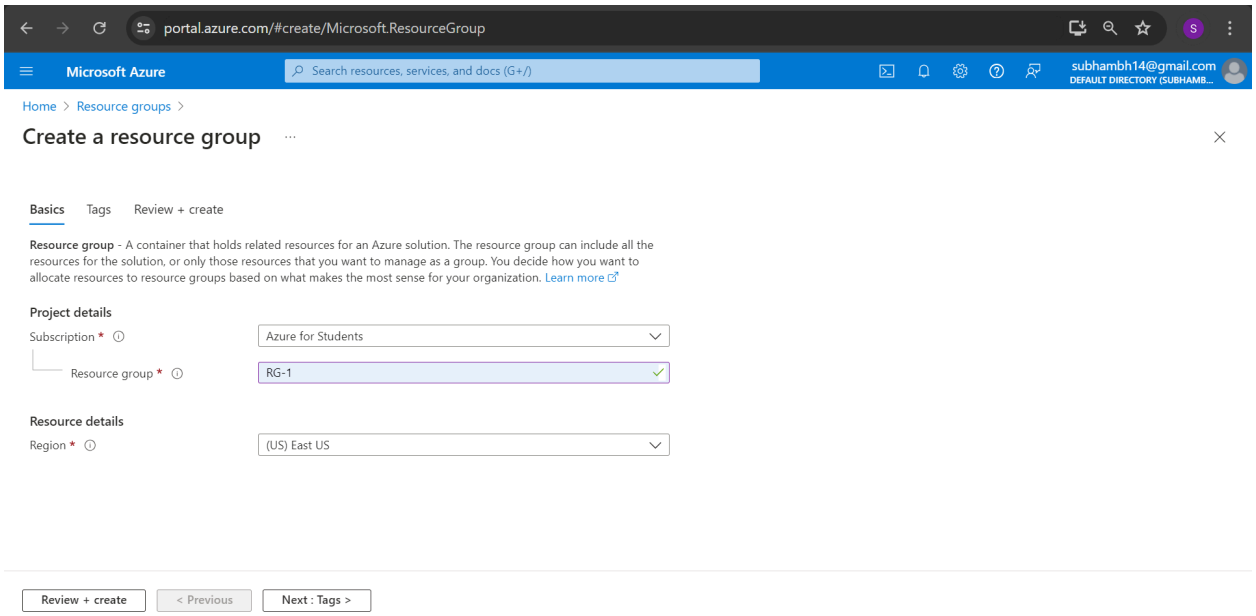
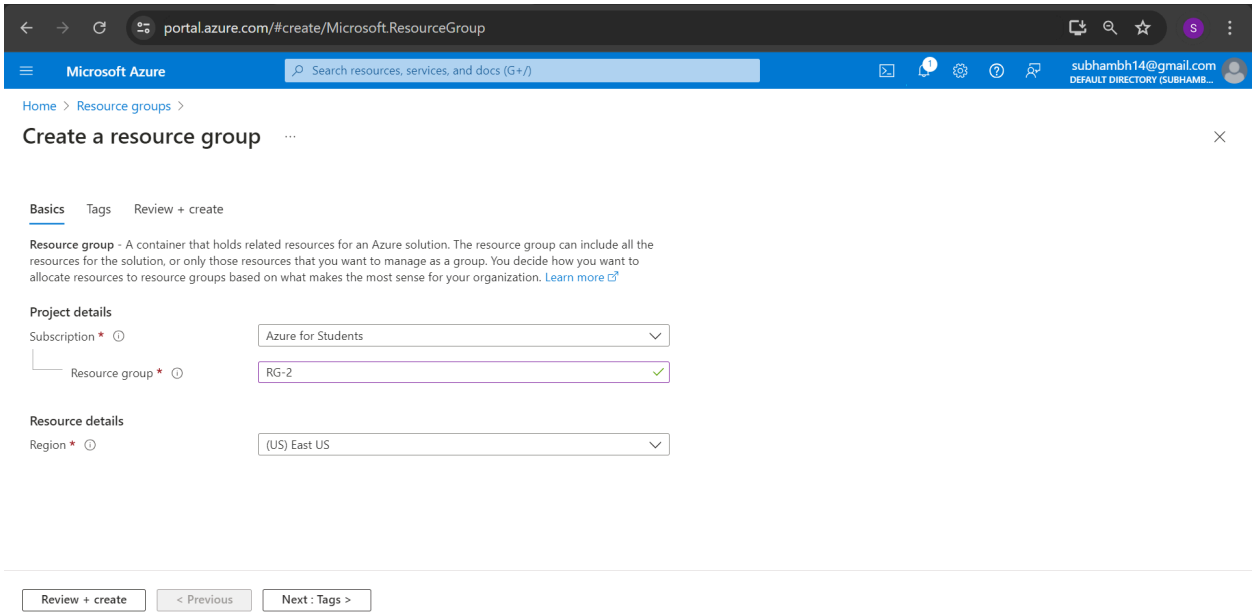
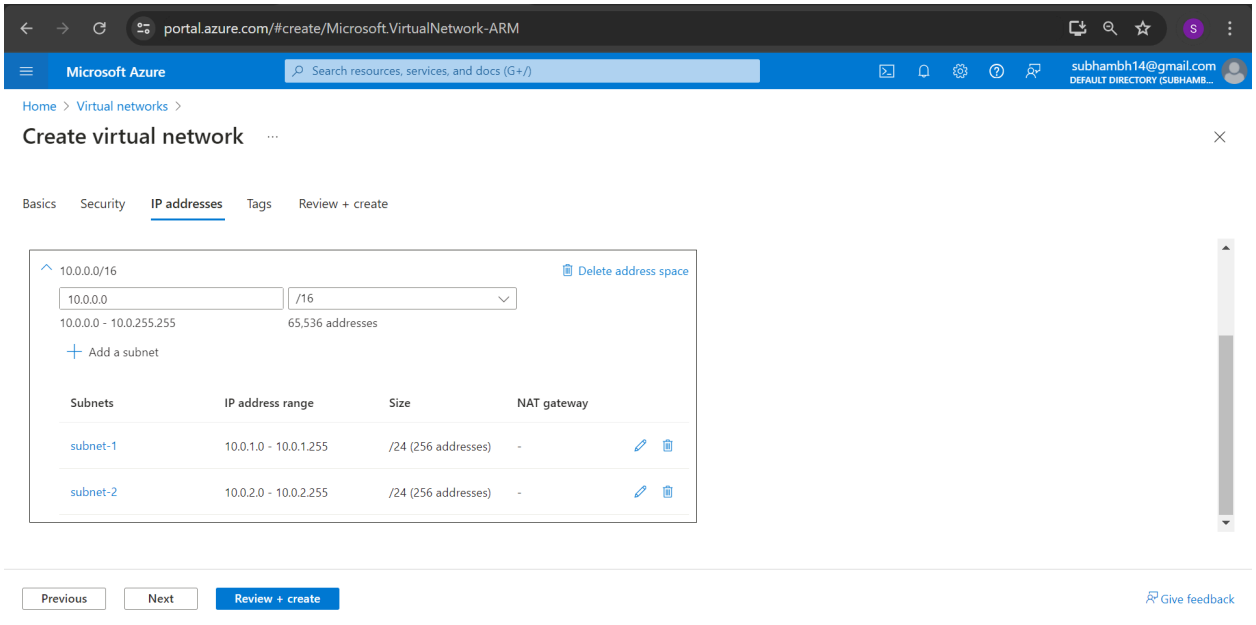
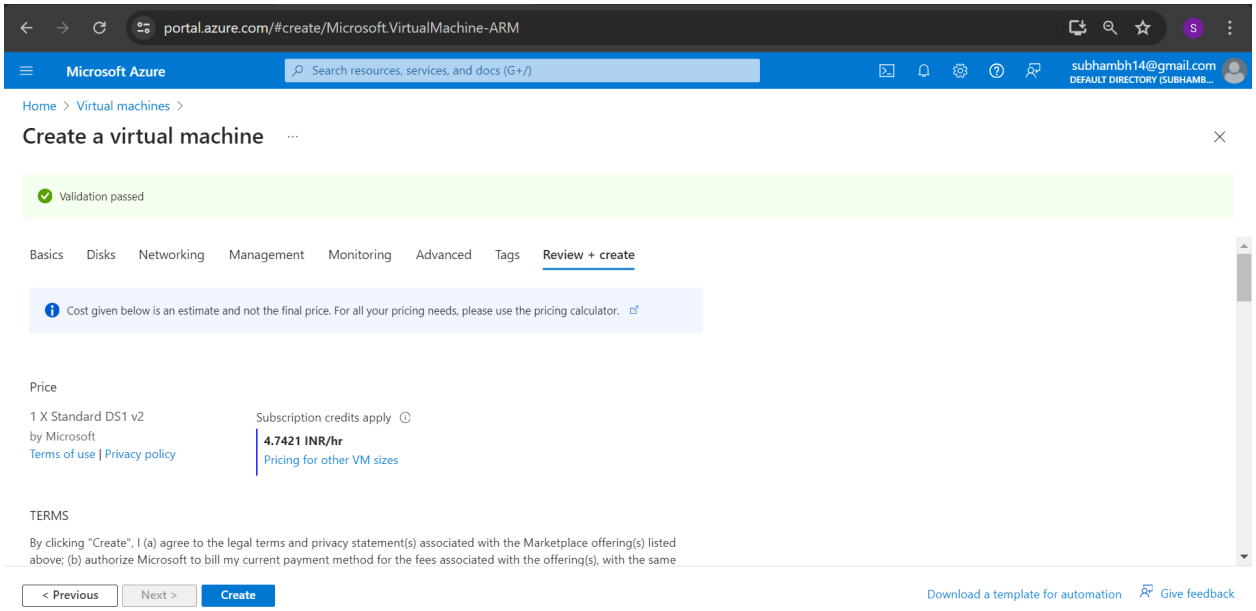
VNET Peering

We create two virtual networks with vnet1 having two subnets (1 public, 1 private) and vnet2 having one subnet. We deploy servers in each subnet and perform peering.






portal.azure.com/#create/Microsoft.VirtualNetwork-ARM
Microsoft Azure
Search resources, services, and docs (G+/)
subhambh14@gmail.com
DEFAULT DIRECTORY (SUBHAMB...
Home > Virtual networks >
Create virtual network
Basics
Security
IP addresses
Tags
Review + create
10.0.0.0/16
Delete address space
10.0.0.0
/16
10.0.0.0 - 10.0.255.255
65,536 addresses
Add a subnet
Subnets
IP address range
Size
NAT gateway
subnet-1
10.0.1.0 - 10.0.1.255
/24 (256 addresses)
-
subnet-2
10.0.2.0 - 10.0.2.255
/24 (256 addresses)
-
Previous
Next
Review + create
Give feedback


portal.azure.com/#create/Microsoft.VirtualMachine-ARM
Microsoft Azure
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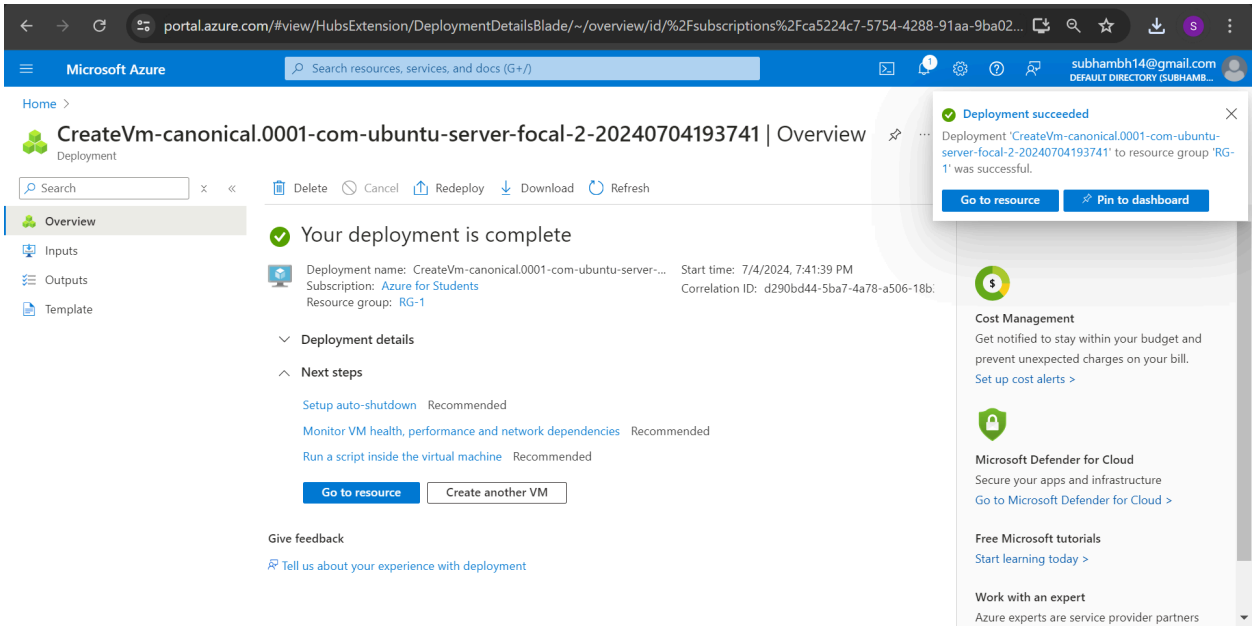
DEFAULT DIRECTORY (SUBHAMB...
Home > Virtual machines >
Create a virtual machine
Validation passed
Basics
Disks
Networking
Management
Monitoring
Advanced
Tags
Review + create
Cost given below is an estimate and not the final price. For all your pricing needs, please use the pricing calculator.
Price
1 X Standard DS1 v2
by Microsoft
Terms of use | Privacy policy
Subscription credits apply
4.7421 INR/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


portal.azure.com/#view/HubsExtension/DeploymentDetailsBlade/~/overview/id/%2Fsubscriptions%2Fca5224c7-5754-4288-91aa-9ba02...
Microsoft Azure
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DEFAULT DIRECTORY (SUBHAMB...
Home
CreateVm-canonical.0001-com-ubuntu-server-focal-2-20240704193741 | Overview
Deployment
Search
Overview
Inputs
Outputs
Template
Delete
Cancel
Redeploy
Download
Refresh
Your deployment is complete
Deployment name: CreateVm-canonical.0001-com-ubuntu-server-...
Subscription: Azure for Students
Resource group: RG-1
Start time: 7/4/2024, 7:41:39 PM
Correlation ID: d290bd44-5ba7-4a78-a506-18b...
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
Give feedback
Tell us about your experience with deployment
Deployment succeeded
Deployment 'CreateVm-canonical.0001-com-ubuntu-server-focal-2-20240704193741' to resource group 'RG-1' was successful.
Go to resource
Pin to dashboard
Cost Management
Get notified to stay within your budget and prevent unexpected charges on your bill.
Set up cost alerts >
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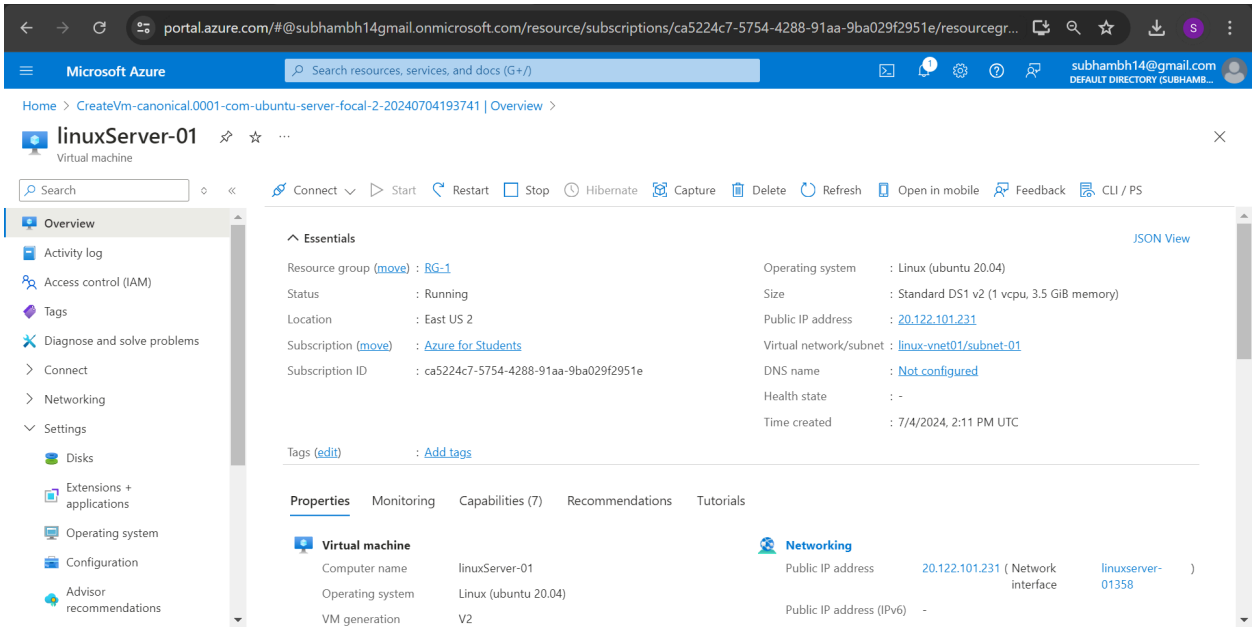
portal.azure.com/#@subhambh14gmail.onmicrosoft.com/resource/subscriptions/ca5224c7-5754-4288-91aa-9ba029f2951e/resourcegr...
Microsoft Azure
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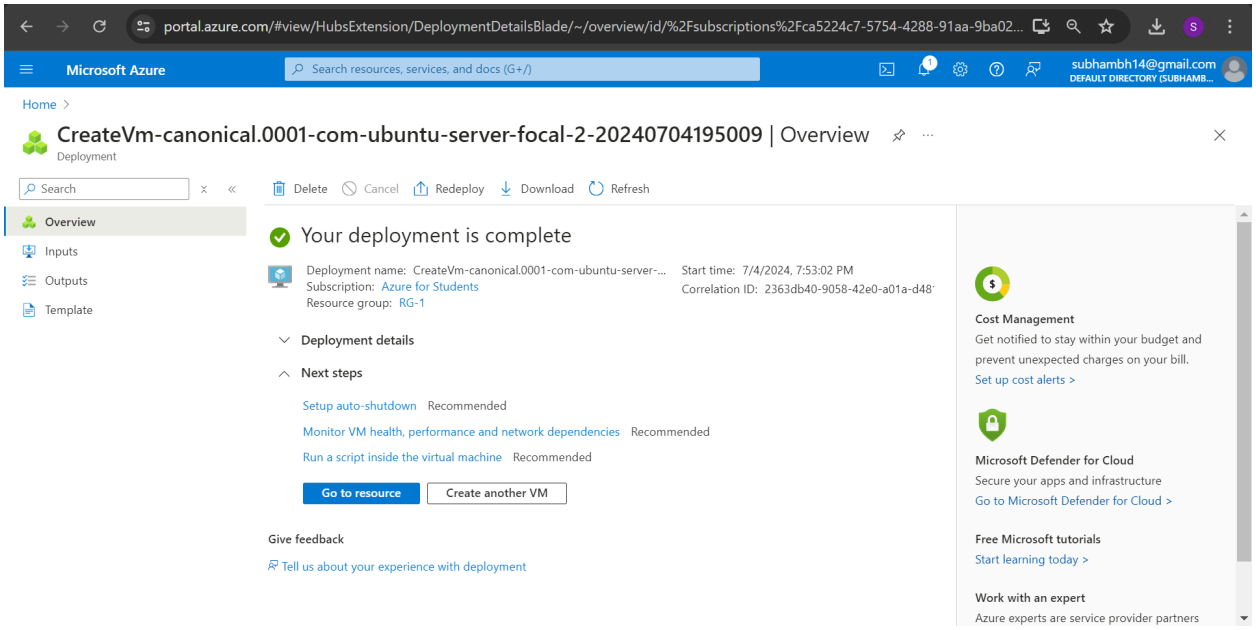
DEFAULT DIRECTORY (SUBHAMB...
Home > CreateVm-canonical.0001-com-ubuntu-server-focal-2-20240704193741 | Overview >
linuxServer-01
Virtual machine
Search
Overview
Activity log
Access control (IAM)
Tags
Diagnose and solve problems
Connect
Networking
Settings
Disks
Extensions + applications
Operating system
Configuration
Advisor recommendations
Connect
Start
Restart
Stop
Hibernate
Capture
Delete
Refresh
Open in mobile
Feedback
CLI / PS
Essentials
JSON View
Resource group (move) : RG-1
Status : Running
Location : East US 2
Subscription (move) : Azure for Students
Subscription ID : ca5224c7-5754-4288-91aa-9ba029f2951e
Operating system : Linux (ubuntu 20.04)
Size : Standard DS1 v2 (1 vcpu, 3.5 GiB memory)
Public IP address : 20.122.101.231
Virtual network/subnet : linux-vnet01/subnet-01
DNS name : Not configured
Health state : -
Time created : 7/4/2024, 2:11 PM UTC
Tags (edit) : Add tags
Properties
Monitoring
Capabilities (7)
Recommendations
Tutorials
Virtual machine
Computer name linuxServer-01
Operating system Linux (ubuntu 20.04)
VM generation V2
Networking
Public IP address 20.122.101.231 (Network interface linuxserver-01358)
Public IP address (IPv6) -


portal.azure.com/#view/HubsExtension/DeploymentDetailsBlade/~/overview/id/%2Fsubscriptions%2Fca5224c7-5754-4288-91aa-9ba02...
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DEFAULT DIRECTORY (SUBHAMB...
Home
CreateVm-canonical.0001-com-ubuntu-server-focal-2-20240704195009 | Overview
Deployment
Search
Overview
Inputs
Outputs
Template
Delete
Cancel
Redeploy
Download
Refresh
Your deployment is complete
Deployment name: CreateVm-canonical.0001-com-ubuntu-server-...
Subscription: Azure for Students
Resource group: RG-1
Start time: 7/4/2024, 7:53:02 PM
Correlation ID: 2363db40-9058-42e0-a01a-d48
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
Give feedback
Tell us about your experience with deployment
Cost Management
Get notified to stay within your budget and prevent unexpected charges on your bill.
Set up cost alerts >
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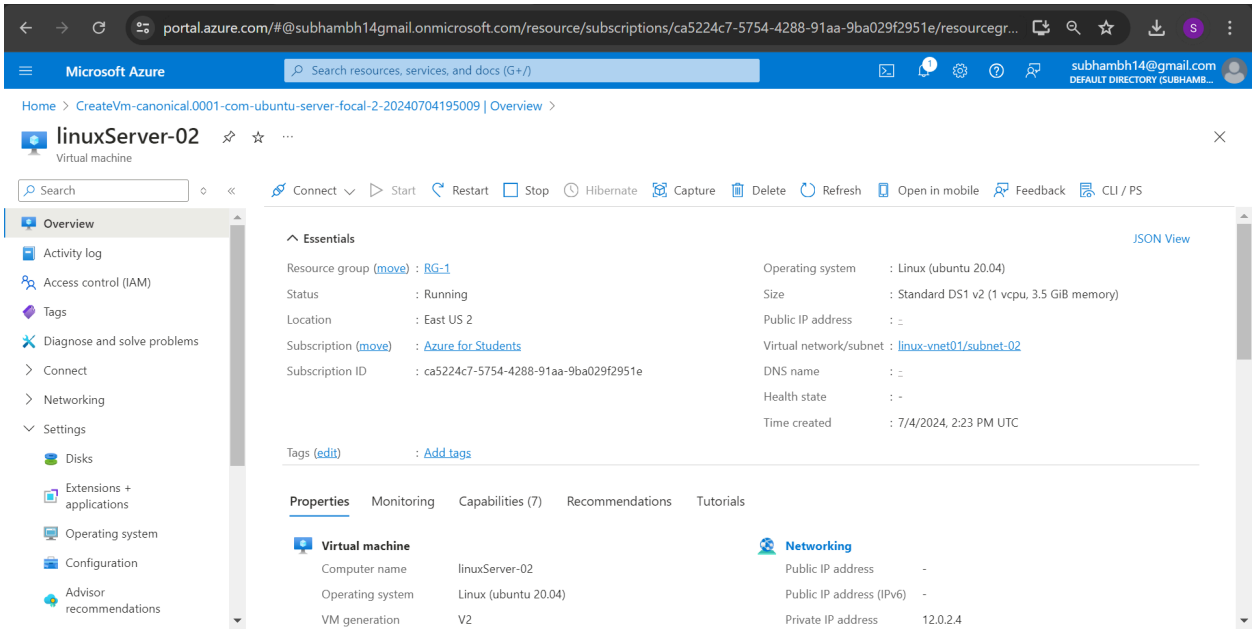
Azure experts are service provider partners


portal.azure.com/#@subhambh14gmail.onmicrosoft.com/resource/subscriptions/ca5224c7-5754-4288-91aa-9ba029f2951e/resourcegr...
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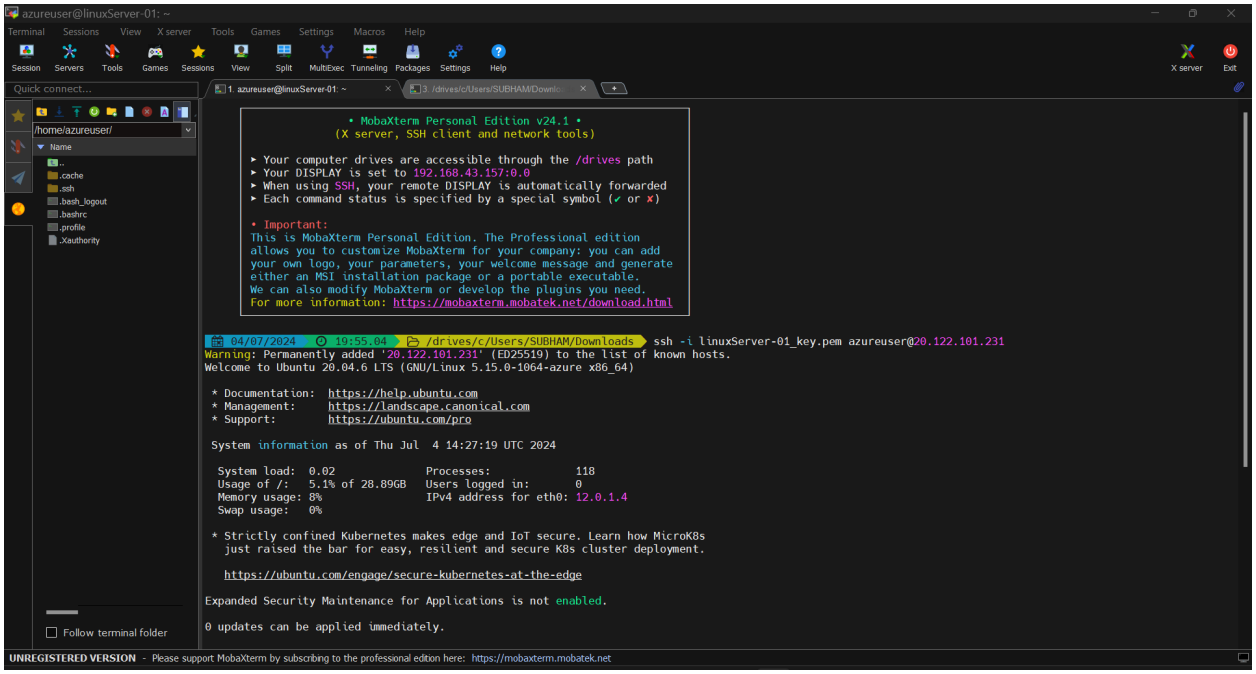
DEFAULT DIRECTORY (SUBHAMB...
Home
CreateVm-canonical.0001-com-ubuntu-server-focal-2-20240704195009 | Overview
linuxServer-02
Virtual machine
Search
Overview
Activity log
Access control (IAM)
Tags
Diagnose and solve problems
Connect
Networking
Settings
Disks
Extensions + applications
Operating system
Configuration
Advisor recommendations
Connect
Start
Restart
Stop
Hibernate
Capture
Delete
Refresh
Open in mobile
Feedback
CLI / PS
Essentials
JSON View
Resource group (move) : RG-1
Status : Running
Location : East US 2
Subscription (move) : Azure for Students
Subscription ID : ca5224c7-5754-4288-91aa-9ba029f2951e
Operating system : Linux (ubuntu 20.04)
Size : Standard DS1 v2 (1 vcpu, 3.5 GiB memory)
Public IP address : -
Virtual network/subnet : linux-vnet01/subnet-02
DNS name : -
Health state : -
Time created : 7/4/2024, 2:23 PM UTC
Tags (edit) : Add tags
Properties
Monitoring
Capabilities (7)
Recommendations
Tutorials
Virtual machine
Computer name linuxServer-02
Operating system Linux (ubuntu 20.04)
VM generation V2
Networking
Public IP address -
Public IP address (IPv6) -
Private IP address 12.0.2.4


azureuser@linuxServer-01: ~
Terminal Sessions View X server Tools Games Settings Macros Help
Session Servers Tools Games Sessions View Split MultiExec Tunneling Packages Settings Help
X server Exit
Quick connect...
1. azureuser@linuxServer-01: ~
3. /drives/c/Users/SUBHAM/Downlc
/home/azureuser/
Name
.cache
.ssh
.bash_logout
.bashrc
.profile
.Xauthority
Follow terminal folder
• MobaXterm Personal Edition v24.1 •
(X server, SSH client and network tools)
▸ Your computer drives are accessible through the /drives path
▸ Your DISPLAY is set to 192.168.43.157:0.0
▸ When using SSH, your remote DISPLAY is automatically forwarded
▸ Each command status is specified by a special symbol (✓ or ✗)
• Important:
This is MobaXterm Personal Edition. The Professional edition
allows you to customize MobaXterm for your company: you can add
your own logo, your parameters, your welcome message and generate
either an MSI installation package or a portable executable.
We can also modify MobaXterm or develop the plugins you need.
For more information: https://mobaxterm.mobatek.net/download.html
04/07/2024 19:55.04 /drives/c/Users/SUBHAM/Downloads ssh -i linuxServer-01_key.pem azureuser@20.122.101.231
Warning: Permanently added '20.122.101.231' (ED25519) to the list of known hosts.
Welcome to Ubuntu 20.04.6 LTS (GNU/Linux 5.15.0-1064-azure x86_64)
* Documentation: https://help.ubuntu.com
* Management: https://landscape.canonical.com
* Support: https://ubuntu.com/pro
System information as of Thu Jul 4 14:27:19 UTC 2024
System load: 0.02 Processes: 118
Usage of /: 5.1% of 28.89GB Users logged in: 0
Memory usage: 8% IPv4 address for eth0: 12.0.1.4
Swap usage: 0%
* Strictly confined Kubernetes makes edge and IoT secure. Learn how MicroK8s
just raised the bar for easy, resilient and secure K8s cluster deployment.
https://ubuntu.com/engage/secure-kubernetes-at-the-edge
Expanded Security Maintenance for Applications is not enabled.
0 updates can be applied immediately.
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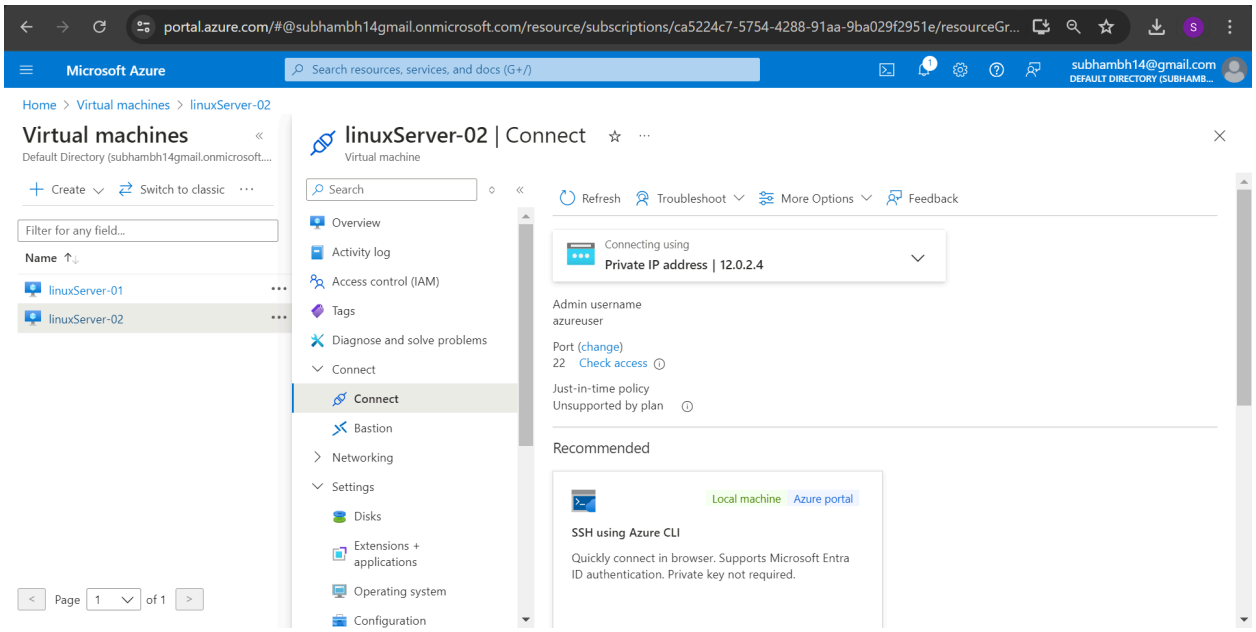
portal.azure.com/#@subhambh14gmail.onmicrosoft.com/resource/subscriptions/ca5224c7-5754-4288-91aa-9ba029f2951e/resourceGr...
Microsoft Azure
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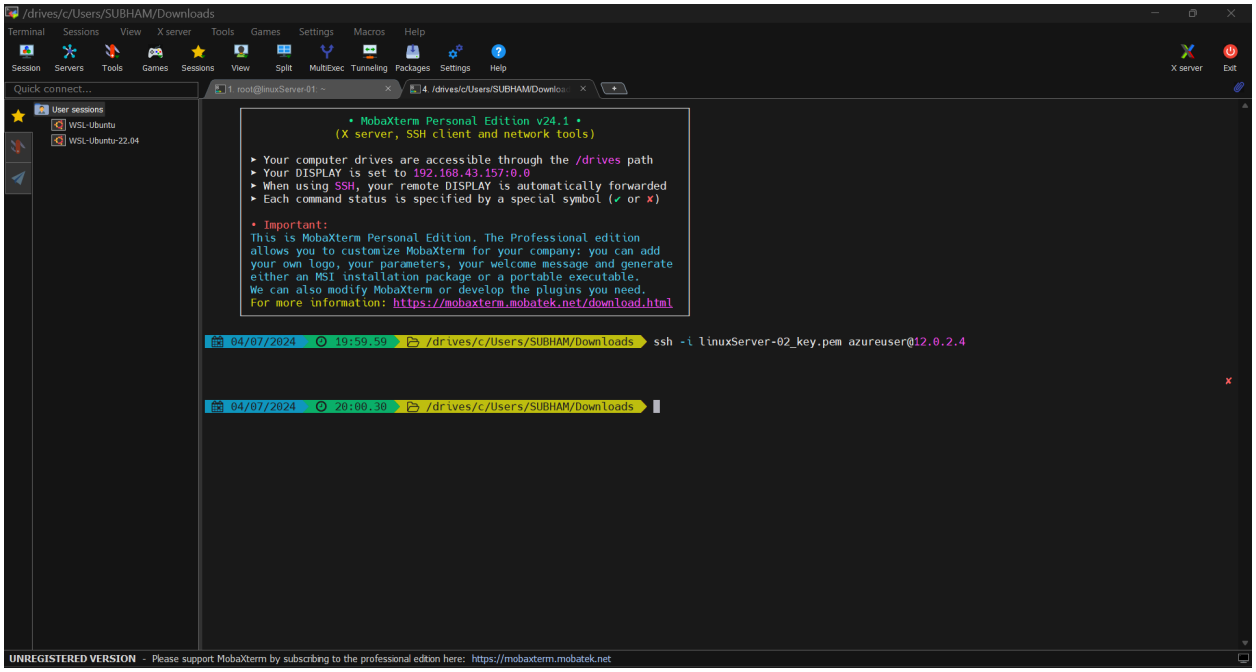
DEFAULT DIRECTORY (SUBHAMB...
Home > Virtual machines > linuxServer-02
Virtual machines
Default Directory (subhambh14gmail.onmicrosoft....
Create Switch to classic
Filter for any field...
Name
linuxServer-01
linuxServer-02
Page 1 of 1
linuxServer-02 | Connect
Virtual machine
Search
Overview
Activity log
Access control (IAM)
Tags
Diagnose and solve problems
Connect
Connect
Bastion
Networking
Settings
Disks
Extensions + applications
Operating system
Configuration
Refresh Troubleshoot More Options Feedback
Connecting using
Private IP address | 12.0.2.4
Admin username
azureuser
Port (change)
22 Check access
Just-in-time policy
Unsupported by plan
Recommended
Local machine Azure portal
SSH using Azure CLI
Quickly connect in browser. Supports Microsoft Entra ID authentication. Private key not required.


/drives/c/Users/SUBHAM/Downloads
Terminal Sessions View X server Tools Games Settings Macros Help
Session Servers Tools Games Sessions View Split MultiExec Tunneling Packages Settings Help
X server Exit
Quick connect...
1. root@linuxServer-01: ~
4. /drives/c/Users/SUBHAM/Downloa
User sessions
WSL-Ubuntu
WSL-Ubuntu-22.04
• MobaXterm Personal Edition v24.1 •
(X server, SSH client and network tools)
▸ Your computer drives are accessible through the /drives path
▸ Your DISPLAY is set to 192.168.43.157:0.0
▸ When using SSH, your remote DISPLAY is automatically forwarded
▸ Each command status is specified by a special symbol (✓ or ✗)
• Important:
This is MobaXterm Personal Edition. The Professional edition
allows you to customize MobaXterm for your company: you can add
your own logo, your parameters, your welcome message and generate
either an MSI installation package or a portable executable.
We can also modify MobaXterm or develop the plugins you need.
For more information: https://mobaxterm.mobatek.net/download.html
04/07/2024 19:59.59 /drives/c/Users/SUBHAM/Downloads ssh -i linuxServer-02_key.pem azureuser@12.0.2.4
04/07/2024 20:00.30 /drives/c/Users/SUBHAM/Downloads
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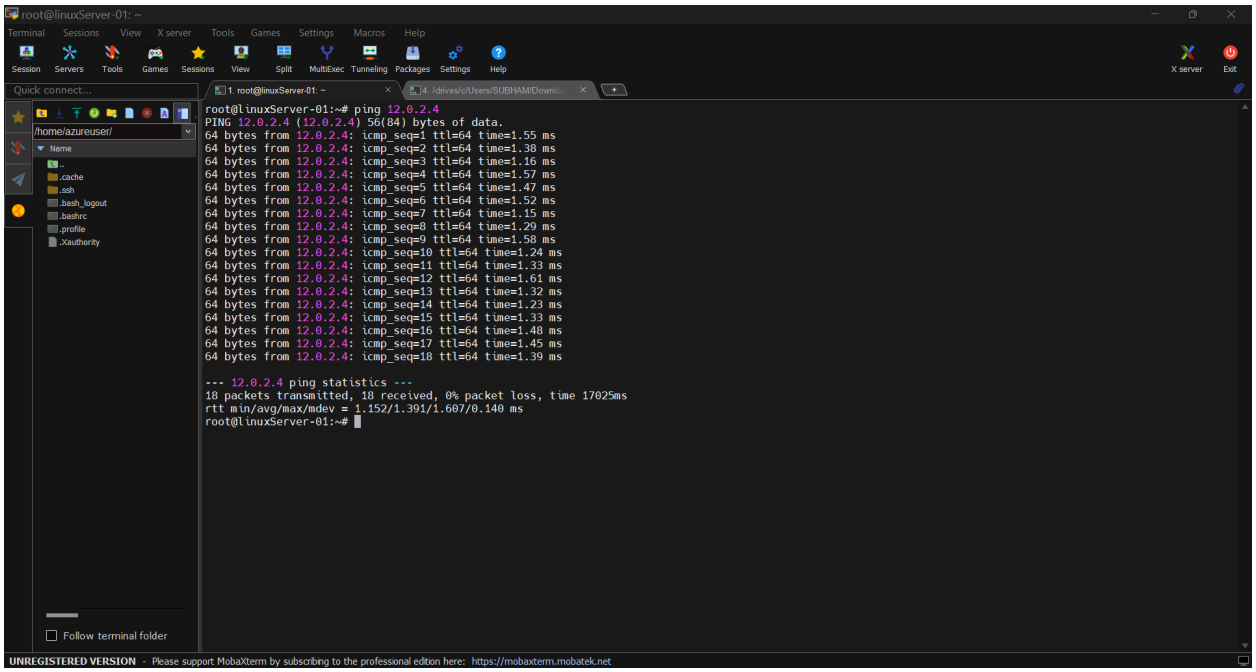
root@linuxServer-01: ~
Terminal Sessions View X server Tools Games Settings Macros Help
Session Servers Tools Games Sessions View Split MultiExec Tunneling Packages Settings Help
X server Exit
Quick connect...
1. root@linuxServer-01: ~
4. /drives/c/Users/SUBHAM/Downlo
/home/azureuser/
Name
..
.cache
.ssh
.bash_logout
.bashrc
.profile
.Xauthority
Follow terminal folder
root@linuxServer-01:~# ping 12.0.2.4
PING 12.0.2.4 (12.0.2.4) 56(84) bytes of data.
64 bytes from 12.0.2.4: icmp_seq=1 ttl=64 time=1.55 ms
64 bytes from 12.0.2.4: icmp_seq=2 ttl=64 time=1.38 ms
64 bytes from 12.0.2.4: icmp_seq=3 ttl=64 time=1.16 ms
64 bytes from 12.0.2.4: icmp_seq=4 ttl=64 time=1.57 ms
64 bytes from 12.0.2.4: icmp_seq=5 ttl=64 time=1.47 ms
64 bytes from 12.0.2.4: icmp_seq=6 ttl=64 time=1.52 ms
64 bytes from 12.0.2.4: icmp_seq=7 ttl=64 time=1.15 ms
64 bytes from 12.0.2.4: icmp_seq=8 ttl=64 time=1.29 ms
64 bytes from 12.0.2.4: icmp_seq=9 ttl=64 time=1.58 ms
64 bytes from 12.0.2.4: icmp_seq=10 ttl=64 time=1.24 ms
64 bytes from 12.0.2.4: icmp_seq=11 ttl=64 time=1.33 ms
64 bytes from 12.0.2.4: icmp_seq=12 ttl=64 time=1.61 ms
64 bytes from 12.0.2.4: icmp_seq=13 ttl=64 time=1.32 ms
64 bytes from 12.0.2.4: icmp_seq=14 ttl=64 time=1.23 ms
64 bytes from 12.0.2.4: icmp_seq=15 ttl=64 time=1.33 ms
64 bytes from 12.0.2.4: icmp_seq=16 ttl=64 time=1.48 ms
64 bytes from 12.0.2.4: icmp_seq=17 ttl=64 time=1.45 ms
64 bytes from 12.0.2.4: icmp_seq=18 ttl=64 time=1.39 ms
--- 12.0.2.4 ping statistics ---
18 packets transmitted, 18 received, 0% packet loss, time 17025ms
rtt min/avg/max/mdev = 1.152/1.391/1.607/0.140 ms
root@linuxServer-01:~#
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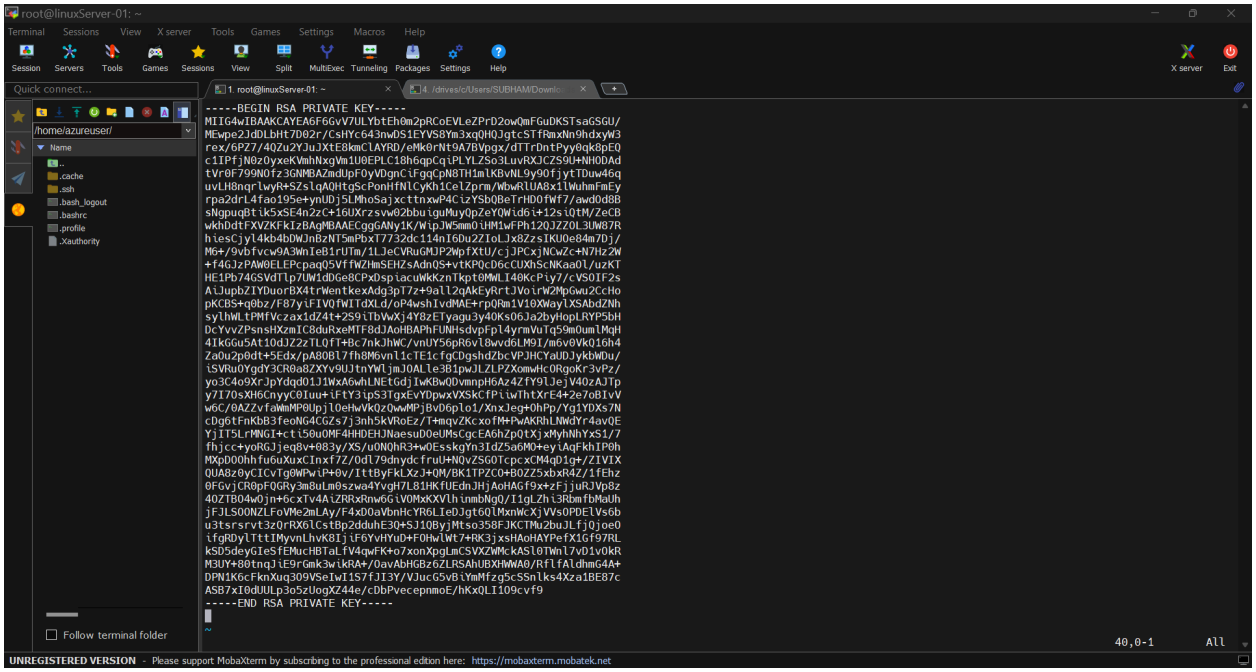
root@linuxServer-01: ~
Terminal Sessions View X server Tools Games Settings Macros Help
Session Servers Tools Games Sessions View Split MultiExec Tunneling Packages Settings Help X server Exit
Quick connect...
1. root@linuxServer-01: ~
4. /drives/c/Users/SUBHAM/Downlc
/home/azureuser/
Name
..
.cache
.ssh
.bash_logout
.bashrc
.profile
.Xauthority
Follow terminal folder
-----BEGIN RSA PRIVATE KEY-----
MIIG4wIBAAKCAYEA6F6GvV7ULYbtEh0m2pRCoEVLeZPrD2owQmFGuDKSTsaGSGU/
MEwpe2JdDLbHt7D02r/CsHYc643nwDS1EYVS8Ym3xqQHQJgtcSTfRmxNn9hdxyW3
rex/6PZ7/4QZu2YJuJXtE8kmClAYRD/eMk0rNt9A7BVpgx/dTTrDntPyy0qk8pEQ
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jFJLSOONZLFoVMe2mLAy/F4xDOaVbnHcYR6LIeDJgt6QlMxnWcXjVVsOPDElVs6b
u3tsrsrvt3zQrRX6lCstBp2dduhE3O+SJ1OByjMtso358FJKCTMu2buJLfjQjoeO
ifgRDylTttIMyvnLhvK8IjiF6YvHYuD+FOHwlWt7+RK3jxsHAoHAYPefX1Gf97RL
kSD5deyGIeSfEMucHBTaLfV4qwFK+o7xonXpgLmCSVXZWMckASl0TWnl7vD1vOkR
M3UY+80tnqJiE9rGmK3wikRA+/OavAbHGBz6ZLRSAhUBXHWWA0/RflfAldhmG4A+
DPNlK6cFknXuq3O9VSeIwl1S7fJI3Y/VJucG5vBiYaMfzg5c5Snlks4Xza1BE87c
ASB7xI0dUULp3o5zUogXZ44e/cDbPvecepnmoE/hKxQLI1O9cvf9
-----END RSA PRIVATE KEY-----
~
40,0-1 All
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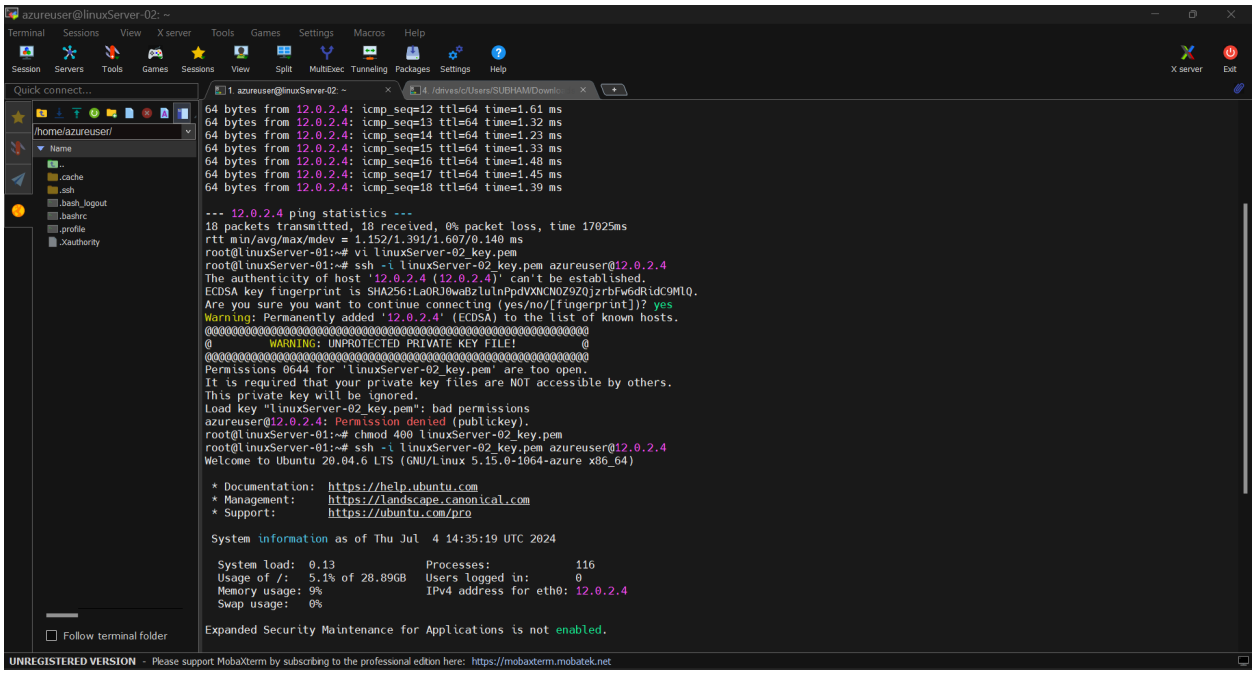
azureuser@linuxServer-02: ~
Terminal Sessions View X server Tools Games Settings Macros Help
Session Servers Tools Games Sessions View Split MultiExec Tunneling Packages Settings Help X server Exit
Quick connect...
1. azureuser@linuxServer-02: ~
4. /drives/c/Users/SUBHAM/Downlc
/home/azureuser/
Name
..
.cache
.ssh
.bash_logout
.bashrc
.profile
.Xauthority
Follow terminal folder
64 bytes from 12.0.2.4: icmp_seq=12 ttl=64 time=1.61 ms
64 bytes from 12.0.2.4: icmp_seq=13 ttl=64 time=1.32 ms
64 bytes from 12.0.2.4: icmp_seq=14 ttl=64 time=1.23 ms
64 bytes from 12.0.2.4: icmp_seq=15 ttl=64 time=1.33 ms
64 bytes from 12.0.2.4: icmp_seq=16 ttl=64 time=1.48 ms
64 bytes from 12.0.2.4: icmp_seq=17 ttl=64 time=1.45 ms
64 bytes from 12.0.2.4: icmp_seq=18 ttl=64 time=1.39 ms
--- 12.0.2.4 ping statistics ---
18 packets transmitted, 18 received, 0% packet loss, time 17025ms
rtt min/avg/max/mdev = 1.152/1.391/1.607/0.140 ms
root@linuxServer-01:~# vi linuxServer-02_key.pem
root@linuxServer-01:~# ssh -i linuxServer-02_key.pem azureuser@12.0.2.4
The authenticity of host '12.0.2.4 (12.0.2.4)' can't be established.
ECDSA key fingerprint is SHA256:LaORJ0waBzlulnPpdVXNCNOZ9ZQjzrbfw6dRidC9MlQ.
Are you sure you want to continue connecting (yes/no/[fingerprint])? yes
Warning: Permanently added '12.0.2.4' (ECDSA) to the list of known hosts.
@@@
@ WARNING: UNPROTECTED PRIVATE KEY FILE! @
@@@
Permissions 0644 for 'linuxServer-02_key.pem' are too open.
It is required that your private key files are NOT accessible by others.
This private key will be ignored.
Load key "linuxServer-02_key.pem": bad permissions
azureuser@12.0.2.4: Permission denied (publickey).
root@linuxServer-01:~# chmod 400 linuxServer-02_key.pem
root@linuxServer-01:~# ssh -i linuxServer-02_key.pem azureuser@12.0.2.4
Welcome to Ubuntu 20.04.6 LTS (GNU/Linux 5.15.0-1064-azure x86_64)
* Documentation: https://help.ubuntu.com
* Management: https://landscape.canonical.com
* Support: https://ubuntu.com/pro
System information as of Thu Jul 4 14:35:19 UTC 2024
System load: 0.13 Processes: 116
Usage of /: 5.1% of 28.89GB Users logged in: 0
Memory usage: 9% IPv4 address for eth0: 12.0.2.4
Swap usage: 0%
Expanded Security Maintenance for Applications is not enabled.
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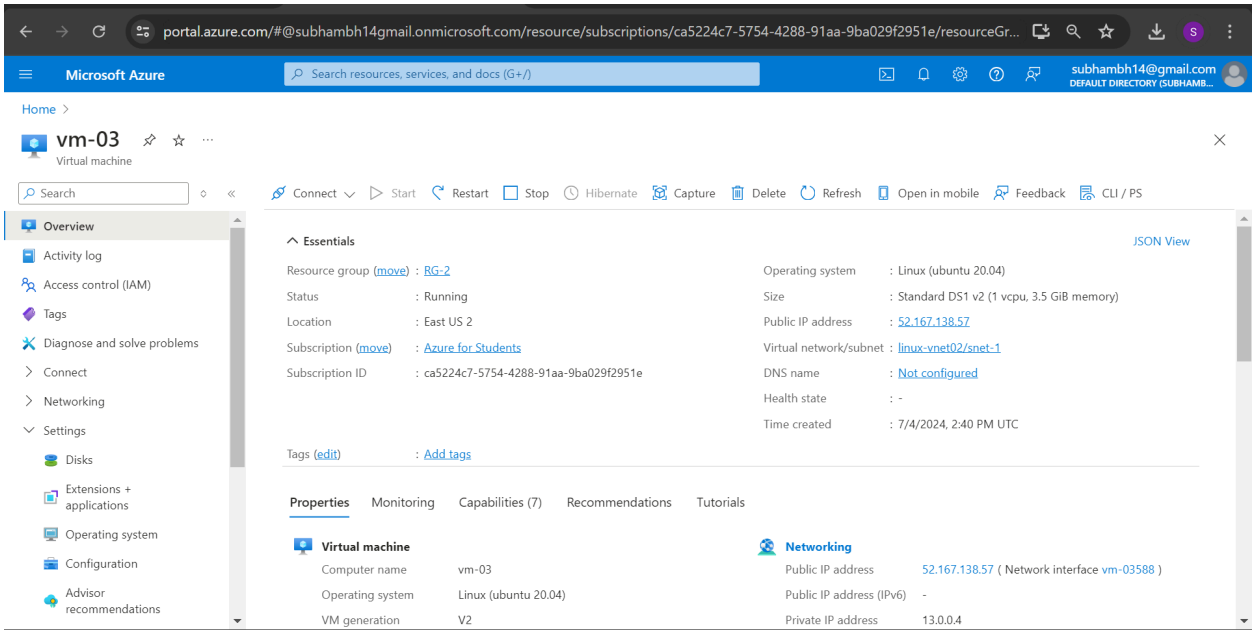
portal.azure.com/#@subhambh14gmail.onmicrosoft.com/resource/subscriptions/ca5224c7-5754-4288-91aa-9ba029f2951e/resourceGr...
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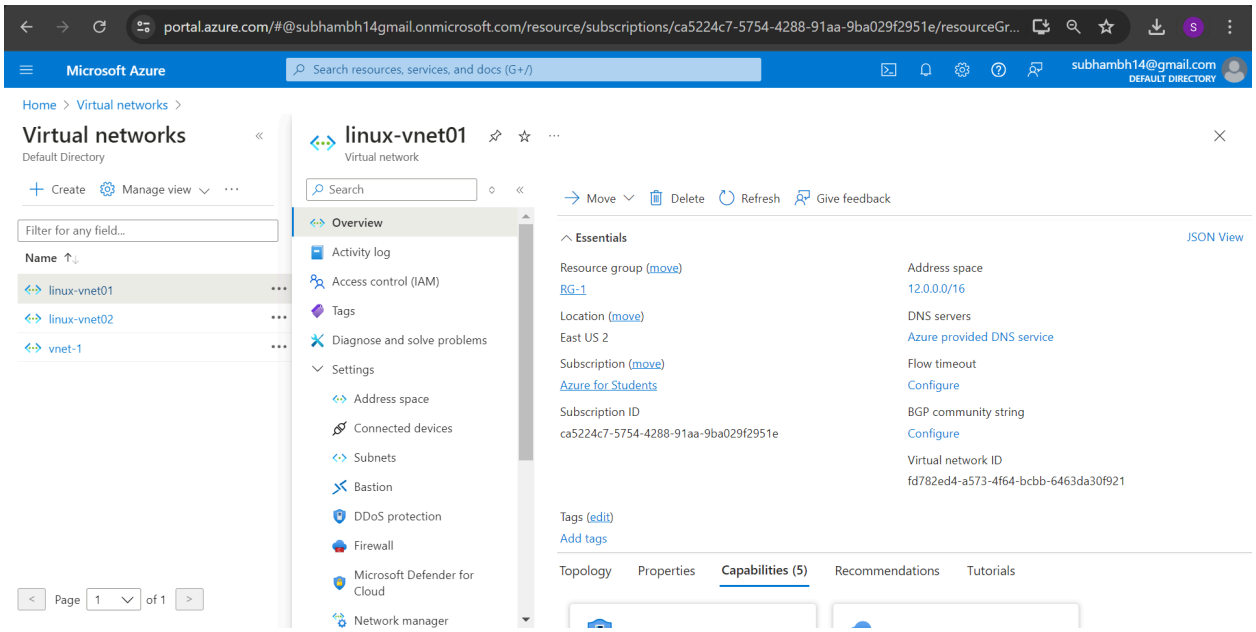
DEFAULT DIRECTORY (SUBHAMB...
Home
vm-03
Virtual machine
Search
Connect
Start
Restart
Stop
Hibernate
Capture
Delete
Refresh
Open in mobile
Feedback
CLI / PS
Overview
Activity log
Access control (IAM)
Tags
Diagnose and solve problems
Connect
Networking
Settings
Disks
Extensions + applications
Operating system
Configuration
Advisor recommendations
Essentials
JSON View
Resource group (move) : RG-2
Status : Running
Location : East US 2
Subscription (move) : Azure for Students
Subscription ID : ca5224c7-5754-4288-91aa-9ba029f2951e
Operating system : Linux (ubuntu 20.04)
Size : Standard DS1 v2 (1 vcpu, 3.5 GiB memory)
Public IP address : 52.167.138.57
Virtual network/subnet : linux-vnet02/snet-1
DNS name : Not configured
Health state : -
Time created : 7/4/2024, 2:40 PM UTC
Tags (edit) : Add tags
Properties
Monitoring
Capabilities (7)
Recommendations
Tutorials
Virtual machine
Computer name vm-03
Operating system Linux (ubuntu 20.04)
VM generation V2
Networking
Public IP address 52.167.138.57 (Network interface vm-03588)
Public IP address (IPv6) -
Private IP address 13.0.0.4


portal.azure.com/#@subhambh14gmail.onmicrosoft.com/resource/subscriptions/ca5224c7-5754-4288-91aa-9ba029f2951e/resourceGr...
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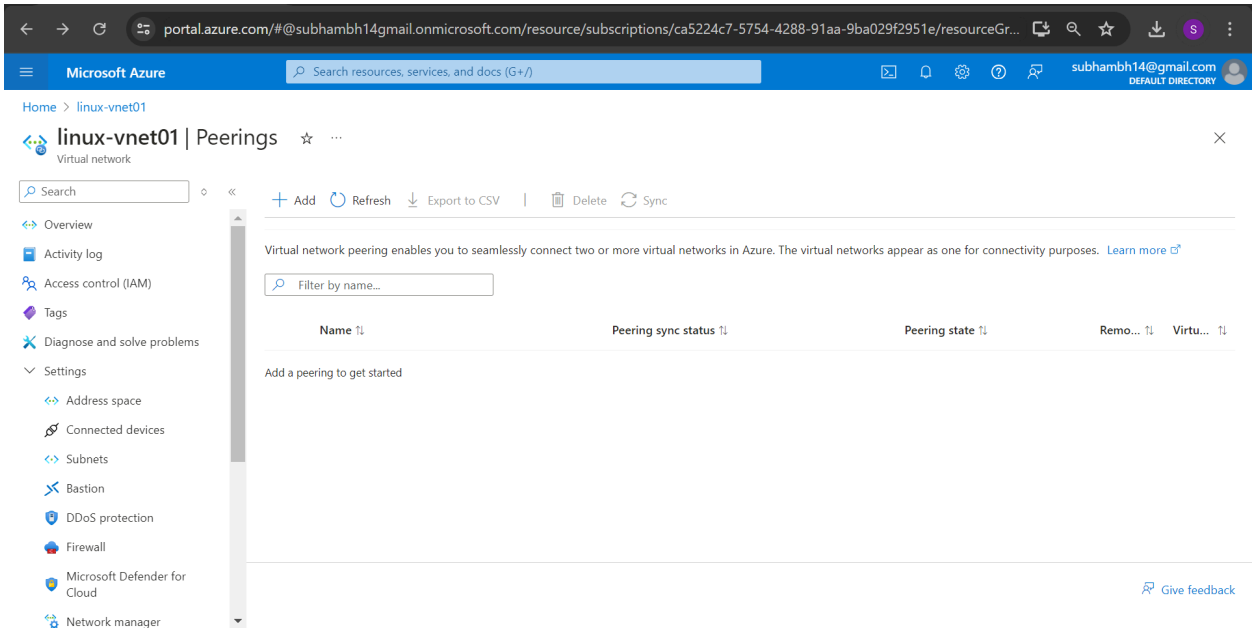
DEFAULT DIRECTORY
Home
Virtual networks
Virtual networks
Default Directory
Create
Manage view
Filter for any field...
Name
linux-vnet01
linux-vnet02
vnet-1
Page 1 of 1
linux-vnet01
Virtual network
Search
Overview
Activity log
Access control (IAM)
Tags
Diagnose and solve problems
Settings
Address space
Connected devices
Subnets
Bastion
DDoS protection
Firewall
Microsoft Defender for Cloud
Network manager
Move
Delete
Refresh
Give feedback
Essentials
JSON View
Resource group (move)
RG-1
Location (move)
East US 2
Subscription (move)
Azure for Students
Subscription ID
ca5224c7-5754-4288-91aa-9ba029f2951e
Address space
12.0.0.0/16
DNS servers
Azure provided DNS service
Flow timeout
Configure
BGP community string
Configure
Virtual network ID
fd782ed4-a573-4f64-bcbb-6463da30f921
Tags (edit)
Add tags
Topology
Properties
Capabilities (5)
Recommendations
Tutorials


portal.azure.com/#@subhambh14gmail.onmicrosoft.com/resource/subscriptions/ca5224c7-5754-4288-91aa-9ba029f2951e/resourceGr...
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DEFAULT DIRECTORY
Home > linux-vnet01
linux-vnet01 | Peerings
Virtual network
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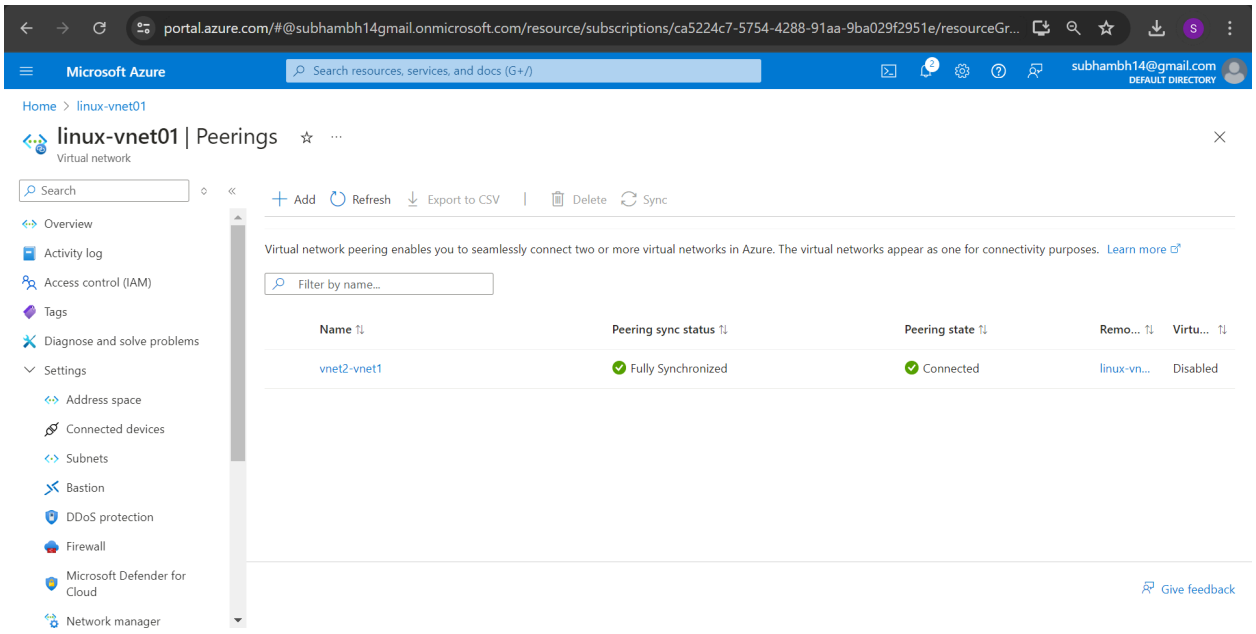
Bastion
DDoS protection
Firewall
Microsoft Defender for Cloud
Network manager
Add
Refresh
Export to CSV
Delete
Sync
Virtual network peering enables you to seamlessly connect two or more virtual networks in Azure. The virtual networks appear as one for connectivity purposes. Learn more
Filter by name...
Name
Peering sync status
Peering state
Remo...
Virtu...
Add a peering to get started
Give feedback


portal.azure.com/#@subhambh14gmail.onmicrosoft.com/resource/subscriptions/ca5224c7-5754-4288-91aa-9ba029f2951e/resourceGr...
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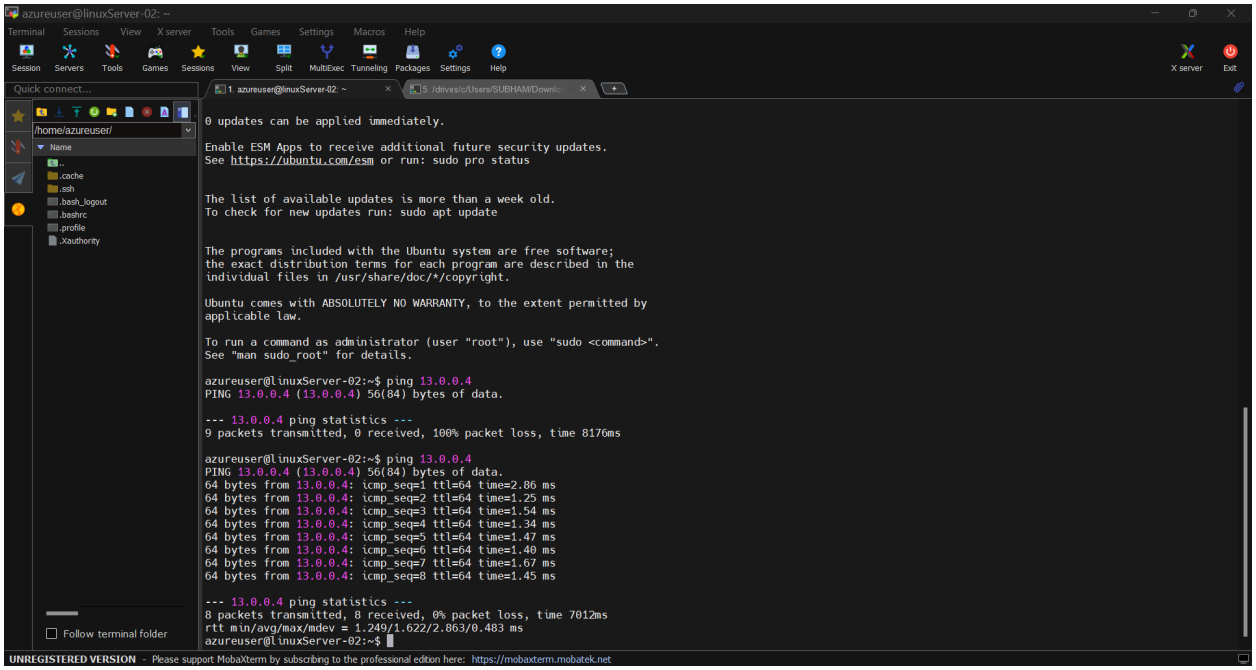
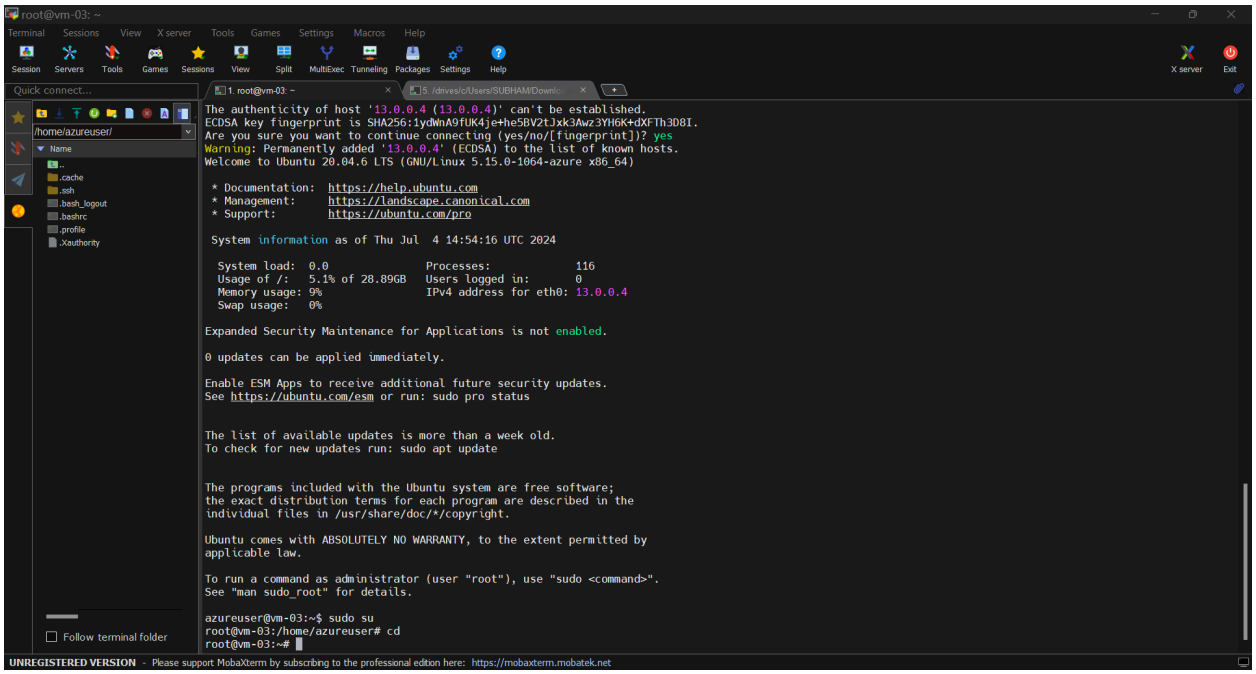
Filter by name...
Name
Peering sync status
Peering state
Remo...
Virtu...
vnet2-vnet1
Fully Synchronized
Connected
linux-vn...
Disabled
Give feedback





After completing all tasks, all resources were deleted.