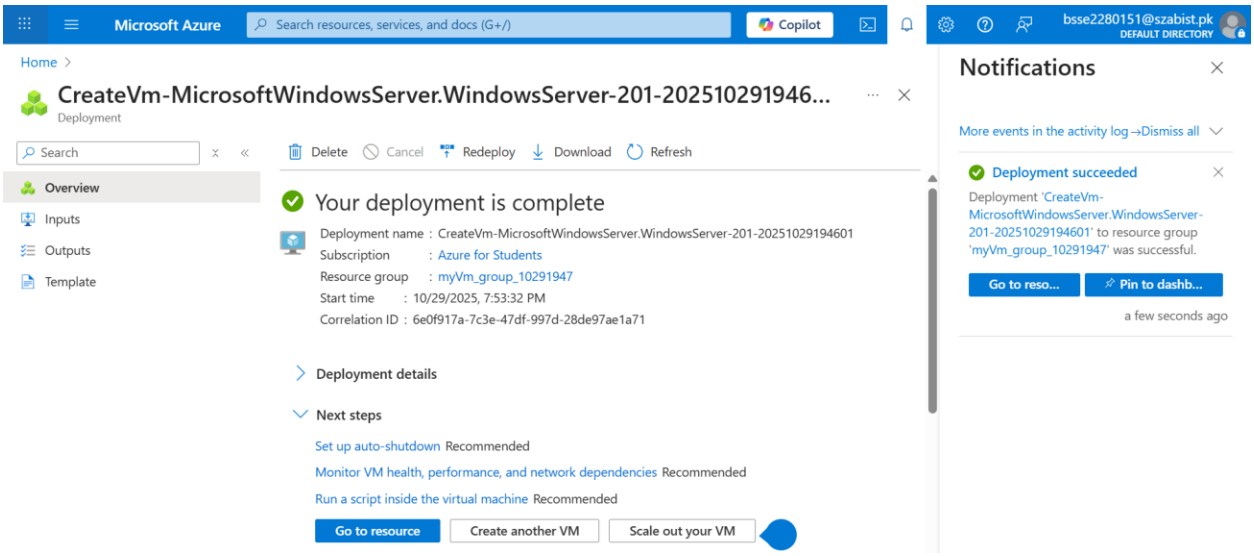
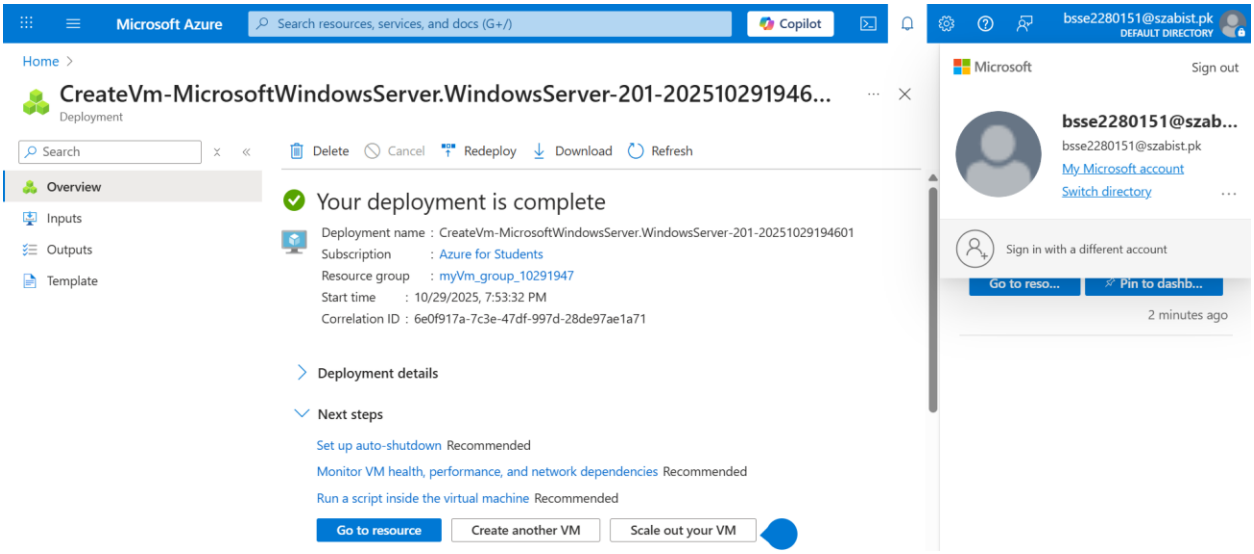
bsse2280151@szabist.pk
My Microsoft account
Switch directory
Sign in with a different account


Microsoft Azure
Search resources, services, and docs (G+/)
Copilot
bsse2280151@szabist.pk
DEFAULT DIRECTORY
Home
CreateVm-MicrosoftWindowsServer.WindowsServer-201-202510291946...
Deployment
Search
Overview
Inputs
Outputs
Template
Delete
Cancel
Redeploy
Download
Refresh
Your deployment is complete
Deployment name : CreateVm-MicrosoftWindowsServer.WindowsServer-201-20251029194601
Subscription : Azure for Students
Resource group : myVm_group_10291947
Start time : 10/29/2025, 7:53:32 PM
Correlation ID : 6e0f917a-7c3e-47df-997d-28de97ae1a71
Deployment details
Next steps
Set up auto-shutdown Recommended
Monitor VM health, performance, and network dependencies Recommended
Run a script inside the virtual machine Recommended
Go to resource
Create another VM
Scale out your VM
Notifications
More events in the activity log → Dismiss all
Deployment succeeded
Deployment 'CreateVm-MicrosoftWindowsServer.WindowsServer-201-20251029194601' to resource group 'myVm_group_10291947' was successful.
Go to reso...
Pin to dashb...
a few seconds ago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Copilot
bsse2280151@szabist.pk
DEFAULT DIRECTORY
Home
CreateVm-MicrosoftWindowsServer.WindowsServer-201-202510291946...
Deployment
Search
Overview
Inputs
Outputs
Template
Delete
Cancel
Redeploy
Download
Refresh
Your deployment is complete
Deployment name : CreateVm-MicrosoftWindowsServer.WindowsServer-201-20251029194601
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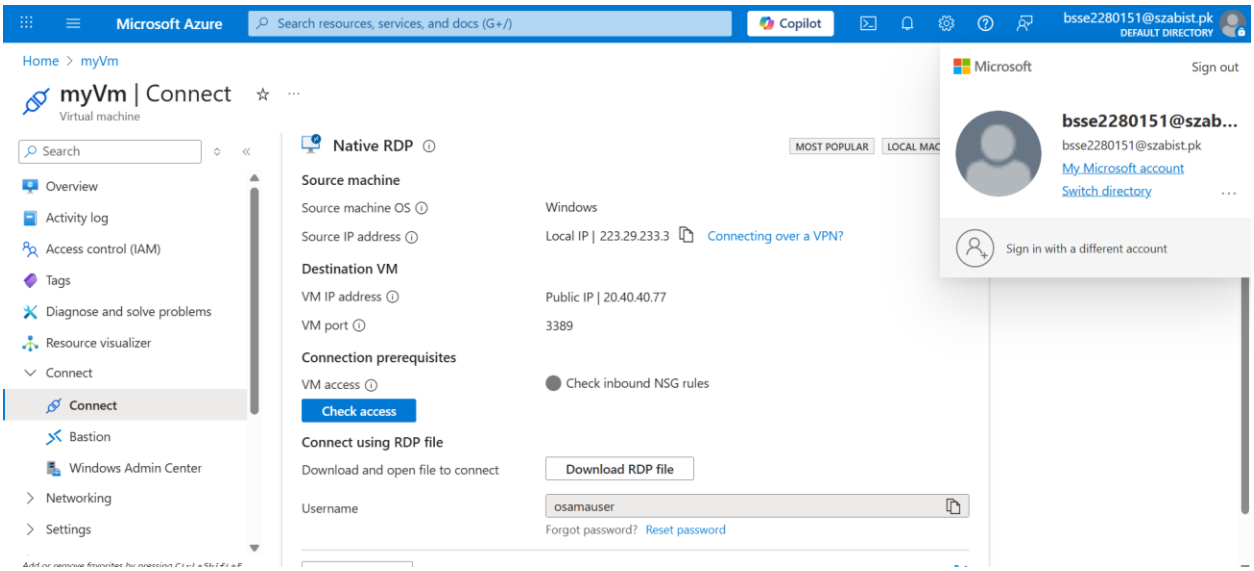
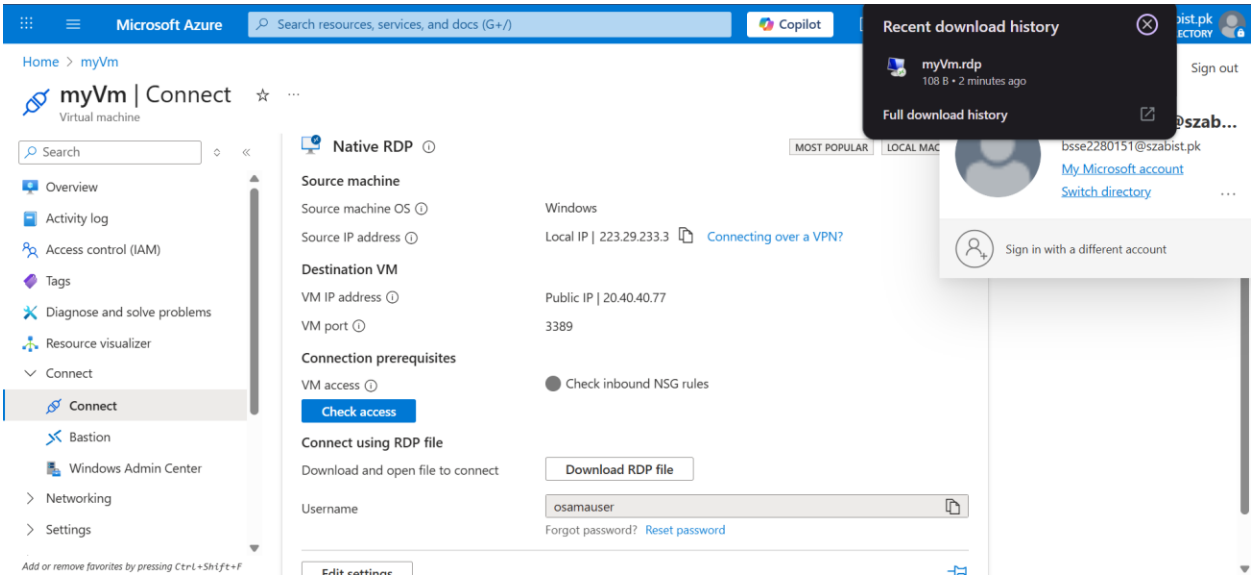
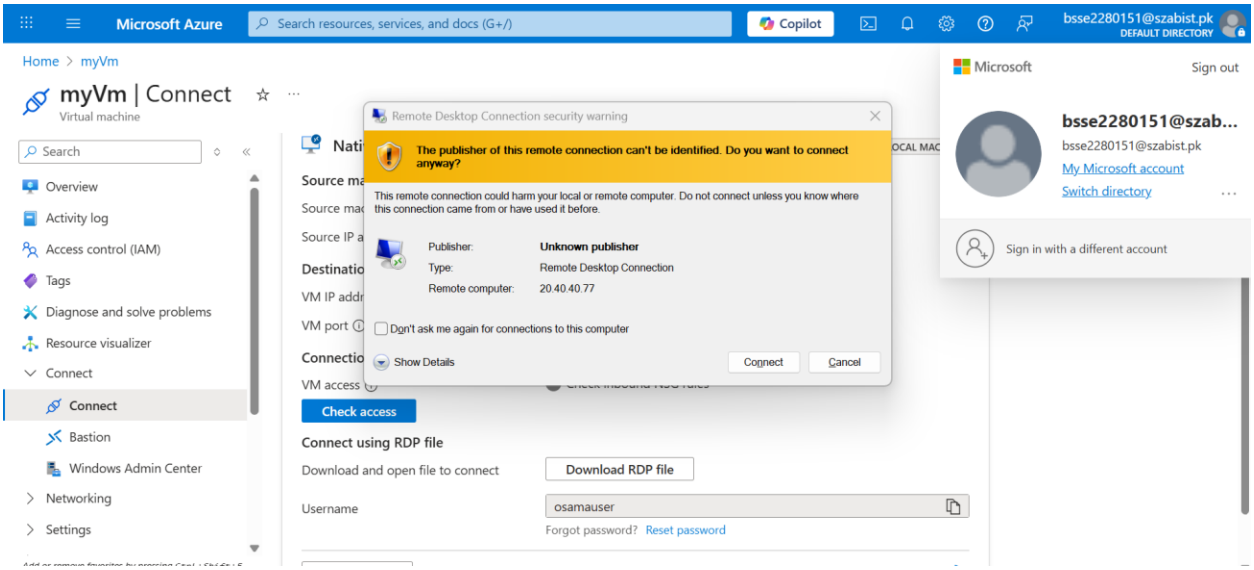
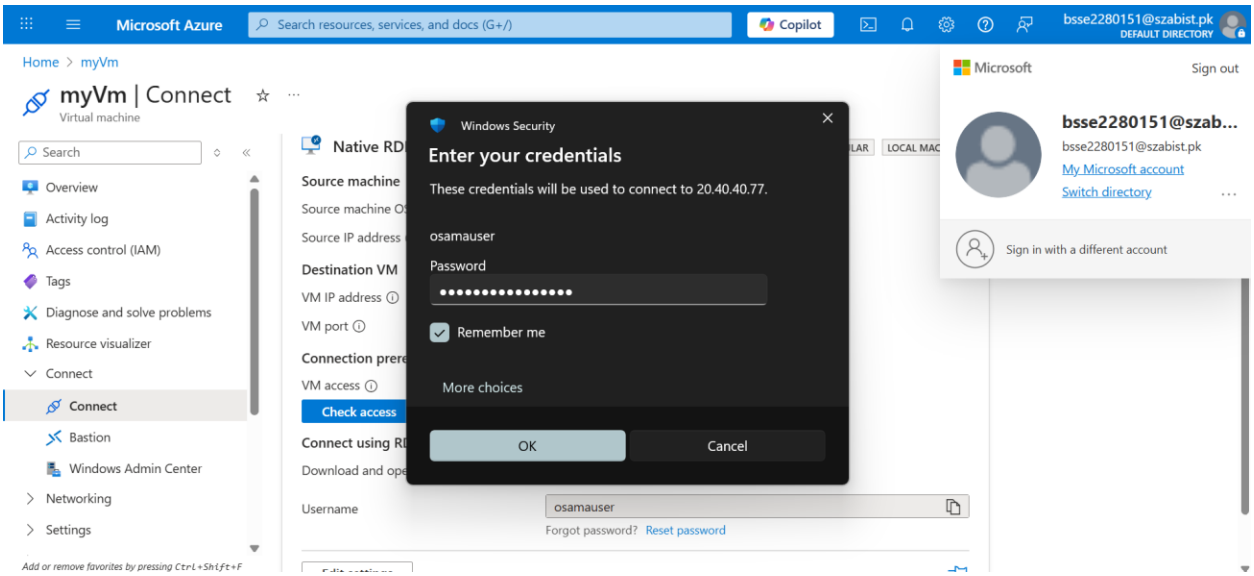
Deployment details
Next steps
Set up auto-shutdown Recommended
Monitor VM health, performance, and network dependencies Recommended
Run a script inside the virtual machine Recommended
Go to resource
Create another VM
Scale out your VM
Microsoft
Sign out
bsse2280151@szab...
bsse2280151@szabist.pk
My Microsoft account
Switch directory
Sign in with a different account
Go to reso...
Pin to dashb...
2 minutes ago

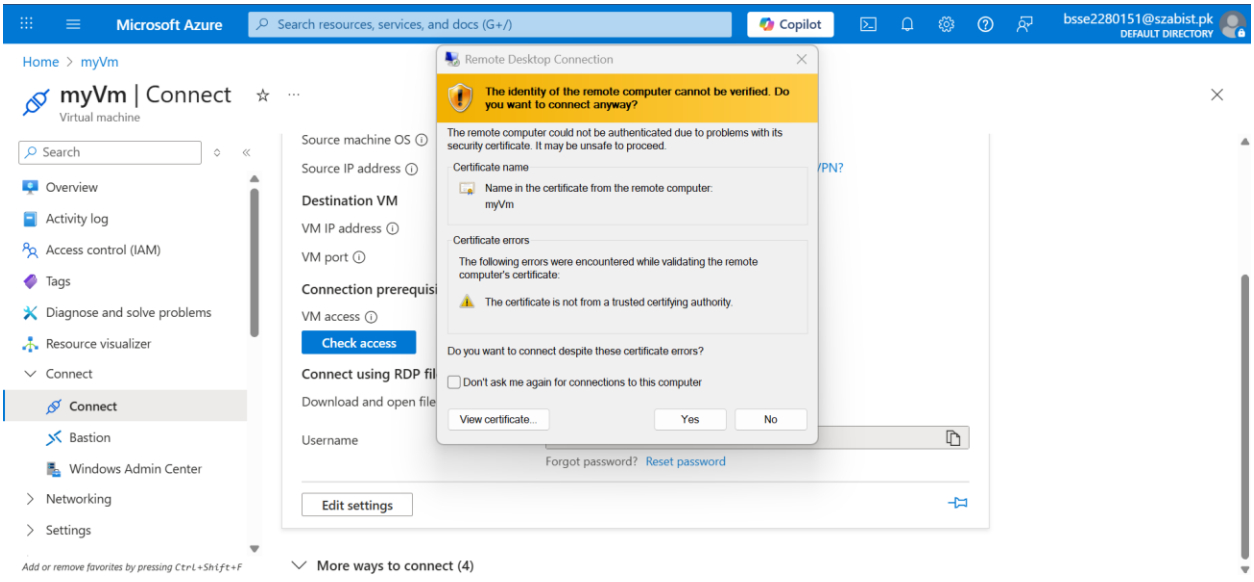
Task 02 - Connect to the Virtual Machine

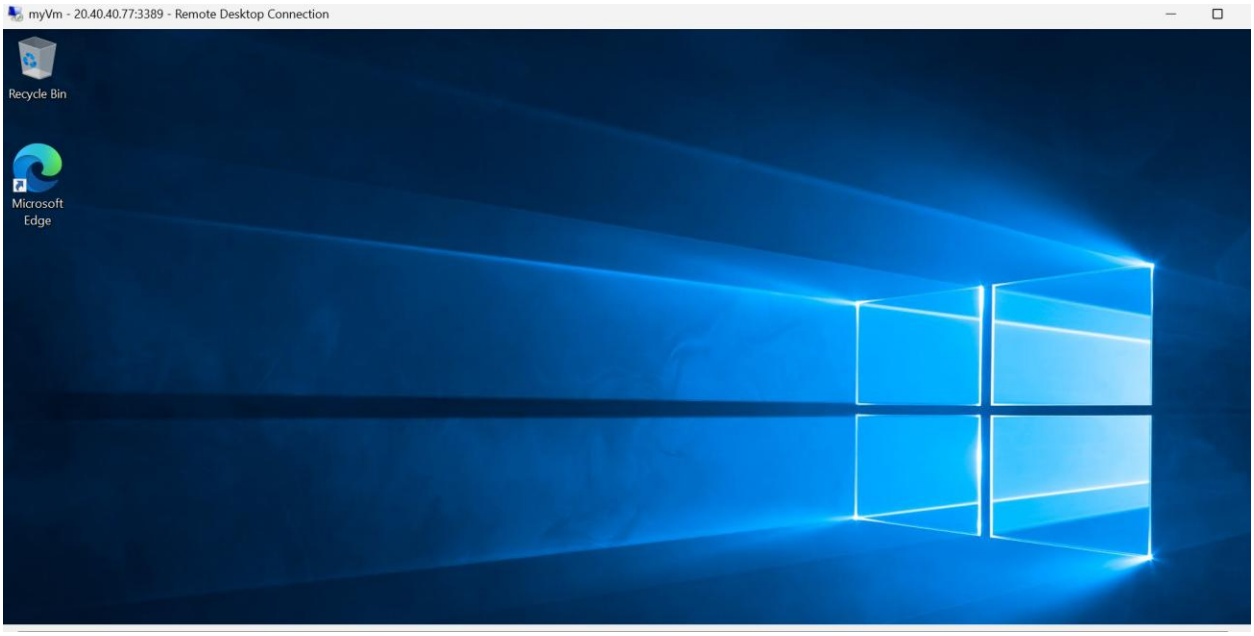




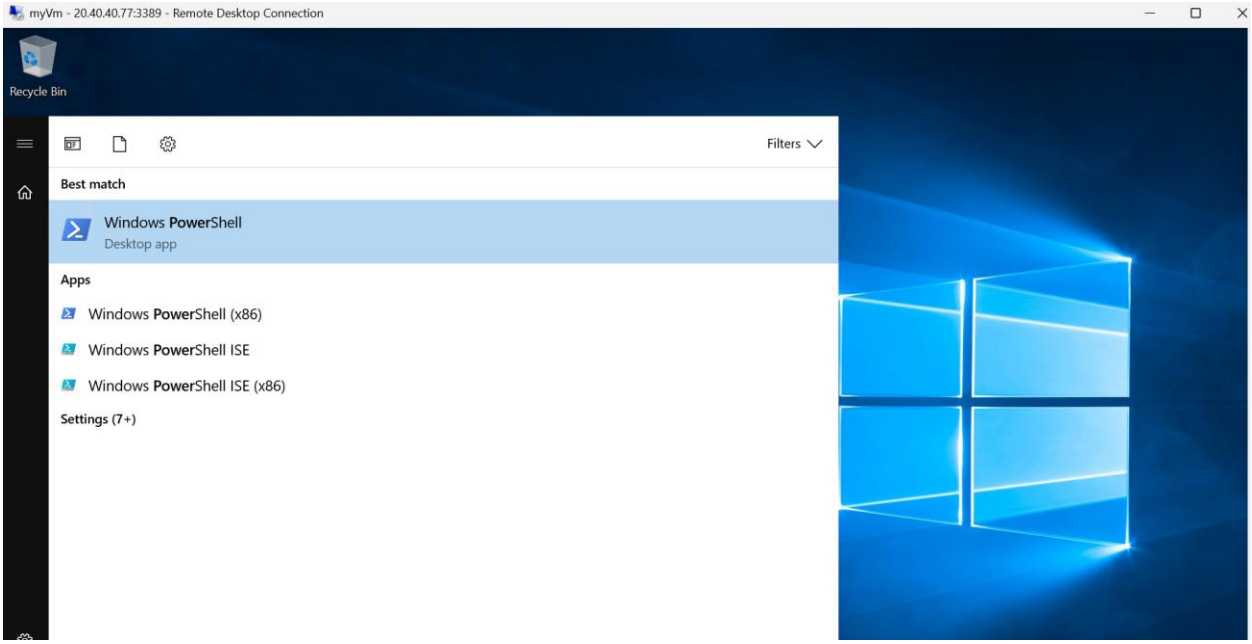

Microsoft Azure
Search resources, services, and docs (G+/)
Copilot
bsse2280151@szabist.pk
DEFAULT DIRECTORY
Home > myVm
myVm | Connect
Virtual machine
Search
Overview
Activity log
Access control (IAM)
Tags
Diagnose and solve problems
Resource visualizer
Connect
Connect
Bastion
Windows Admin Center
Networking
Settings
Remote Desktop Connection security warning
The publisher of this remote connection can't be identified. Do you want to connect anyway?
This remote connection could harm your local or remote computer. Do not connect unless you know where this connection came from or have used it before.
Publisher: Unknown publisher
Type: Remote Desktop Connection
Remote computer: 20.40.40.77
Don't ask me again for connections to this computer
Show Details
Connect
Cancel
Check access
Connect using RDP file
Download and open file to connect
Download RDP file
Username
osamauser
Forgot password? Reset password
Microsoft
Sign out
bsse2280151@szab...
bsse2280151@szabist.pk
My Microsoft account
Switch directory
Sign in with a different account

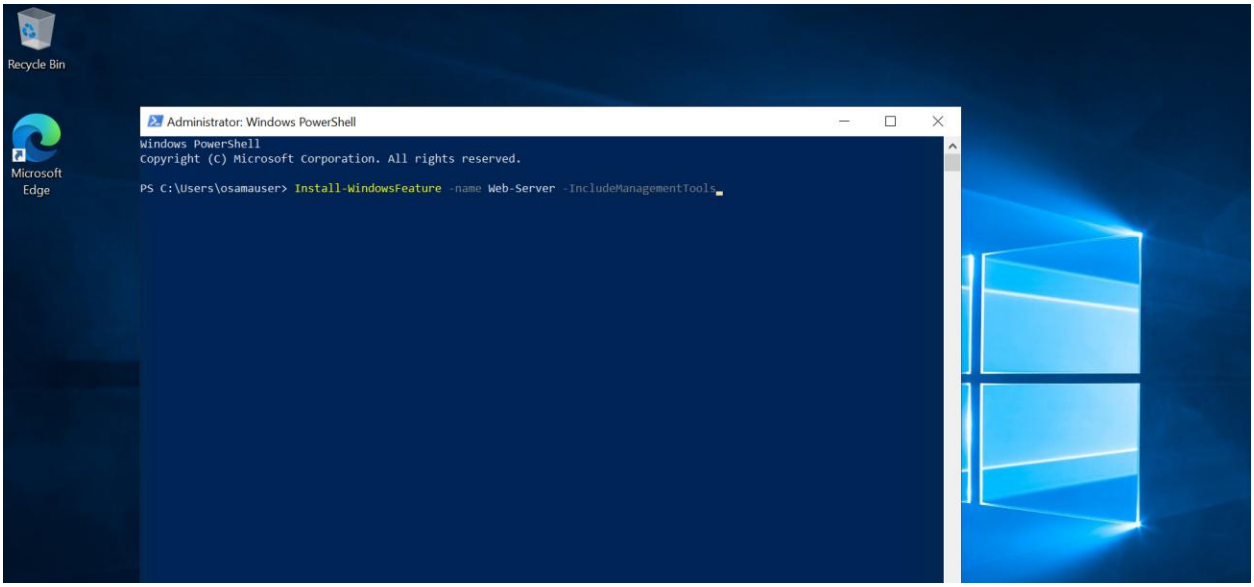

Microsoft Azure
Search resources, services, and docs (G+/)
Copilot
bsse2280151@szabist.pk
DEFAULT DIRECTORY
Home > myVm
myVm | Connect
Virtual machine
Search
Overview
Activity log
Access control (IAM)
Tags
Diagnose and solve problems
Resource visualizer
Connect
Connect
Bastion
Windows Admin Center
Networking
Settings
Windows Security
Enter your credentials
These credentials will be used to connect to 20.40.40.77.
osamauser
Password
Remember me
More choices
OK
Cancel
Check access
Username
osamauser
Forgot password? Reset password
Microsoft
Sign out
bsse2280151@szab...
bsse2280151@szabist.pk
My Microsoft account
Switch directory
Sign in with a different account

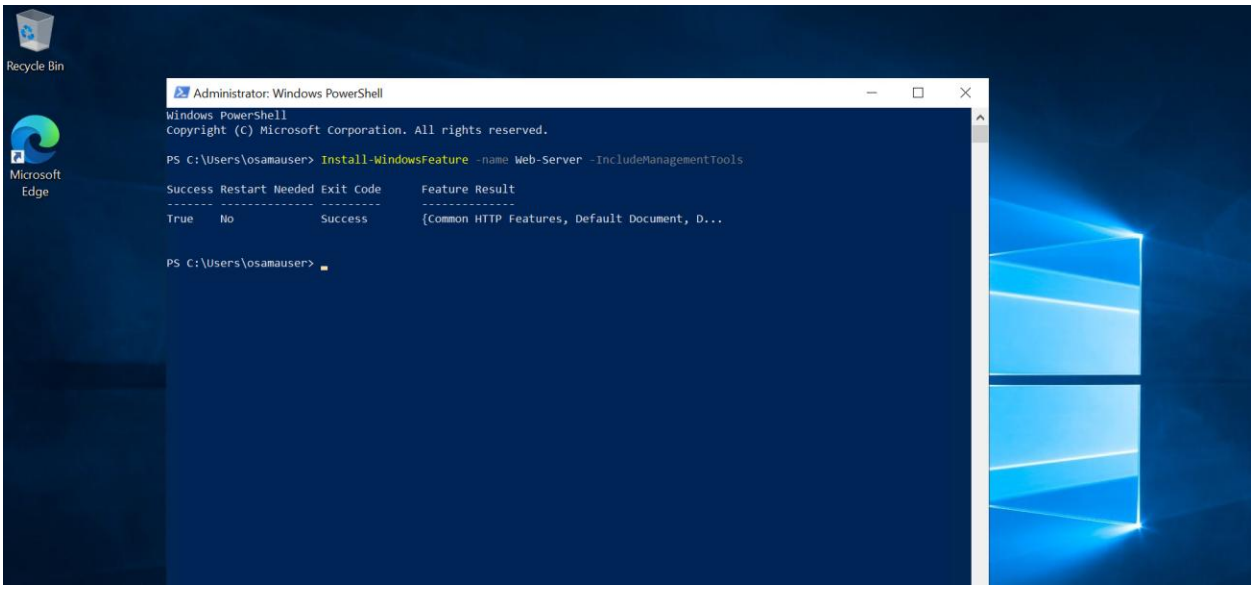

Microsoft Azure
Search resources, services, and docs (G+/)
Copilot
bsse2280151@szabist.pk
DEFAULT DIRECTORY
Home > myVm
myVm | Connect
Virtual machine
Search
Overview
Activity log
Access control (IAM)
Tags
Diagnose and solve problems
Resource visualizer
Connect
Connect
Bastion
Windows Admin Center
Networking
Settings
Add or remove favorites by pressing Ctrl+Shift+F
Source machine OS
Source IP address
Destination VM
VM IP address
VM port
Connection prerequisi
VM access
Check access
Connect using RDP fil
Download and open file
Username
Forgot password? Reset password
Edit settings
More ways to connect (4)
Remote Desktop Connection
The identity of the remote computer cannot be verified. Do you want to connect anyway?
The remote computer could not be authenticated due to problems with its security certificate. It may be unsafe to proceed.
Certificate name
Name in the certificate from the remote computer:
myVm
Certificate errors
The following errors were encountered while validating the remote computer's certificate:
The certificate is not from a trusted certifying authority.
Do you want to connect despite these certificate errors?
Don't ask me again for connections to this computer
View certificate...
Yes
No

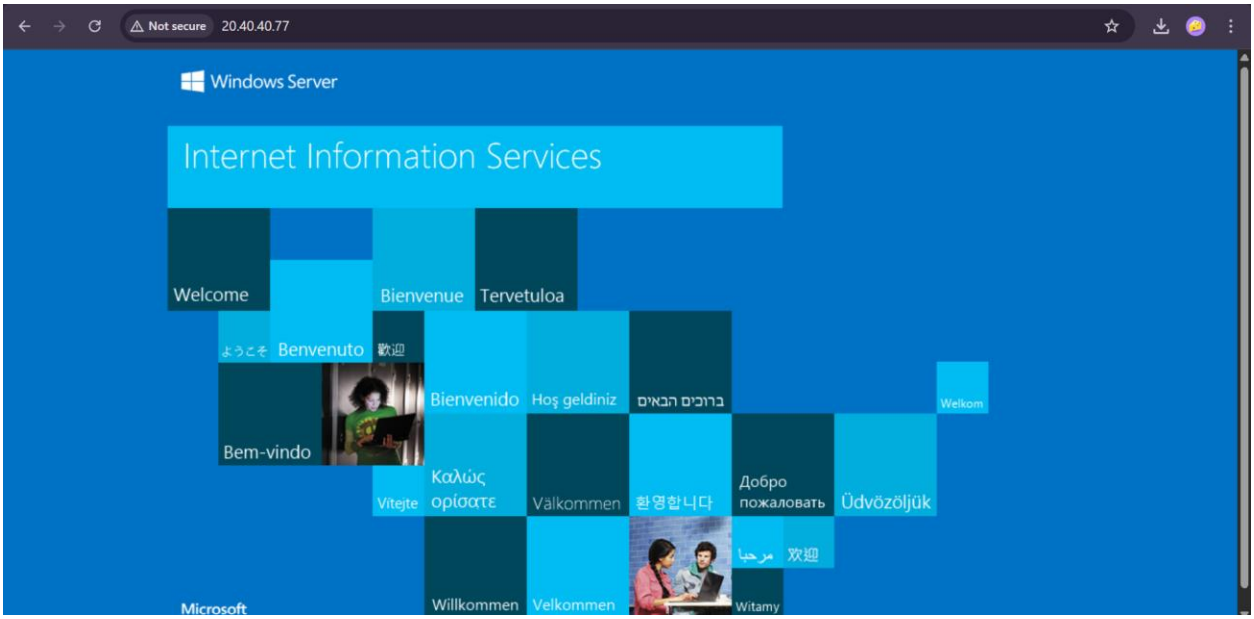

myVm - 20.40.40.77:3389 - Remote Desktop Connection
Recycle Bin
Microsoft Edge

Task 03: Install the Web Server Role and Test






Recycle Bin
Microsoft Edge
Administrator: Windows PowerShell
Windows PowerShell
Copyright (C) Microsoft Corporation. All rights reserved.
PS C:\Users\osamauser> Install-WindowsFeature -name Web-Server -IncludeManagementTools
Success Restart Needed Exit Code Feature Result
True No Success {Common HTTP Features, Default Document, D...
PS C:\Users\osamauser>


Not secure
20.40.40.77
Windows Server
Internet Information Services
Welcome
Bienvenue
Tervetuloa
ようこそ
Benvenuto
歡迎
Bienvenido
Hoş geldiniz
ברוכים הבאים
Welkom
Bem-vindo
Vítejte
Καλώς ορίσατε
Välkommen
환영합니다
Добро пожаловать
Üdvözöljük
مرحبا
欢迎
Willkommen
Velkommen
Witamy
Microsoft