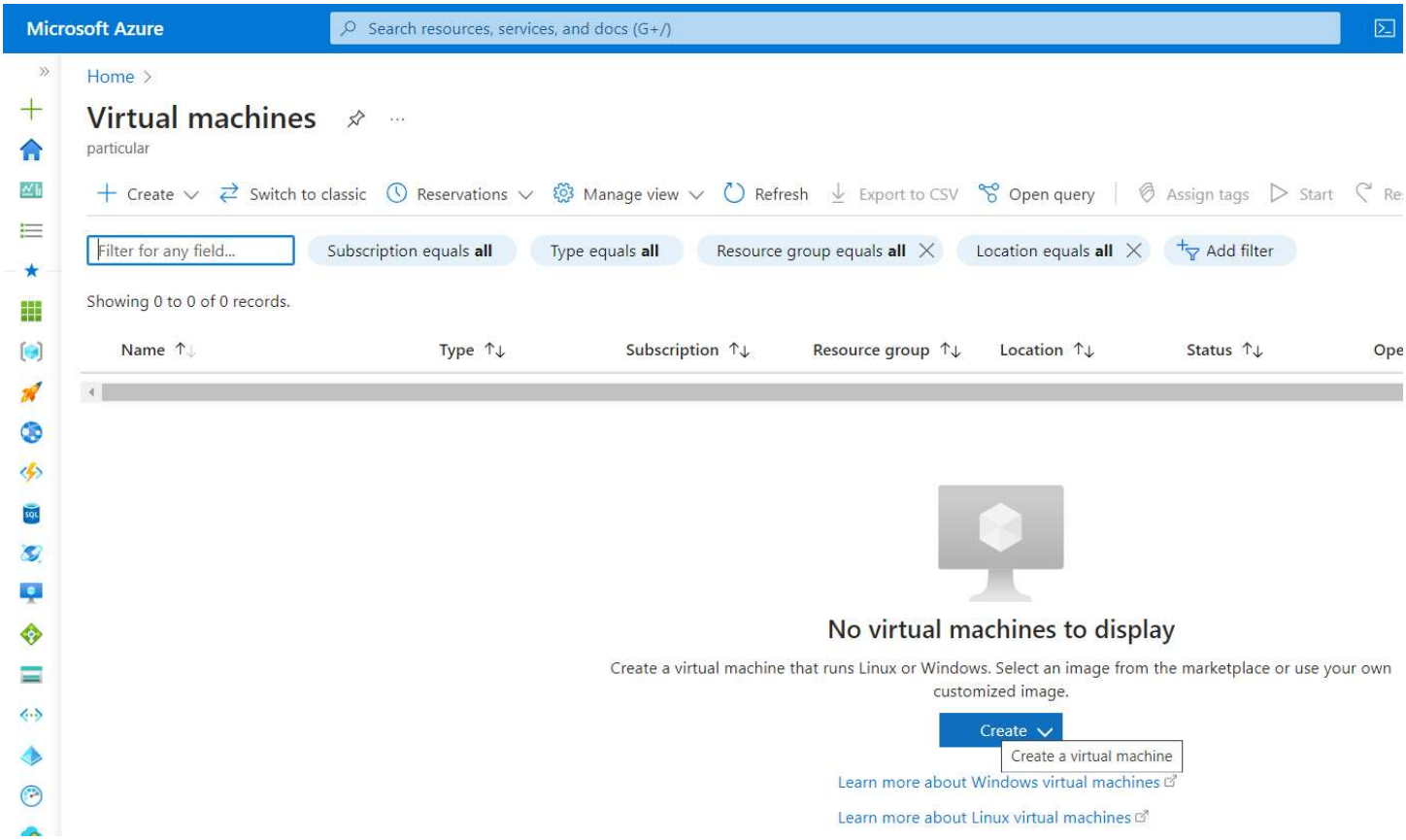
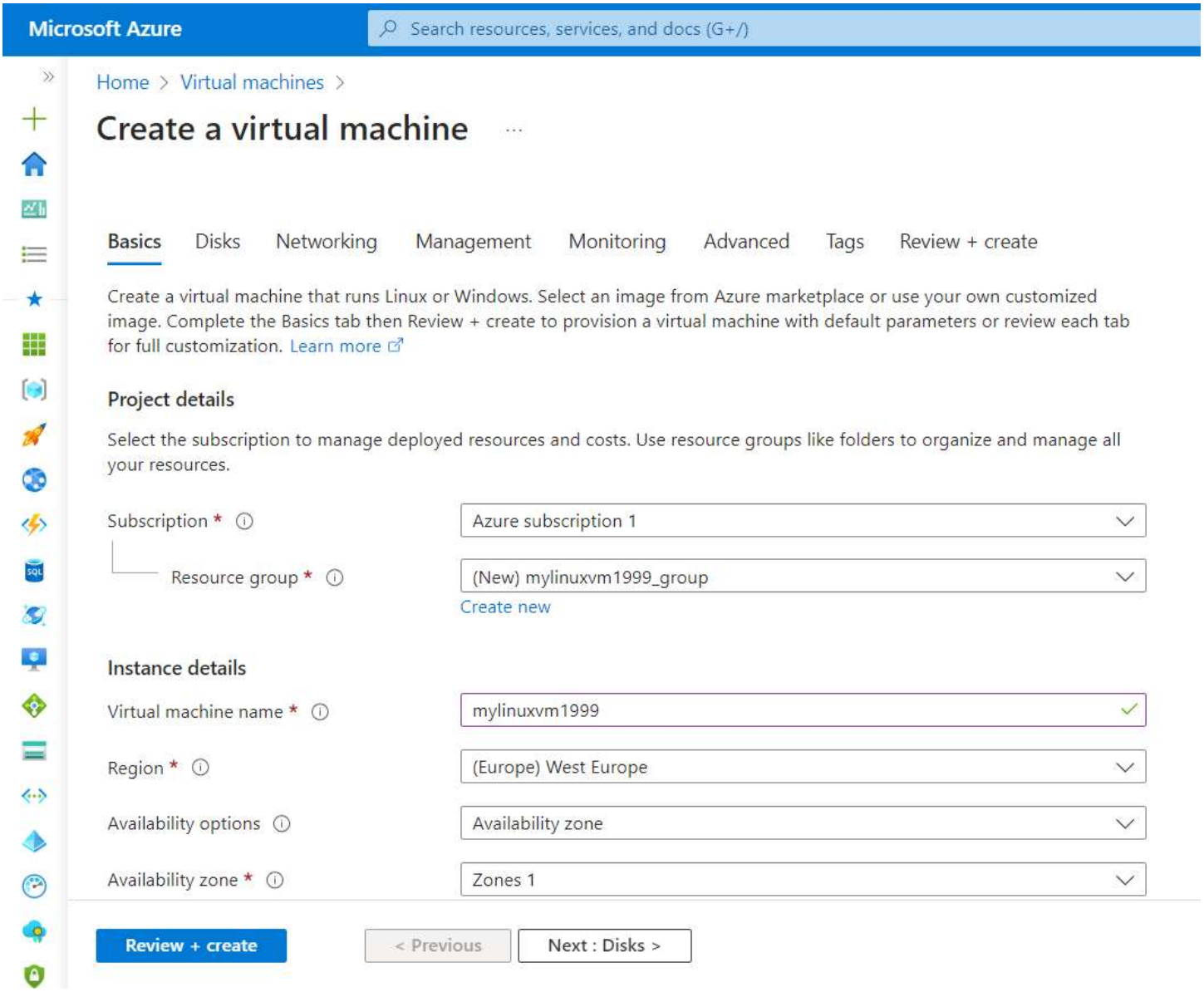
How to create an Azure Virtual Machine with Ubuntu Server and with a GUI Desktop

1. INSTALL AND CONFIGURE xrdp TO USE REMOTE DESKTOP WITH UBUNTU

https://learn.microsoft.com/en-us/azure/virtual-machines/linux/use-remote-desktop?tabs=azure-cli

1.1. Create an Azure Virtual Machine with Ubuntu Server installed




Microsoft Azure
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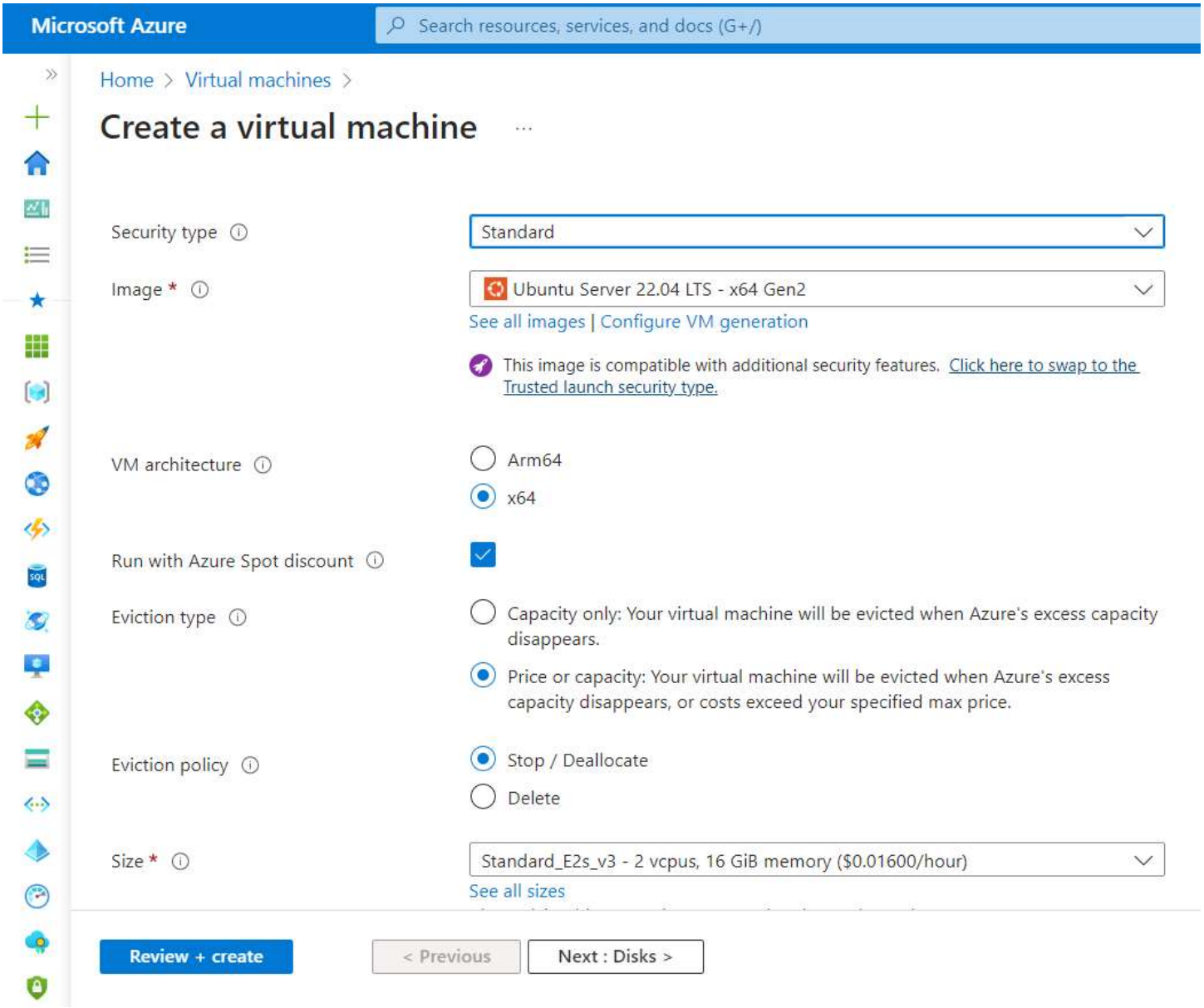
Home > Virtual machines >
Create a virtual machine
Basics
Disks
Networking
Management
Monitoring
Advanced
Tags
Review + create
Create a virtual machine that runs Linux or Windows. Select an image from Azure marketplace or use your own customized image. Complete the Basics tab then Review + create to 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 *
Azure subscription 1
Resource group *
(New) mylinuxvm1999_group
Create new
Instance details
Virtual machine name *
mylinuxvm1999
Region *
(Europe) West Europe
Availability options
Availability zone
Availability zone *
Zones 1
Review + create
< Previous
Next : Disks >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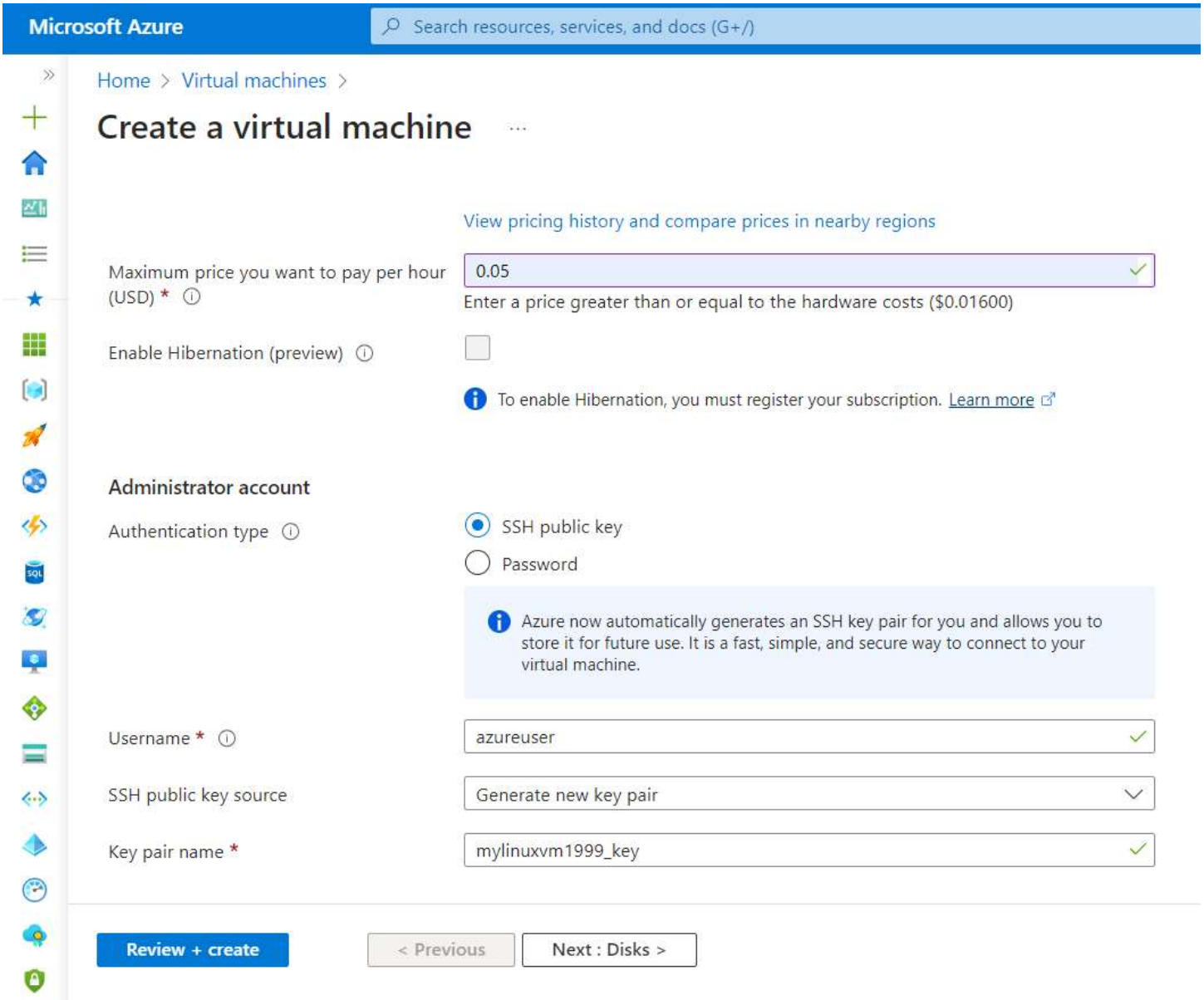
Home > Virtual machines >
Create a virtual machine
Security type
Standard
Image *
Ubuntu Server 22.04 LTS - x64 Gen2
See all images | Configure VM generation
This image is compatible with additional security features. Click here to swap to the Trusted launch security type.
VM architecture
Arm64
x64
Run with Azure Spot discount
Eviction type
Capacity only: Your virtual machine will be evicted when Azure's excess capacity disappears.
Price or capacity: Your virtual machine will be evicted when Azure's excess capacity disappears, or costs exceed your specified max price.
Eviction policy
Stop / Deallocate
Delete
Size *
Standard_E2s_v3 - 2 vcpus, 16 GiB memory ($0.01600/hour)
See all sizes
Review + create
< Previous
Next : Disks >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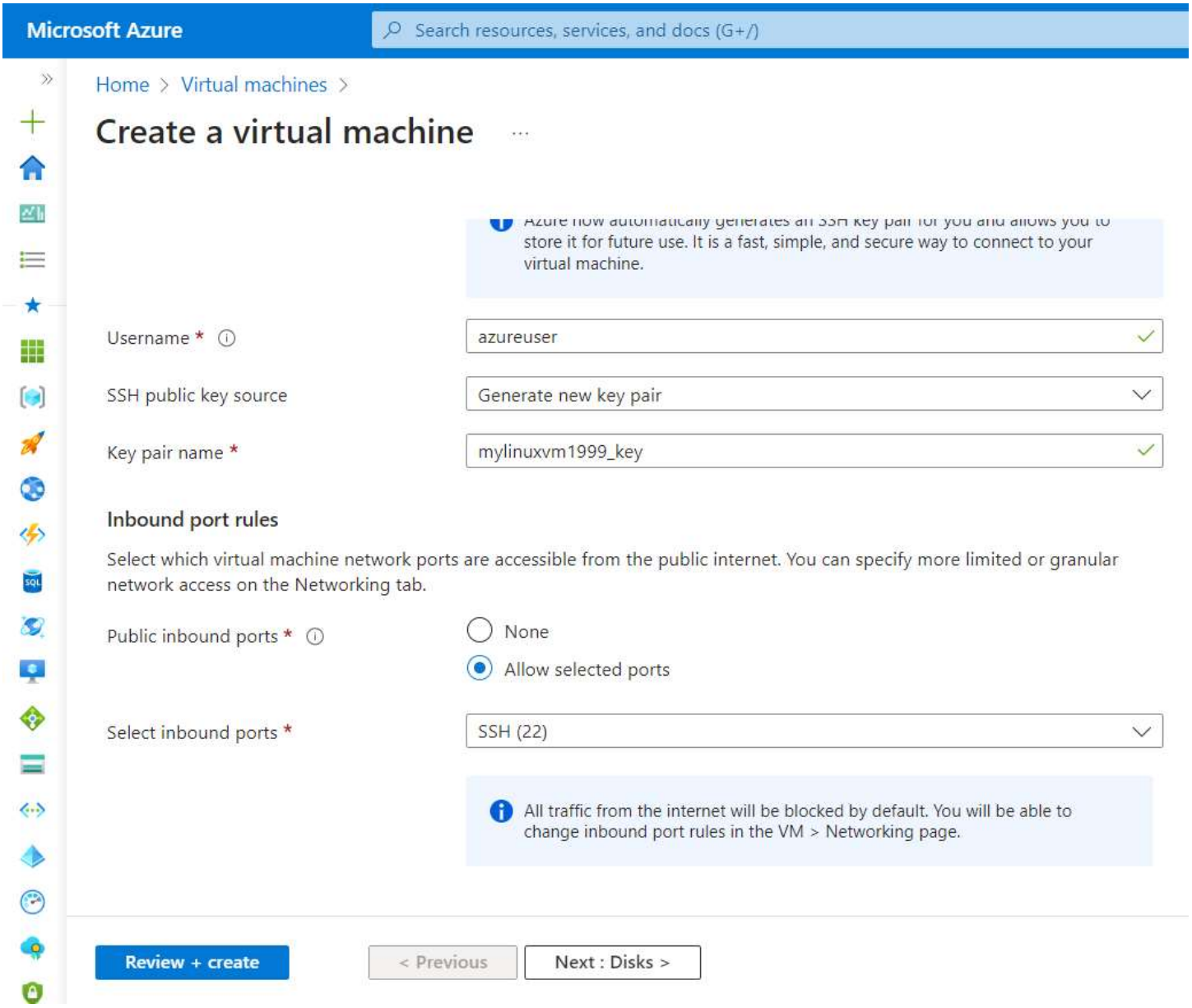
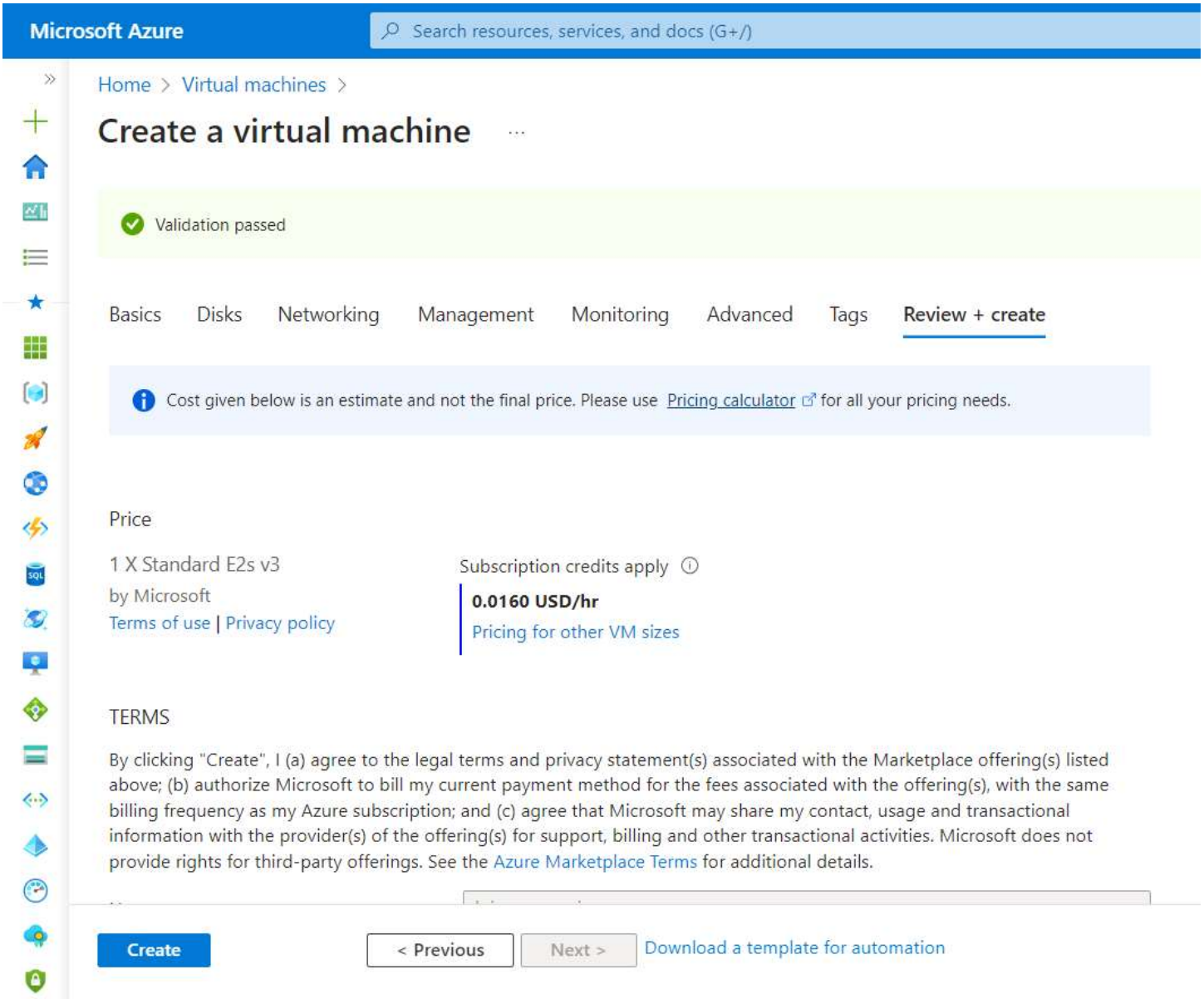
Create a virtual machine
View pricing history and compare prices in nearby regions
Maximum price you want to pay per hour (USD) *
0.05
Enter a price greater than or equal to the hardware costs ($0.01600)
Enable Hibernation (preview)
To enable Hibernation, you must register your subscription. Learn more
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
Key pair name *
mylinuxvm1999_key
Review + create
< Previous
Next : Disks >


Microsoft Azure
Search resources, services, and docs (G+/)
Home > Virtual machines >
Create a virtual machine
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
Key pair name *
mylinuxvm1999_key
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)
All traffic from the internet will be blocked by default. You will be able to change inbound port rules in the VM > Networking page.
Review + create
< Previous
Next : Disks >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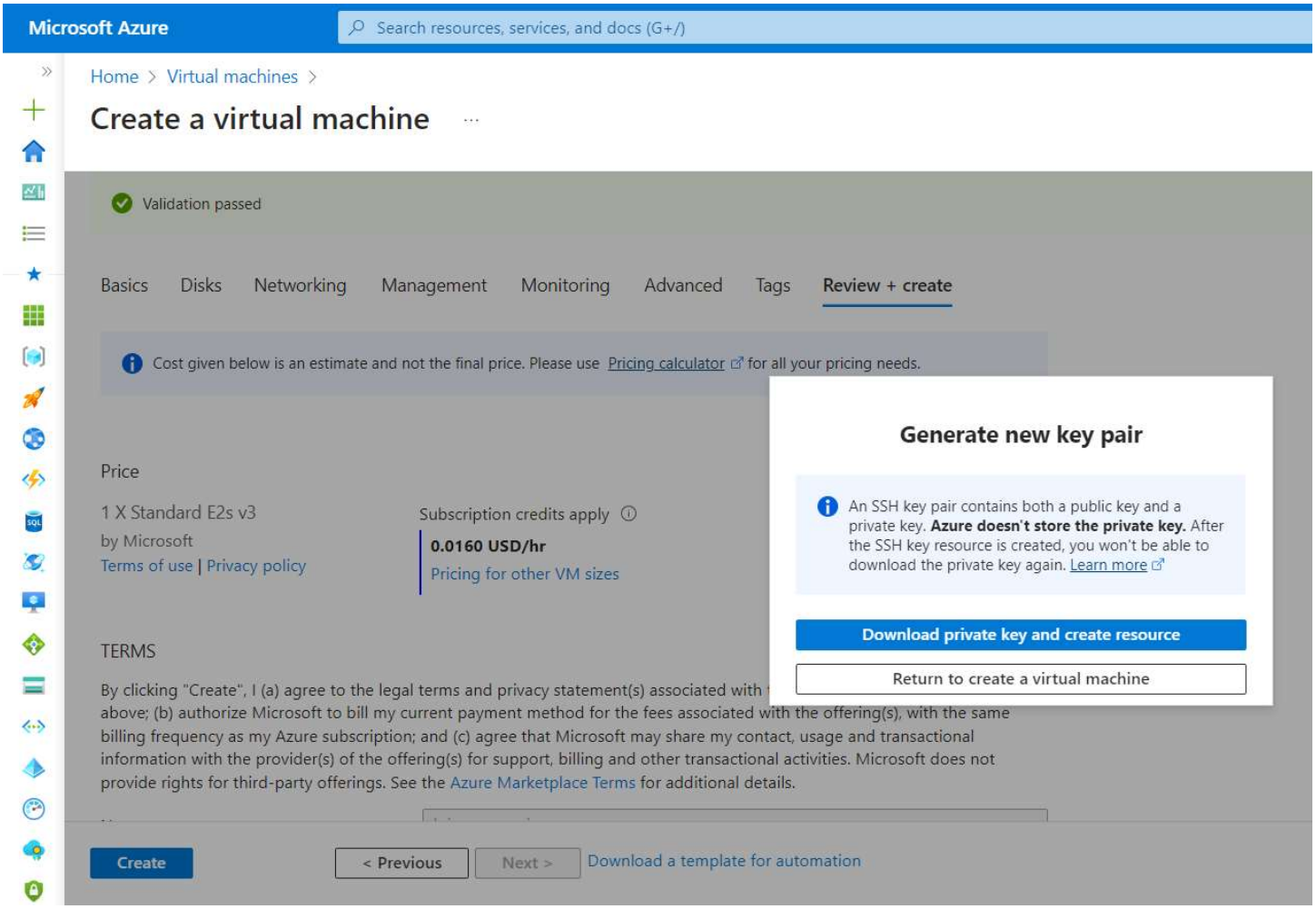
Home > Virtual machines >
Create a virtual machine
Validation passed
Basics Disks Networking Management Monitoring Advanced Tags Review + create
Cost given below is an estimate and not the final price. Please use Pricing calculator for all your pricing needs.
Price
1 X Standard E2s v3
by Microsoft
Terms of use | Privacy policy
Subscription credits apply
0.0160 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.
Create
< Previous
Next >
Download a template for automation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Create a virtual machine
Validation passed
Basics Disks Networking Management Monitoring Advanced Tags Review + create
Cost given below is an estimate and not the final price. Please use Pricing calculator for all your pricing needs.
Price
1 X Standard E2s v3
by Microsoft
Terms of use | Privacy policy
Subscription credits apply
0.0160 USD/hr
Pricing for other VM sizes
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By clicking "Create", I (a) agree to the legal terms and privacy statement(s) associated with the 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.
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< Previous
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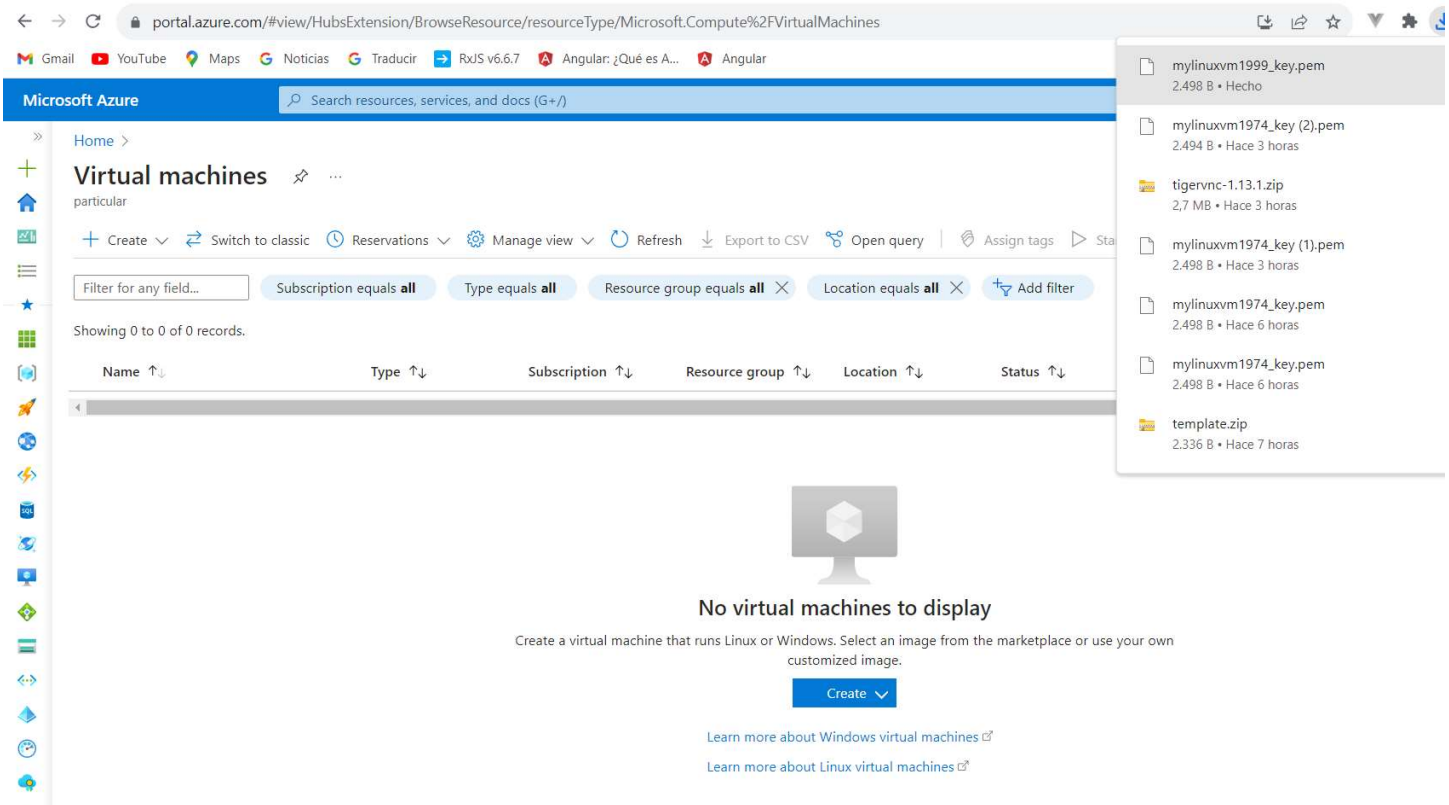
Generate new key pair
An SSH key pair contains both a public key and a private key. Azure doesn't store the private key. After the SSH key resource is created, you won't be able to download the private key again. Learn more
Download private key and create resource
Return to create a virtual machine


portal.azure.com/#view/HubsExtension/BrowseResource/resourceType/Microsoft.Compute%2FVirtualMachines
Gmail YouTube Maps Noticias Traducir RxJS v6.6.7 Angular: ¿Qué es A... Angular
Microsoft Azure
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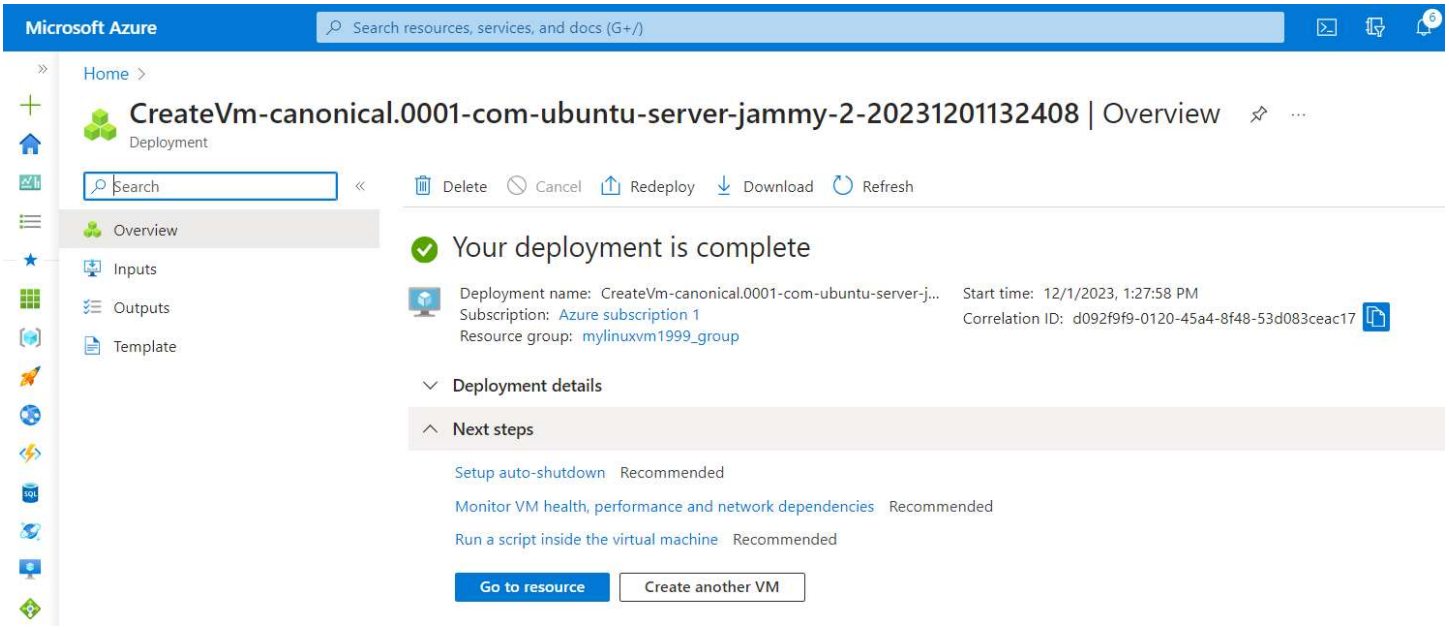
Home >
Virtual machines
particular
Create Switch to classic Reservations Manage view Refresh Export to CSV Open query Assign tags
Filter for any field...
Subscription equals all
Type equals all
Resource group equals all
Location equals all
Add filter
Showing 0 to 0 of 0 records.
Name Type Subscription Resource group Location Status
No virtual machines to display
Create a virtual machine that runs Linux or Windows. Select an image from the marketplace or use your own customized image.
Create
Learn more about Windows virtual machines
Learn more about Linux virtual machines
mylinuxvm1999_key.pem
2.498 B • Hecho
mylinuxvm1974_key (2).pem
2.494 B • Hace 3 horas
tigervnc-1.13.1.zip
2,7 MB • Hace 3 horas
mylinuxvm1974_key (1).pem
2.498 B • Hace 3 horas
mylinuxvm1974_key.pem
2.498 B • Hace 6 horas
mylinuxvm1974_key.pem
2.498 B • Hace 6 horas
template.zip
2.336 B • Hace 7 horas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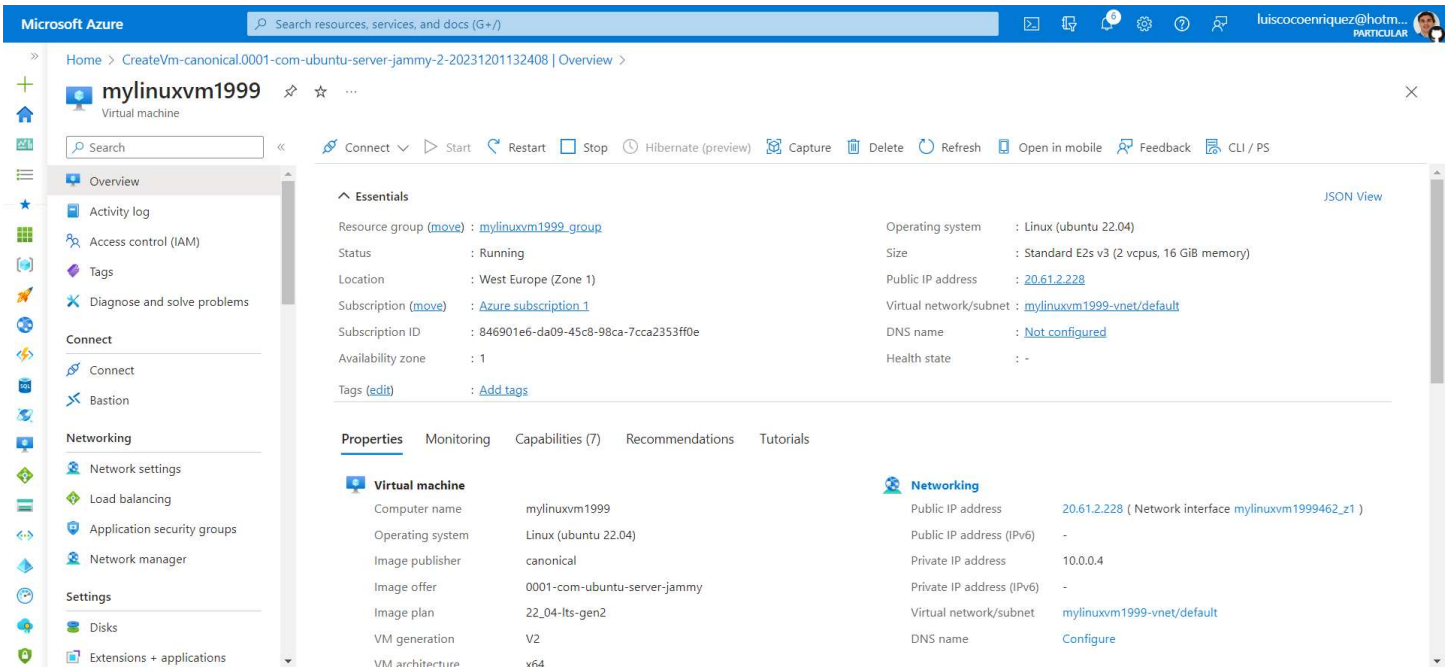
Home >
CreateVm-canonical.0001-com-ubuntu-server-jammy-2-20231201132408 | Overview
Deployment
Search
Overview
Inputs
Outputs
Template
Delete
Cancel
Redeploy
Download
Refresh
Your deployment is complete
Deployment name: CreateVm-canonical.0001-com-ubuntu-server-j...
Subscription: Azure subscription 1
Resource group: mylinuxvm1999_group
Start time: 12/1/2023, 1:27:58 PM
Correlation ID: d092f9f9-0120-45a4-8f48-53d083ceac17
Deployment details
Next steps
Setup 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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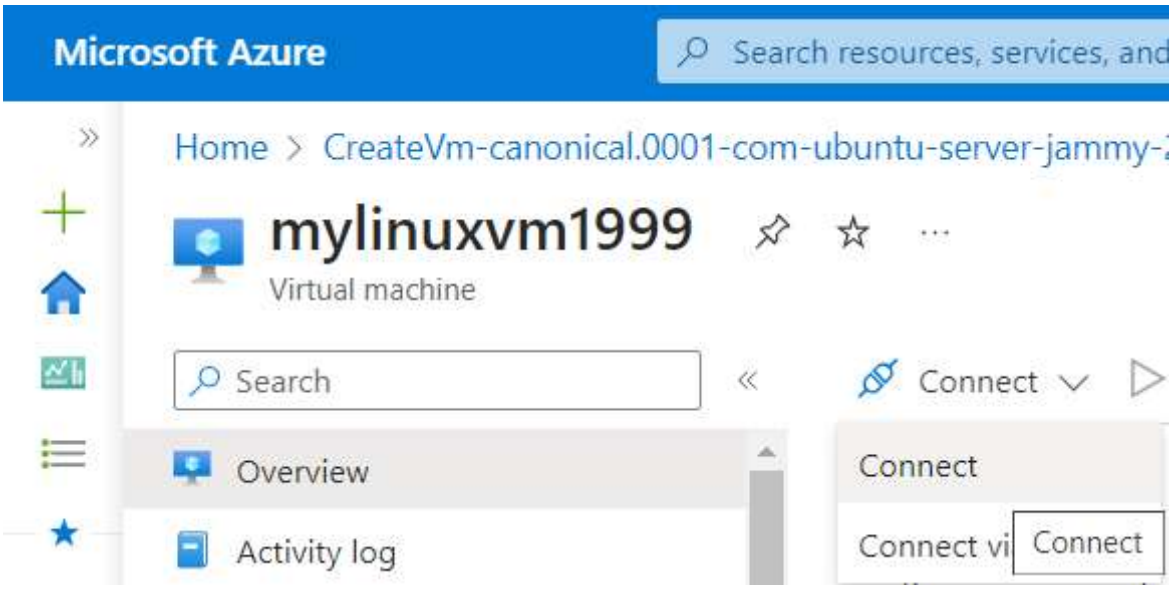
luiscocoenriquez@hotm...
PARTICULAR
Home > CreateVm-canonical.0001-com-ubuntu-server-jammy-2-20231201132408 | Overview >
mylinuxvm1999
Virtual machine
Search
Overview
Activity log
Access control (IAM)
Tags
Diagnose and solve problems
Connect
Connect
Bastion
Networking
Network settings
Load balancing
Application security groups
Network manager
Settings
Disks
Extensions + applications
Connect
Start
Restart
Stop
Hibernate (preview)
Capture
Delete
Refresh
Open in mobile
Feedback
CLI / PS
Essentials
JSON View
Resource group (move) : mylinuxvm1999_group
Status : Running
Location : West Europe (Zone 1)
Subscription (move) : Azure subscription 1
Subscription ID : 846901e6-da09-45c8-98ca-7cca2353ff0e
Availability zone : 1
Tags (edit) : Add tags
Operating system : Linux (ubuntu 22.04)
Size : Standard E2s v3 (2 vcpus, 16 GiB memory)
Public IP address : 20.61.2.228
Virtual network/subnet : mylinuxvm1999-vnet/default
DNS name : Not configured
Health state : -
Properties
Monitoring
Capabilities (7)
Recommendations
Tutorials
Virtual machine
Computer name mylinuxvm1999
Operating system Linux (ubuntu 22.04)
Image publisher canonical
Image offer 0001-com-ubuntu-server-jammy
Image plan 22_04-lts-gen2
VM generation V2
Networking
Public IP address 20.61.2.228 (Network interface mylinuxvm1999462_z1)
Public IP address (IPv6) -
Private IP address 10.0.0.4
Private IP address (IPv6) -
Virtual network/subnet mylinuxvm1999-vnet/default
DNS name Configure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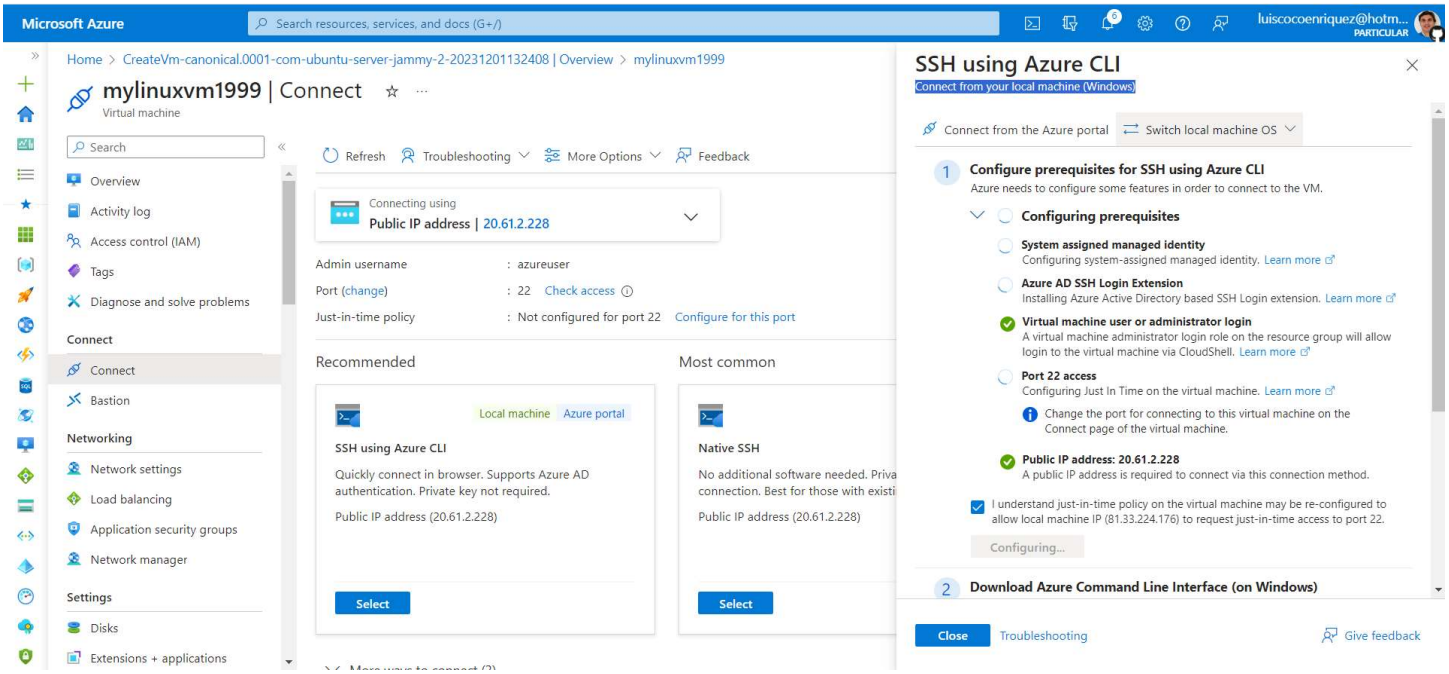
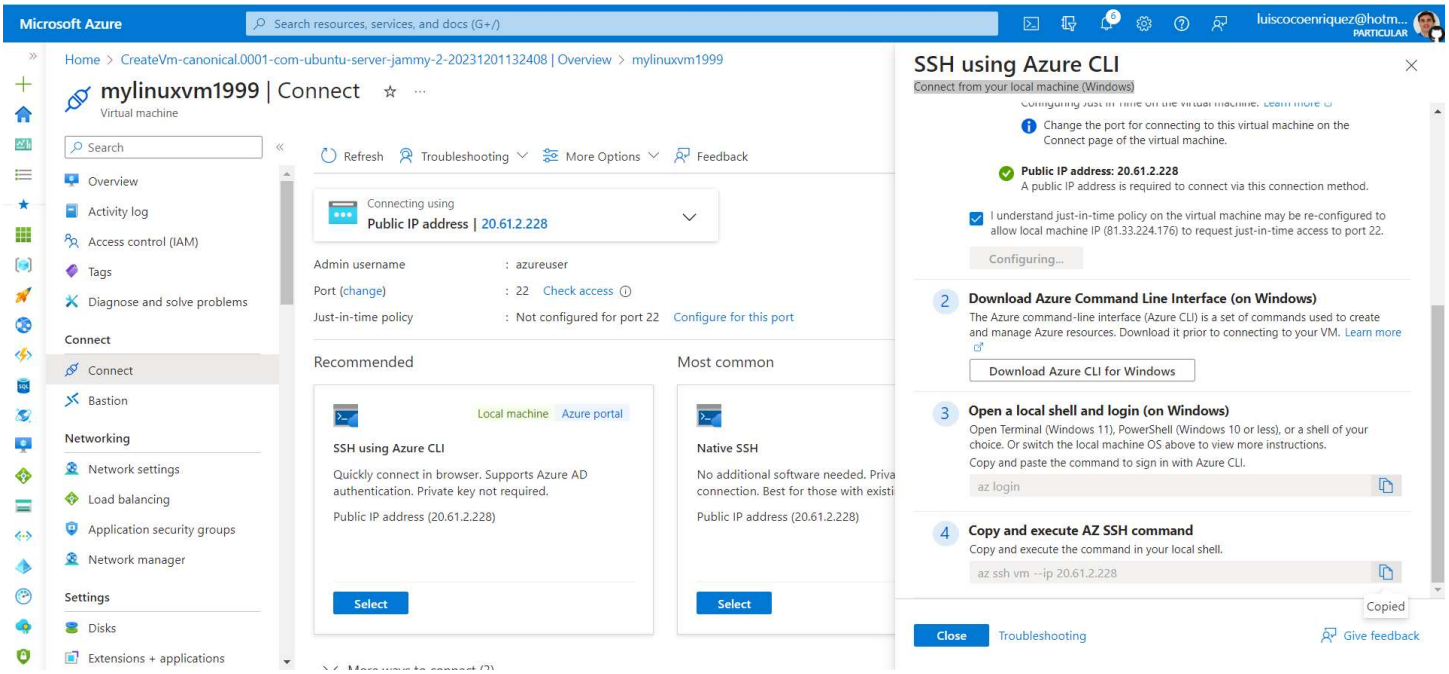
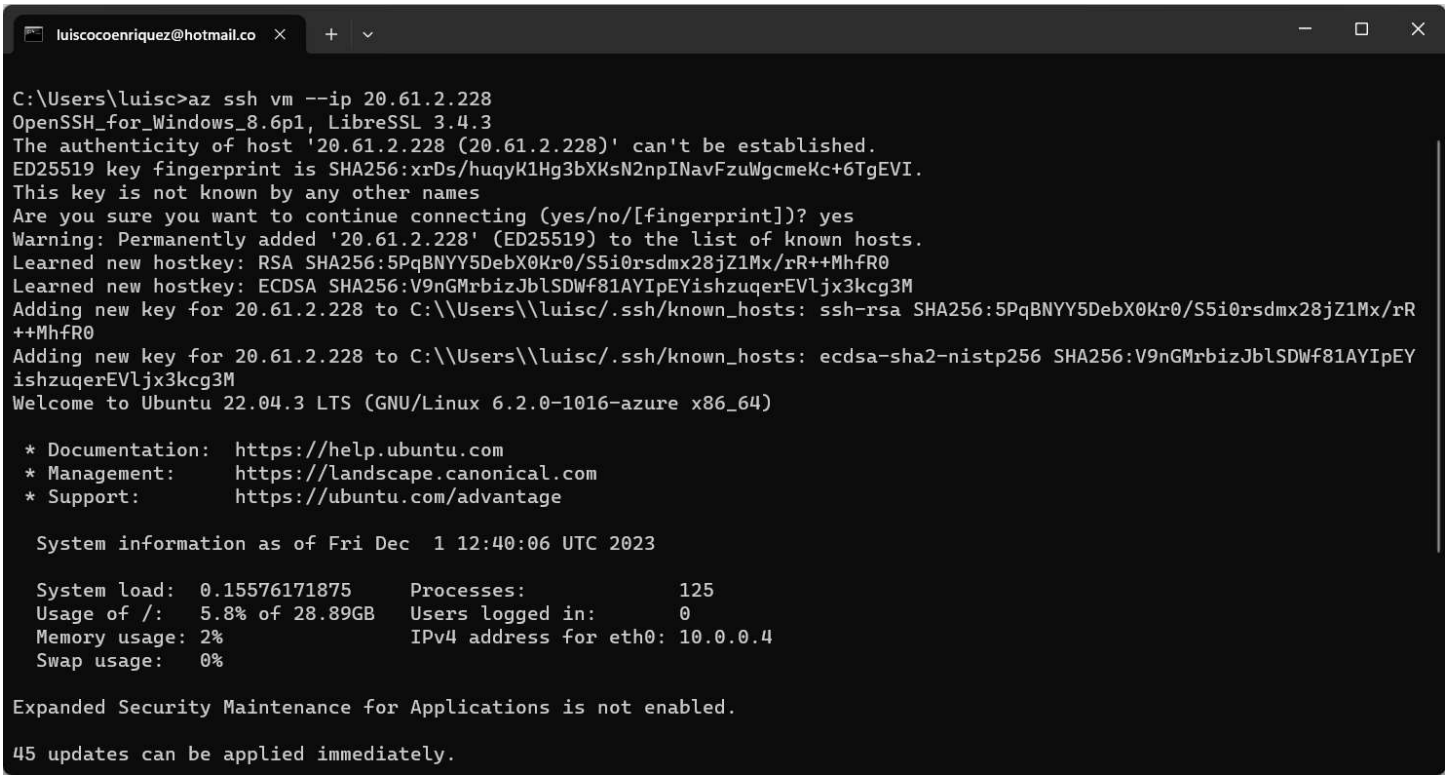
Home > CreateVm-canonical.0001-com-ubuntu-server-jammy-
mylinuxvm1999
Virtual machine
Search
Overview
Activity log
Connect
Connect
Connect vi
Connect

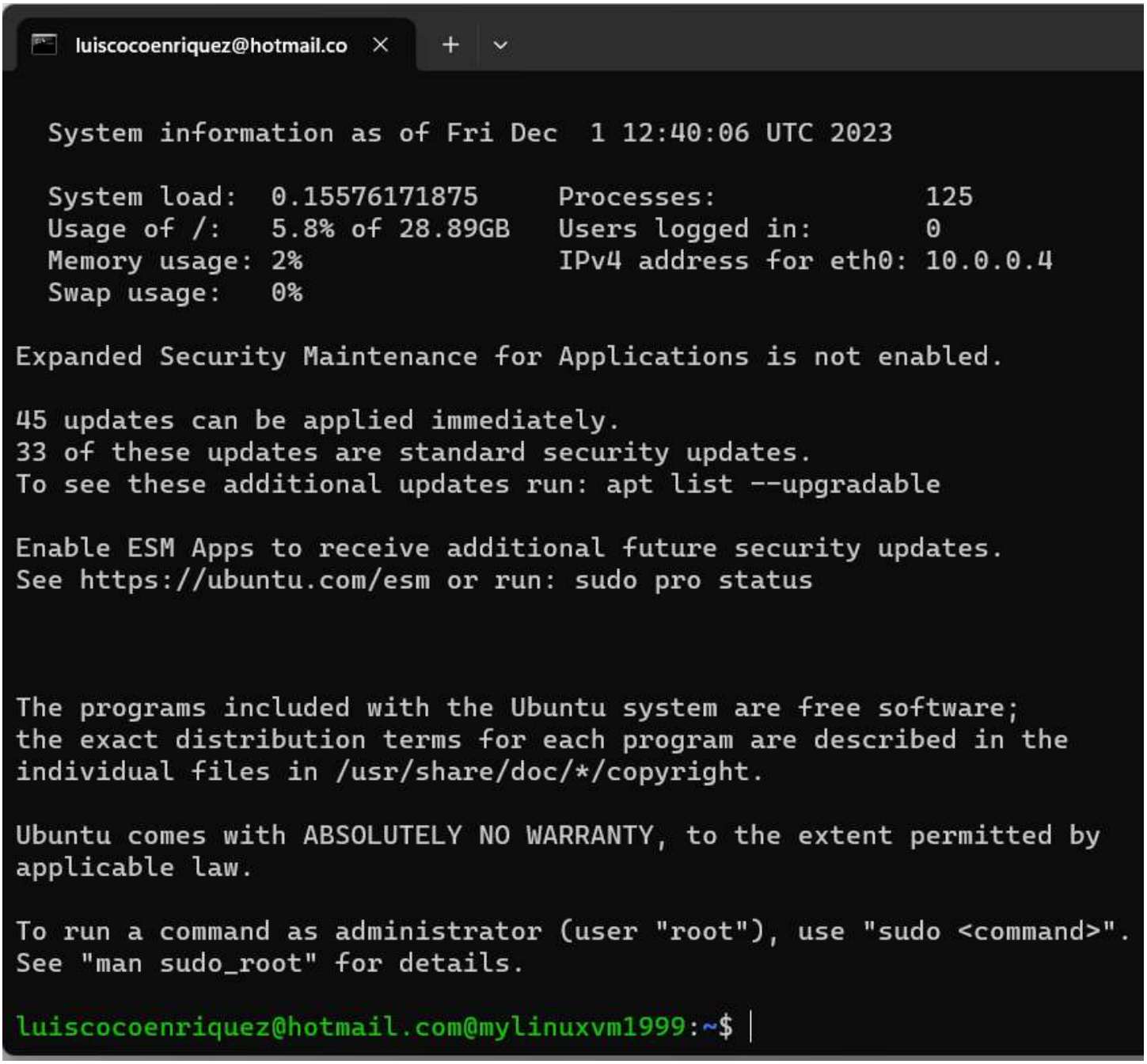


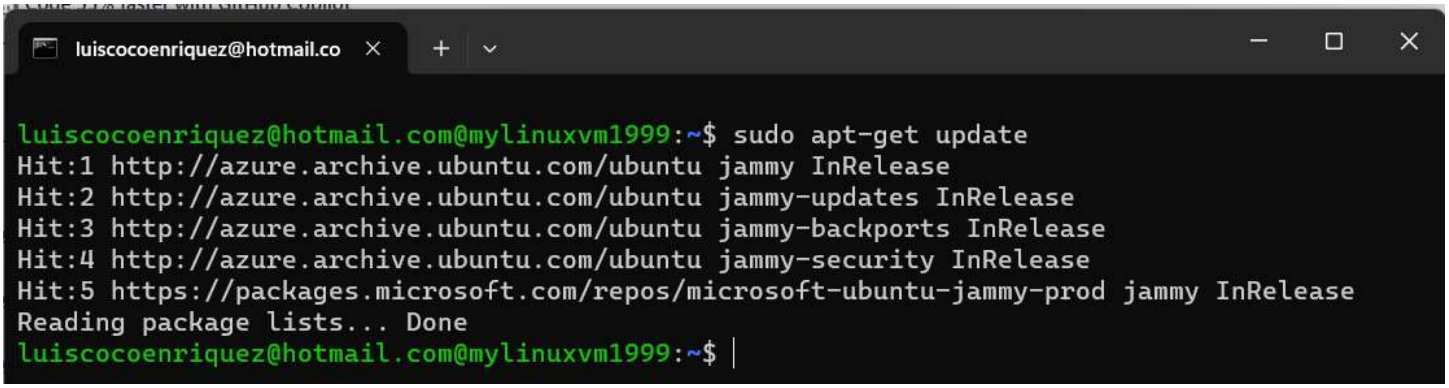
Open a **command prompt** window and type the commands to access into the Linux VM:

```
az ssh vm --ip 20.61.2.228
```




luiscocoenriquez@hotmail.co
C:\Users\luisc>az ssh vm --ip 20.61.2.228
OpenSSH_for_Windows_8.6p1, LibreSSL 3.4.3
The authenticity of host '20.61.2.228 (20.61.2.228)' can't be established.
ED25519 key fingerprint is SHA256:xrDs/huqyK1Hg3bXKsN2npINavFzuWgcmeKc+6TgEVI.
This key is not known by any other names
Are you sure you want to continue connecting (yes/no/[fingerprint])? yes
Warning: Permanently added '20.61.2.228' (ED25519) to the list of known hosts.
Learned new hostkey: RSA SHA256:5PqBNYY5DebX0Kr0/S5i0rsdmx28jZ1Mx/rR++MhfR0
Learned new hostkey: ECDSA SHA256:V9nGMrbizJblSDWf81AYIpEYishzuqerEVljx3kcg3M
Adding new key for 20.61.2.228 to C:\\Users\\luisc/.ssh/known_hosts: ssh-rsa SHA256:5PqBNYY5DebX0Kr0/S5i0rsdmx28jZ1Mx/rR++MhfR0
Adding new key for 20.61.2.228 to C:\\Users\\luisc/.ssh/known_hosts: ecdsa-sha2-nistp256 SHA256:V9nGMrbizJblSDWf81AYIpEYishzuqerEVljx3kcg3M
Welcome to Ubuntu 22.04.3 LTS (GNU/Linux 6.2.0-1016-azure x86_64)
* Documentation: https://help.ubuntu.com
* Management: https://landscape.canonical.com
* Support: https://ubuntu.com/advantage
System information as of Fri Dec 1 12:40:06 UTC 2023
System load: 0.15576171875 Processes: 125
Usage of /: 5.8% of 28.89GB Users logged in: 0
Memory usage: 2% IPv4 address for eth0: 10.0.0.4
Swap usage: 0%
Expanded Security Maintenance for Applications is not enabled.
45 updates can be applied immediately.





1.2. Run these commands to stall "xfce" using "apt":

```
sudo apt-get update
sudo DEBIAN_FRONTEND=noninteractive apt-get -y install xfce4
sudo apt install xfce4-session
```

1.3. Install and configure a remote desktop server:

```
sudo apt-get -y install xrdp
sudo systemctl enable xrdp
sudo adduser xrdp ssl-cert
echo xfce4-session >~/.xsession
sudo service xrdp restart
```

1.4. Set a local user account password

```
sudo passwd azureuser
```

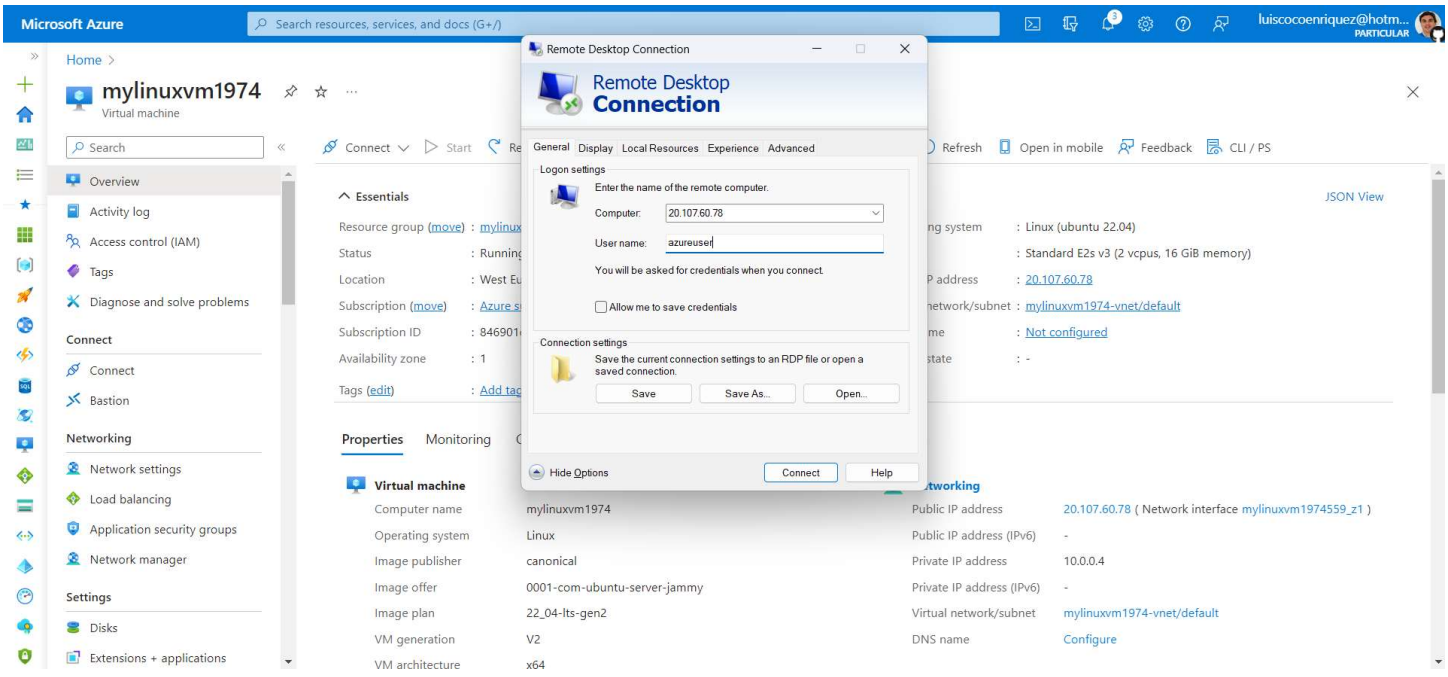
2. HOW TO CREATE A NEW INBOUND RULE FOR THE REMOTE DESKTOP CONNECTION

Now exit from the Linux VM and type the following command in your **command prompt**

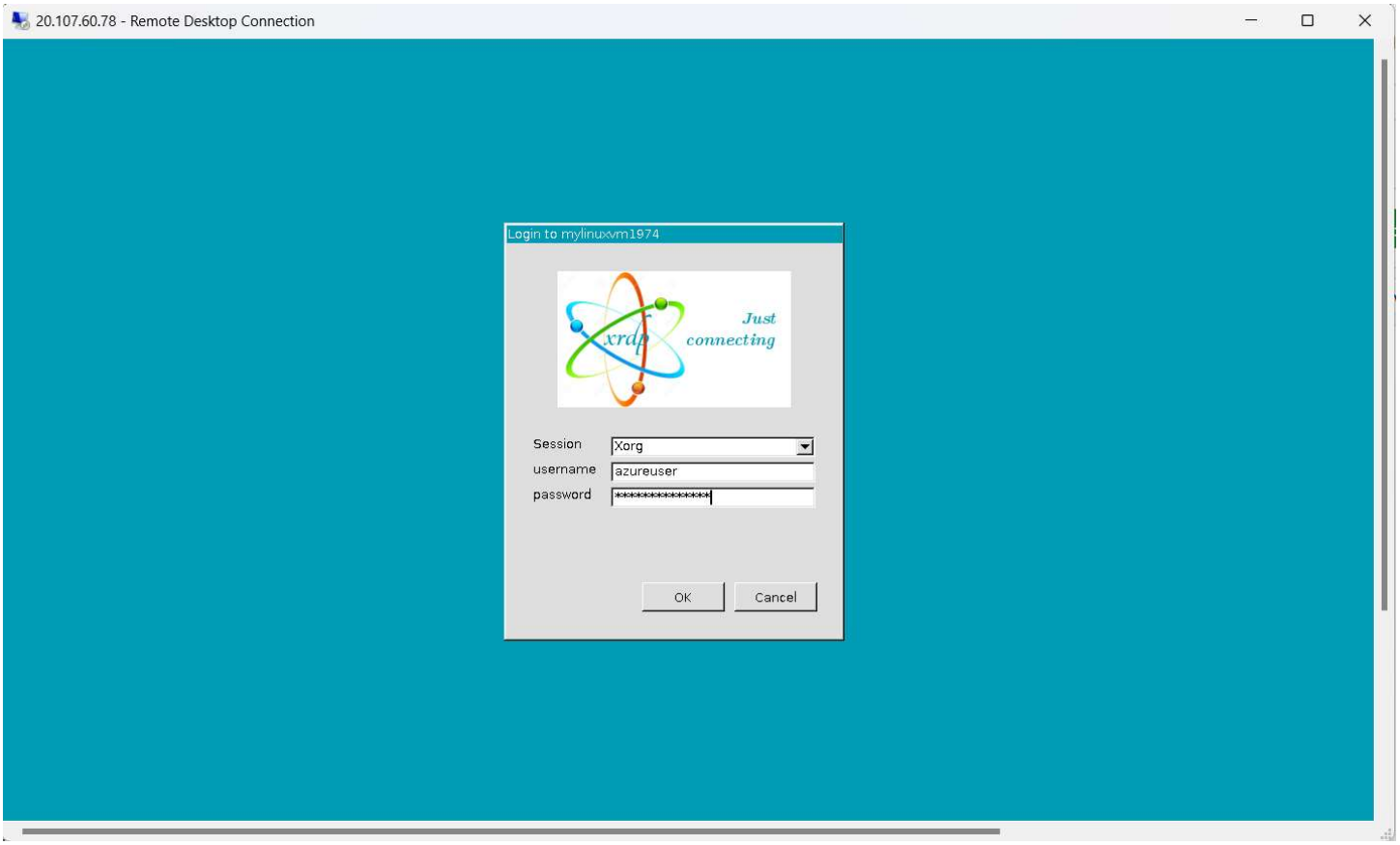
```
az vm open-port --resource-group mylinuxvm1974_group --name mylinuxvm1974 --port 3389
```

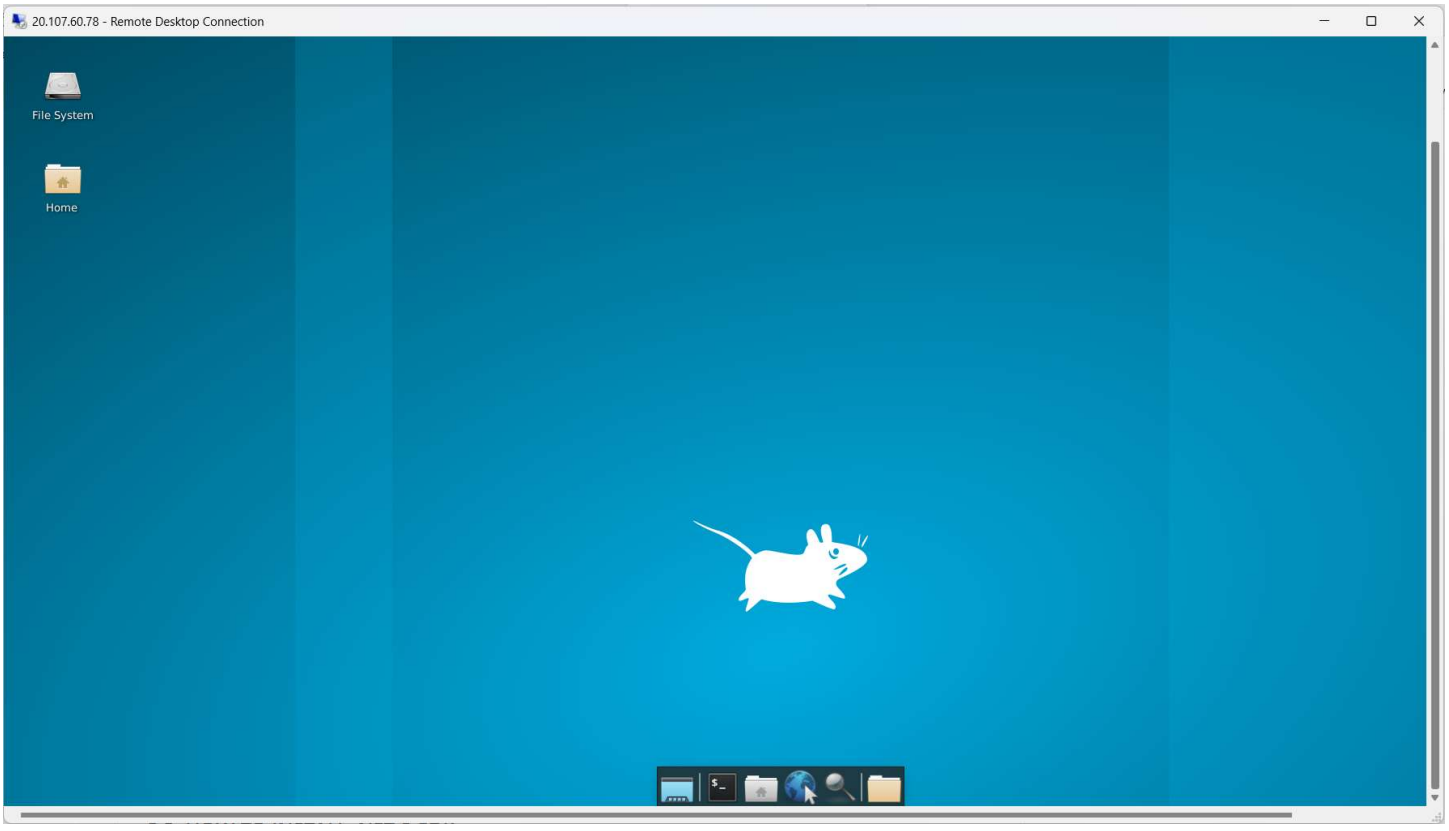
3. OPEN REMOTE DESKTOP CONNECTION

Now Open "**Remote Desktop Connection**" application and type the Azure VM Public IP address and the username "azureuser" and then press connect:



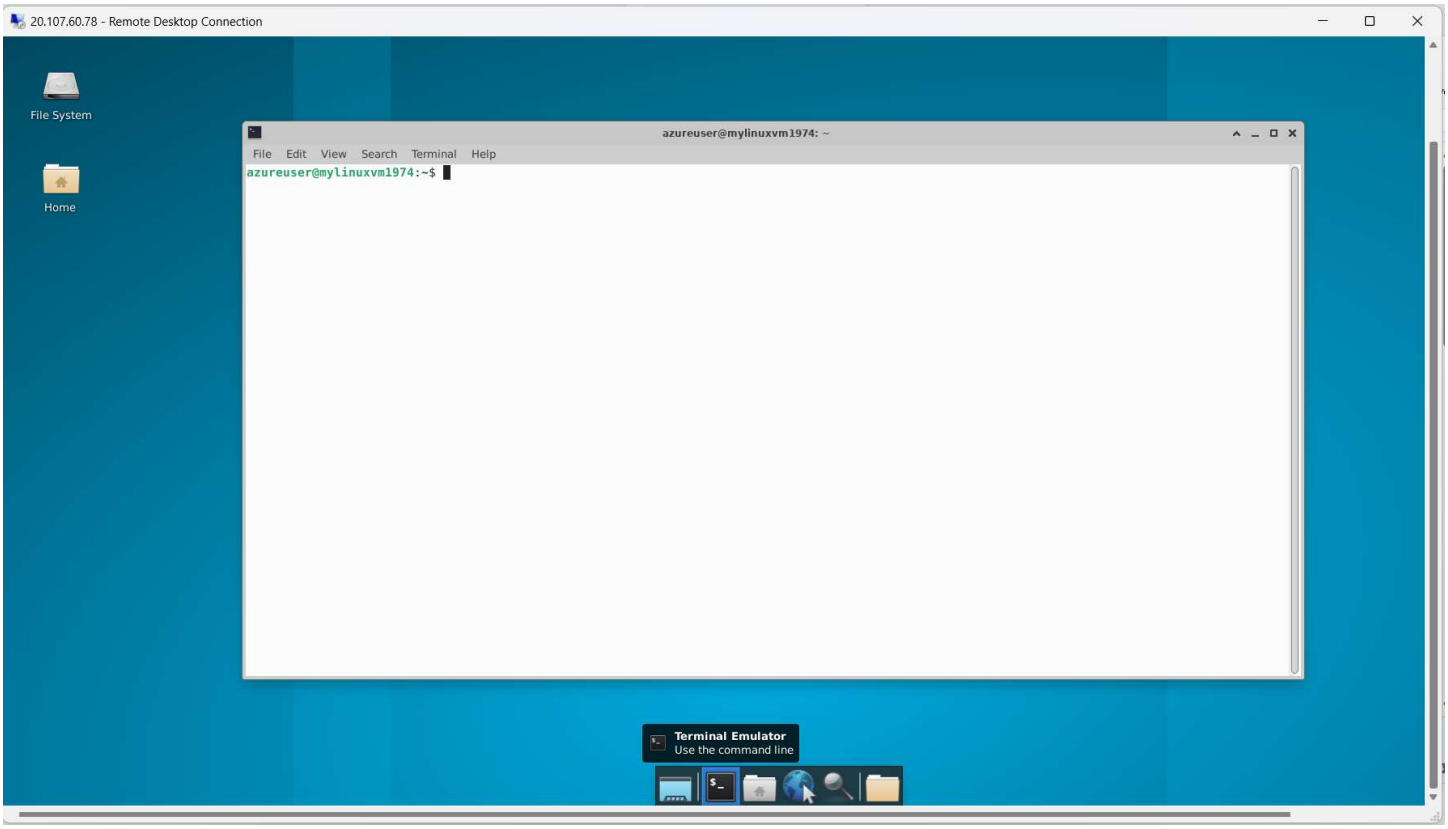
Then enter the password to access the Linux GUI Desktop





3.1. HOW TO INSTALL VSCODE

Open a Terminal Emulator window and run the following commands to install the VSCode application




```
sudo apt install software-properties-common apt-transport-https wget
wget -q https://packages.microsoft.com/keys/microsoft.asc -O- | sudo apt-key add -
sudo add-apt-repository "deb [arch=amd64] https://packages.microsoft.com/repos/vscode stable m
sudo apt update
sudo apt install code
```

3.2. HOW TO INSTALL GOOGLE CHROME

```
wget https://dl.google.com/linux/direct/google-chrome-stable_current_amd64.deb
sudo dpkg -i google-chrome-stable_current_amd64.deb
```

3.3. HOW TO INSTALL .NET 8 SDK

```
wget https://packages.microsoft.com/config/ubuntu/20.04/packages-microsoft-prod.deb -O package
sudo dpkg -i packages-microsoft-prod.deb

sudo apt update
sudo apt install -y apt-transport-https
sudo apt update
sudo apt install -y dotnet-sdk-8.0

dotnet --version
```