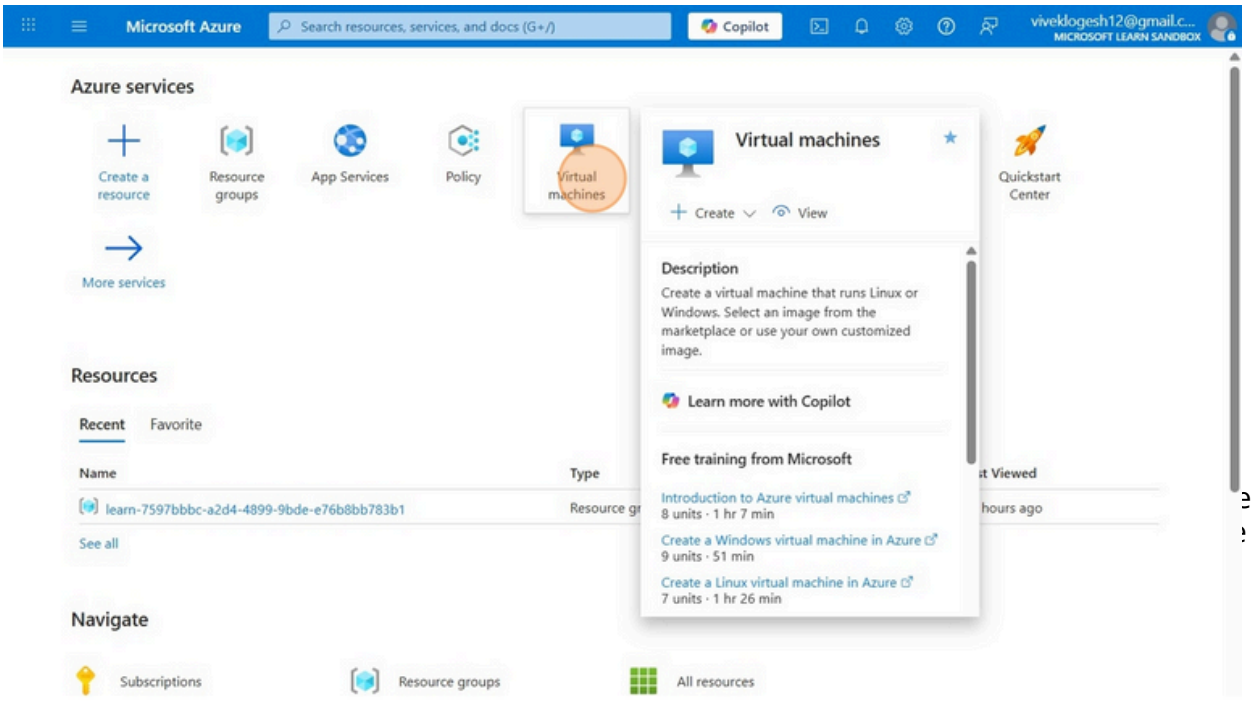
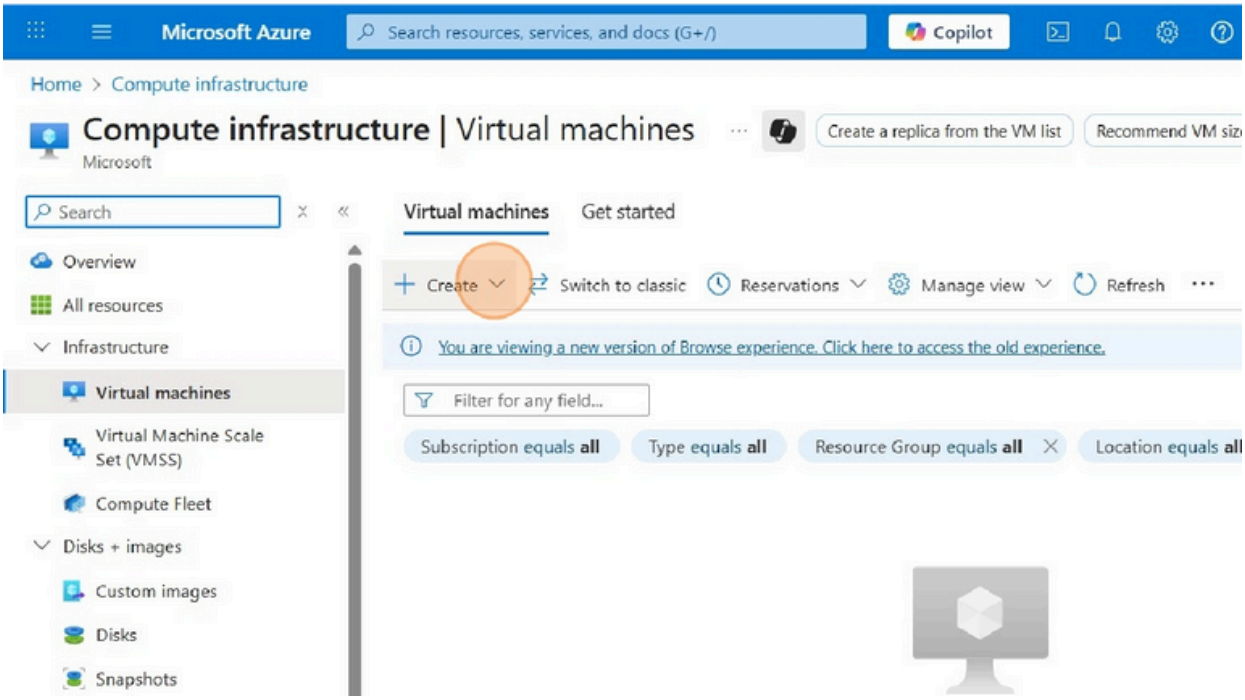
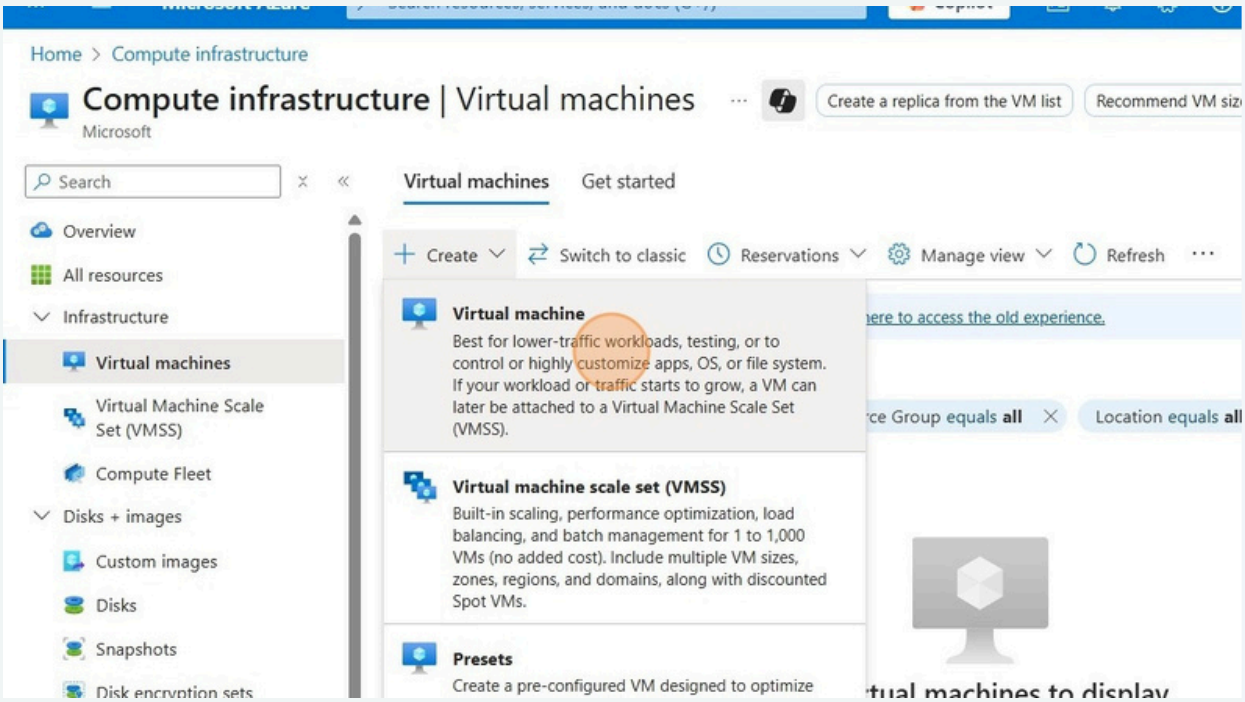
Create and Connect to an Azure Virtual Machine

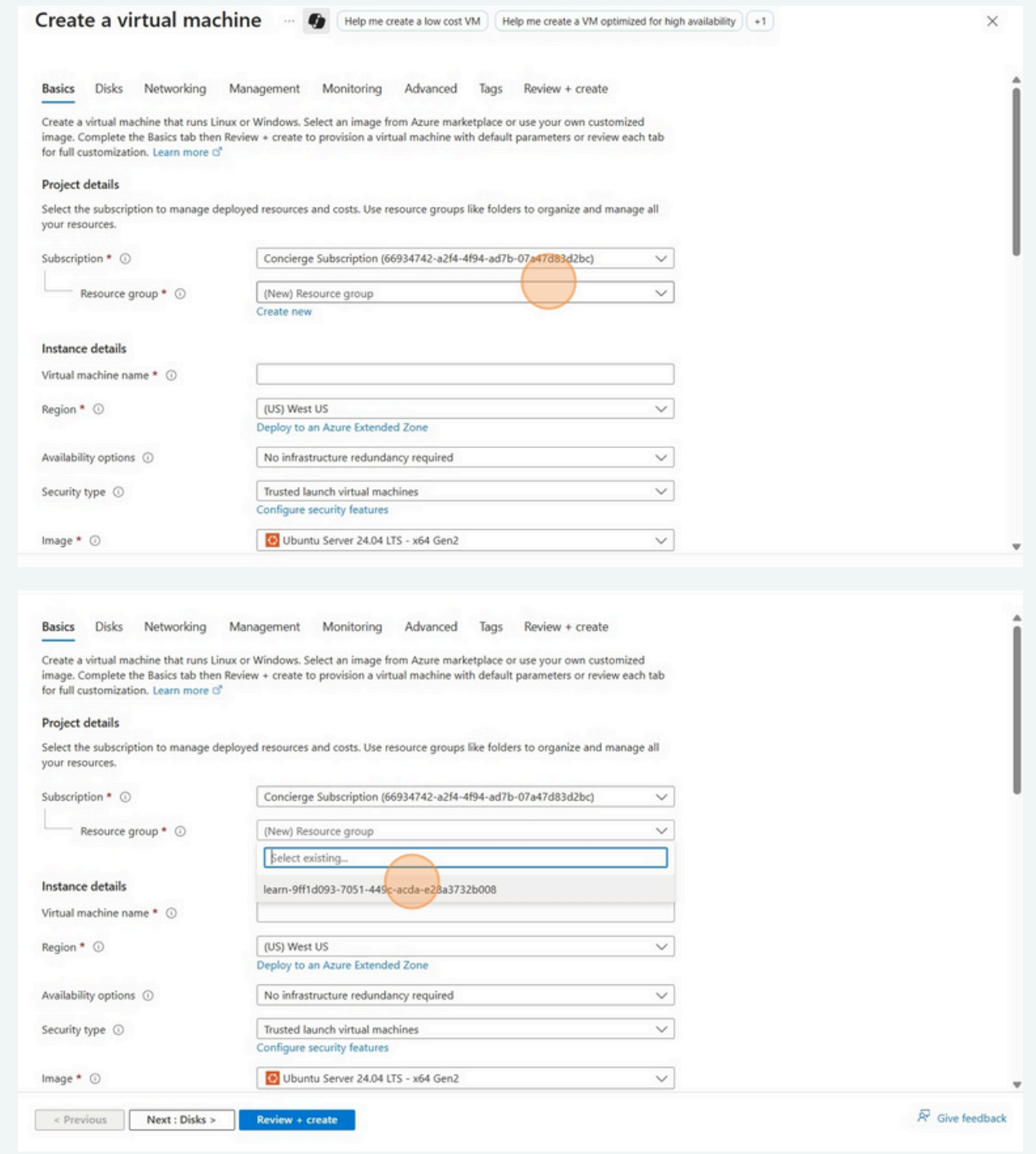






2

1. Open the form for creating a new resource.
2. Select your subscription.
3. Choose an existing resource group or create a new one.
4. Enter a name for the virtual machine.
5. Select a region (for example, Central US).
6. Under Image, choose Ubuntu Server 24.04 LTS – x64 Gen2.
7. For hosting services, select Ubuntu 22.04 LTS as the OS.
8. Under Authentication type, choose Password.
9. Enter a username and set the password.
10. In Inbound port rules, enable:
    - SSH (22)
    - HTTP (80)
11. From the list of options, select None under "Allow selected ports."
12. Click Next: Disks >.
13. Click Next: Networking >.
14. Select or create a virtual network, e.g., (new) webVM-vnet.


Create a virtual machine
Help me create a low cost VM
Help me create a VM optimized for high availability
+1
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
Project details
Select the subscription to manage deployed resources and costs. Use resource groups like folders to organize and manage all your resources.
Subscription *
Concierge Subscription (66934742-a2f4-4f94-ad7b-07a47d83d2bc)
Resource group *
(New) Resource group
Create new
Instance details
Virtual machine name *
Region *
(US) West US
Deploy to an Azure Extended Zone
Availability options
No infrastructure redundancy required
Security type
Trusted launch virtual machines
Configure security features
Image *
Ubuntu Server 24.04 LTS - x64 Gen2
Basics
Disks
Networking
Management
Monitoring
Advanced
Tags
Review + create
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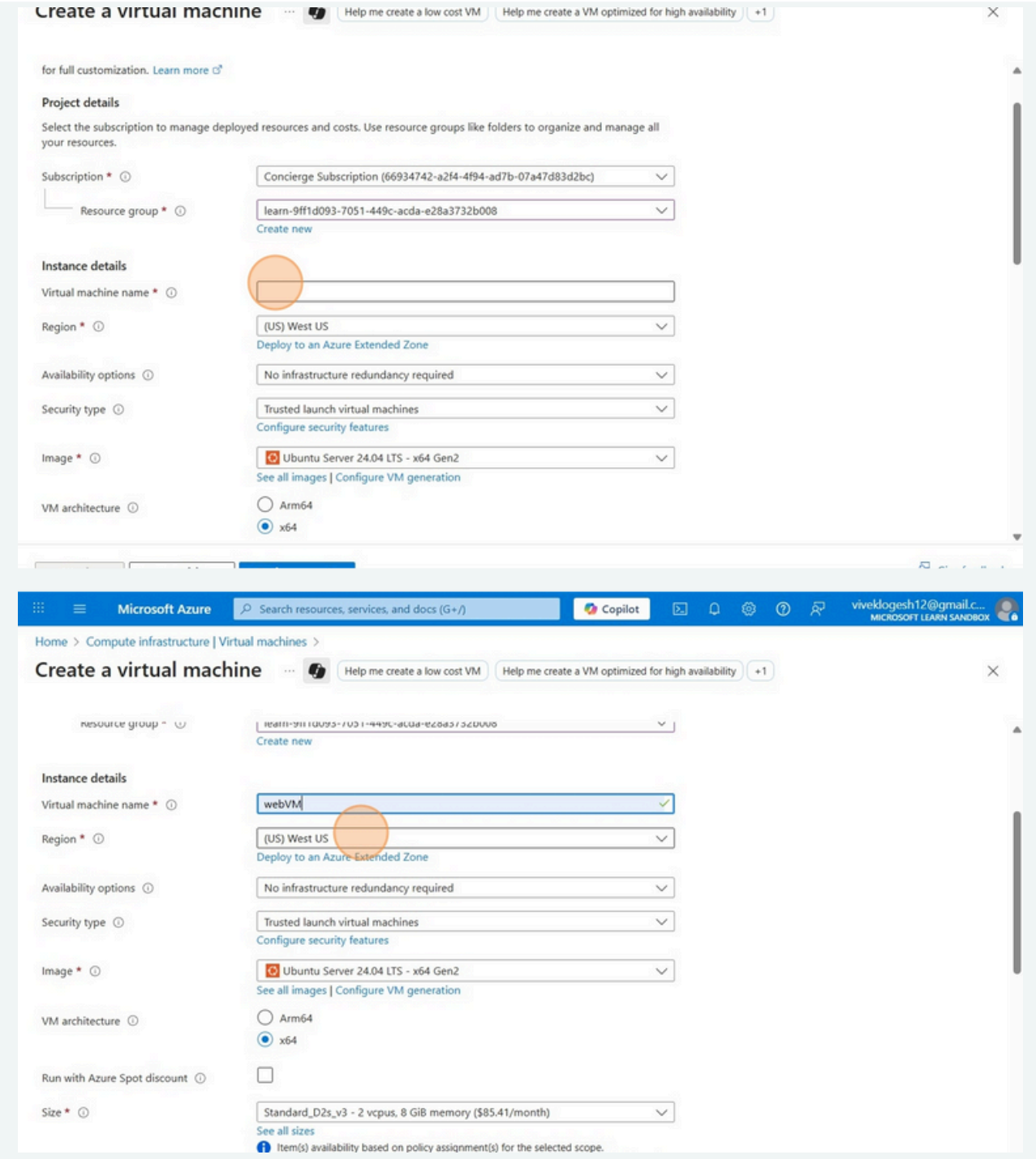
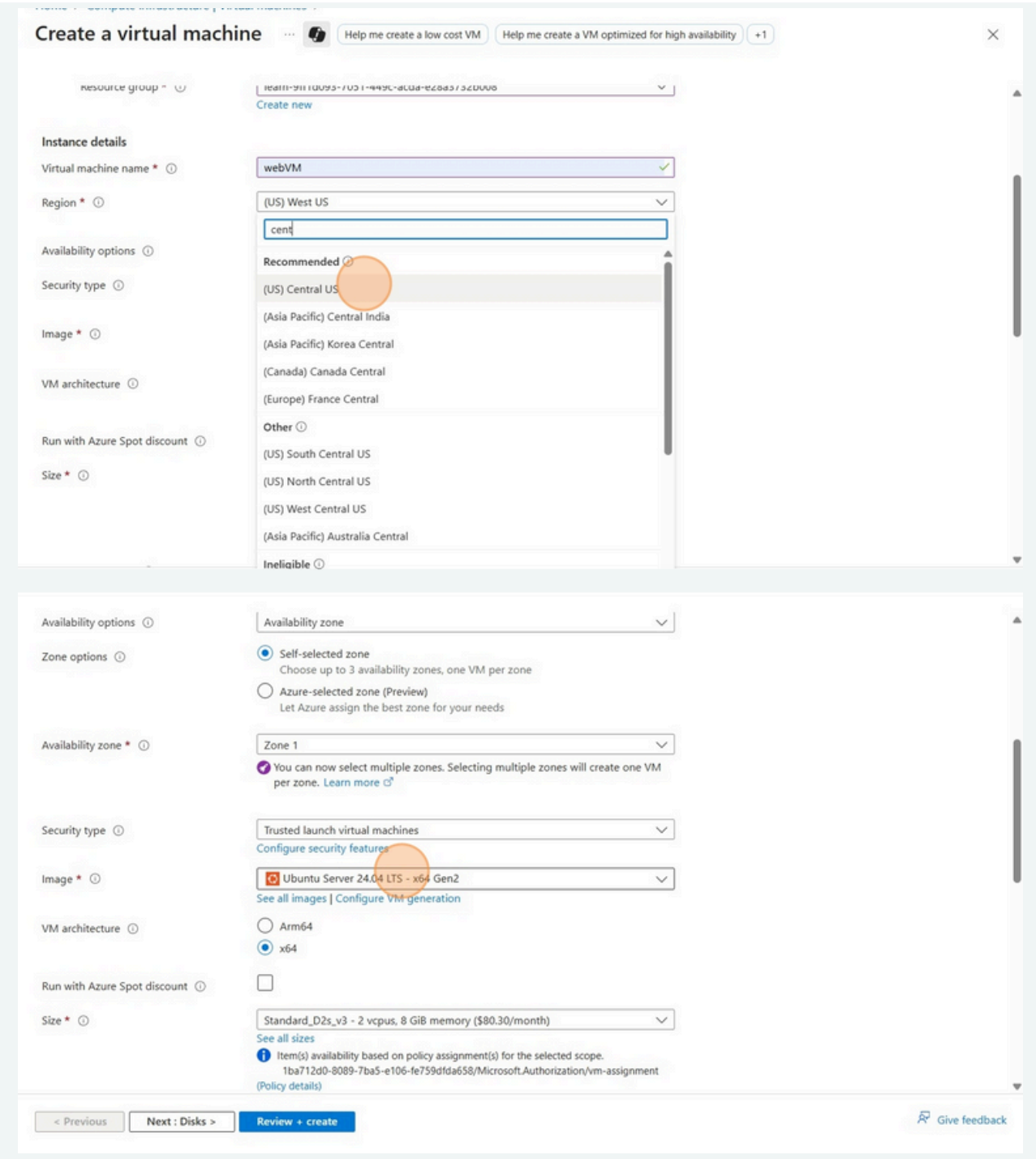
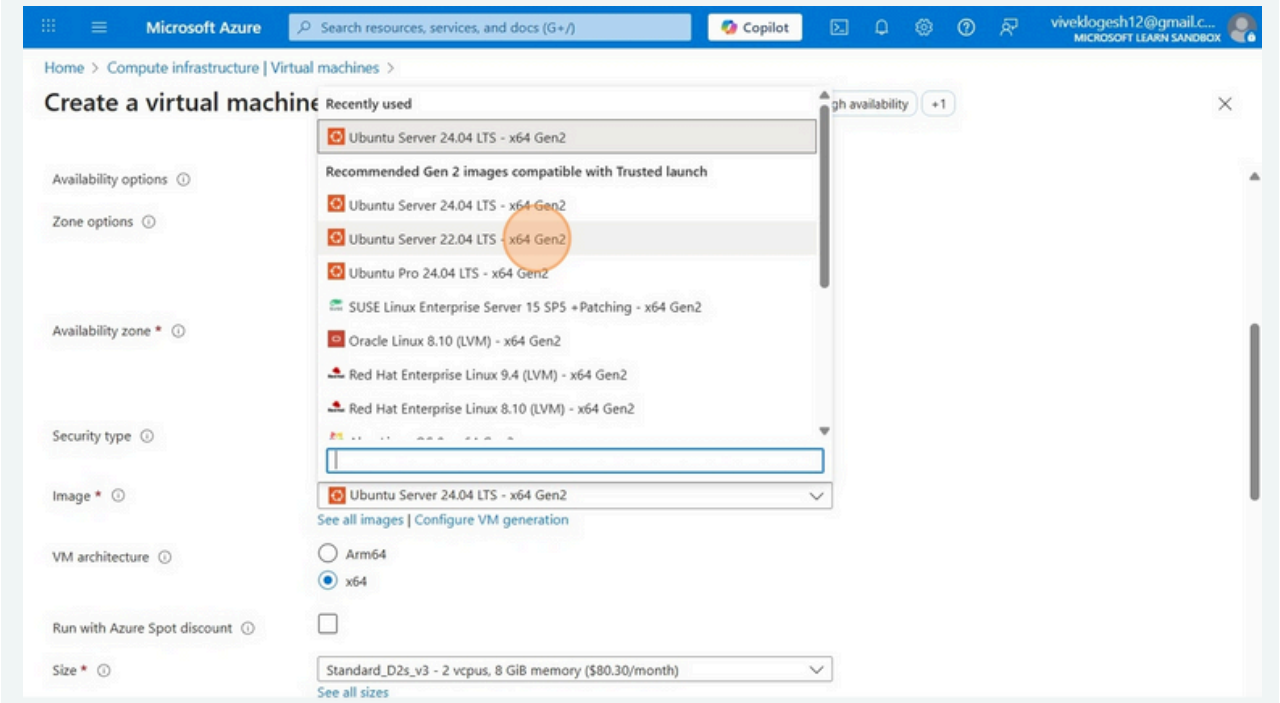
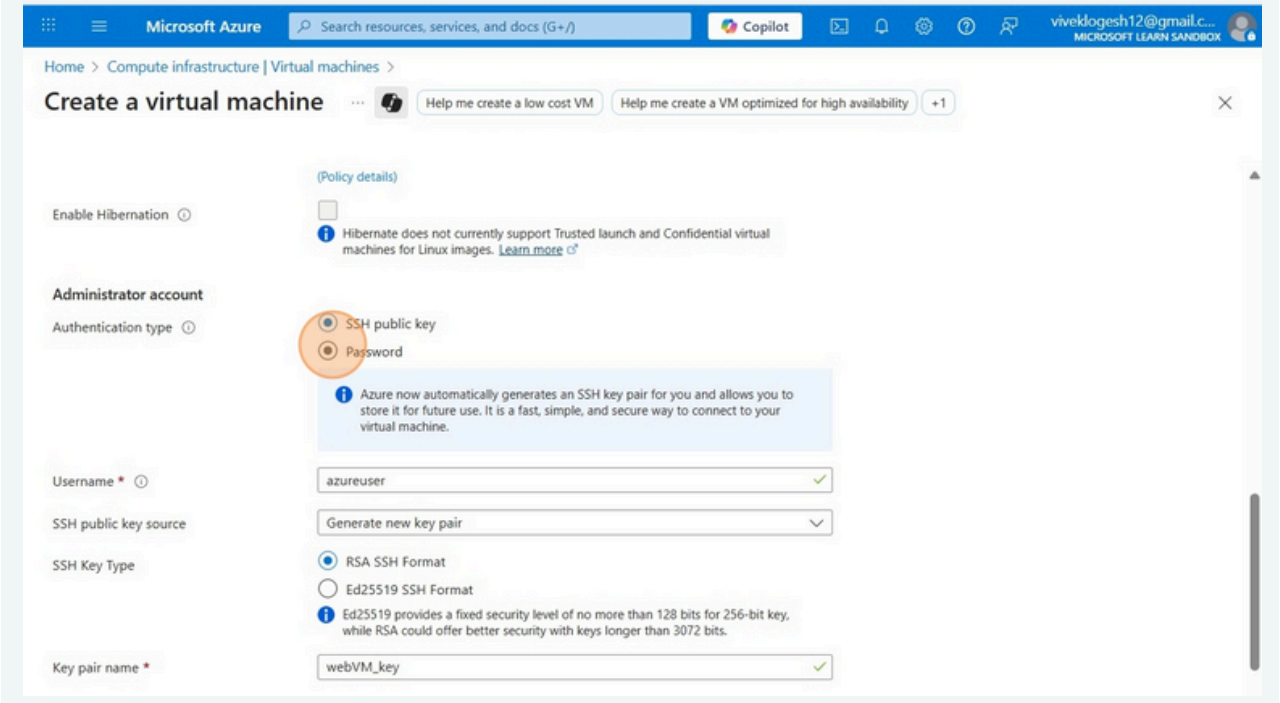
Project details
Select the subscription to manage deployed resources and costs. Use resource groups like folders to organize and manage all your resources.
Subscription *
Concierge Subscription (66934742-a2f4-4f94-ad7b-07a47d83d2bc)
Resource group *
(New) Resource group
Select existing...
learn-9ff1d093-7051-449c-acda-e28a3732b008
Instance details
Virtual machine name *
Region *
(US) West US
Deploy to an Azure Extended Zone
Availability options
No infrastructure redundancy required
Security type
Trusted launch virtual machines
Configure security features
Image *
Ubuntu Server 24.04 LTS - x64 Gen2
< Previous
Next : Disks >
Review + create
Give feedback


Create a virtual machine
Help me create a low cost VM
Help me create a VM optimized for high availability
+1
for full customization. Learn more
Project details
Select the subscription to manage deployed resources and costs. Use resource groups like folders to organize and manage all your resources.
Subscription *
Concierge Subscription (66934742-a2f4-4f94-ad7b-07a47d83d2bc)
Resource group *
learn-9ff1d093-7051-449c-acda-e28a3732b008
Create new
Instance details
Virtual machine name *
Region *
(US) West US
Deploy to an Azure Extended Zone
Availability options
No infrastructure redundancy required
Security type
Trusted launch virtual machines
Configure security features
Image *
Ubuntu Server 24.04 LTS - x64 Gen2
See all images | Configure VM generation
VM architecture
Arm64
x64
Microsoft Azure
Search resources, services, and docs (G+/)
Copilot
viveklogesh12@gmail.c...
MICROSOFT LEARN SANDBOX
Home > Compute infrastructure | Virtual machines >
Create a virtual machine
Help me create a low cost VM
Help me create a VM optimized for high availability
+1
Create new
Instance details
Virtual machine name *
webVM
Region *
(US) West US
Deploy to an Azure Extended Zone
Availability options
No infrastructure redundancy required
Security type
Trusted launch virtual machines
Configure security features
Image *
Ubuntu Server 24.04 LTS - x64 Gen2
See all images | Configure VM generation
VM architecture
Arm64
x64
Run with Azure Spot discount
Size *
Standard_D2s_v3 - 2 vcpus, 8 GiB memory ($85.41/month)
See all sizes
Item(s) availability based on policy assignment(s) for the selected scope.


Create a virtual machine
Help me create a low cost VM
Help me create a VM optimized for high availability
+1
Create new
Instance details
Virtual machine name *
webVM
Region *
(US) West US
cent
Availability options
Security type
Image *
VM architecture
Run with Azure Spot discount
Size *
Recommended
(US) Central US
(Asia Pacific) Central India
(Asia Pacific) Korea Central
(Canada) Canada Central
(Europe) France Central
Other
(US) South Central US
(US) North Central US
(US) West Central US
(Asia Pacific) Australia Central
Ineligible
Availability options
Availability zone
Zone options
Self-selected zone
Choose up to 3 availability zones, one VM per zone
Azure-selected zone (Preview)
Let Azure assign the best zone for your needs
Availability zone *
Zone 1
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 *
Ubuntu Server 24.04 LTS - x64 Gen2
See all images | Configure VM generation
VM architecture
Arm64
x64
Run with Azure Spot discount
Size *
Standard_D2s_v3 - 2 vcpus, 8 GiB memory ($80.30/month)
See all sizes
Item(s) availability based on policy assignment(s) for the selected scope.
1ba712d0-8089-7ba5-e106-fe759dfda658/Microsoft.Authorization/vm-assignment
(Policy details)
< Previous
Next : Disks >
Review + create
Give feedback


Microsoft Azure
Search resources, services, and docs (G+/)
Copilot
viveklogesh12@gmail.c...
MICROSOFT LEARN SANDBOX
Home > Compute infrastructure | Virtual machines >
Create a virtual machine
Recently used
Ubuntu Server 24.04 LTS - x64 Gen2
Recommended Gen 2 images compatible with Trusted launch
Ubuntu Server 24.04 LTS - x64 Gen2
Ubuntu Server 22.04 LTS - x64 Gen2
Ubuntu Pro 24.04 LTS - x64 Gen2
SUSE Linux Enterprise Server 15 SP5 +Patching - x64 Gen2
Oracle Linux 8.10 (LVM) - x64 Gen2
Red Hat Enterprise Linux 9.4 (LVM) - x64 Gen2
Red Hat Enterprise Linux 8.10 (LVM) - x64 Gen2
Availability options
Zone options
Availability zone *
Security type
Image *
Ubuntu Server 24.04 LTS - x64 Gen2
See all images | Configure VM generation
VM architecture
Arm64
x64
Run with Azure Spot discount
Size *
Standard_D2s_v3 - 2 vcpus, 8 GiB memory ($80.30/month)
See all sizes


Microsoft Azure
Search resources, services, and docs (G+/)
Copilot
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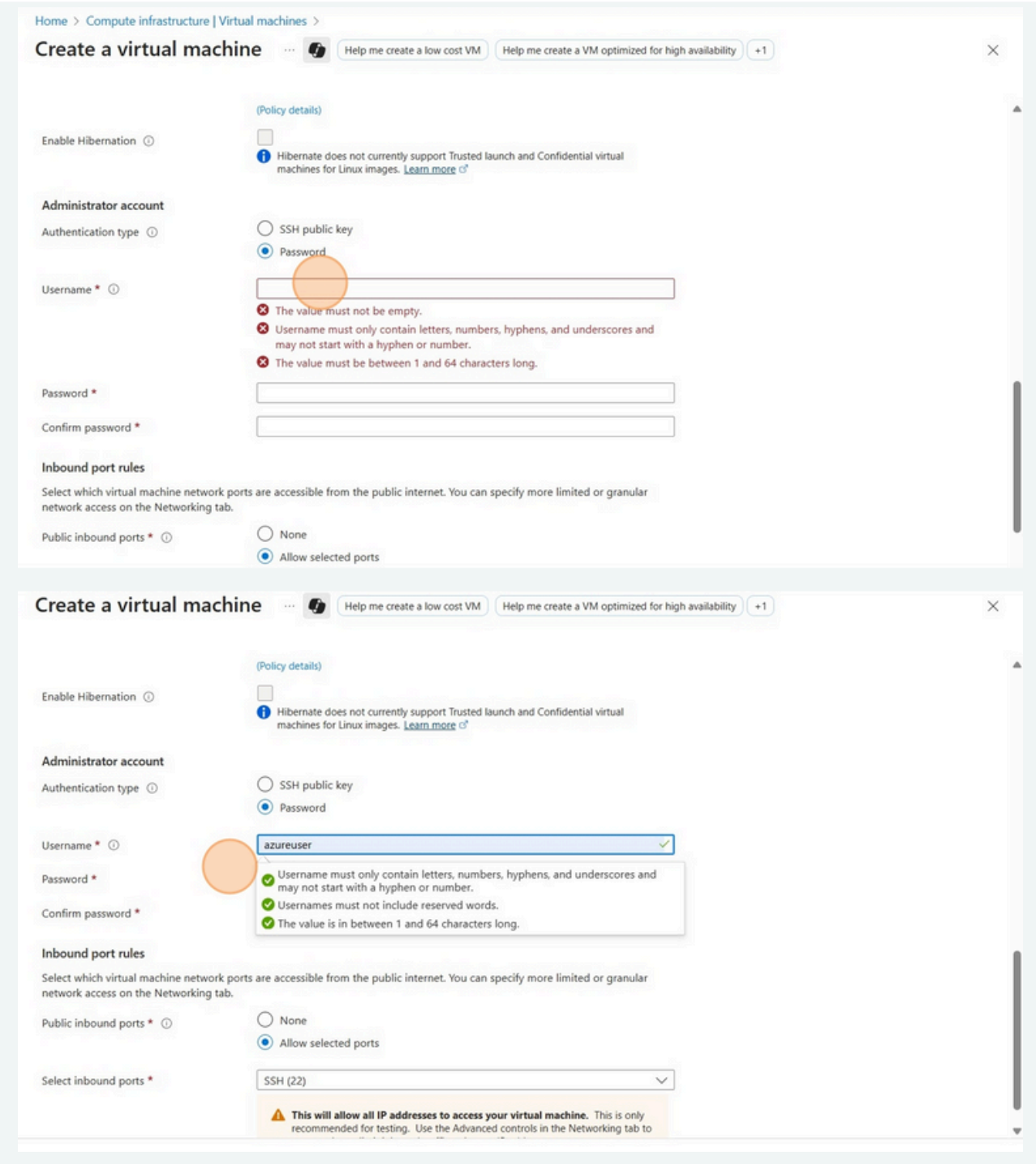
Home > Compute infrastructure | Virtual machines >
Create a virtual machine
Help me create a low cost VM
Help me create a VM optimized for high availability
+1
(Policy details)
Enable Hibernation
Hibernate does not currently support Trusted launch and Confidential virtual machines for Linux images. Learn more
Administrator account
Authentication type
SSH public key
Password
Azure now automatically generates an SSH key pair for you and allows you to store it for future use. It is a fast, simple, and secure way to connect to your virtual machine.
Username *
azureuser
SSH public key source
Generate new key pair
SSH Key Type
RSA SSH Format
Ed25519 SSH Format
Ed25519 provides a fixed security level of no more than 128 bits for 256-bit key, while RSA could offer better security with keys longer than 3072 bits.
Key pair name *
webVM_key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(Policy details)
Enable Hibernation
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Administrator account
Authentication type
SSH public key
Password
Username *
The value must not be empty.
Username must only contain letters, numbers, hyphens, and underscores and may not start with a hyphen or number.
The value must be between 1 and 64 characters long.
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
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+1
(Policy details)
Enable Hibernation
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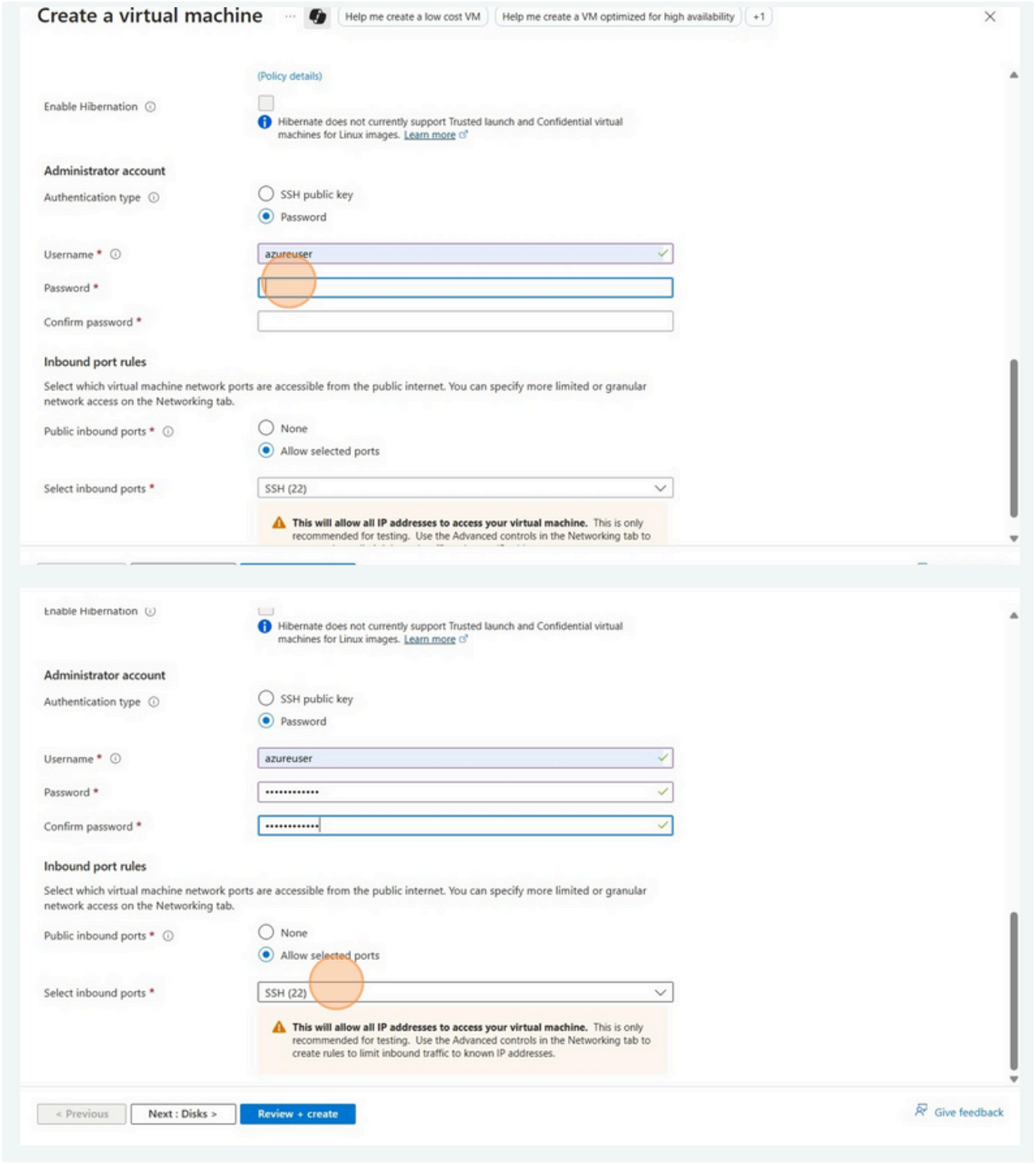
Administrator account
Authentication type
SSH public key
Password
Username *
azureuser
Password *
Confirm password *
Username must only contain letters, numbers, hyphens, and underscores and may not start with a hyphen or number.
Usernames must not include reserved words.
The value is in between 1 and 64 characters long.
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 *
SSH (22)
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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Password
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azureuser
Password *
Confirm password *
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None
Allow selected ports
Select inbound ports *
SSH (22)
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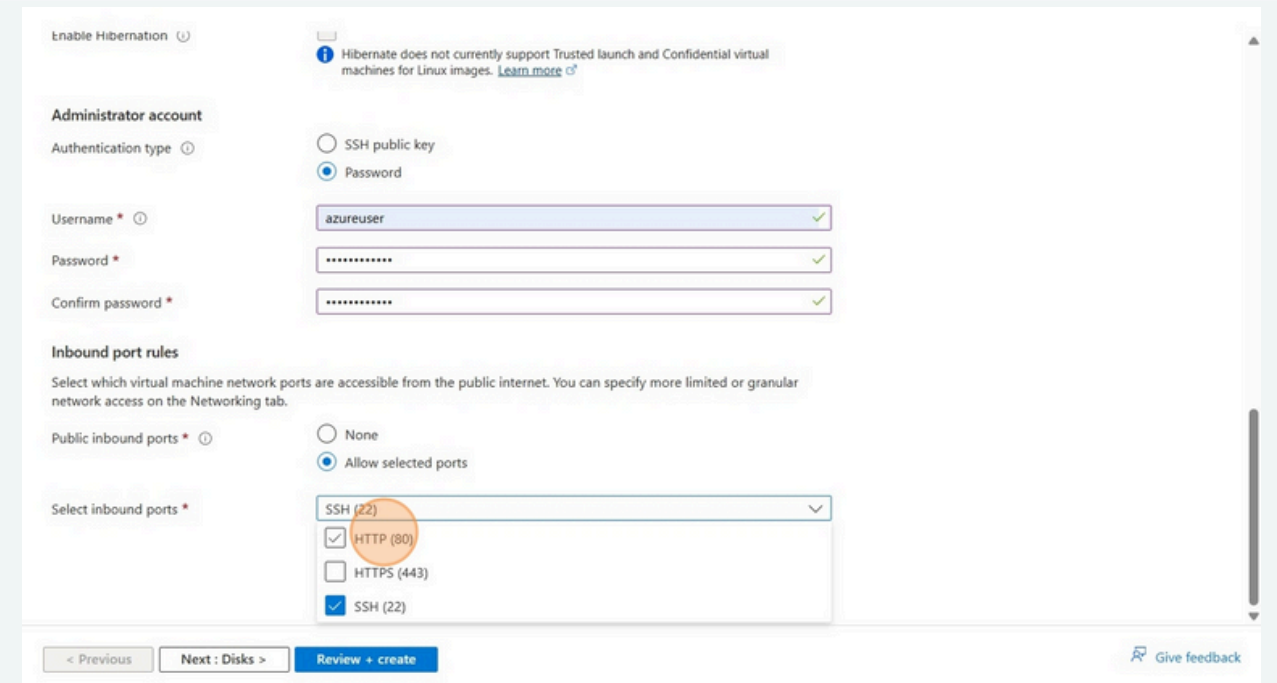
Authentication type
SSH public key
Password
Username *
azureuser
Password *
Confirm password *
Inbound port rules
Select which virtual machine network ports are accessible from the public internet. You can specify more limited or granular network access on the Networking tab.
Public inbound ports *
None
Allow selected ports
Select inbound ports *
SSH (22)
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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Administrator account
Authentication type
SSH public key
Password
Username *
azureuser
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 *
SSH (22)
HTTP (80)
HTTPS (443)
SSH (22)
< Previous
Next : Disks >
Review + create
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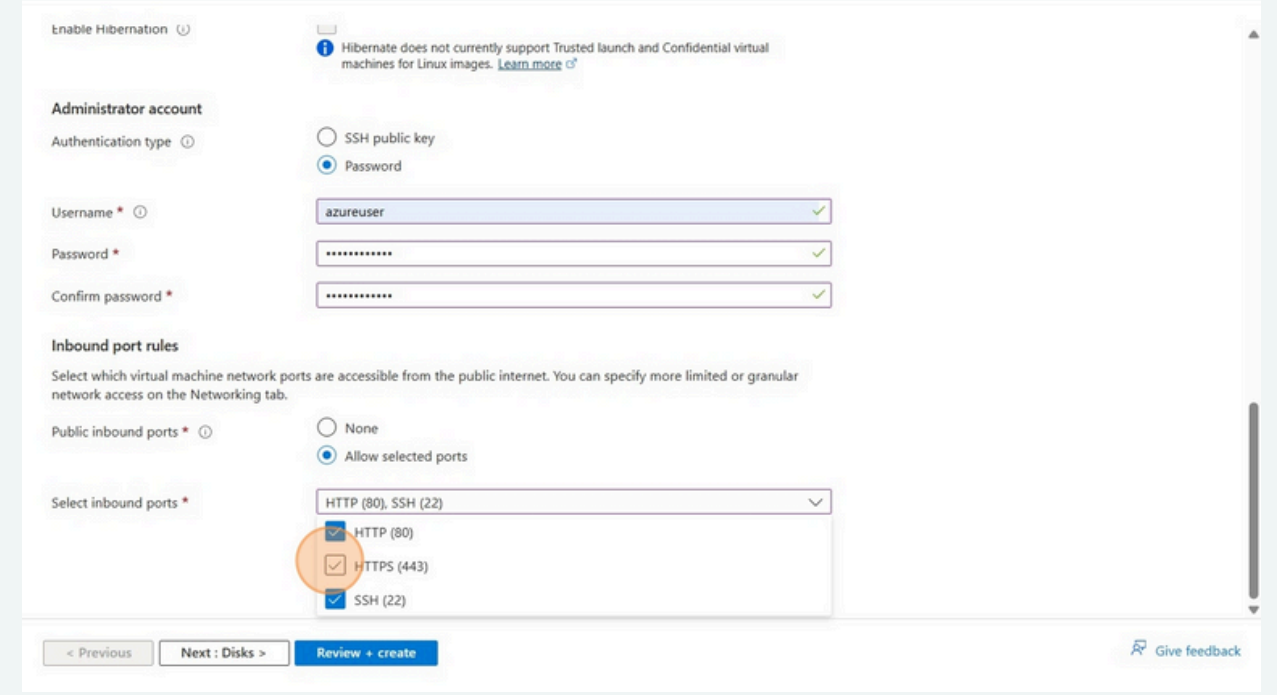
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Administrator account
Authentication type
SSH public key
Password
Username *
azureuser
Password *
Confirm password *
Inbound port rules
Select which virtual machine network ports are accessible from the public internet. You can specify more limited or granular network access on the Networking tab.
Public inbound ports *
None
Allow selected ports
Select inbound ports *
HTTP (80), SSH (22)
HTTP (80)
HTTPS (443)
SSH (22)
< Previous
Next : Disks >
Review + create
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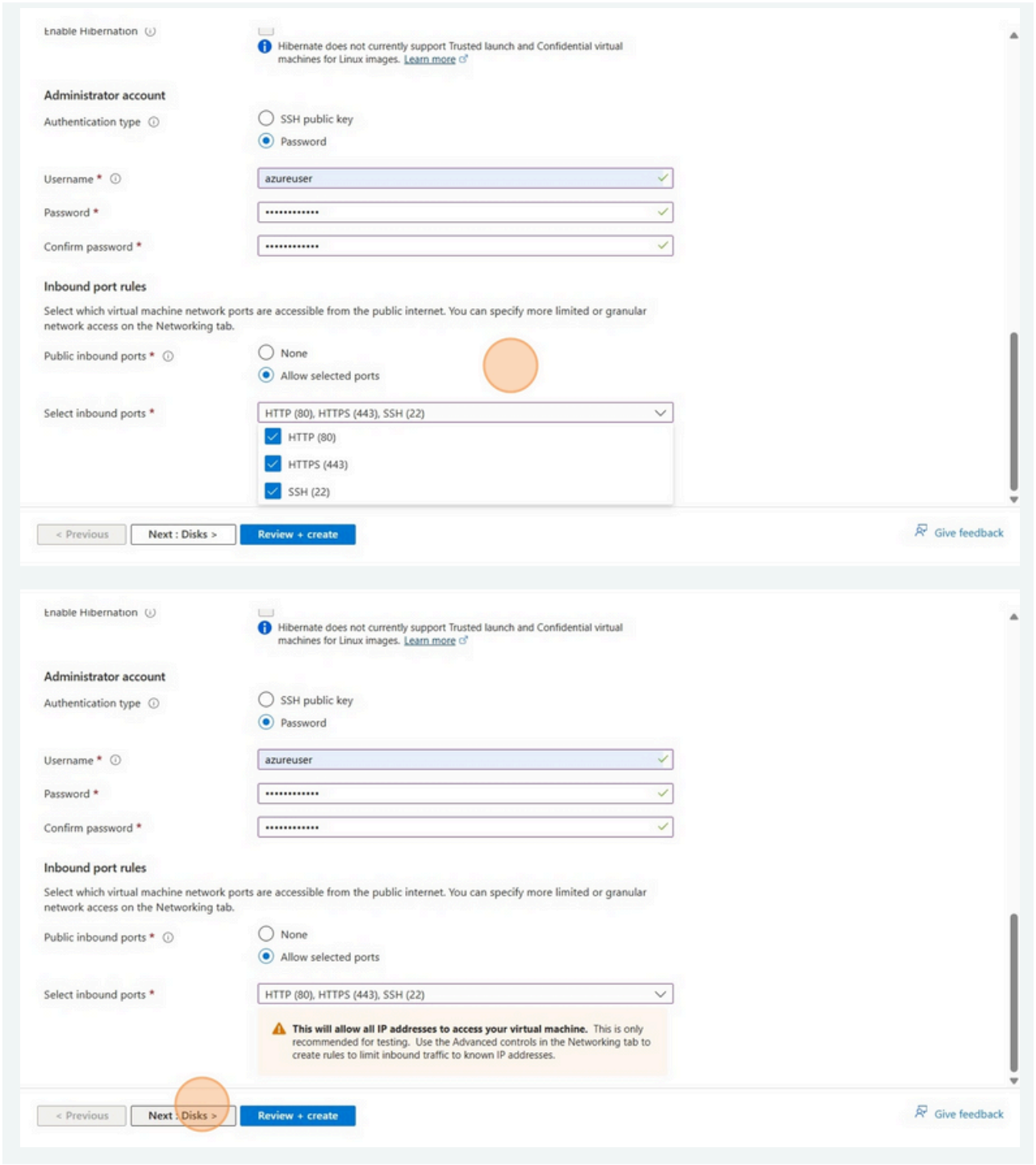
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Administrator account
Authentication type
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Password
Username *
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Select inbound ports *
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HTTPS (443)
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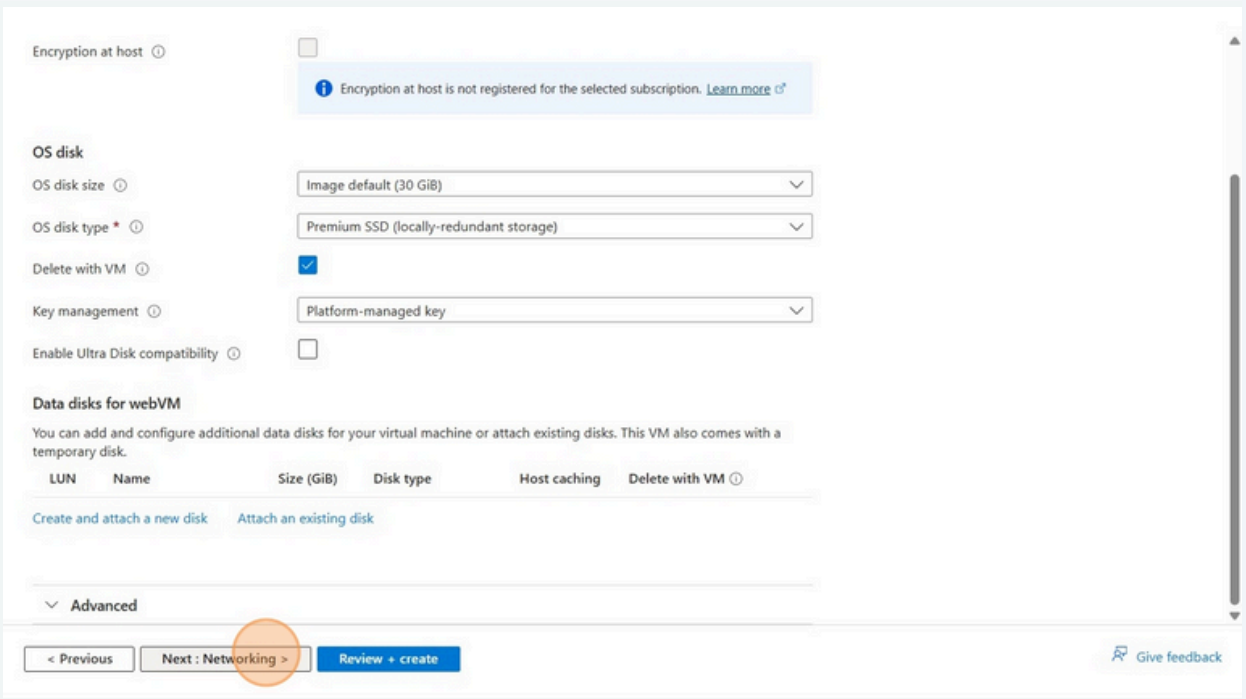
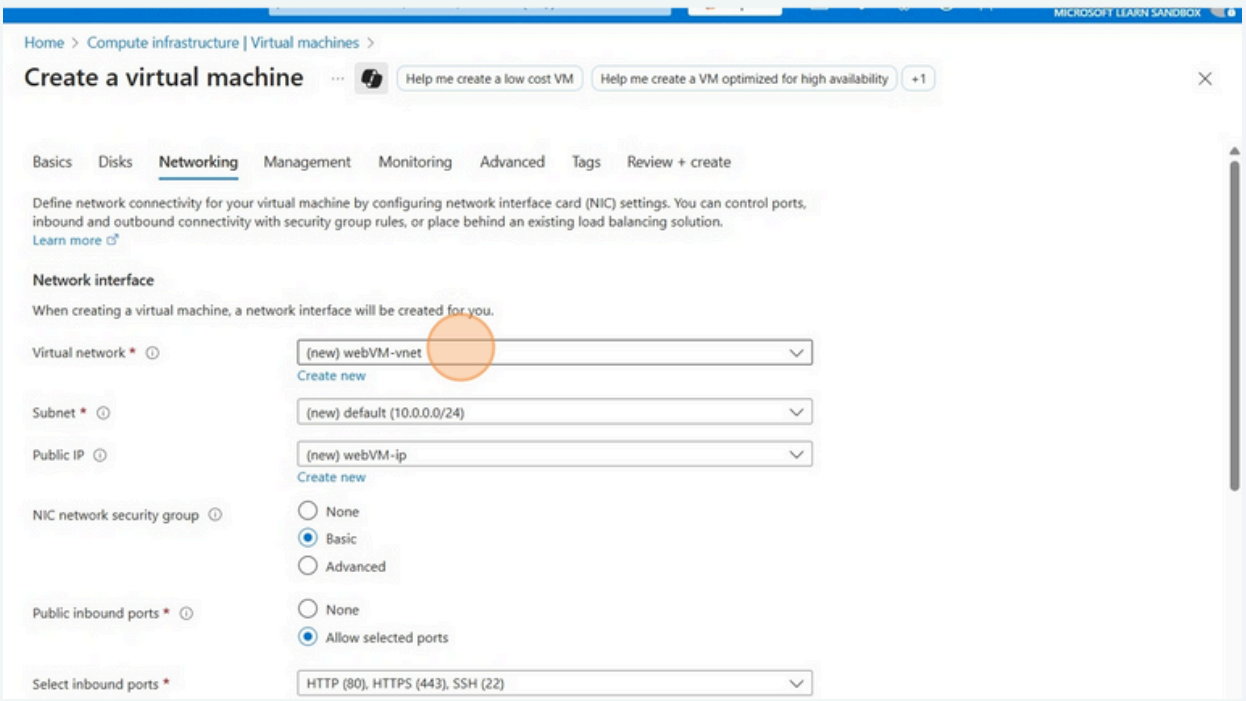
Give feedback


Encryption at host
Encryption at host is not registered for the selected subscription. Learn more
OS disk
OS disk size
Image default (30 GiB)
OS disk type *
Premium SSD (locally-redundant storage)
Delete with VM
Key management
Platform-managed key
Enable Ultra Disk compatibility
Data disks for webVM
You can add and configure additional data disks for your virtual machine or attach existing disks. This VM also comes with a temporary disk.
LUN
Name
Size (GiB)
Disk type
Host caching
Delete with VM
Create and attach a new disk
Attach an existing disk
Advanced
< Previous
Next : Networking >
Review + create
Give feedback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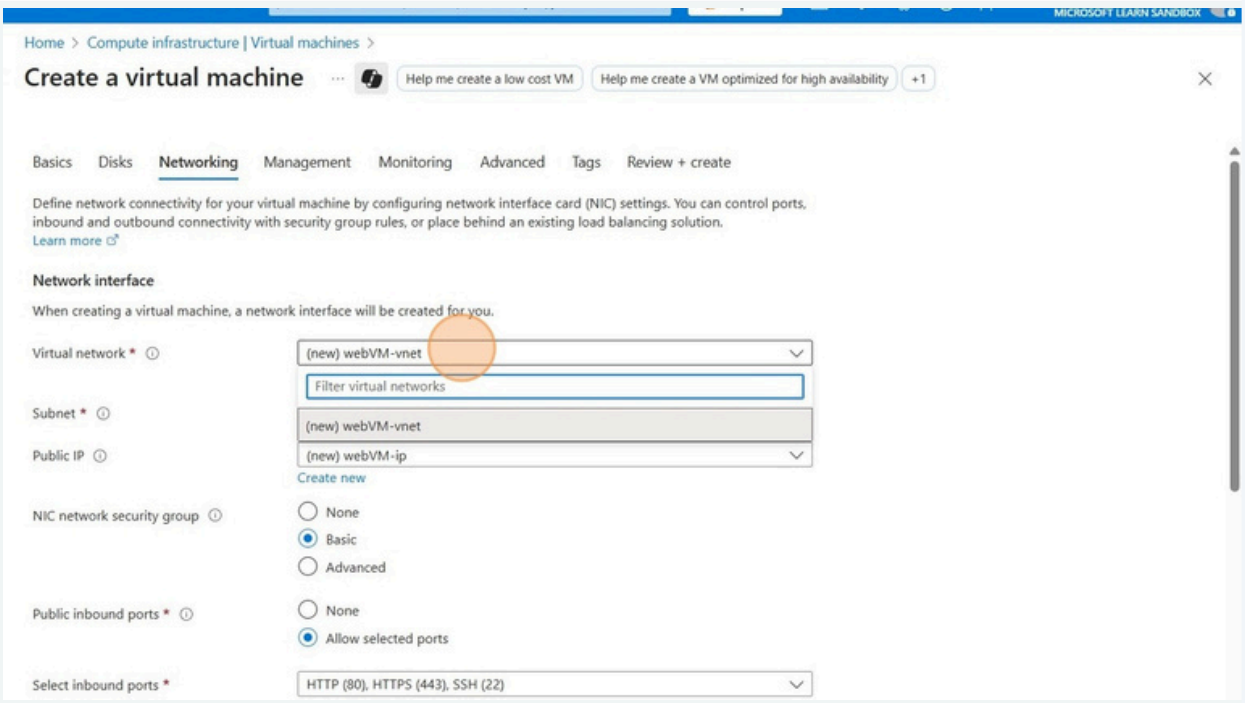
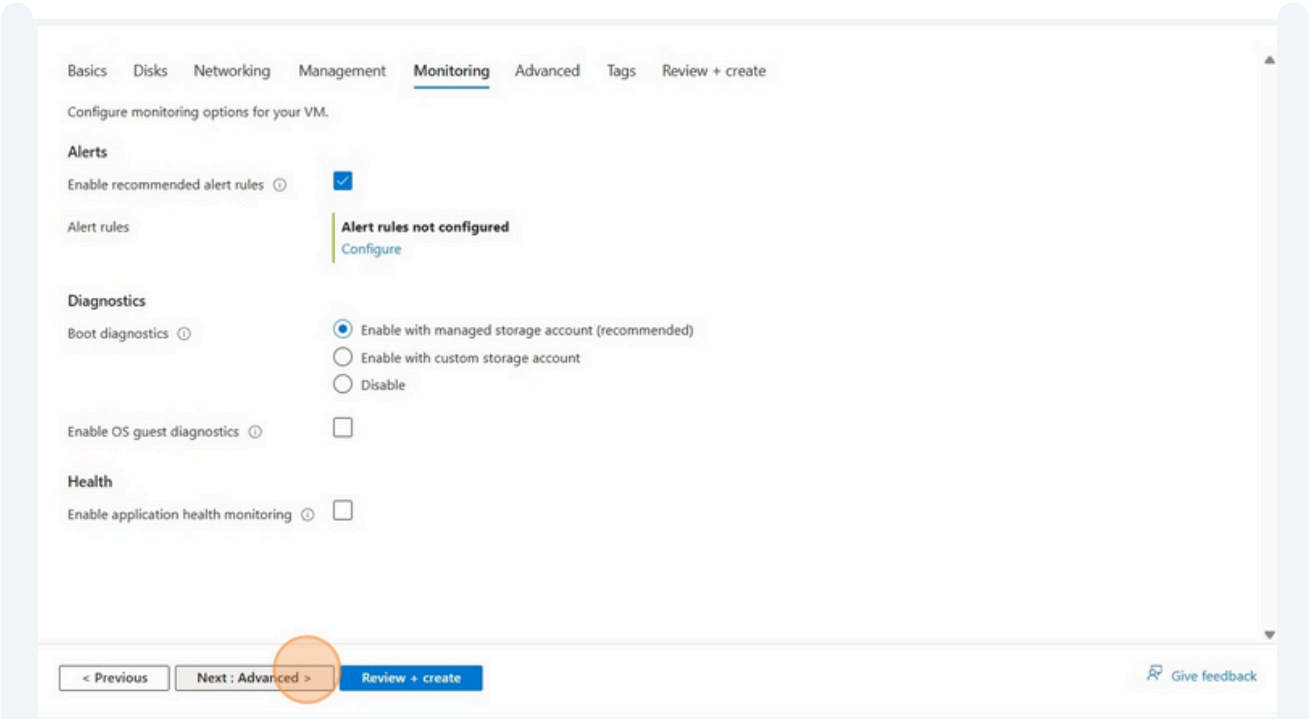
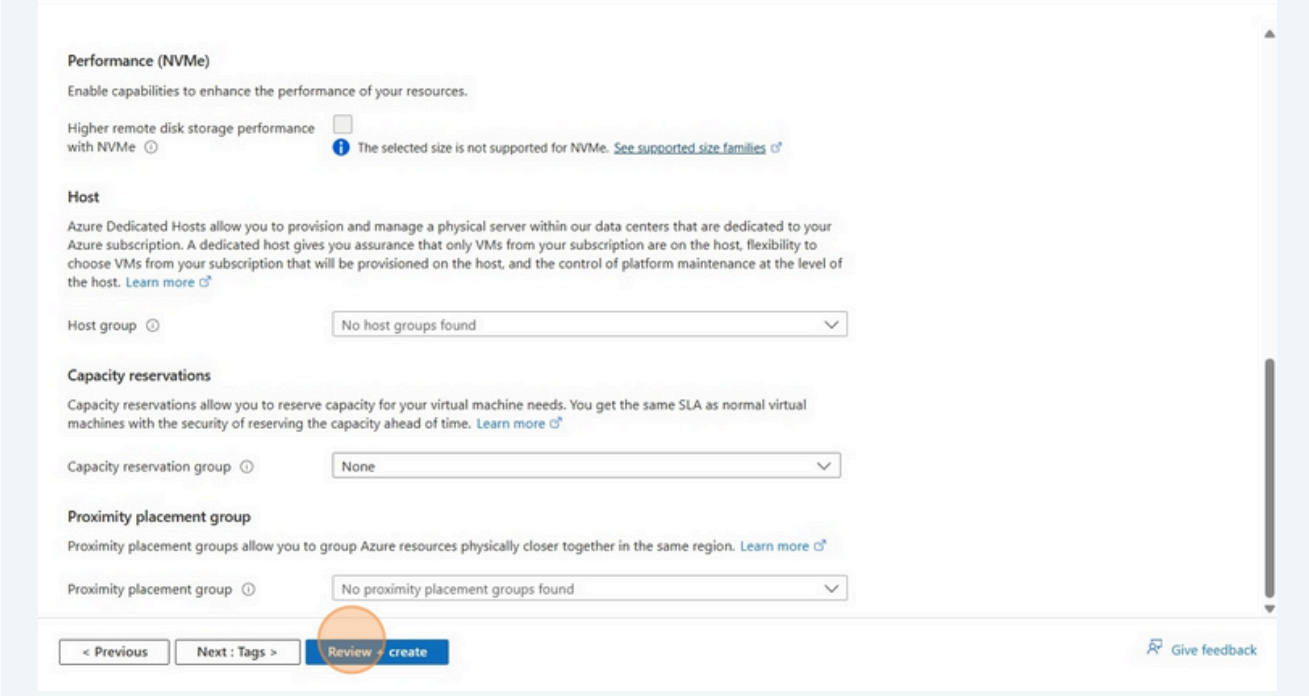
Home > Compute infrastructure | Virtual machines >
Create a virtual machine
Help me create a low cost VM
Help me create a VM optimized for high availability
+1
Basics
Disks
Networking
Management
Monitoring
Advanced
Tags
Review + create
Define network connectivity for your virtual machine by configuring 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) webVM-vnet
Create new
Subnet *
(new) default (10.0.0.0/24)
Public IP
(new) webVM-ip
Create new
NIC network security group
None
Basic
Advanced
Public inbound ports *
None
Allow selected ports
Select inbound ports *
HTTP (80), HTTPS (443), SSH (22)

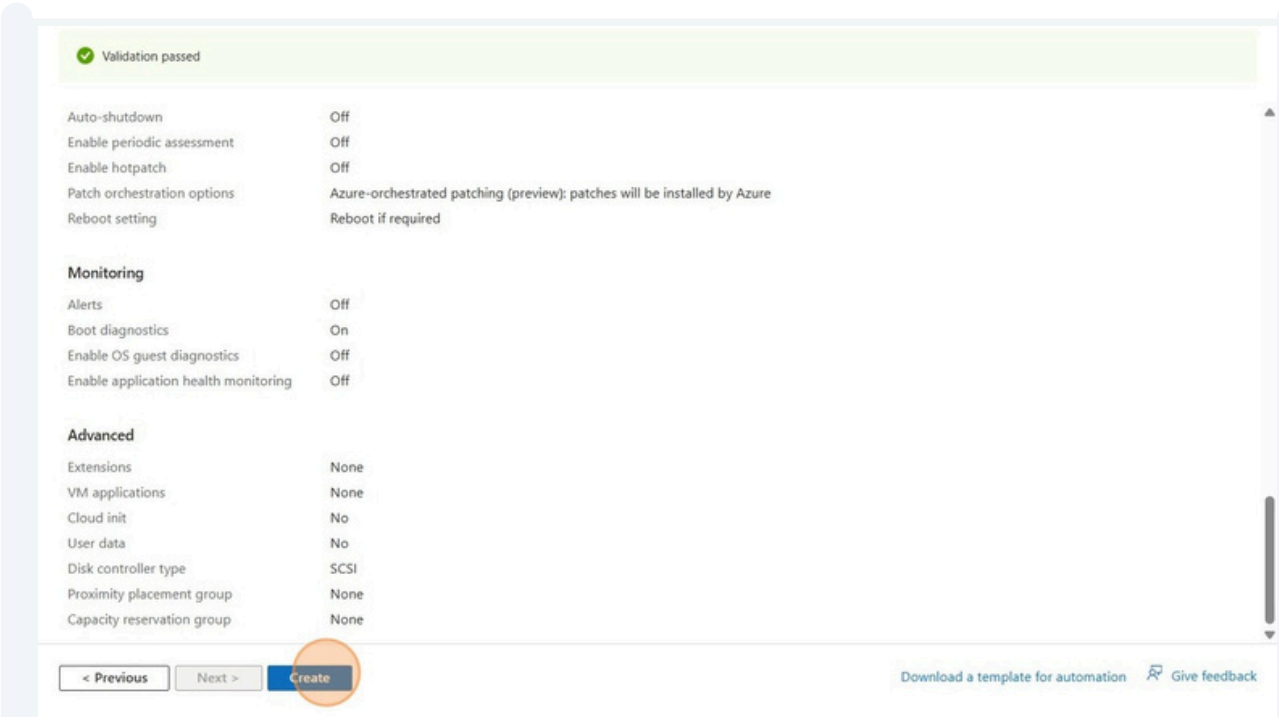


3

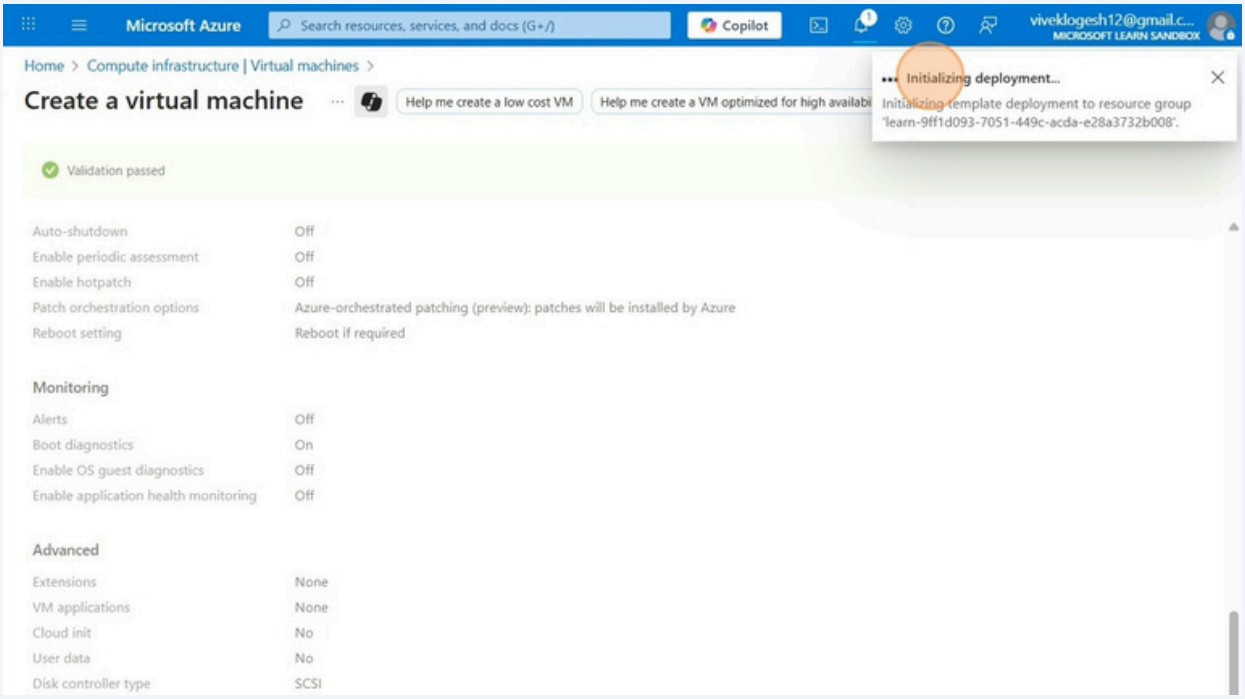
- Define network connectivity by configuring network interface card (NIC) settings.
- Open NIC network security group to review or adjust inbound/outbound rules.
- Click Next: Management >.
- Click Next: Monitoring >.
- Review monitoring options, then proceed.
- If needed, click Cancel to exit, or continue.
- Click Next: Advanced >.
- Click Review + create.
- Verify Monitoring settings by selecting the monitoring icon.
- Confirm configuration and click Review + create again.
- Ensure Region is set to Central US.
- When prompted, select Yes.
- Click Create to deploy the virtual machine.

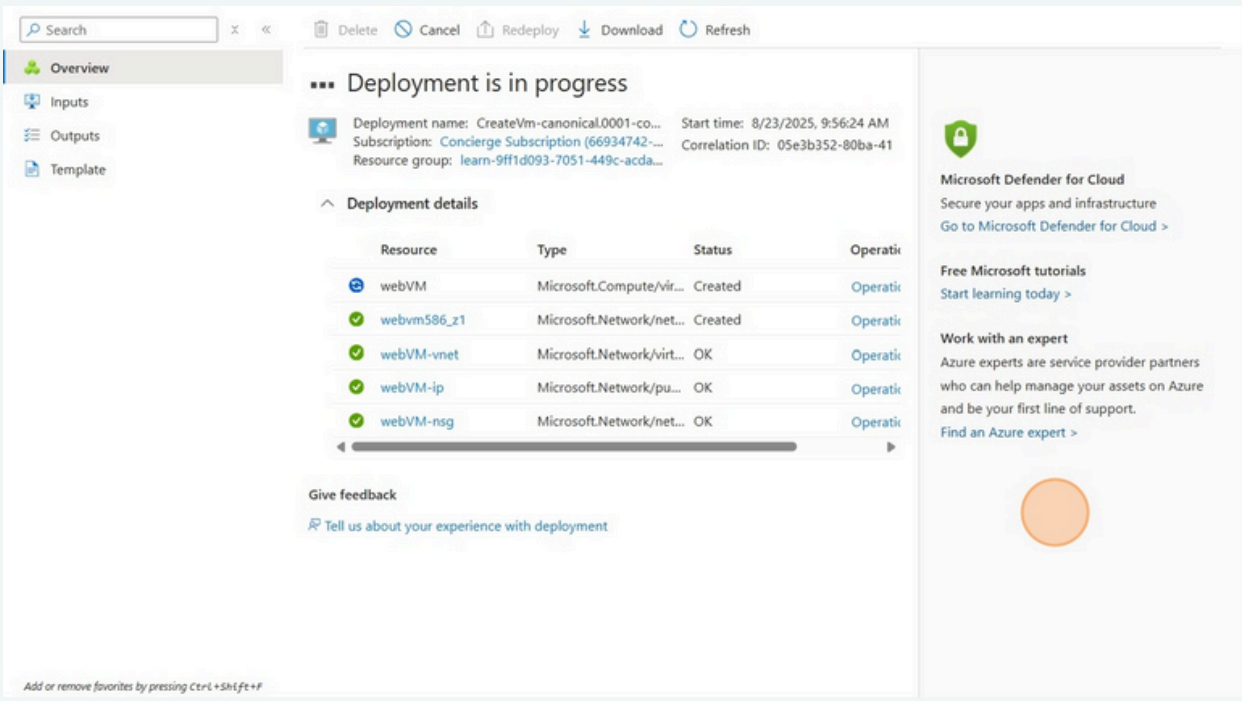

Basics
Disks
Networking
Management
Monitoring
Advanced
Tags
Review + create
Configure monitoring options for your VM.
Alerts
Enable recommended alert rules
Alert rules
Alert rules not configured
Configure
Diagnostics
Boot diagnostics
Enable with managed storage account (recommended)
Enable with custom storage account
Disable
Enable OS guest diagnostics
Health
Enable application health monitoring
< Previous
Next : Advanced >
Review + create
Give feedback

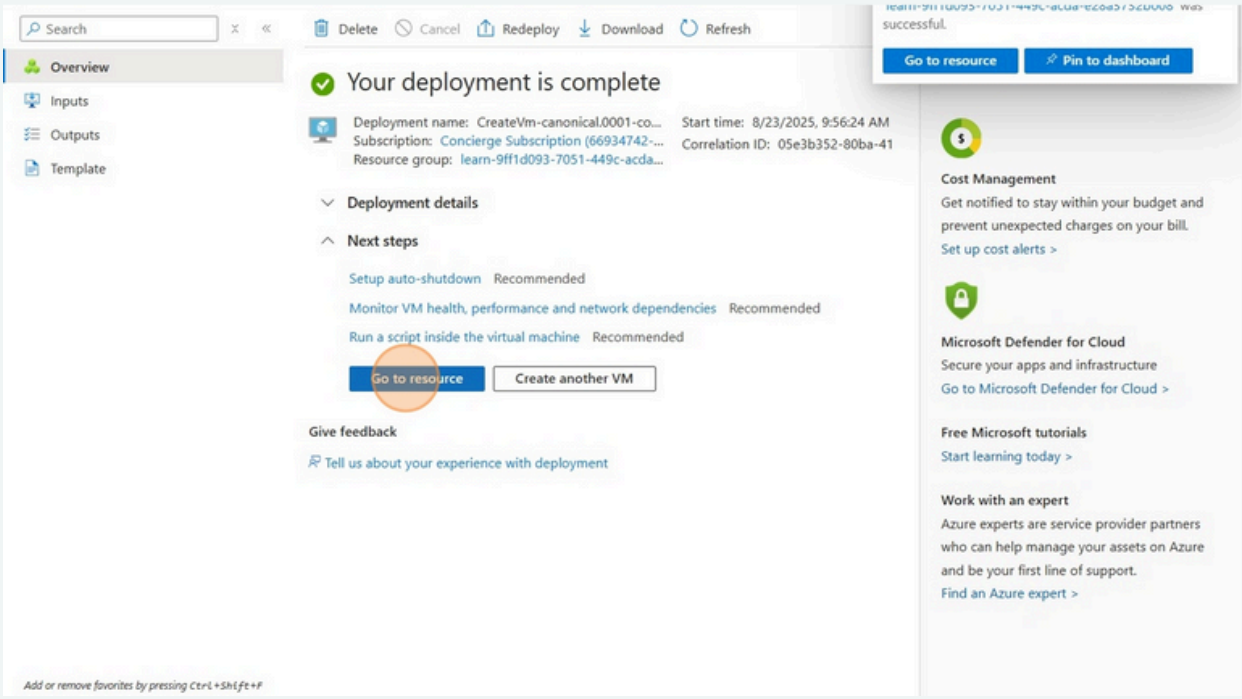

Performance (NVMe)
Enable capabilities to enhance the performance of your resources.
Higher remote disk storage performance with NVMe
The selected size is not supported for NVMe. See supported size families
Host
Azure Dedicated Hosts allow you to provision and manage a physical server within our data centers that are dedicated to your Azure subscription. A dedicated host gives you assurance that only VMs from your subscription are on the host, flexibility to choose VMs from your subscription that will be provisioned on the host, and the control of platform maintenance at the level of the host. Learn more
Host group
No host groups found
Capacity reservations
Capacity reservations allow you to reserve capacity for your virtual machine needs. You get the same SLA as normal virtual machines with the security of reserving the capacity ahead of time. Learn more
Capacity reservation group
None
Proximity placement group
Proximity placement groups allow you to group Azure resources physically closer together in the same region. Learn more
Proximity placement group
No proximity placement groups found
< Previous
Next : Tags >
Review + create
Give feedback



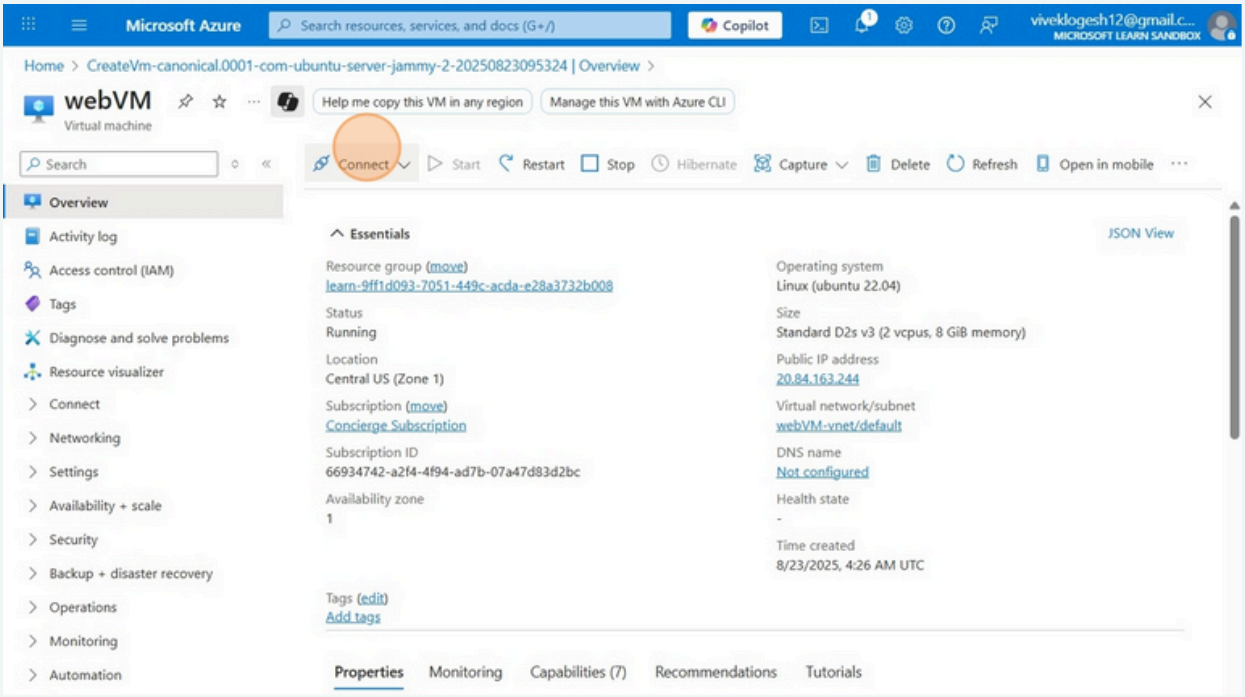
4 Click "Initializing deployment..."
Click "Deployment is in progress"
Click "Microsoft Defender for CloudSecure your apps and infrastructureGo to Microsoft Defender for Cloud >Free Microsoft tutorialsStart learning today ..."
Click "Go to resource"

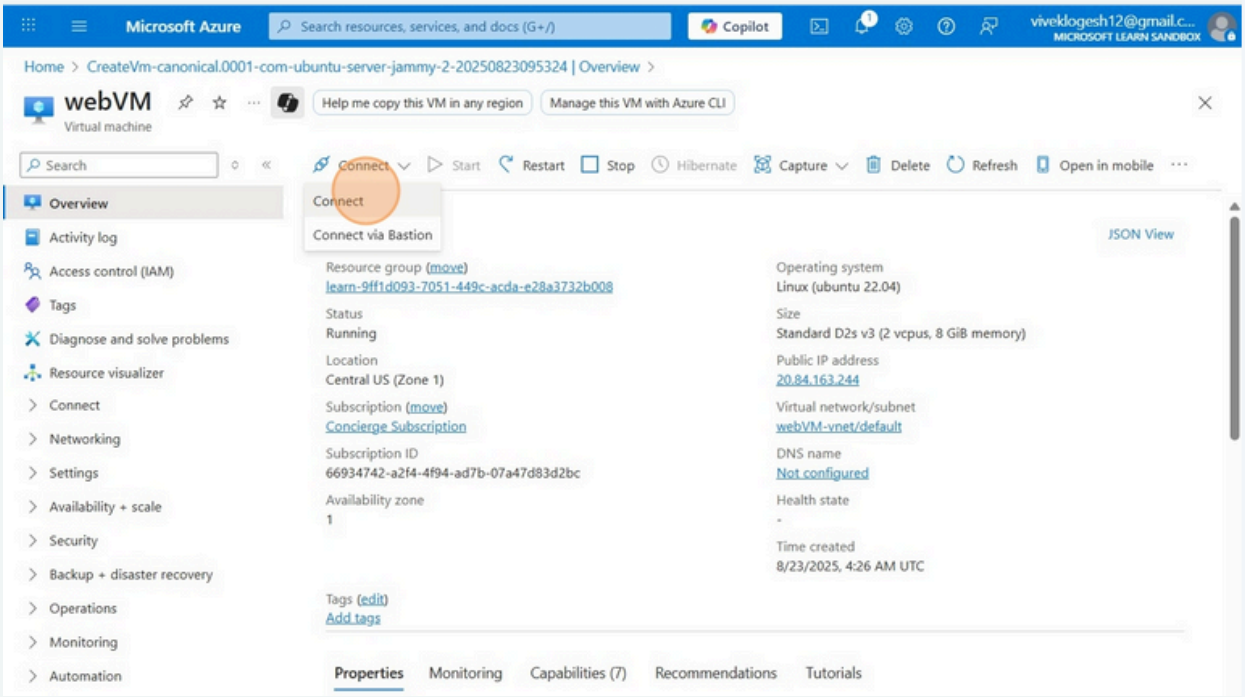




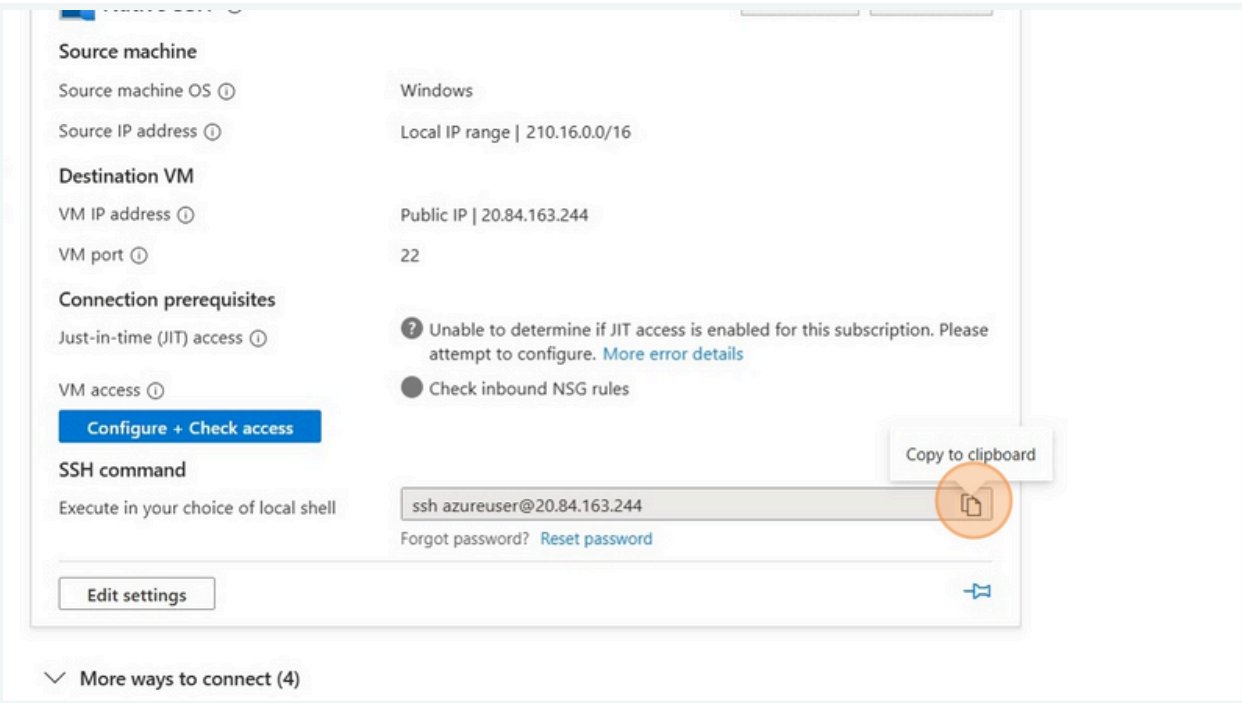


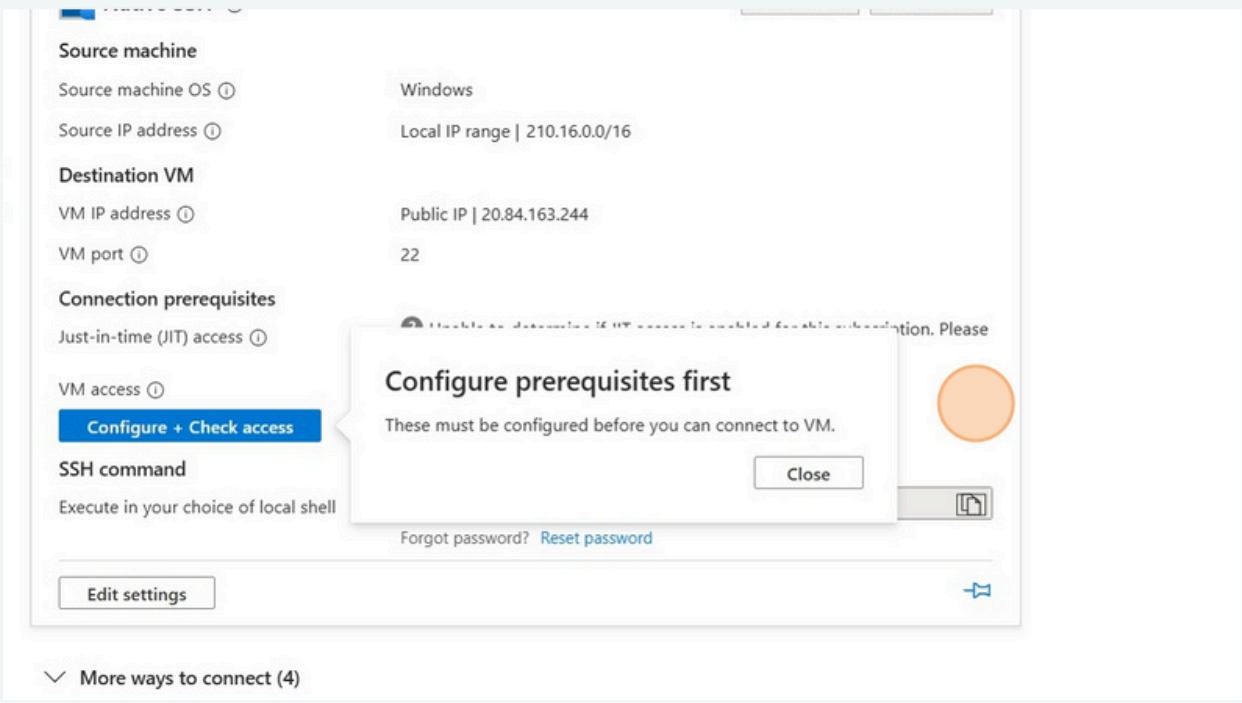
5 Click "Resource group"
Click "Location"
Click "Connect"





6 Click here.
Click "VM accessCheck inbound NSG rules"

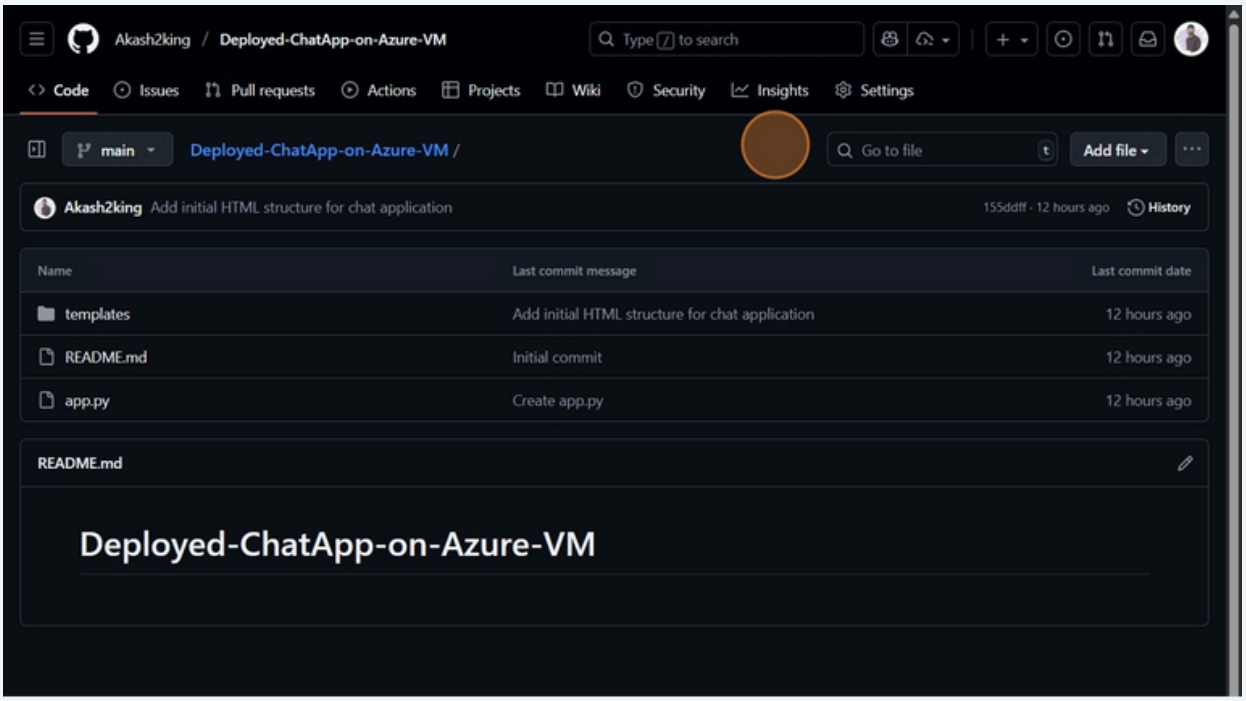


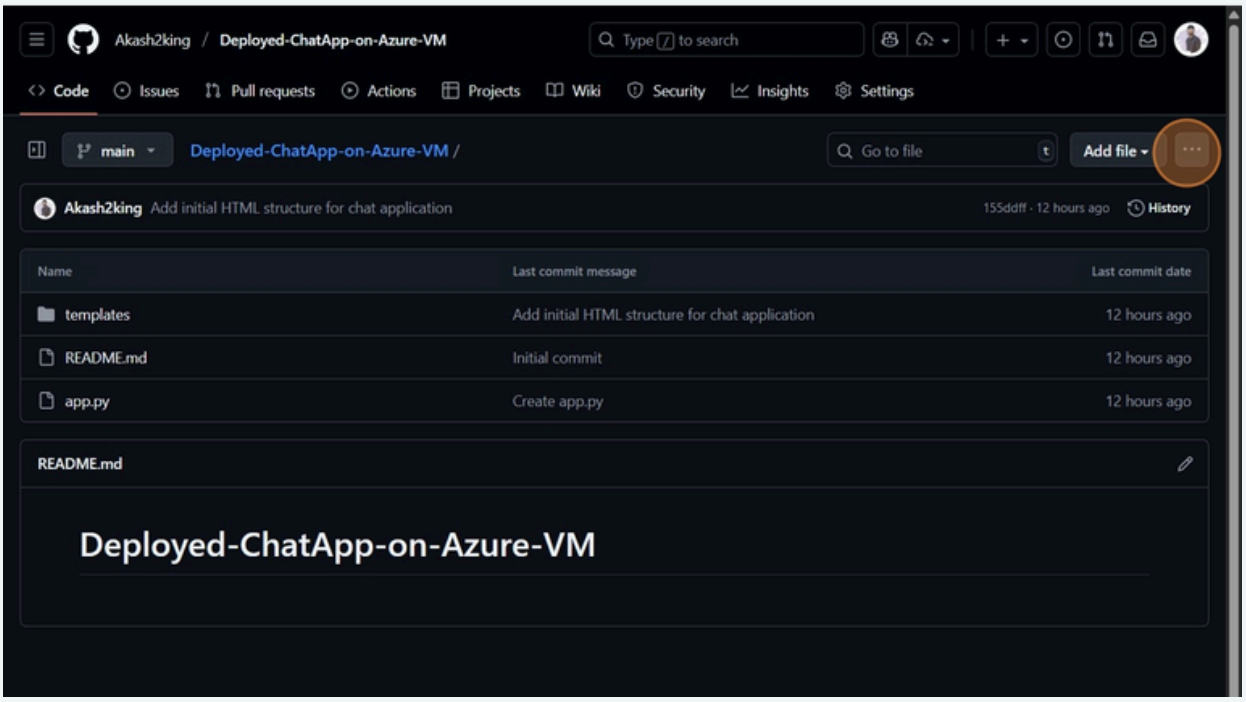


7 Switch to tab Deployed-ChatApp-on-Azure-VM/ at main · Akash2king/Deployed-ChatApp-on-Azure-VM"

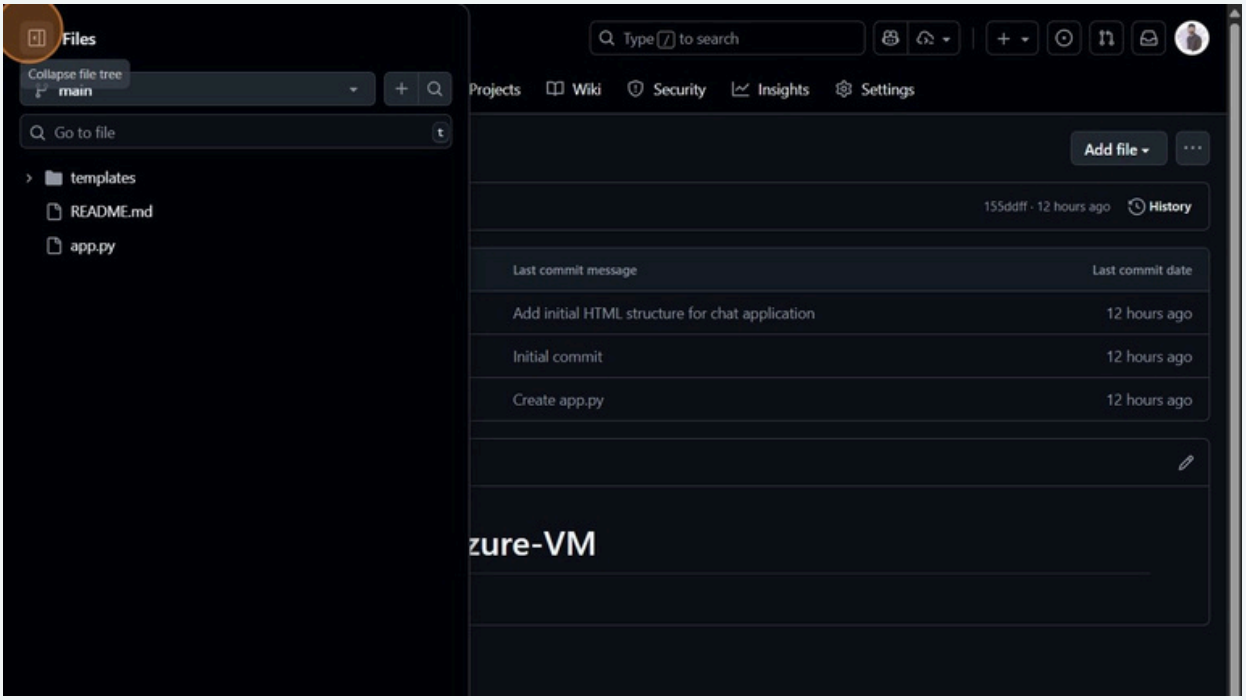
8 Click "mainBreadcrumbsDeployed-ChatApp-on-Azure-VMDeployed-ChatApp-on-Azure-VMDirectory actionsAdd fileAdd fileMore options"
Click this button.
Click "mainBreadcrumbsDeployed-ChatApp-on-Azure-VMDeployed-ChatApp-on-Az

ure-VMDirectory actionsAdd fileAdd fileMore options"
Click this icon.

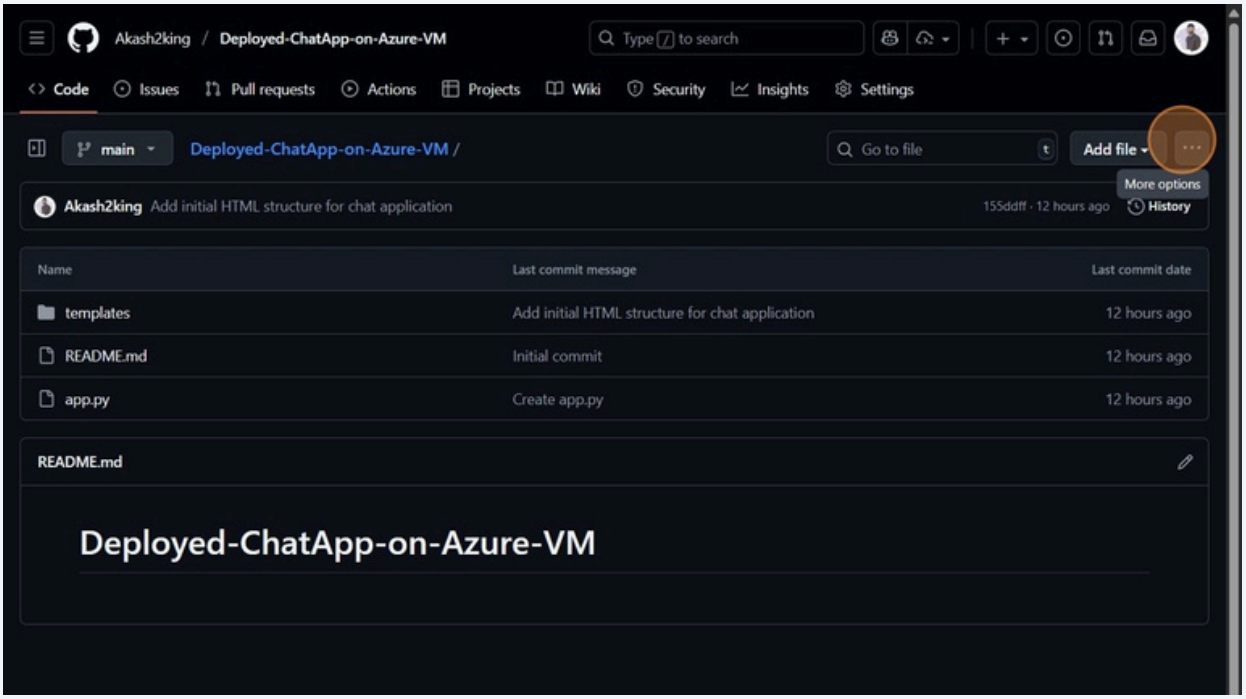


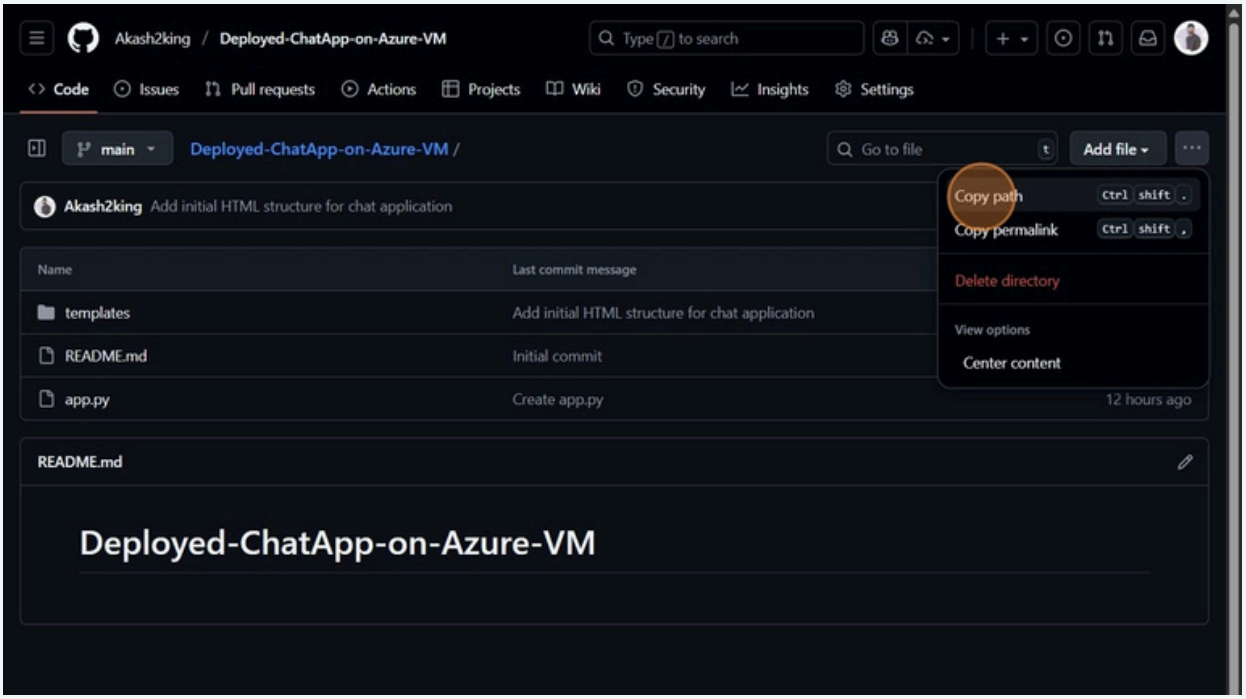


9 Click this icon.

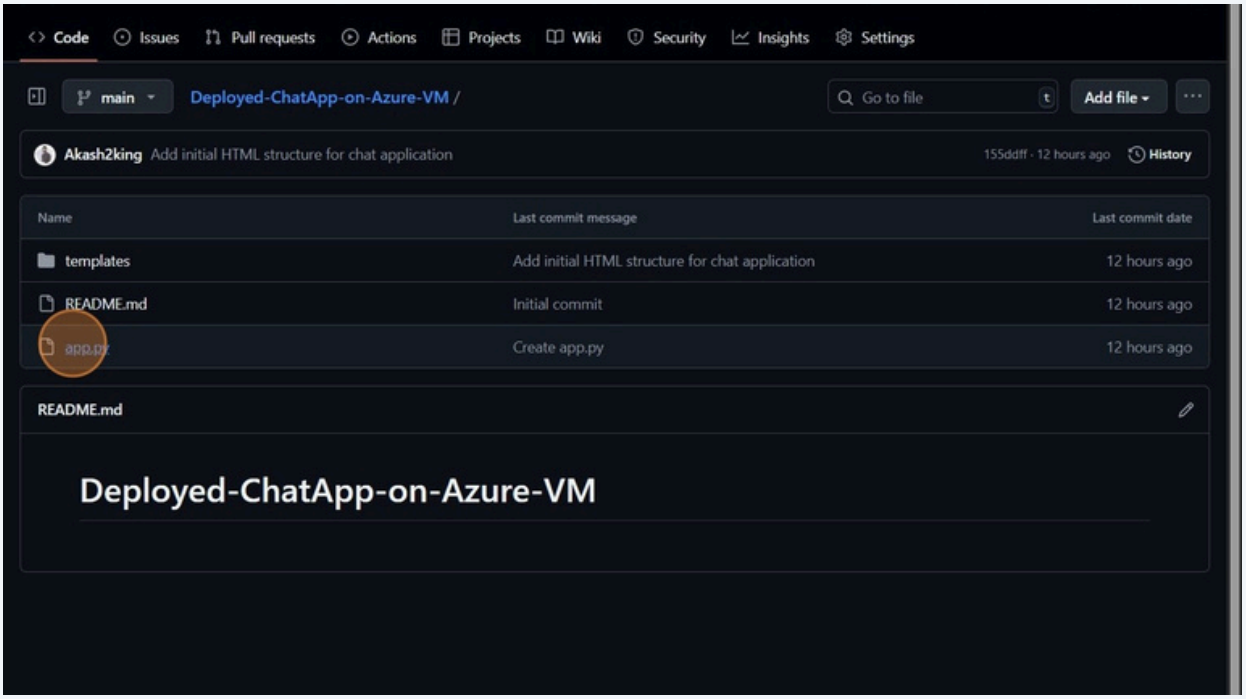


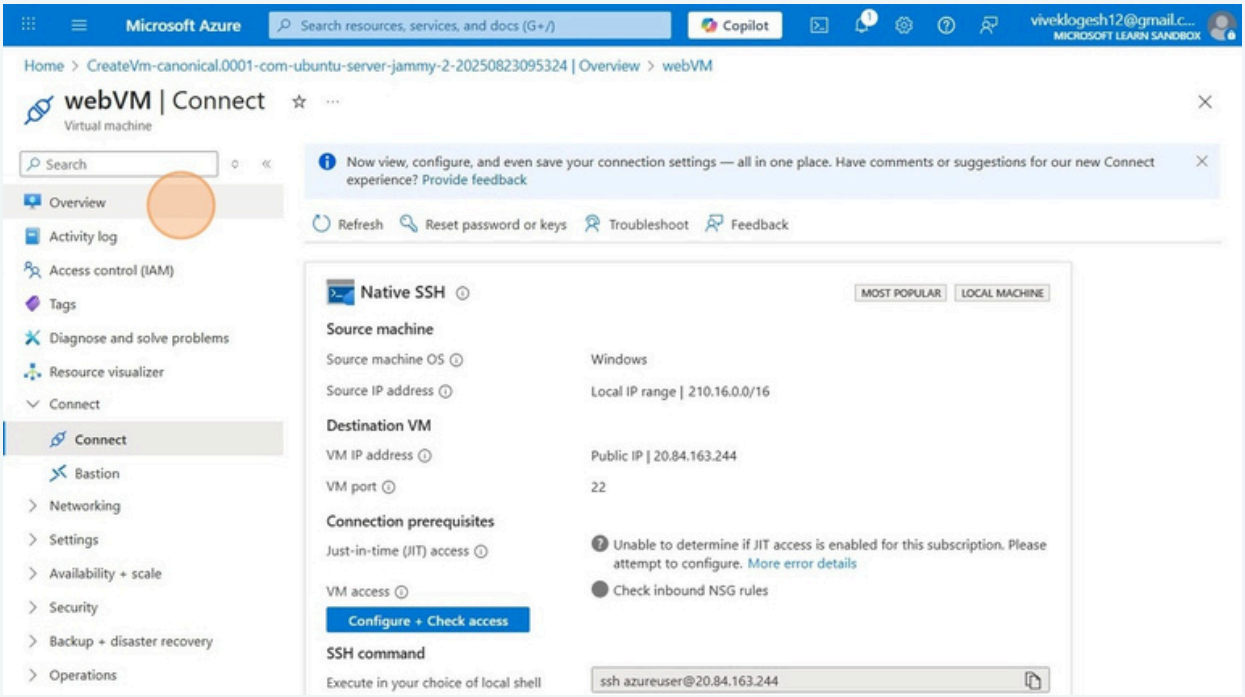
10 Click this icon.
Click "Copy path"



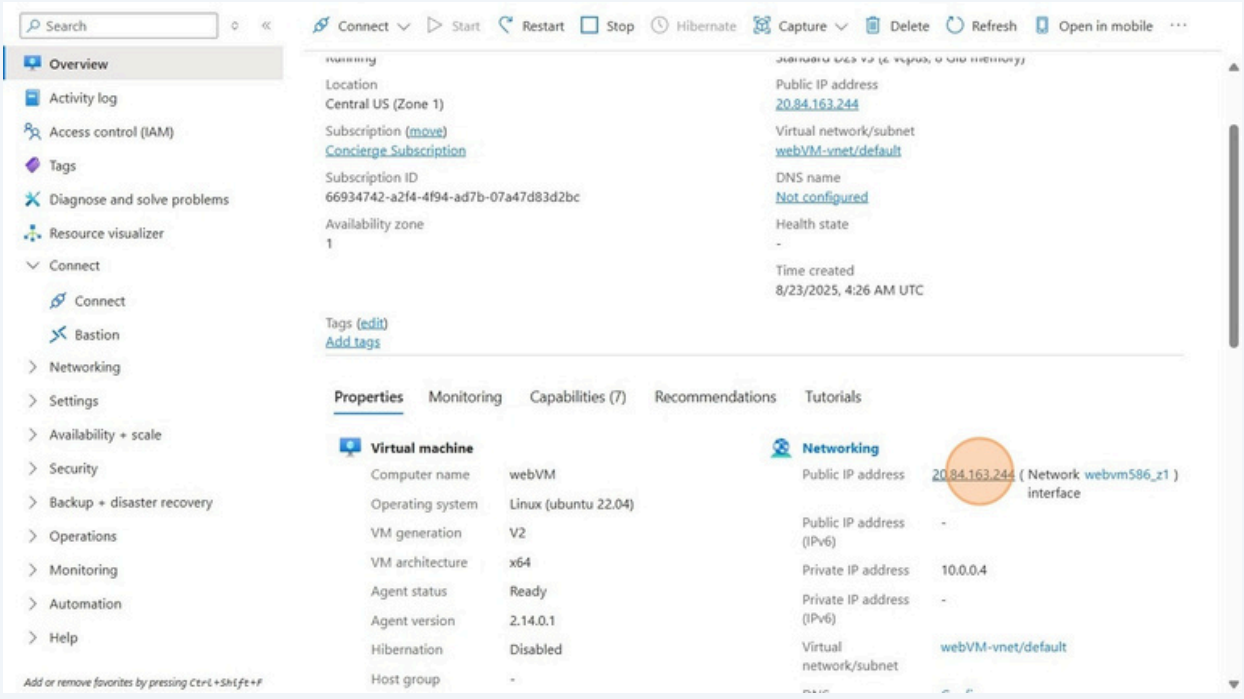


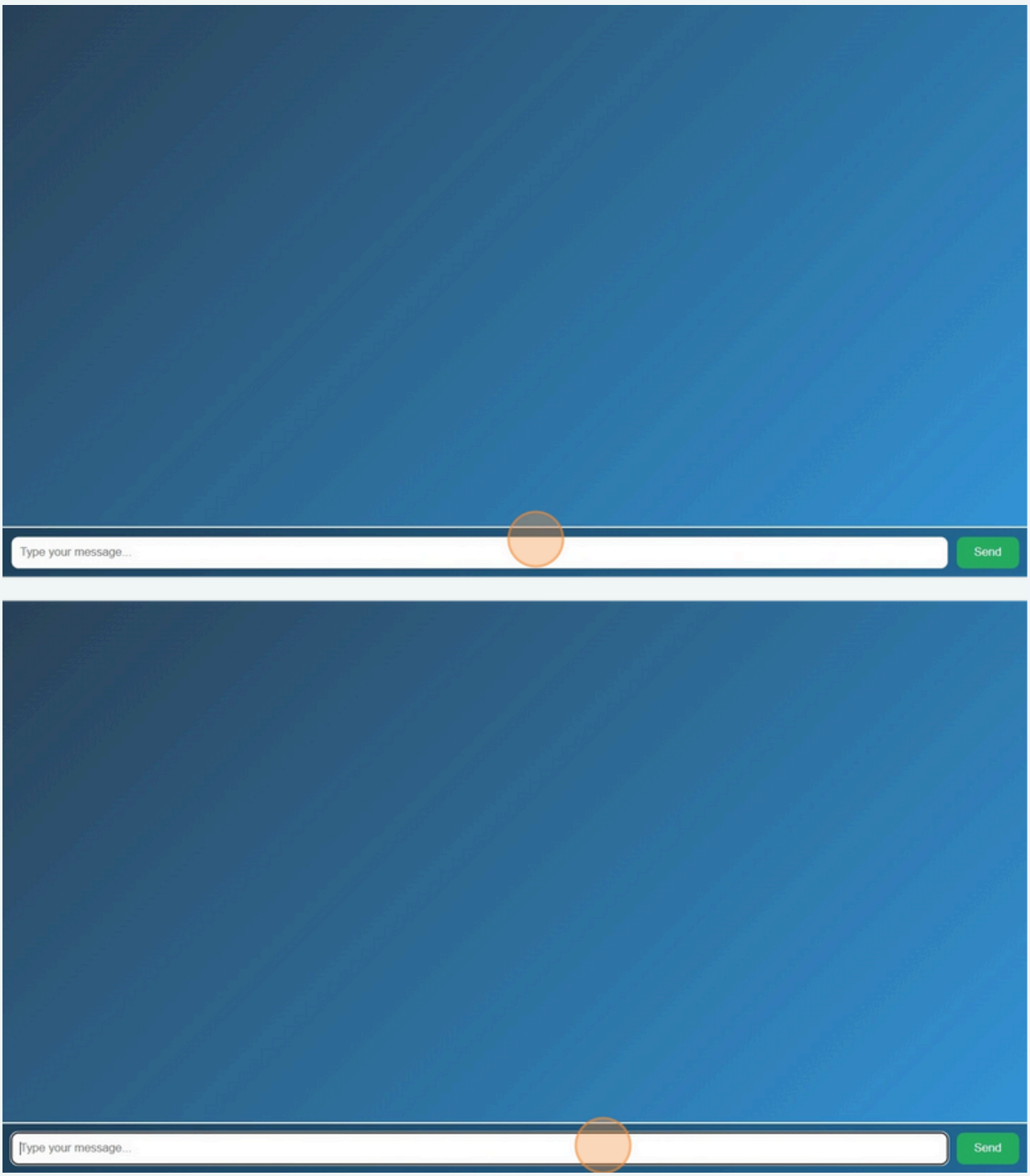
11 Click "app.py
Click this field.
Click "Deployed-ChatApp-on-Azure-VM"





14 Click "20.84.163.244"





17 Type "congrats enter "