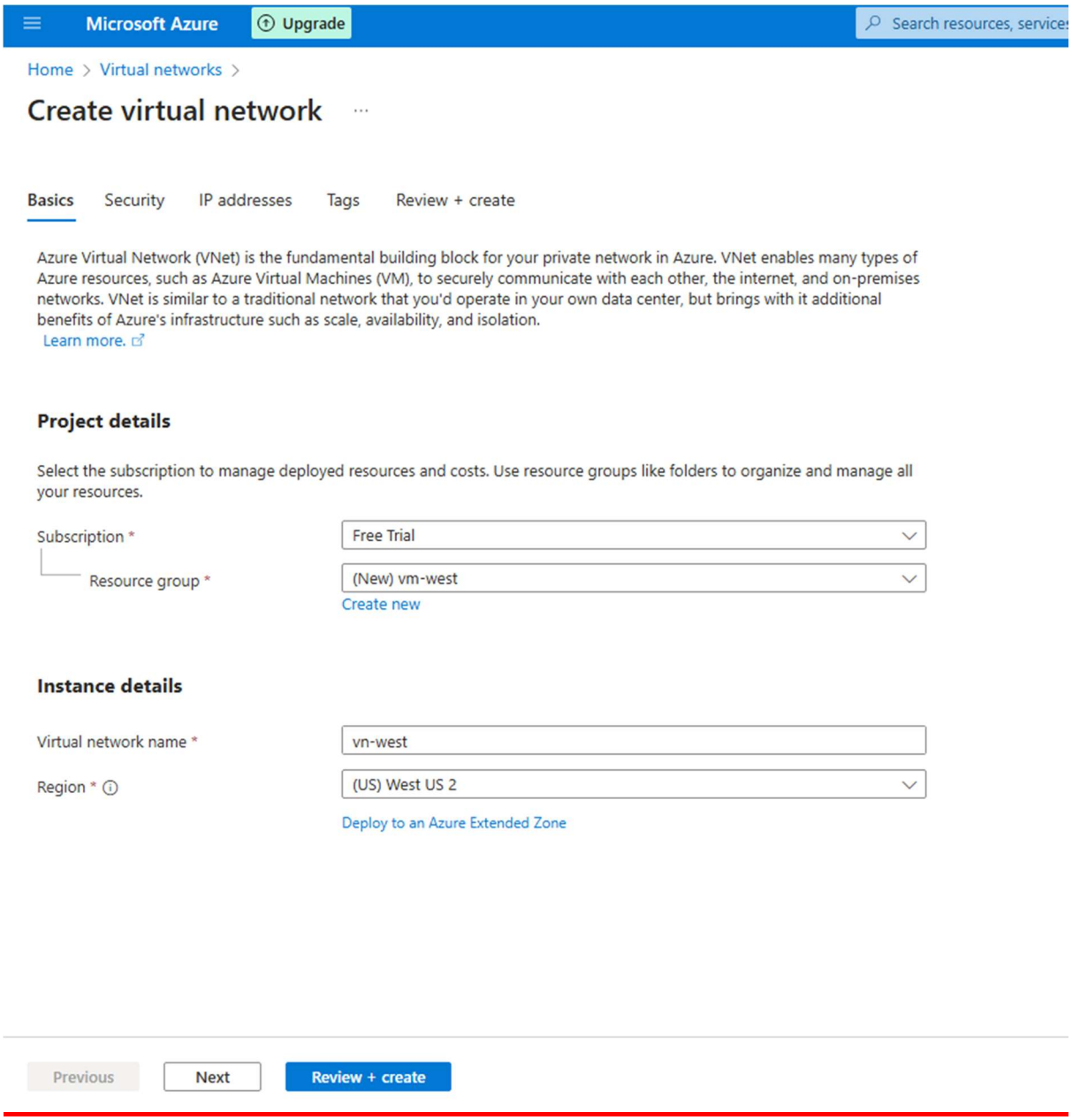
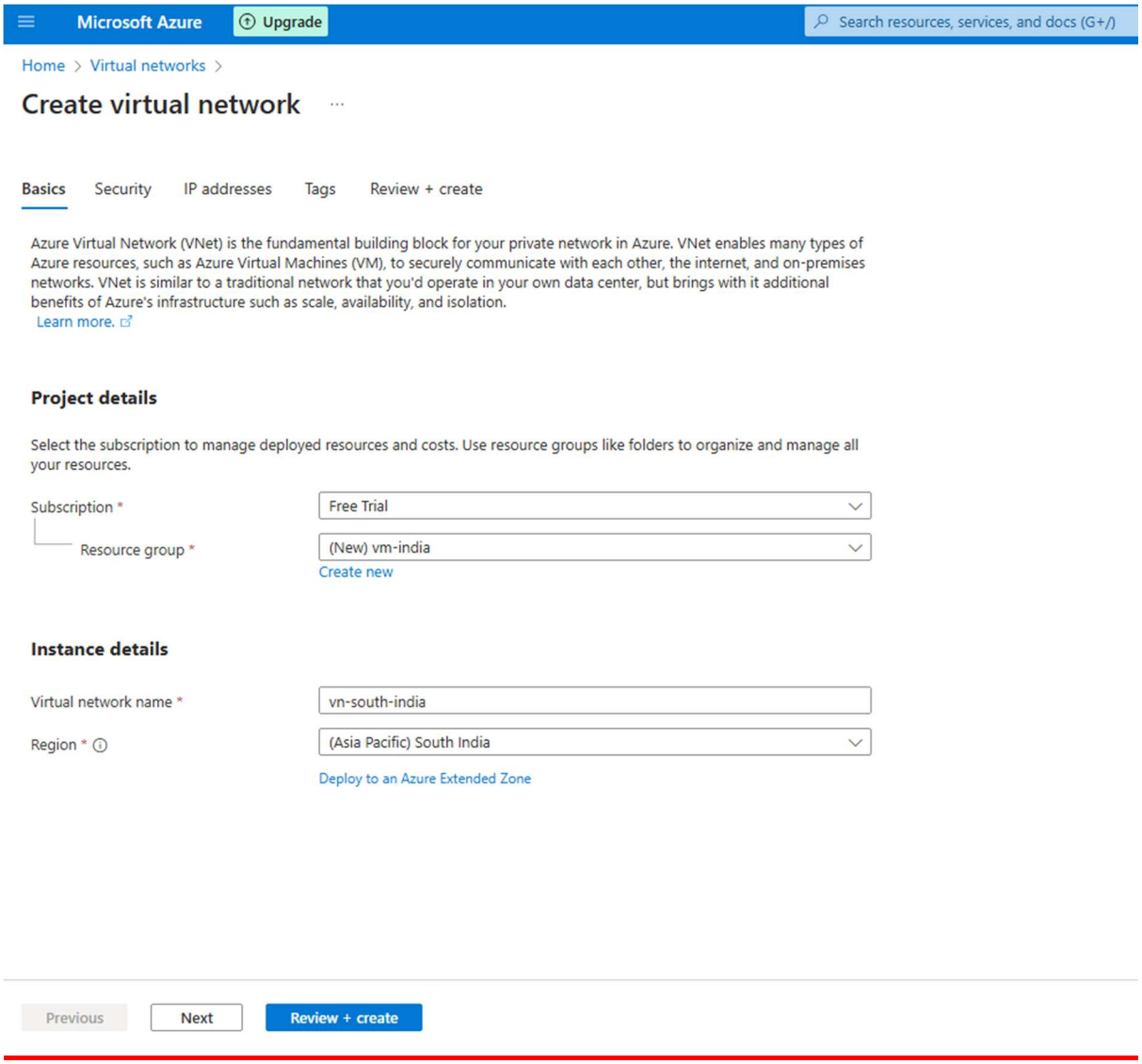
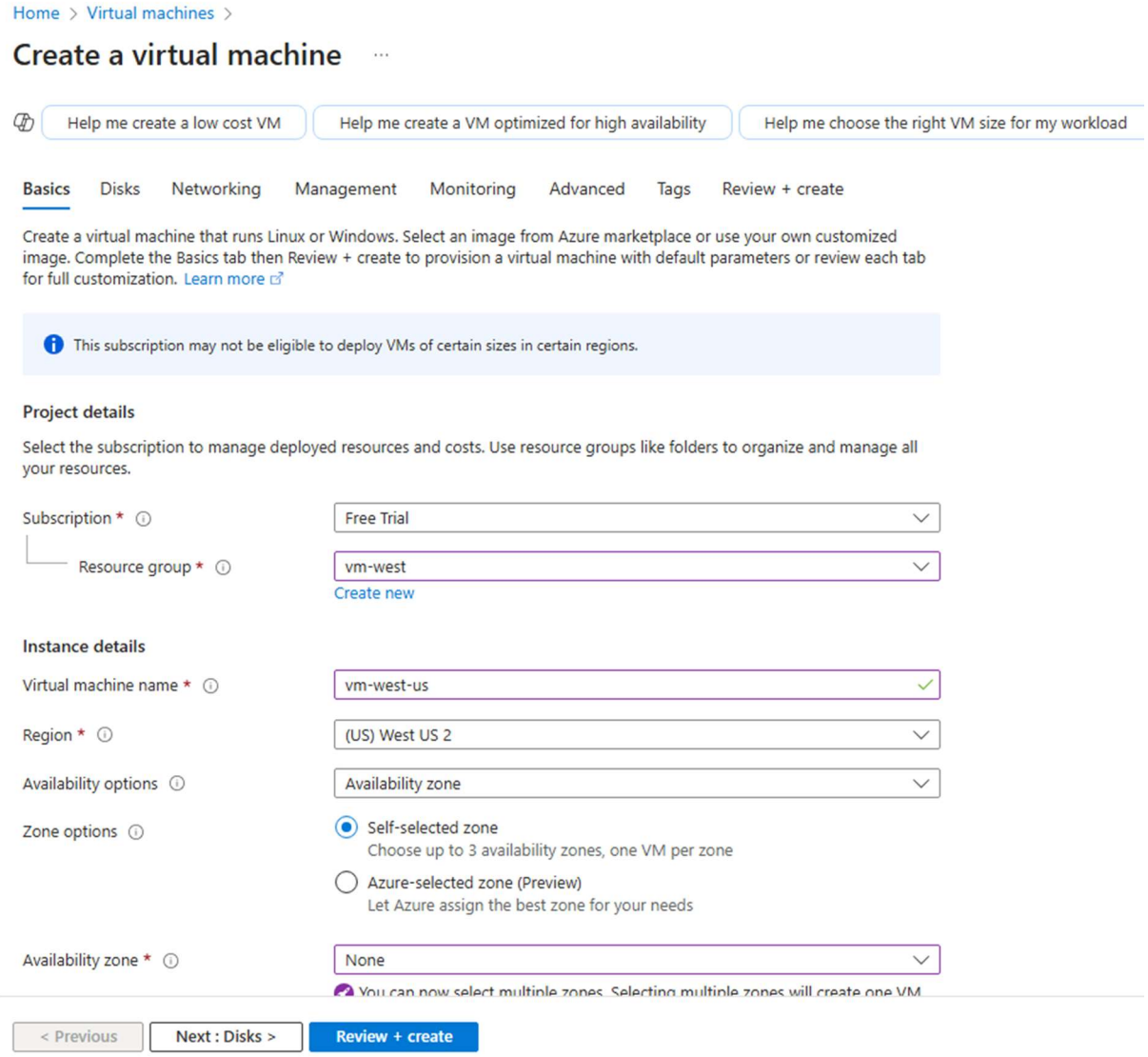
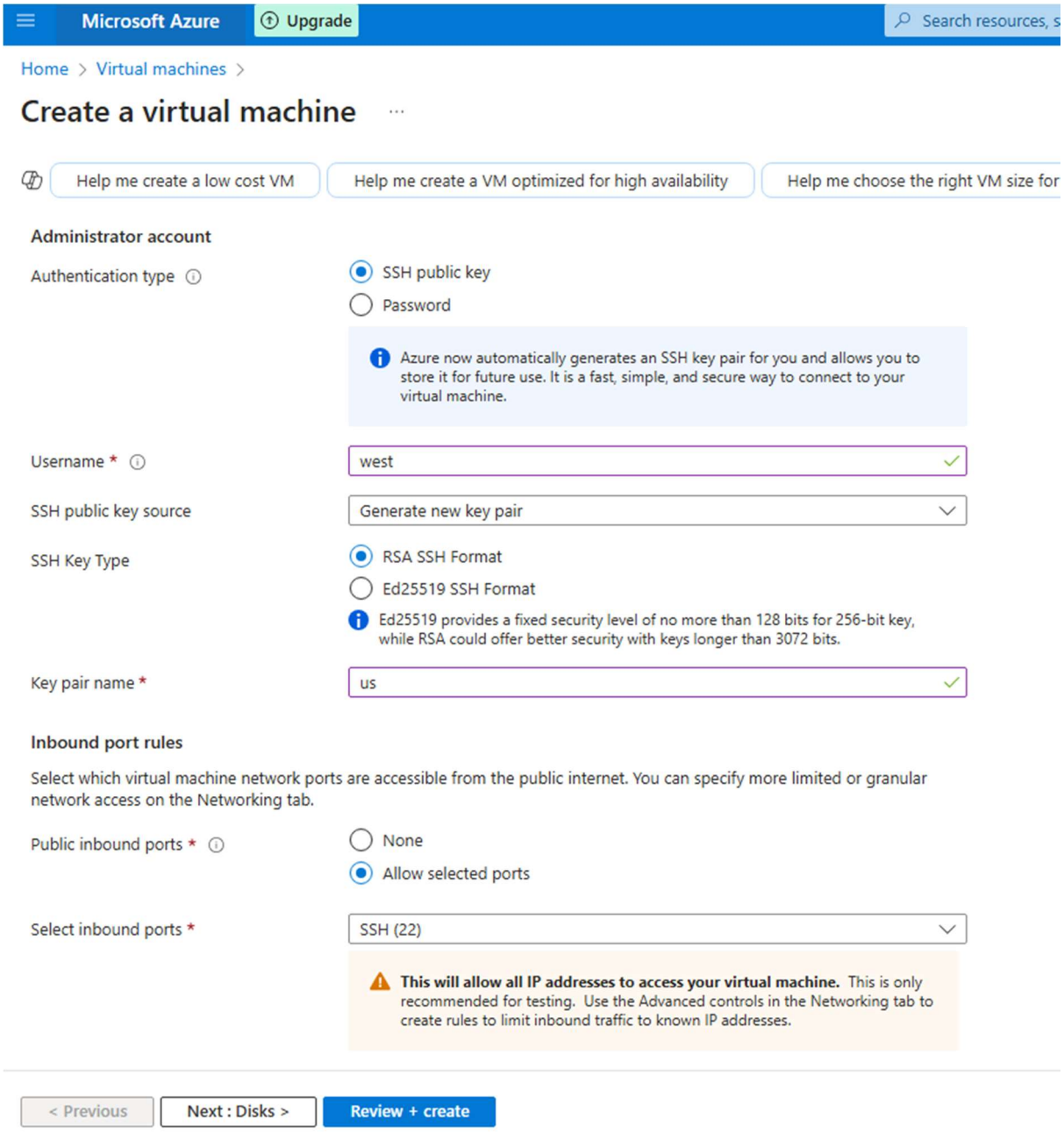
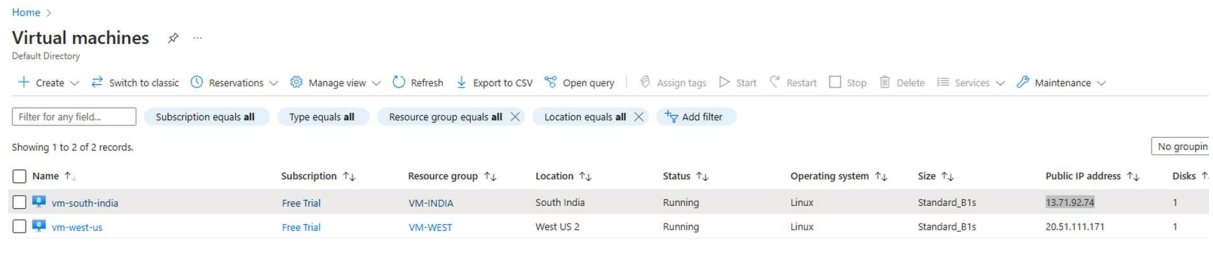
Module 6: Assignment – 1

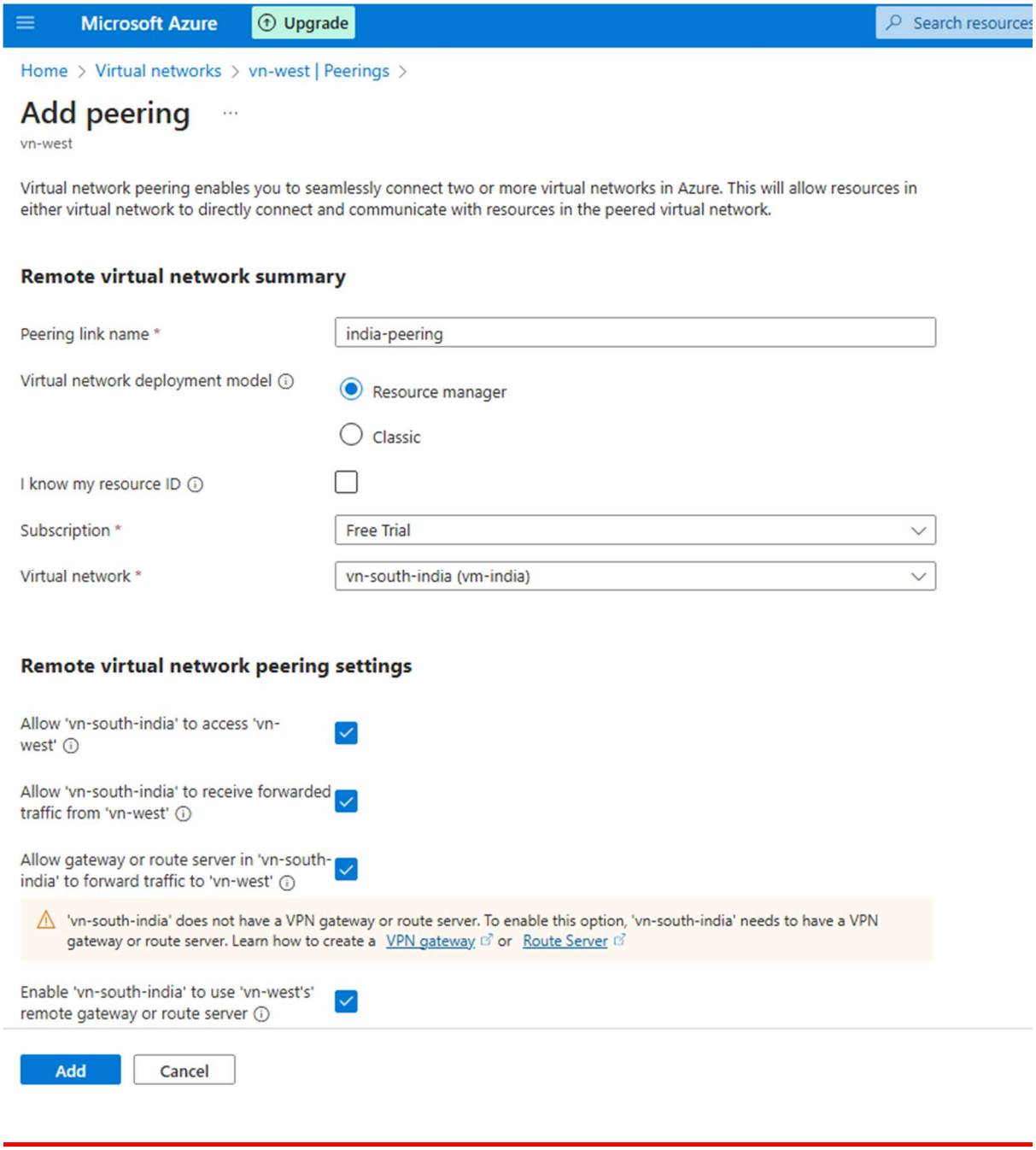

Microsoft Azure
Upgrade
Search resources, service
Home > Virtual networks >
Create virtual network
Basics
Security
IP addresses
Tags
Review + create
Azure Virtual Network (VNet) is the fundamental building block for your private network in Azure. VNet enables many types of Azure resources, such as Azure Virtual Machines (VM), to securely communicate with each other, the internet, and on-premises networks. VNet is similar to a traditional network that you'd operate in your own data center, but brings with it additional benefits of Azure's infrastructure such as scale, availability, and isolation.
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 *
Free Trial
Resource group *
(New) vm-west
Create new
Instance details
Virtual network name *
vn-west
Region *
(US) West US 2
Deploy to an Azure Extended Zone
Previous
Next
Review + create


Microsoft Azure
Upgrade
Search resources, services, and docs (G+/)
Home > Virtual networks >
Create virtual network
Basics
Security
IP addresses
Tags
Review + create
Azure Virtual Network (VNet) is the fundamental building block for your private network in Azure. VNet enables many types of Azure resources, such as Azure Virtual Machines (VM), to securely communicate with each other, the internet, and on-premises networks. VNet is similar to a traditional network that you'd operate in your own data center, but brings with it additional benefits of Azure's infrastructure such as scale, availability, and isolation.
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 *
Free Trial
Resource group *
(New) vm-india
Create new
Instance details
Virtual network name *
vn-south-india
Region *
(Asia Pacific) South India
Deploy to an Azure Extended Zone
Previous
Next
Review + create


Home > Virtual machines >
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
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
This subscription may not be eligible to deploy VMs of certain sizes in certain regions.
Project details
Select the subscription to manage deployed resources and costs. Use resource groups like folders to organize and manage all your resources.
Subscription *
Free Trial
Resource group *
vm-west
Create new
Instance details
Virtual machine name *
vm-west-us
Region *
(US) West US 2
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 *
None
You can now select multiple zones. Selecting multiple zones will create one VM
< Previous
Next : Disks >
Review + create


Microsoft Azure
Upgrade
Search resources, s
Home > Virtual machines >
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
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 *
west
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 *
us
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


Home >
Virtual machines
Default Directory
Create
Switch to classic
Reservations
Manage view
Refresh
Export to CSV
Open query
Assign tags
Start
Restart
Stop
Delete
Services
Maintenance
Filter for any field...
Subscription equals all
Type equals all
Resource group equals all
Location equals all
Add filter
Showing 1 to 2 of 2 records.
No groupin
Name
Subscription
Resource group
Location
Status
Operating system
Size
Public IP address
Disks
vm-south-india
Free Trial
VM-INDIA
South India
Running
Linux
Standard_B1s
13.71.92.74
1
vm-west-us
Free Trial
VM-WEST
West US 2
Running
Linux
Standard_B1s
20.51.111.171
1


Microsoft Azure
Upgrade
Search resources
Home > Virtual networks > vn-west | Peerings >
Add peering
vn-west
Virtual network peering enables you to seamlessly connect two or more virtual networks in Azure. This will allow resources in either virtual network to directly connect and communicate with resources in the peered virtual network.
Remote virtual network summary
Peering link name *
india-peering
Virtual network deployment model
Resource manager
Classic
I know my resource ID
Subscription *
Free Trial
Virtual network *
vn-south-india (vm-india)
Remote virtual network peering settings
Allow 'vn-south-india' to access 'vn-west'
Allow 'vn-south-india' to receive forwarded traffic from 'vn-west'
Allow gateway or route server in 'vn-south-india' to forward traffic to 'vn-west'
'vn-south-india' does not have a VPN gateway or route server. To enable this option, 'vn-south-india' needs to have a VPN gateway or route server. Learn how to create a VPN gateway or Route Server
Enable 'vn-south-india' to use 'vn-west's' remote gateway or route server
Add
Cancel

Add peering

vn-west

Allow 'vn-south-india' to receive forwarded traffic from 'vn-west'

Allow gateway or route server in 'vn-south-india' to forward traffic to 'vn-west'

'vn-south-india' does not have a VPN gateway or route server. To enable this option, 'vn-south-india' needs to have a VPN gateway or route server. Learn how to create a VPN gateway or Route Server

Enable 'vn-south-india' to use 'vn-west's' remote gateway or route server

Local virtual network summary

Peering link name * us-peering

Local virtual network peering settings

Allow 'vn-west' to access 'vn-south-india'

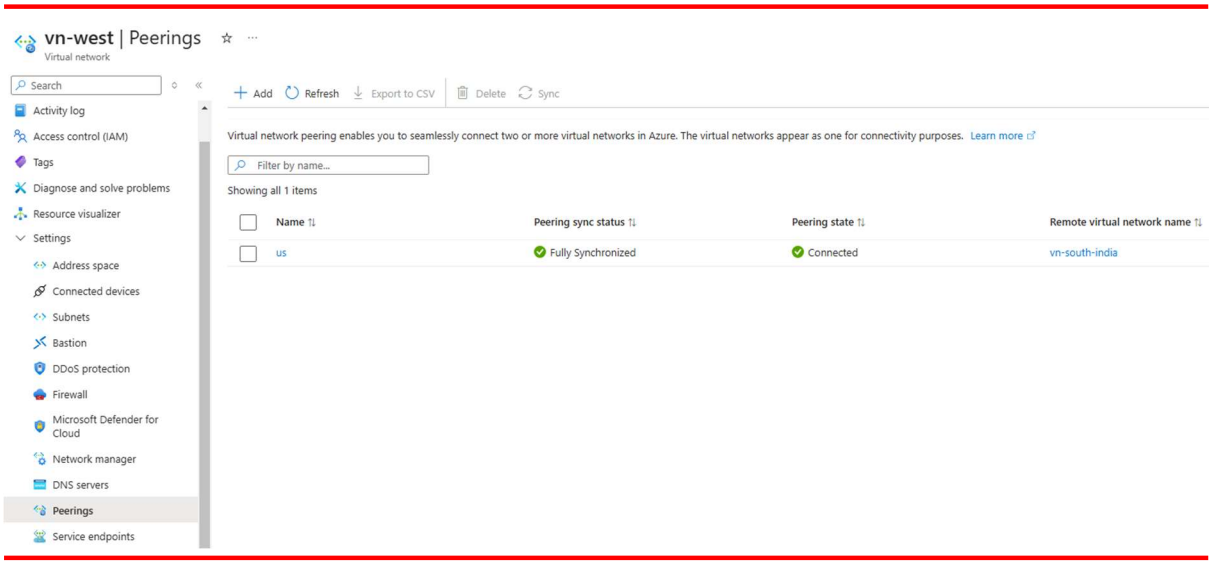
Allow 'vn-west' to receive forwarded traffic from 'vn-south-india'

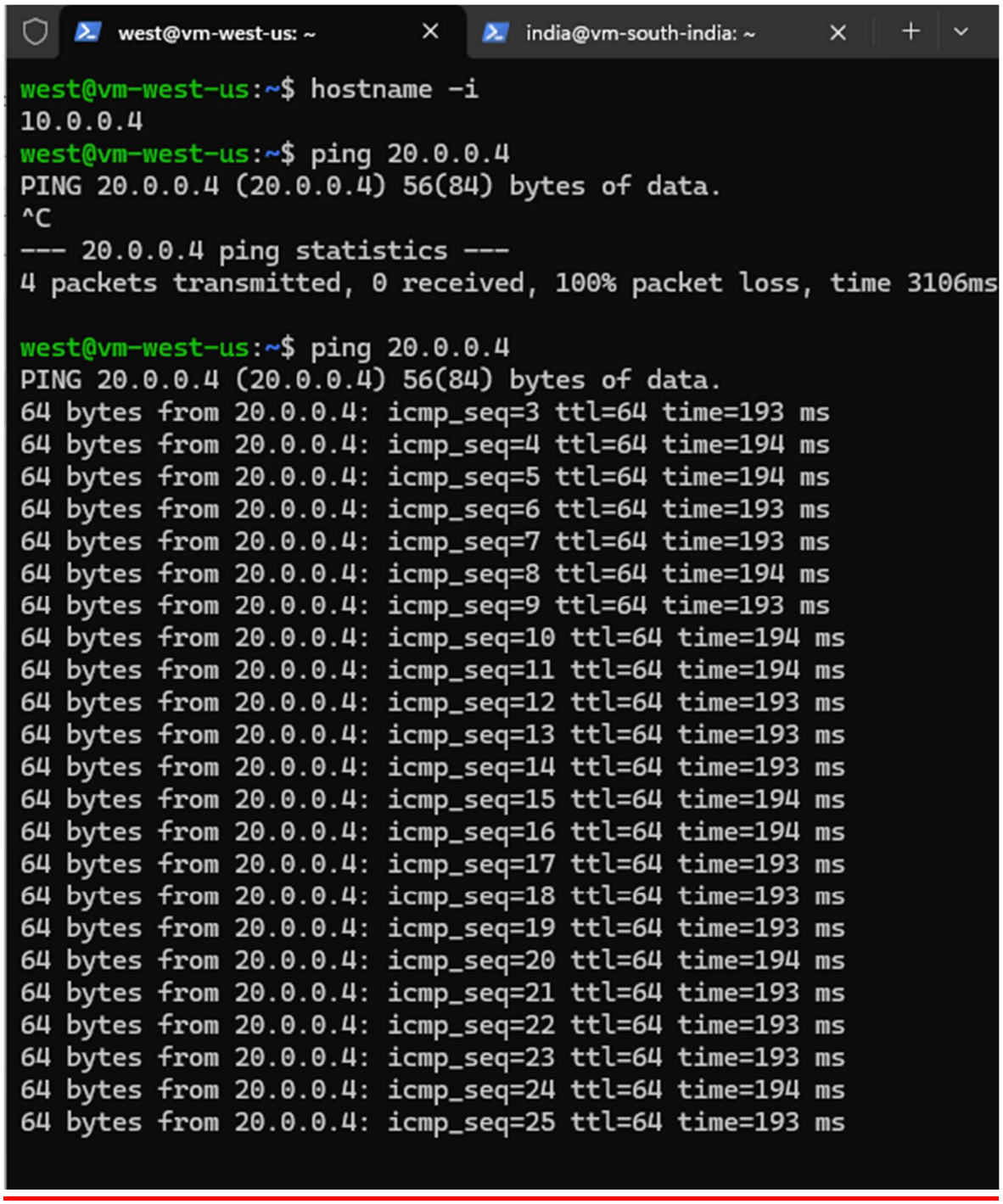
Allow gateway or route server in 'vn-west' to forward traffic to 'vn-south-india'

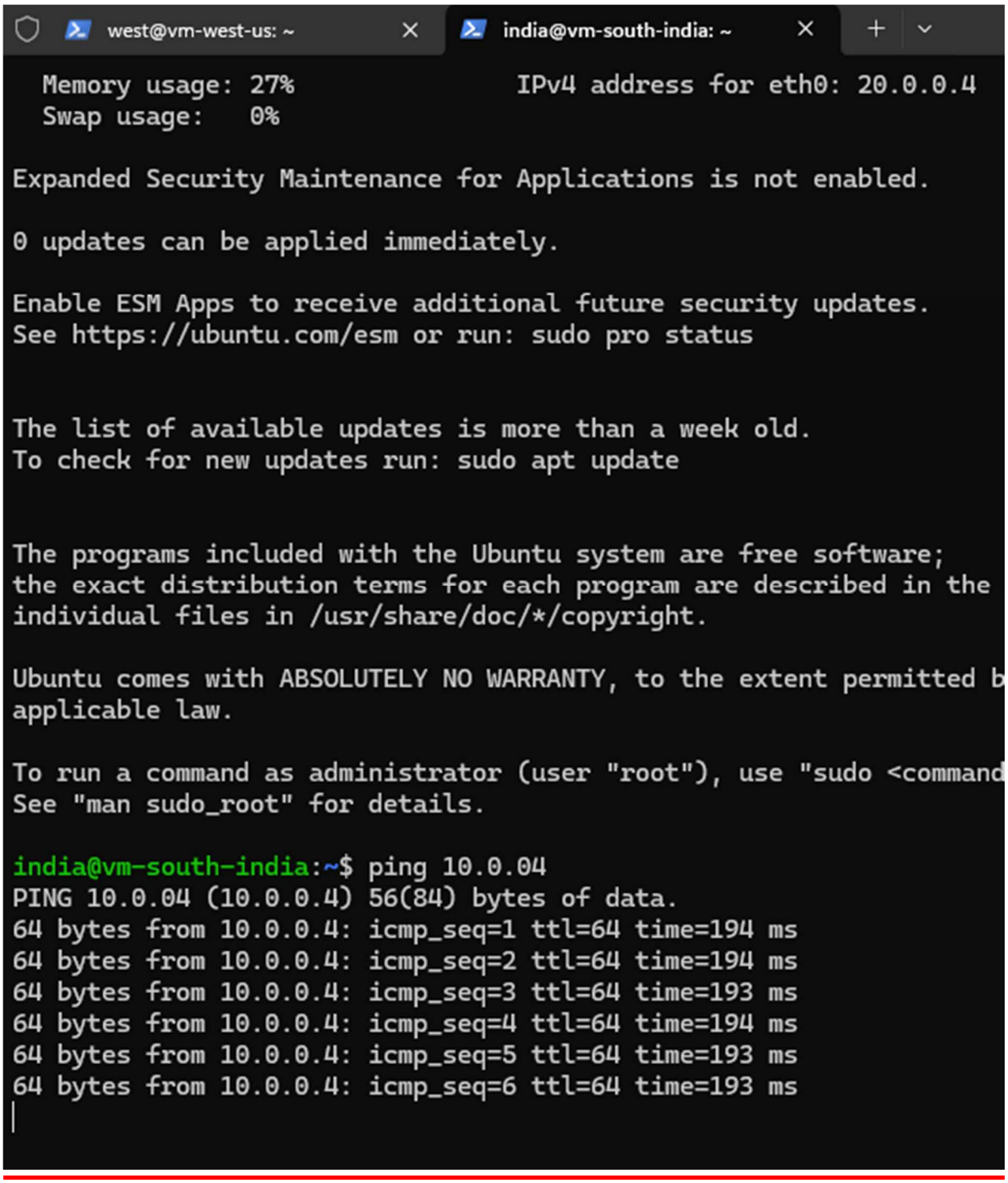
'vn-west' does not have a VPN gateway or route server. To enable this option, 'vn-west' needs to have a VPN gateway or route server. Learn how to create a VPN gateway or Route Server

Enable 'vn-west' to use 'vn-south-india's' remote gateway or route server

Add Cancel




west@vm-west-us: ~
india@vm-south-india: ~
west@vm-west-us:~$ hostname -i
10.0.0.4
west@vm-west-us:~$ ping 20.0.0.4
PING 20.0.0.4 (20.0.0.4) 56(84) bytes of data.
^C
--- 20.0.0.4 ping statistics ---
4 packets transmitted, 0 received, 100% packet loss, time 3106ms
west@vm-west-us:~$ ping 20.0.0.4
PING 20.0.0.4 (20.0.0.4) 56(84) bytes of data.
64 bytes from 20.0.0.4: icmp_seq=3 ttl=64 time=193 ms
64 bytes from 20.0.0.4: icmp_seq=4 ttl=64 time=194 ms
64 bytes from 20.0.0.4: icmp_seq=5 ttl=64 time=194 ms
64 bytes from 20.0.0.4: icmp_seq=6 ttl=64 time=193 ms
64 bytes from 20.0.0.4: icmp_seq=7 ttl=64 time=193 ms
64 bytes from 20.0.0.4: icmp_seq=8 ttl=64 time=194 ms
64 bytes from 20.0.0.4: icmp_seq=9 ttl=64 time=193 ms
64 bytes from 20.0.0.4: icmp_seq=10 ttl=64 time=194 ms
64 bytes from 20.0.0.4: icmp_seq=11 ttl=64 time=194 ms
64 bytes from 20.0.0.4: icmp_seq=12 ttl=64 time=193 ms
64 bytes from 20.0.0.4: icmp_seq=13 ttl=64 time=193 ms
64 bytes from 20.0.0.4: icmp_seq=14 ttl=64 time=193 ms
64 bytes from 20.0.0.4: icmp_seq=15 ttl=64 time=194 ms
64 bytes from 20.0.0.4: icmp_seq=16 ttl=64 time=194 ms
64 bytes from 20.0.0.4: icmp_seq=17 ttl=64 time=193 ms
64 bytes from 20.0.0.4: icmp_seq=18 ttl=64 time=193 ms
64 bytes from 20.0.0.4: icmp_seq=19 ttl=64 time=193 ms
64 bytes from 20.0.0.4: icmp_seq=20 ttl=64 time=194 ms
64 bytes from 20.0.0.4: icmp_seq=21 ttl=64 time=193 ms
64 bytes from 20.0.0.4: icmp_seq=22 ttl=64 time=193 ms
64 bytes from 20.0.0.4: icmp_seq=23 ttl=64 time=193 ms
64 bytes from 20.0.0.4: icmp_seq=24 ttl=64 time=194 ms
64 bytes from 20.0.0.4: icmp_seq=25 ttl=64 time=193 ms


west@vm-west-us: ~
india@vm-south-india: ~
Memory usage: 27%
IPv4 address for eth0: 20.0.0.4
Swap usage: 0%
Expanded Security Maintenance for Applications is not enabled.
0 updates can be applied immediately.
Enable ESM Apps to receive additional future security updates.
See https://ubuntu.com/esm or run: sudo pro status
The list of available updates is more than a week old.
To check for new updates run: sudo apt update
The programs included with the Ubuntu system are free software;
the exact distribution terms for each program are described in the
individual files in /usr/share/doc/*/copyright.
Ubuntu comes with ABSOLUTELY NO WARRANTY, to the extent permitted b
applicable law.
To run a command as administrator (user "root"), use "sudo <command
See "man sudo_root" for details.
india@vm-south-india:~$ ping 10.0.04
PING 10.0.04 (10.0.0.4) 56(84) bytes of data.
64 bytes from 10.0.0.4: icmp_seq=1 ttl=64 time=194 ms
64 bytes from 10.0.0.4: icmp_seq=2 ttl=64 time=194 ms
64 bytes from 10.0.0.4: icmp_seq=3 ttl=64 time=193 ms
64 bytes from 10.0.0.4: icmp_seq=4 ttl=64 time=194 ms
64 bytes from 10.0.0.4: icmp_seq=5 ttl=64 time=193 ms
64 bytes from 10.0.0.4: icmp_seq=6 ttl=64 time=193 ms