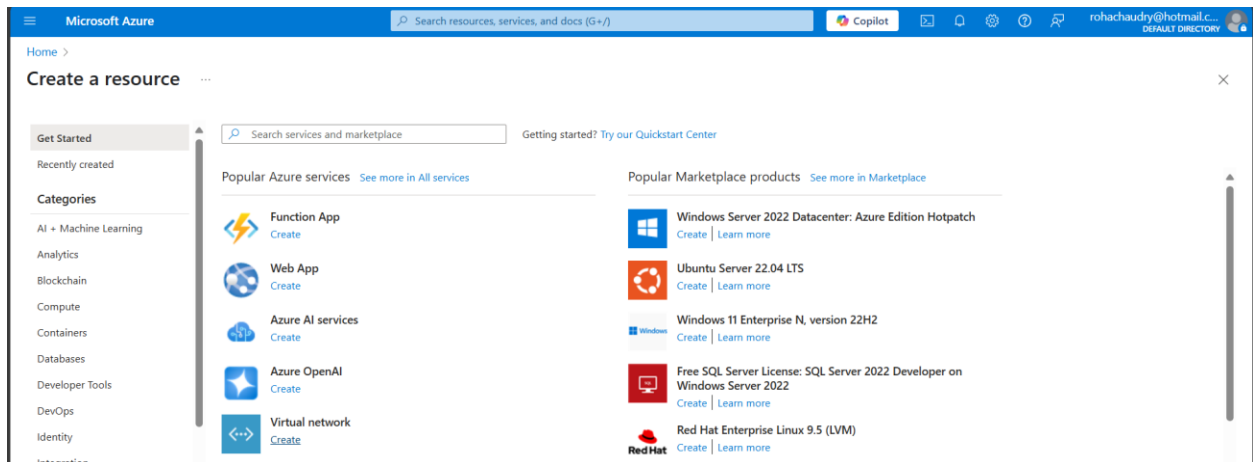


Azure Lab 02

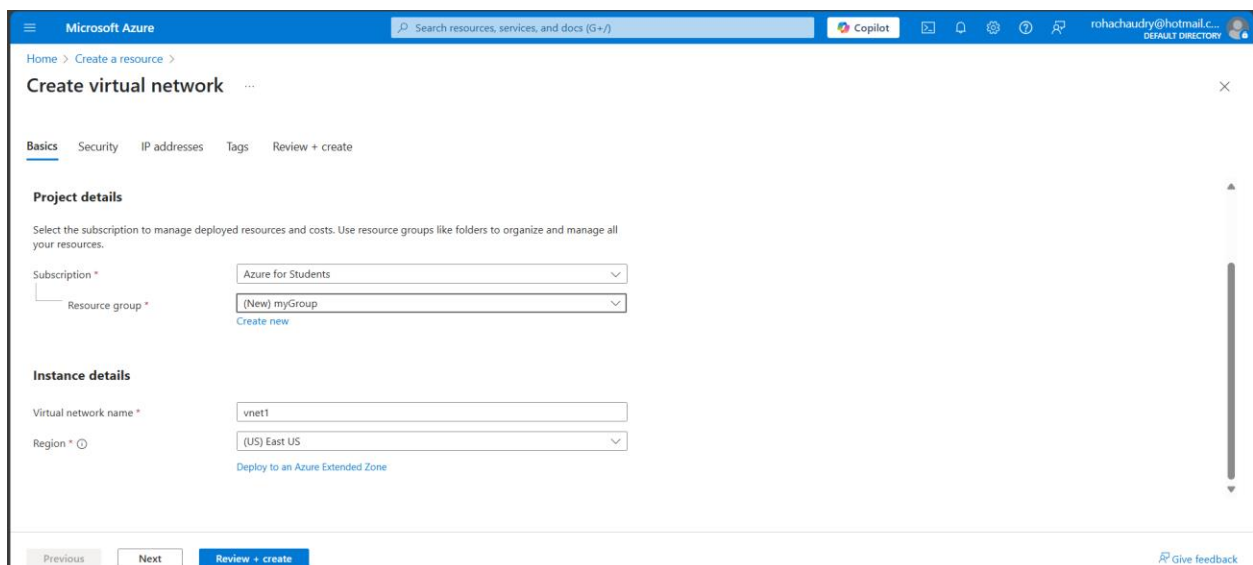
CREATE A VIRTUAL NETWORK, DEPLOY TWO VIRTUAL MACHINES
ONTO THAT VIRTUAL NETWORK AND THEN CONFIGURE THEM TO
ALLOW ONE VIRTUAL MACHINE TO PING THE OTHER WITHIN THAT
VIRTUAL NETWORK

ROHA ALI (2112124)

2. From the All services blade, search for and select Virtual networks, and then click + Add, + Create, + New.



3. On the Basics tab, fill in the following information (leave the defaults for everything else):



4. Click the Review + create button. Ensure the validation passes. Then hit create to deploy the resource.

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Home > Create a resource >

Create virtual network

Basics Security IP addresses Tags **Review + create**

[View automation template](#)

Basics

| | |
|----------------|--------------------|
| Subscription | Azure for Students |
| Resource Group | myGroup |
| Name | vnet1 |
| Region | East US |

Security

| | |
|-------------------------------|----------|
| Azure Bastion | Disabled |
| Azure Firewall | Disabled |
| Azure DDoS Network Protection | Disabled |

IP addresses

| | |
|---------------|--------------------------------|
| Address space | 10.0.0.0/16 (65,536 addresses) |
|---------------|--------------------------------|

Previous Next **Create**

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1. From the All services blade, search for Virtual machines and then click + Add, + Create, + New, from the drop down select Virtual Machine.

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Create virtual network

Basics Security IP addresses Tags **Review + create**

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Basics

| | |
|--------------|--------------------|
| Subscription | Azure for Students |
|--------------|--------------------|

Deploying...

Submitting deployment...
Submitting the deployment template for resource group 'myGroup'.

2. On the Basics tab, fill in the following information (leave the defaults for everything else):

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Home >

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

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 for Students |
| Resource group * | (New) vm1_group Create new |

Instance details

| | |
|--|---|
| Virtual machine name * | vm1 |
| Region * | (US) East US |
| Availability options | No infrastructure redundancy required |
| Security type | Trusted launch virtual machines Configure security features |
| Trusted launch virtual machine is required when using 1P Gallery images. | |
| Image * | Windows Server 2019 Datacenter - x64 Gen2 See all images Configure VM generation |

< Previous Next: Disks > **Review + create**

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Home >

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

Administrator account

Username *

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

Select inbound ports *

Warning: 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

3. Select the Networking tab. Make sure the virtual machine is placed in the vnet1 virtual network. Review the default settings, but do not make any other changes.

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Home >

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 *
[Create new](#)

Subnet *
[Manage subnet configuration](#)

Public IP
[Create new](#)

NIC network security group ☐ None ☒ Basic ☐ Advanced

< Previous | Next : Management > | Review + create

Give feedback

4. Click Review + create. After the Validation passes, click Create. Deployment times can vary but it can generally take between three to six minutes to deploy.

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Create a virtual machine

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 ⓘ
0.1880 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 billing frequency as my Azure subscription; and (c) agree that Microsoft may share my contact, usage and transactional information with the provider(s) of the offering(s) for support, billing and other transactional activities. Microsoft does not provide rights for third-party offerings. See the [Azure Marketplace Terms](#) for additional details.

You have set RDP port(s) open to the internet. This is only recommended for testing. If you want to change this setting, go

< Previous | Next > | **Create**

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Microsoft Azure

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CreateVm-MicrosoftWindowsServer.WindowsServer-201-20250404190958 | Overview

Deployment

Search

Delete | Cancel | Redeploy | Download | Refresh

Overview | Inputs | Outputs | Template

Deployment is in progress

Deployment name: CreateVm-MicrosoftWindowsServer.WindowsSe... Start time: 4/4/2025, 7:20:47 PM
Subscription: Azure for Students Correlation ID: ddfb15c6-a01f-4d6d-bc21-330188093c54 ⓘ
Resource group: vm1_group ⓘ

Deployment details

| Resource | Type | Status | Operation details |
|----------|------------------------------------|---------|-----------------------------------|
| vm1 | Microsoft.Compute/virtualMachin... | Created | Operation details |
| vm1402 | Microsoft.Network/networkInterf... | OK | Operation details |
| vm1-ip | Microsoft.Network/publicIpAddre... | OK | Operation details |
| vm1-nsg | Microsoft.Network/networkSecuri... | OK | Operation details |

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Work with an expert
Azure experts are service provider partners who can help manage your assets on Azure and be your first line of support.
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6. Create a second virtual machine by repeating steps 2 to 4 above. Make sure you use a different virtual machine name, that the virtual machine is in the same virtual network, and is using a new public IP address:

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Home > CreateVm-MicrosoftWindowsServer.WindowsServer-201-20250404190958 | Overview >

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

CHOOSE AN AVAILABLE SIZE

1

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

Username *

azureuser

Password *

Confirm password *

pa\$\$wOrd1234

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 *

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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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 *

vnet1

Create new

Subnet *

default (10.0.0.0/24)

Manage subnet configuration

Public IP

(new) vm2-ip

Create new

NIC network security group

None

Basic

Advanced

< Previous

Next : Management >

Review + create

Give feedback

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Create a virtual machine ...

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
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Subscription credits apply

0.1880 USD/hr

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TERMS

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You have set RDP port(s) open to the internet. This is only recommended for testing. If you want to change this setting, go

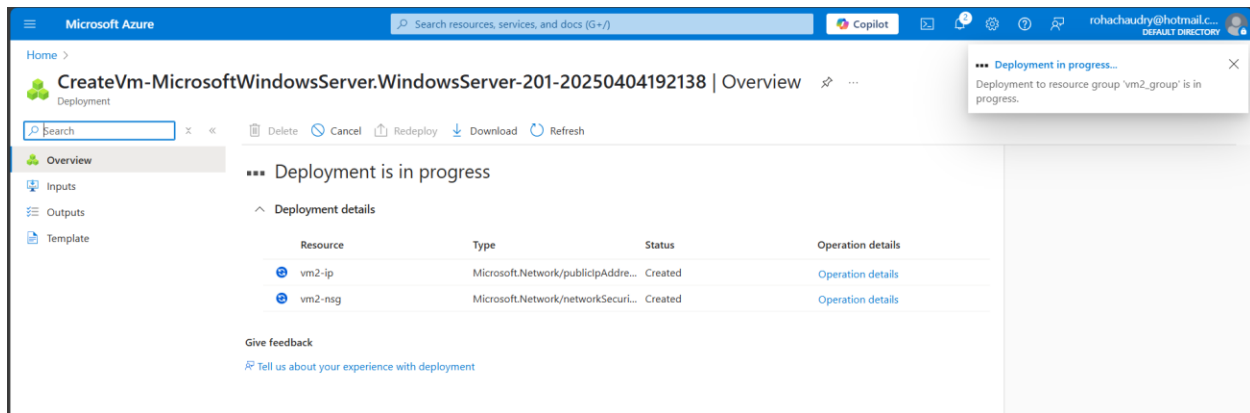
< Previous

Next >

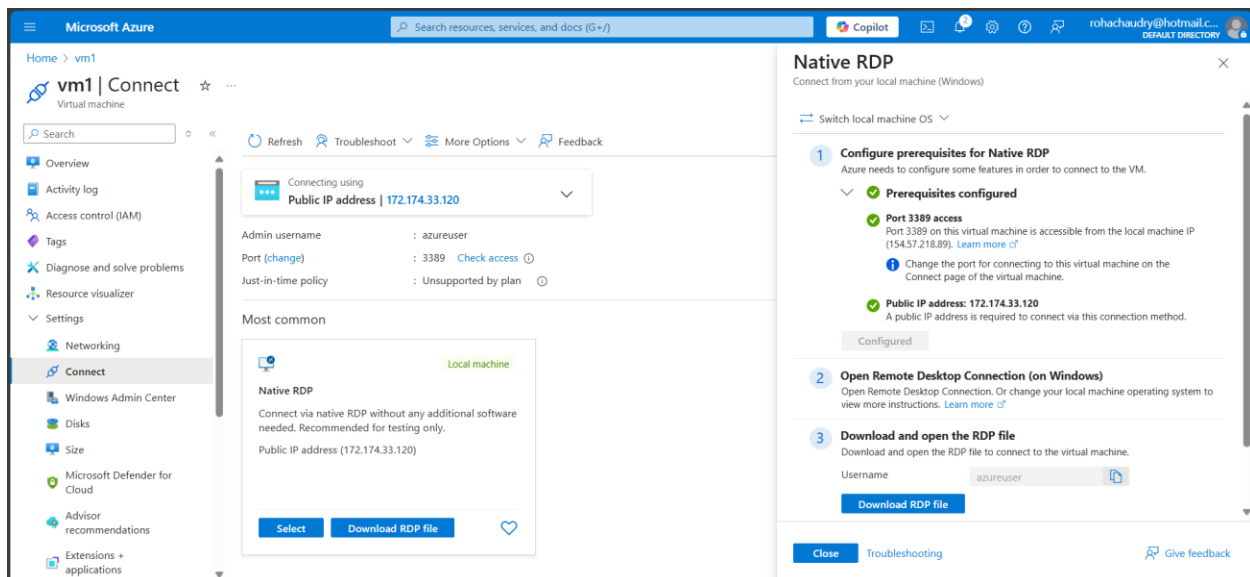
Create

Download a template for automation

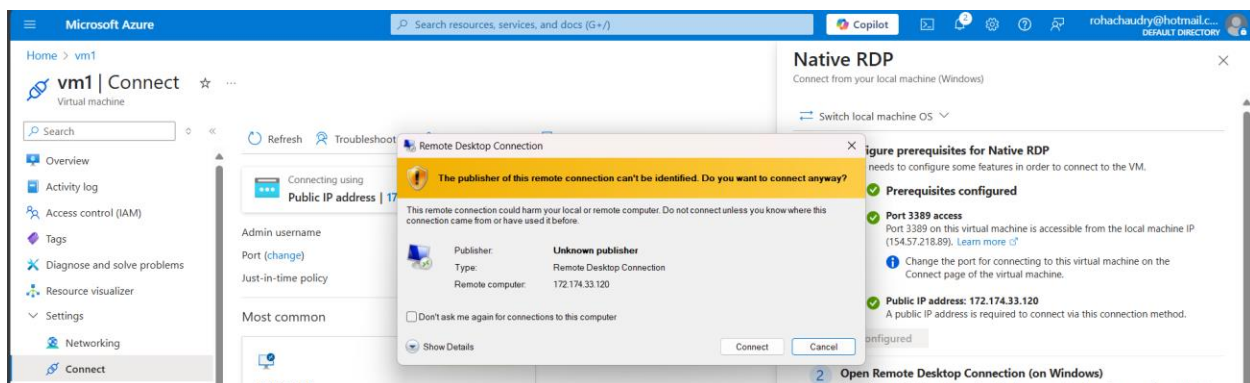
Give feedback



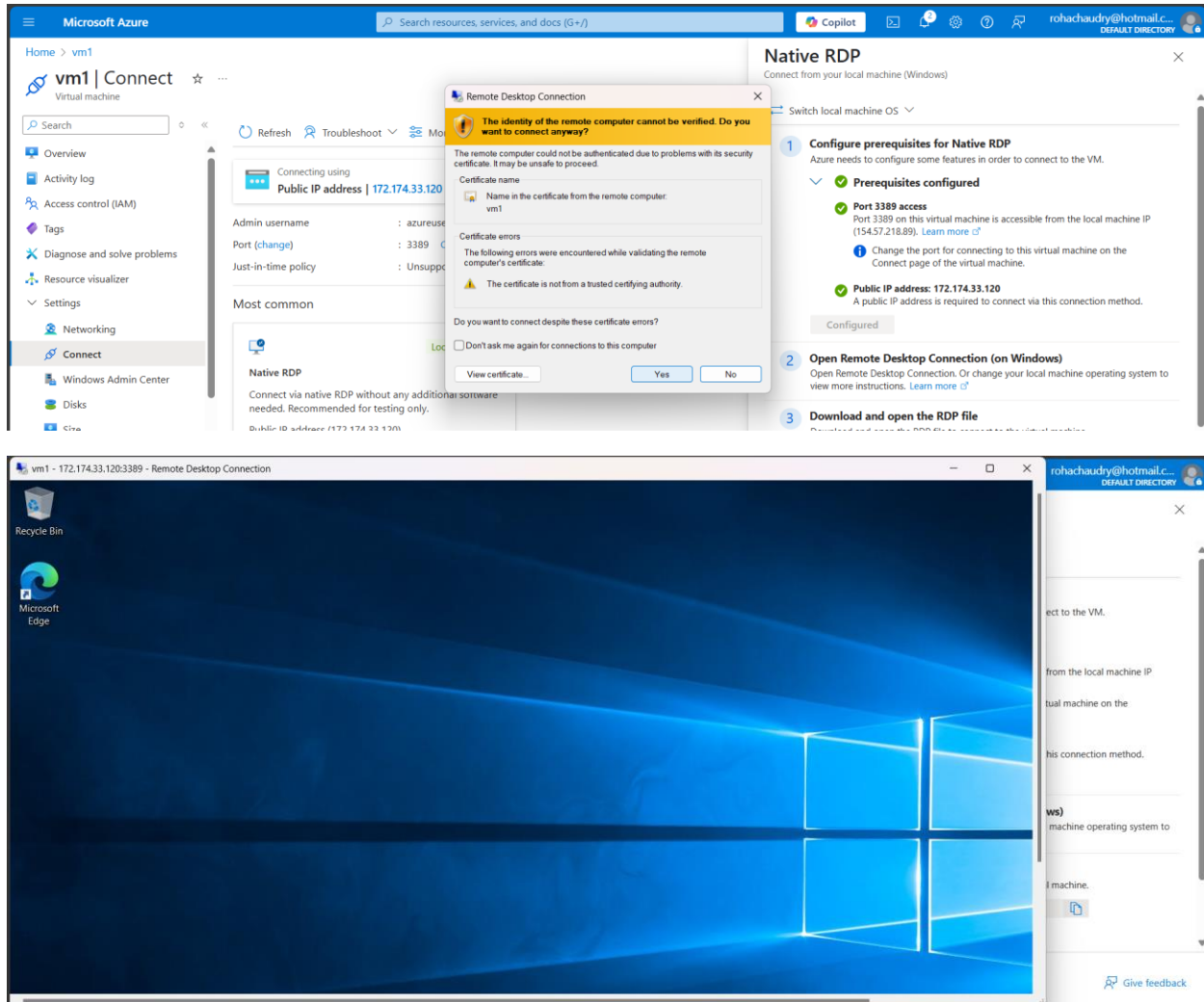
3. On the Connect with RDP blade, keep the default options to connect by IP address over port 3389 and click Download RDP File.



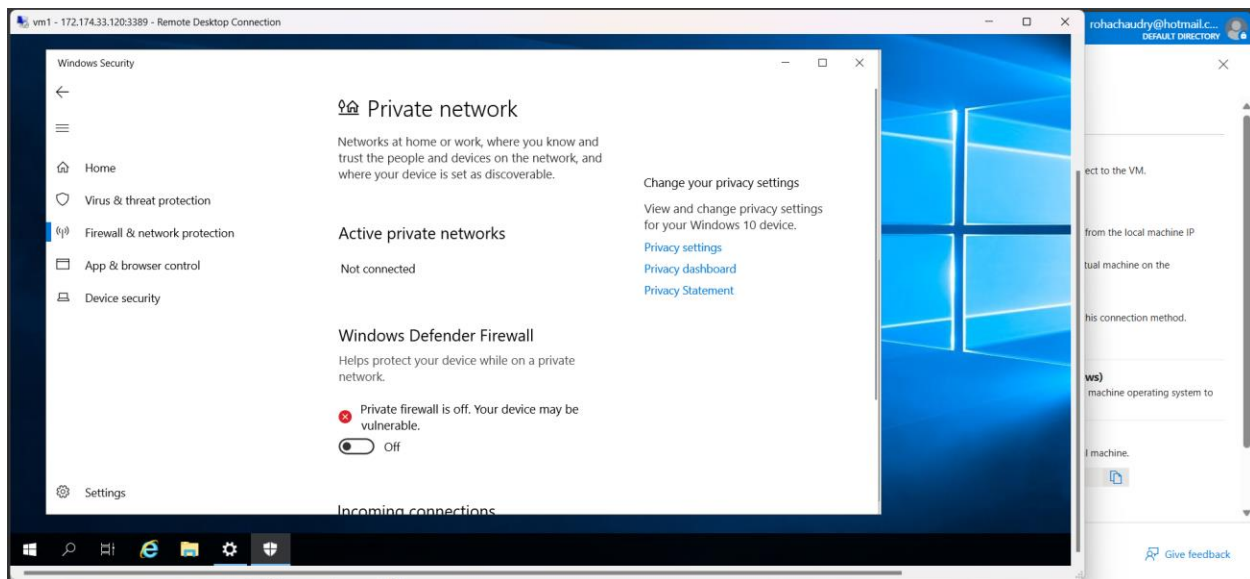
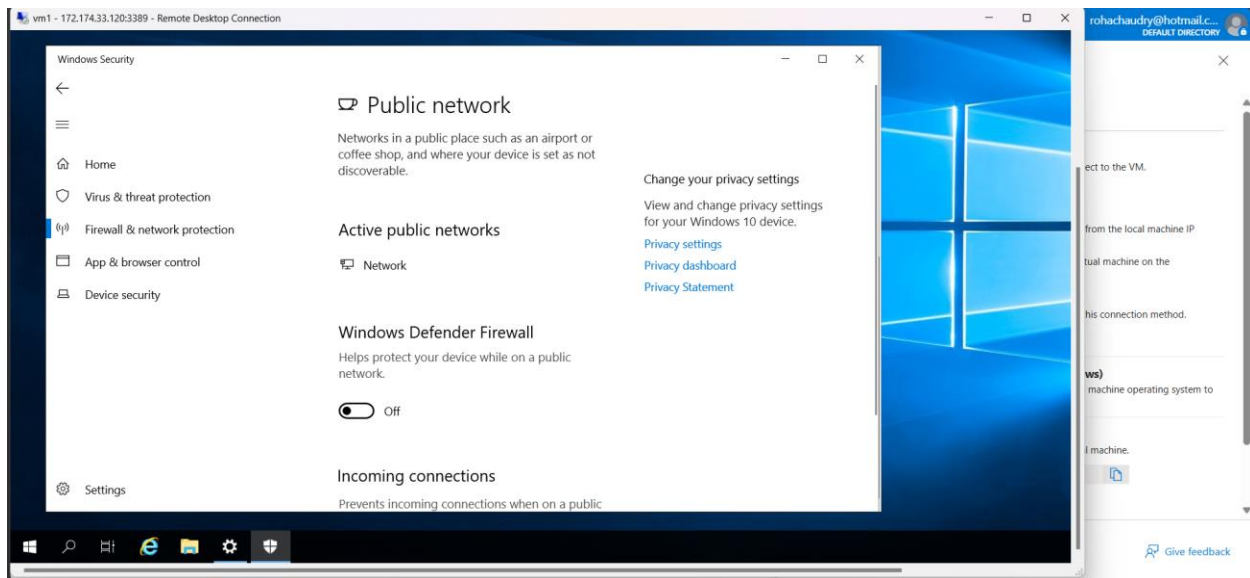
4. Open the downloaded RDP file (located at the bottom left of you VM) and click Connect when prompted.

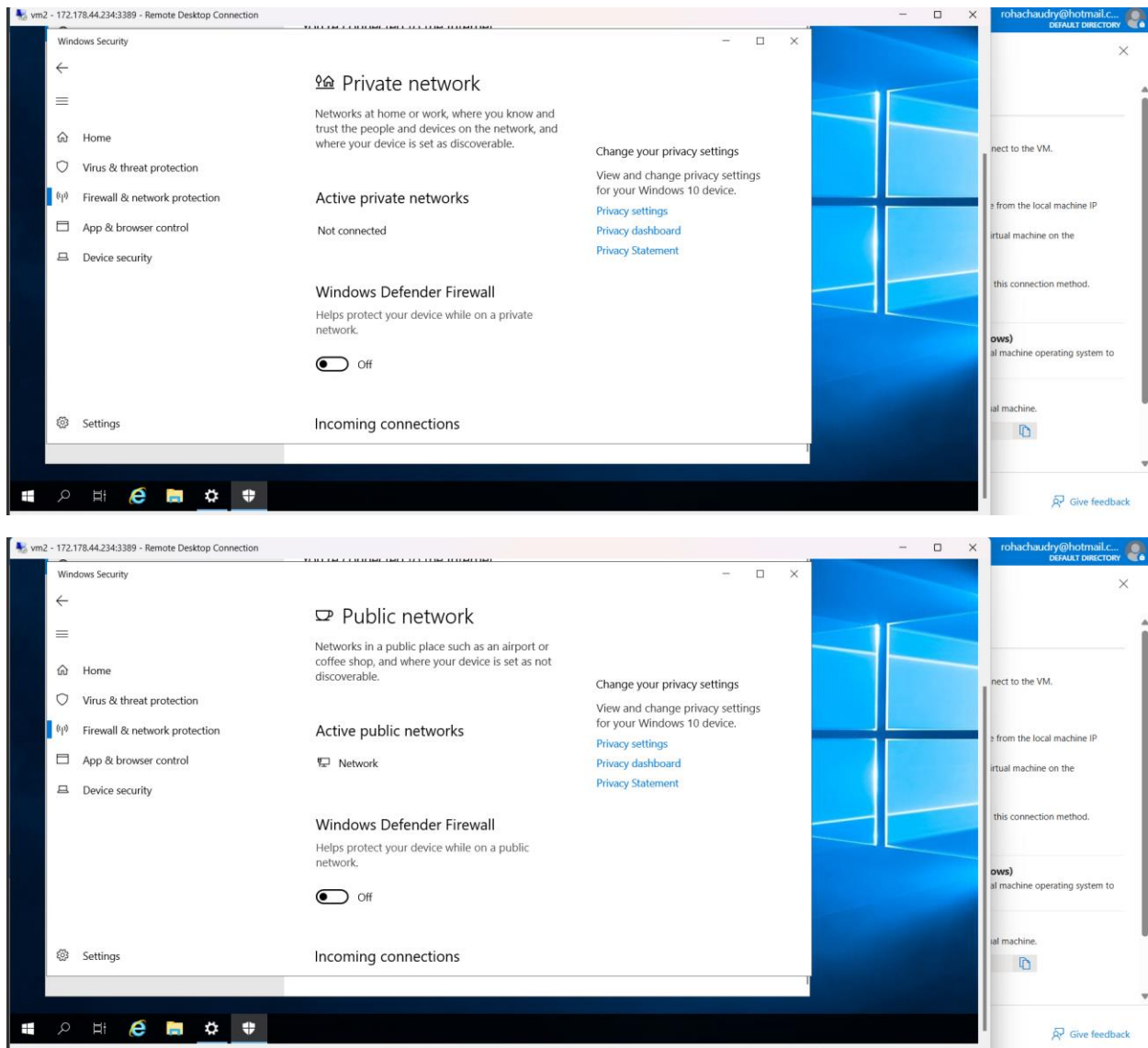


6. You may receive a certificate warning during the sign-in process. Click Yes to create the connection and connect to your deployed VM. You should connect successfully. Close the Windows Server and Dashboard windows that pop up. You should see a Blue Windows background. You are now in your virtual machine.



7. In both newly created virtual machines, connect via RDP and disable both the public and private firewall by opening the Start menu > Settings > Network and Internet > Locate Windows Firewall.





8. Open up PowerShell on the virtual machine by clicking the Start button, and in Search type PowerShell, right click on Windows PowerShell to Run as administrator

9. In Powershell, try to ping vm2 by typing:

9. You should be successful. You have pinged VM2 from VM1.

