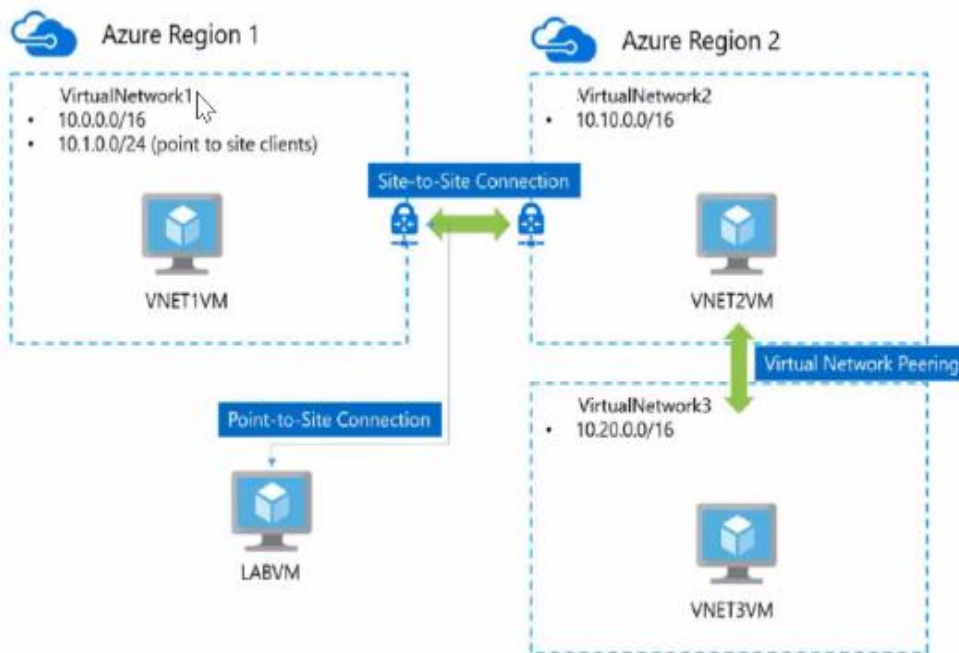
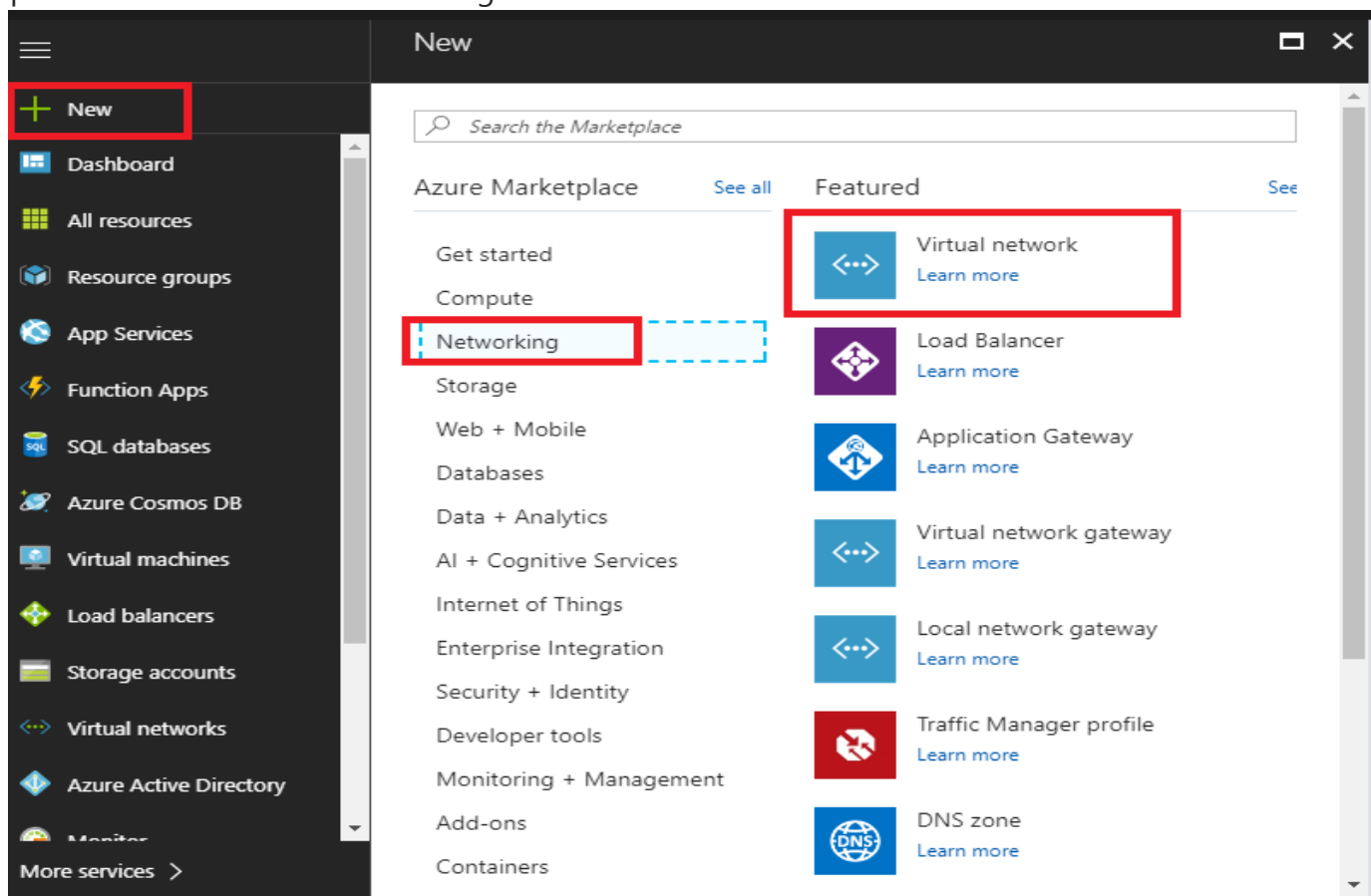


Site-to-Site Connectivity



Step-1 open azure portal using <https://portal.azure.com> and login using your username and password. Click new + Networking + Virtual Network



In the Create Virtual Network Blade, insert following details and click on Create.

Create virtual network

* Name
VirtualNetwork1 ✓

* Address space ⓘ
10.0.0.0/16 ✓
10.0.0.0 - 10.0.255.255 (65536 addresses)

⚠ The address space '10.0.0.0/16' overlaps with '10.0.0.0/24' in virtual network 'VM_RG-vnet'.

* Subscription
BizSpark ▼

* Resource group
☒ Create new ☐ Use existing
VNETRG1 ✓

* Location
Southeast Asia ▼

Subnet

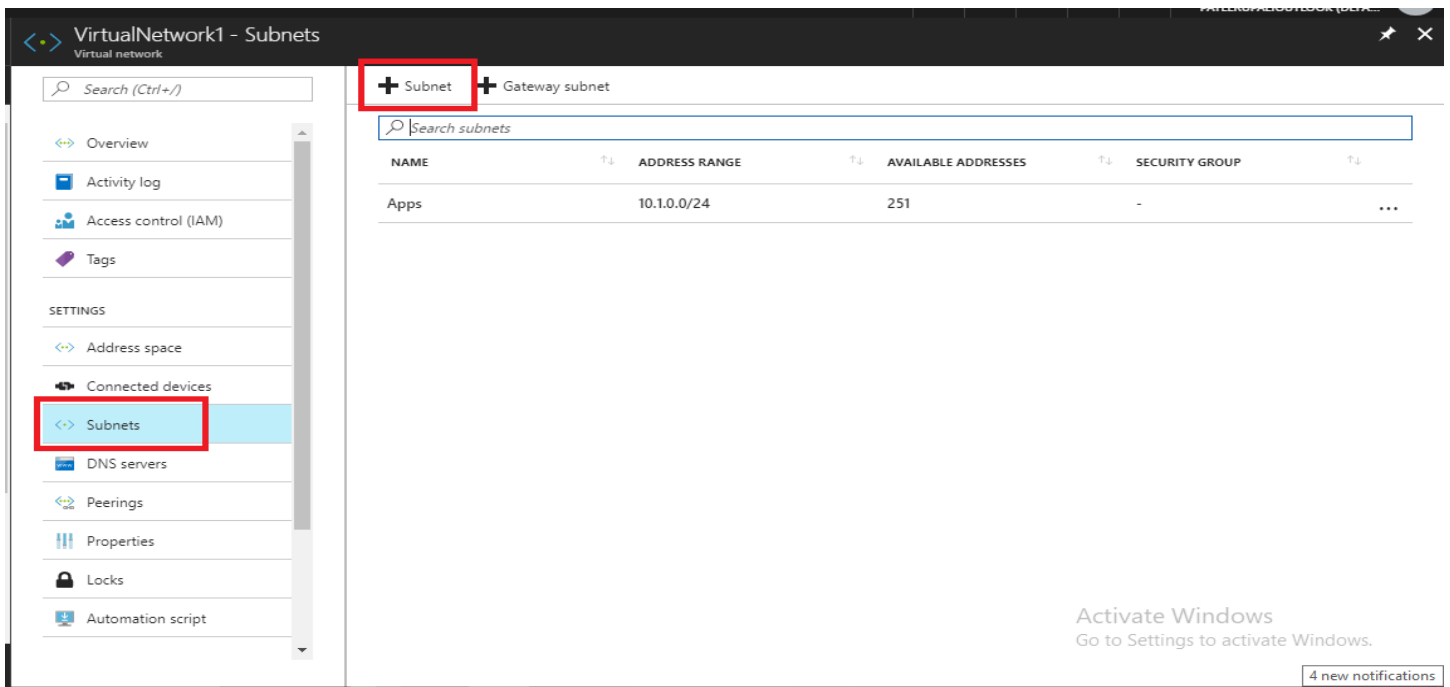
* Name
default

* Address range ⓘ
10.0.0.0/24 ✓
10.0.0.0 - 10.0.0.255 (256 addresses)

☐ Pin to dashboard

Create [Automation options](#)

Step -2 : open the newly created Virtual Network, Click on Subnets, in subnets blade click on " + Subnet" button.



In Add subnet blade enter following details and click on ok.

Add subnet
VirtualNetwork1

* Name
Data ✓

* Address range (CIDR block) ⓘ
10.0.1.0/24
10.0.1.0 - 10.0.1.255 (251 + 5 Azure reserved addresses)

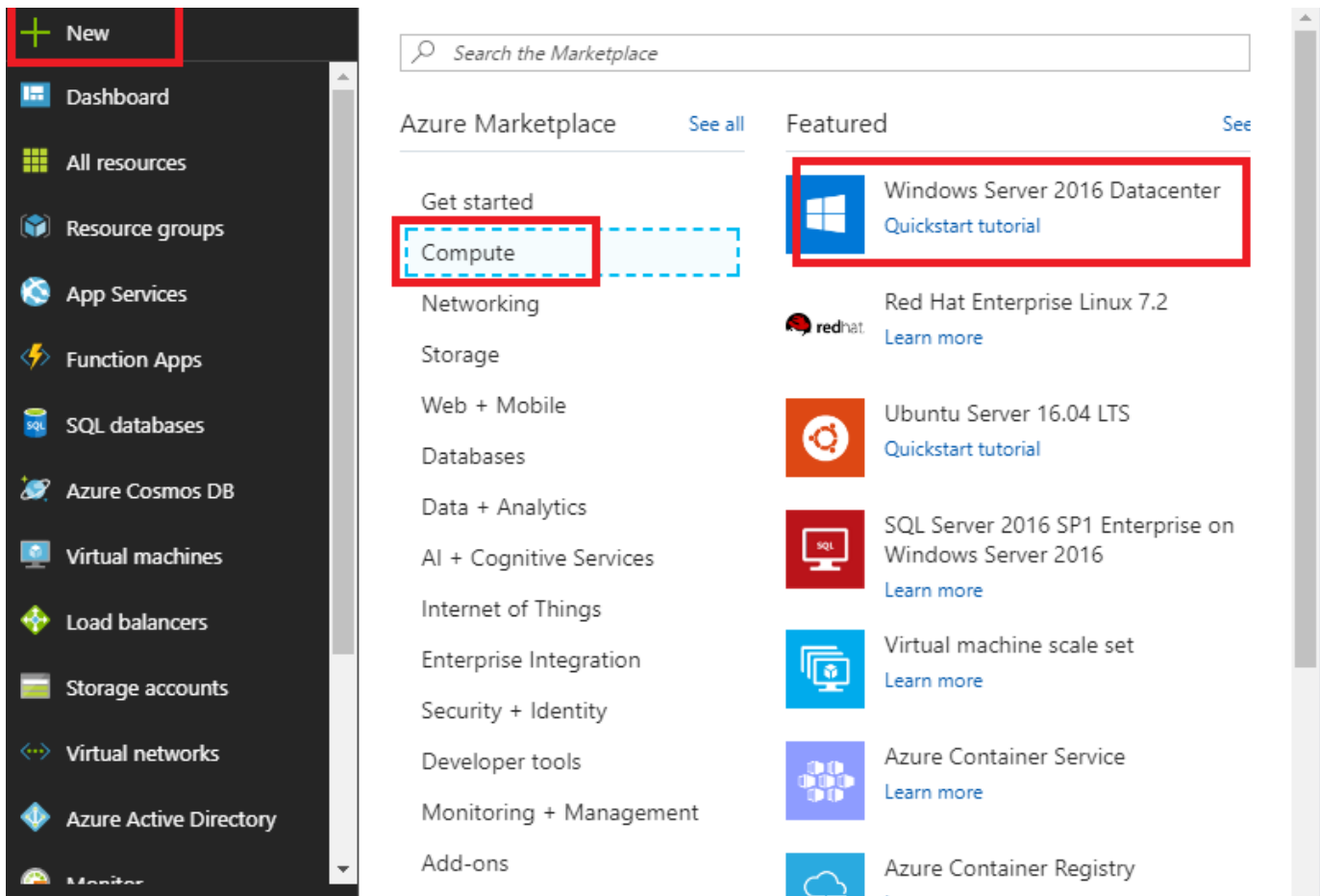
Network security group
None >

Route table
None >

OK

Step-3 Create a Virtual Machine

Click on New + Compute + Windows Server 2016 Datacenter



Fill up the details as below and click on OK

Create virtual machine

Basics

1 Basics
Configure basic settings

2 Size
Choose virtual machine size

3 Settings
Configure optional features

4 Purchase
Windows Server 2016 Datacent...

* Name
VNET1VM

VM disk type
HDD

* User name
demouser

* Password
.....

* Confirm password
.....

Subscription
BizSpark

* Resource group
☒ Create new ☐ Use existing
VMRmRG

* Location
Southeast Asia

Save money
Save up to 40% with a license you already own.

* Already have a Windows Server license?
☐ Yes ☒ No

OK

Click on View all to view all the machines.

1 Basics
Done

2 Size
Choose virtual machine size

3 Settings
Configure optional features

4 Purchase
Windows Server 2016 Datacent...

Choose a size

Browse the available sizes and their features

Prices presented are estimates in your local currency that include only Azure infrastructure costs and any discounts for the subscription and location. The prices don't include any applicable software costs. Recommended sizes are determined by the publisher of the selected image based on hardware and software requirements.

Supported disk type: HDD Minimum vCPUs: 1 Minimum memory (GiB): 0

★ Recommended View all

D1_V2 Standard	D1 Standard	A1 Standard
1 vCPU	1 vCPU	1 vCPU
3.5 GB	3.5 GB	1.75 GB
2 Data disks	2 Data disks	2 Data disks
2x500 Max IOPS	2x500 Max IOPS	2x500 Max IOPS
50 GB Local SSD	50 GB Local SSD	Load balancing
Load balancing	Load balancing	
3,884.87	4,819.21	2,950.54

Select

Select A2 Standard and then click on Select Button.

1 Basics
Done

2 Size
Choose virtual machine size

3 Settings
Configure optional features

4 Purchase
Windows Server 2016 Datacent...

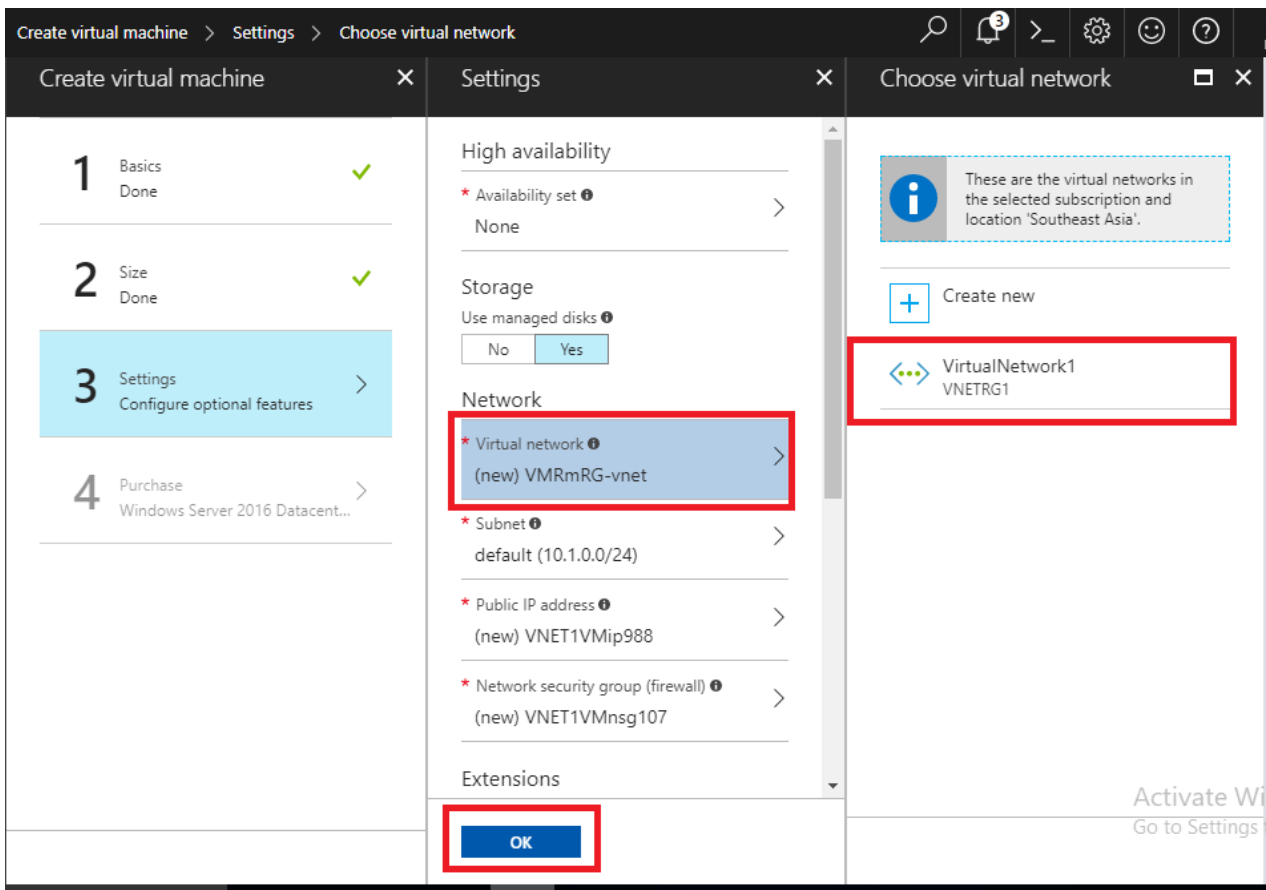
Choose a size

Browse the available sizes and their features

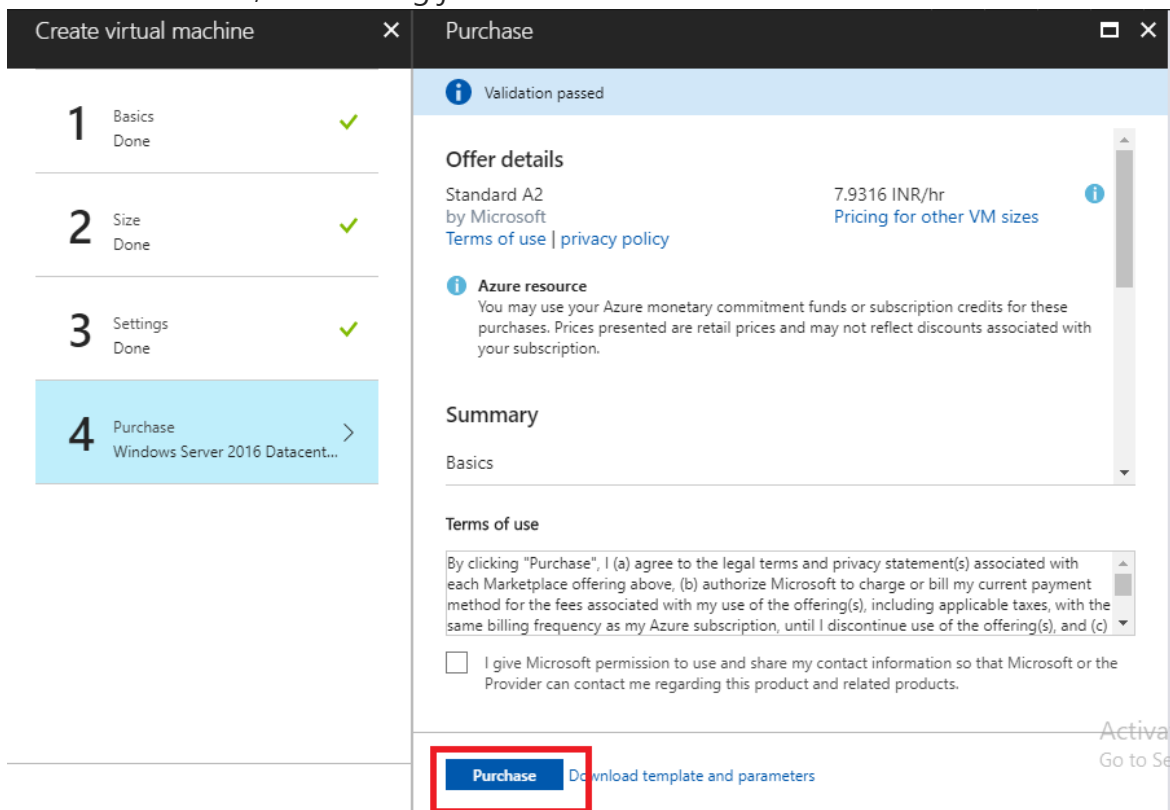
13,818.35 INR/MONTH (ESTIMATED)	28,964.43 INR/MONTH (ESTIMATED)	983.51 INR/MONTH (ESTIMATED)
A1 Standard	A2 Standard	A3 Standard
1 vCPU	2 vCPUs	4 vCPUs
1.75 GB	3.5 GB	7 GB
2 Data disks	4 Data disks	8 Data disks
2x500 Max IOPS	4x500 Max IOPS	8x500 Max IOPS
Load balancing	Load balancing	Load balancing
2,950.54 INR/MONTH (ESTIMATED)	5,901.07 INR/MONTH (ESTIMATED)	11,802.15 INR/MONTH (ESTIMATED)
A4 Standard	A5 Standard	A6 Standard
8 vCPUs	2 vCPUs	4 vCPUs
14 GB	14 GB	28 GB
16 Data disks	4 Data disks	8 Data disks

Select

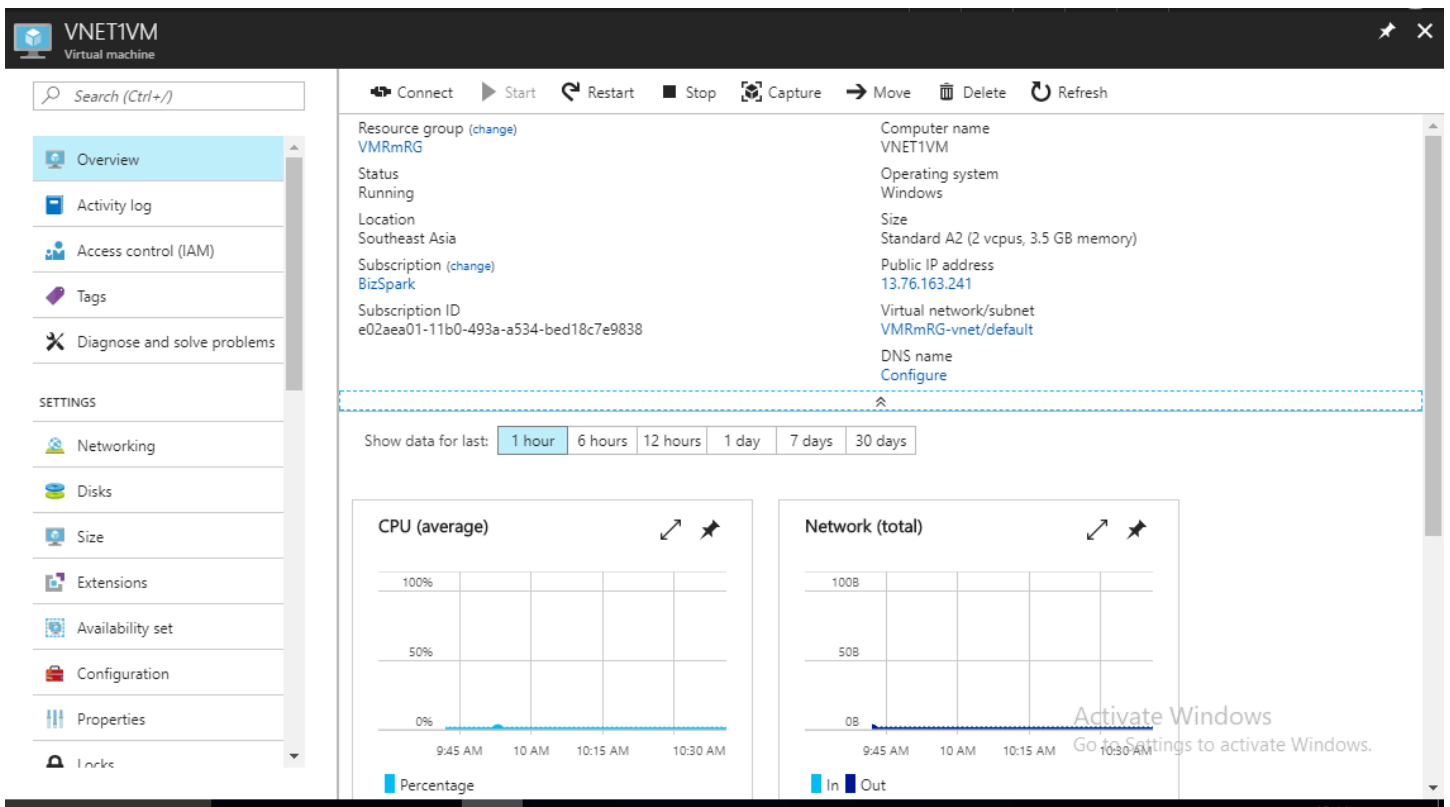
In settings blade, Click on Virtual Network and select Virtual Network1, keep everything else as it is and Click on OK.



In Purchase blade, Do nothing just click on Purchase button.

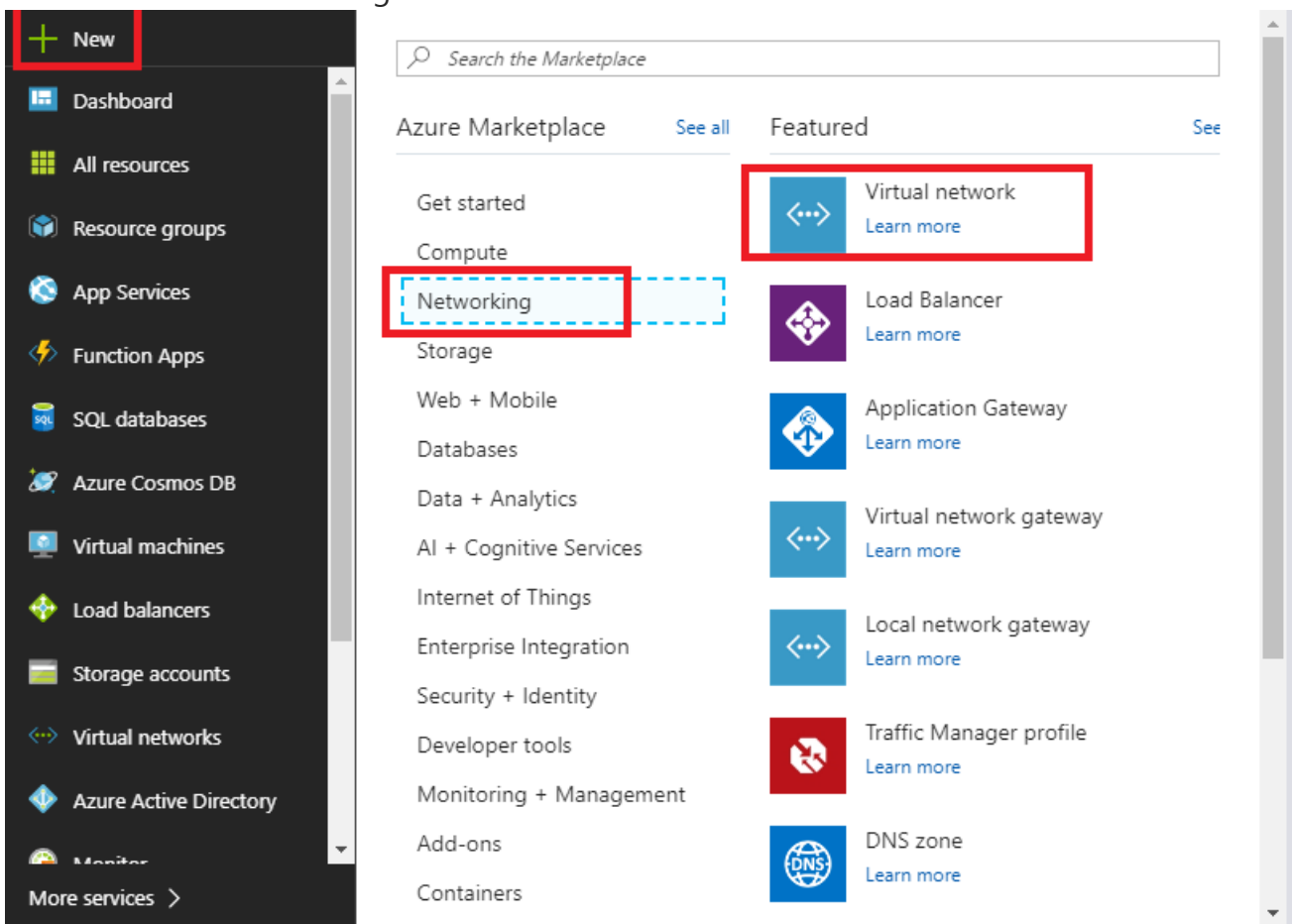


Virtual Machine has been created successfully and it displays as below:



Step: Create a Virtual Network

Click on New + Networking + Virtual Network



Fill up the details as below and click on OK. Virtual Network will be created and open. Close the blade.

Create virtual network

*

Name

VirtualNetwork2

✓

*

Address space

10.10.0.0/16

✓

10.10.0.0 - 10.10.255.255 (65536 addresses)

*

Subscription

BizSpark

▼

*

Resource group

Create new

Use existing

VNET2RG

✓

*

Location

West India

▼

Subnet

*

Name

Apps

✓

*

Address range

10.10.0.0/24

✓

10.10.0.0 - 10.10.0.255 (256 addresses)

Service endpoints (Preview)

Disabled

Enabled

✓

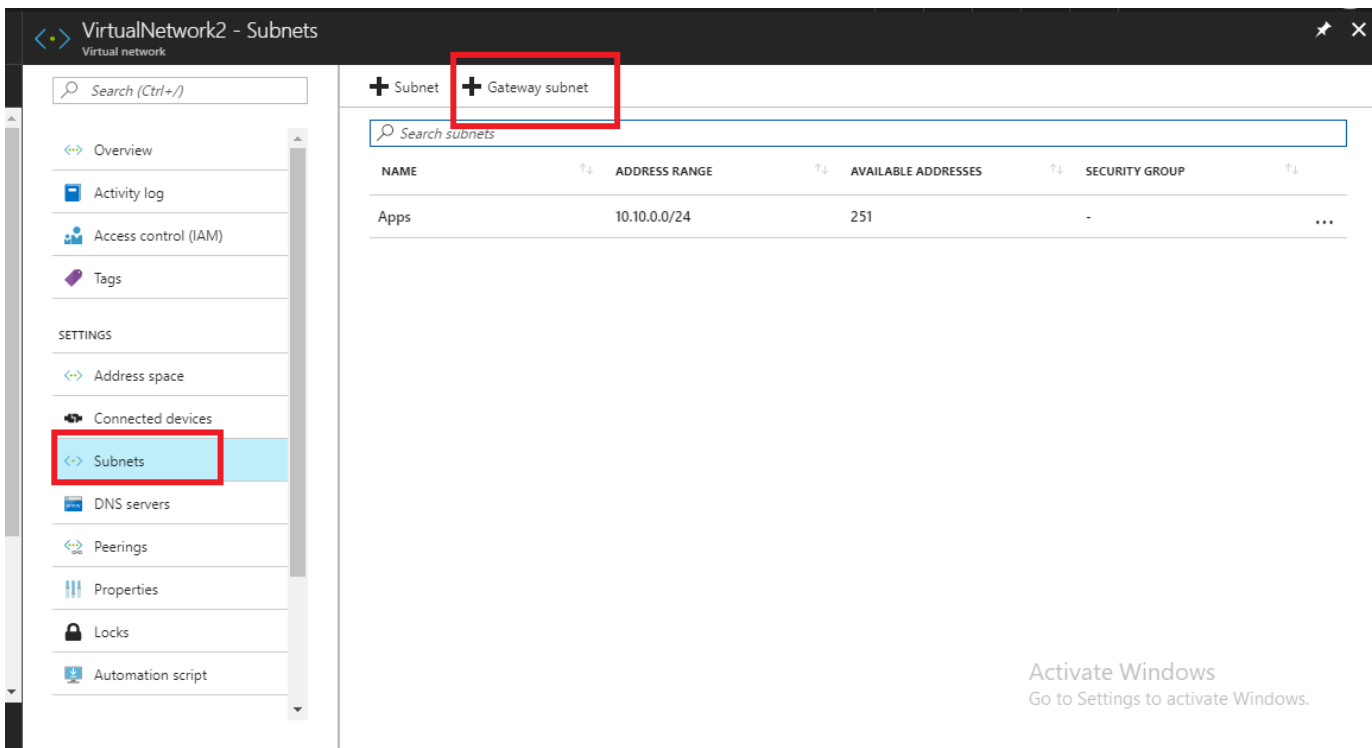
Pin to dashboard

Create

Automation options

Step :

Open the newly created Virtual Network2 and click on Subnets and the click on "+Gateway Subnet"



In Add Subnet Blade just change the Address Range only as below and then click on Ok button.

Add subnet

VirtualNetwork2

* Name

GatewaySubnet

* Address range (CIDR block) ⓘ

10.10.1.0/29 ✓

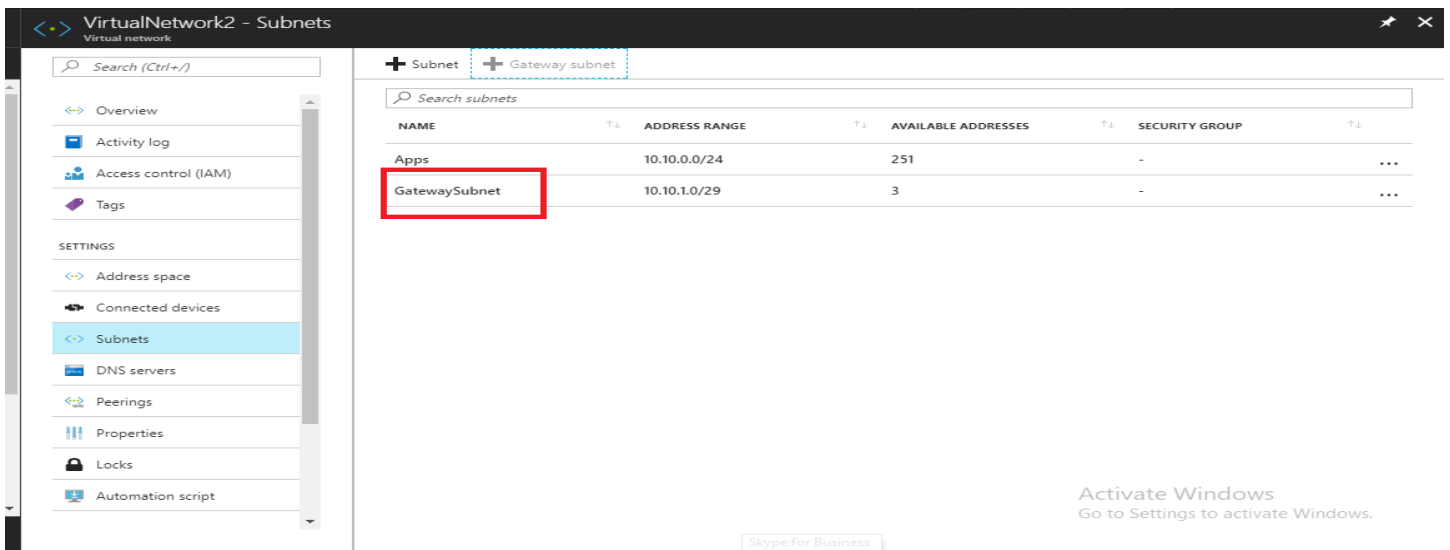
10.10.1.0 - 10.10.1.7 (3 + 5 Azure reserved addresses)

Route table

None >

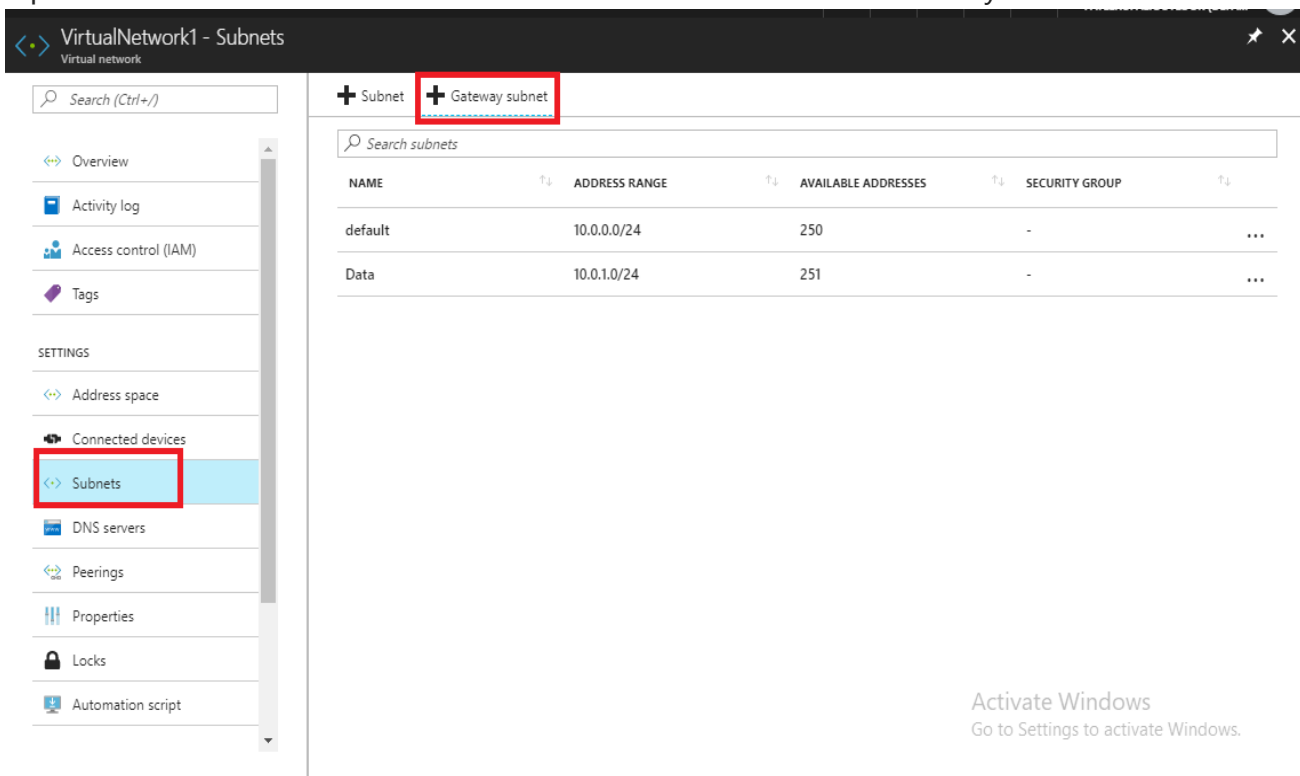
OK

Subnet will be created and list as below, Close the Virtual Network blade.



Step :

Open the VirtualNetwork1 and click on Subnets and click on "+Getway Subnet"



Change only the Address Range as below and click on ok. Subnet will get created. Close it.

Add subnet

VirtualNetwork1

* Name
GatewaySubnet

* Address range (CIDR block) ⓘ
10.0.2.0/29
10.0.2.0 - 10.0.2.255 (251 + 5 Azure reserved addresses)

Route table
None >

OK







Step :

Click on New + Networking + Virtual network gateway

New

Search the Marketplace

Azure Marketplace [See all](#) Featured [See](#)

Get started	 Virtual network Learn more
Compute	 Load Balancer Learn more
Networking	 Virtual network gateway Learn more
Storage	 Local network gateway Learn more
Web + Mobile	 Traffic Manager profile Learn more
Databases	 DNS zone Learn more
Data + Analytics	
AI + Cognitive Services	
Internet of Things	
Enterprise Integration	
Security + Identity	
Developer tools	
Monitoring + Management	
Add-ons	
Containers	

Left sidebar menu:

- New
- Dashboard
- All resources
- Resource groups
- App Services
- Function Apps
- SQL databases
- Azure Cosmos DB
- Virtual machines
- Load balancers
- Storage accounts
- Virtual networks
- Azure Active Directory
- Monitor
- More services >

Fill up the Name field as below:

Create virtual network gateway... [icon] [X]

* Name
MYGW1

Gateway type ⓘ
VPN ExpressRoute

VPN type ⓘ
Route-based Policy-based

* SKU ⓘ
VpnGw1

☐ Enable active-active mode ⓘ

* Virtual network ⓘ
Choose a virtual network

* First IP configuration ⓘ
Create gateway IP configuration

☐ Configure BGP ASN

☐ Pin to dashboard

Create Automation options

Fill up the highlighted field as below:

Create virtual network gateway... [icon] [X]

Standard

☐ Enable active-active mode ⓘ

* Virtual network ⓘ
VirtualNetwork1

* Public IP address ⓘ
(new) MYGW1IP

☐ Configure BGP ASN

* Subscription
BizSpark

Resource group ⓘ
VNETRG1

* Location ⓘ
Southeast Asia

☐ Pin to dashboard

Create Automation options

Create virtual network gateway

SKU

Standard

☐ Enable active-active mode

Virtual network

VirtualNetwork1

Public IP address

Choose a public IP address

☐ Configure BGP ASN

Subscription

BizSpark

Resource group

VNETRG1

Location

Southeast Asia

☐ Pin to dashboard

Create

Automation options

Provisioning a virtual network gateway may take up to 45 minutes.

Choose virtual network

To associate a virtual network with a gateway, it must contain a valid gateway subnet. [Learn more](#)

These are the virtual networks in the selected subscription and location 'Southeast Asia'.

VirtualNetwork1

VNETRG1

VMRmRG-vnet

VMRmRG

Create virtual network gateway

SKU

Standard

☐ Enable active-active mode

Virtual network

VirtualNetwork1

Public IP address

Choose a public IP address

☐ Configure BGP ASN

Subscription

BizSpark

Resource group

VNETRG1

Location

Southeast Asia

☐ Pin to dashboard

Create

Automation options

Provisioning a virtual network gateway may take

Choose public IP address

Dynamic public IP addresses that are not in use won't have an IP address assigned to them.

These are the public IP addresses in the selected subscription and location 'Southeast Asia'.

Create new

VNET1VM-ip

VMRmRG

VNET1VMip988

VMRmRG

13.76.163.241 (D...

Create public IP address

Name

MYGW1IP

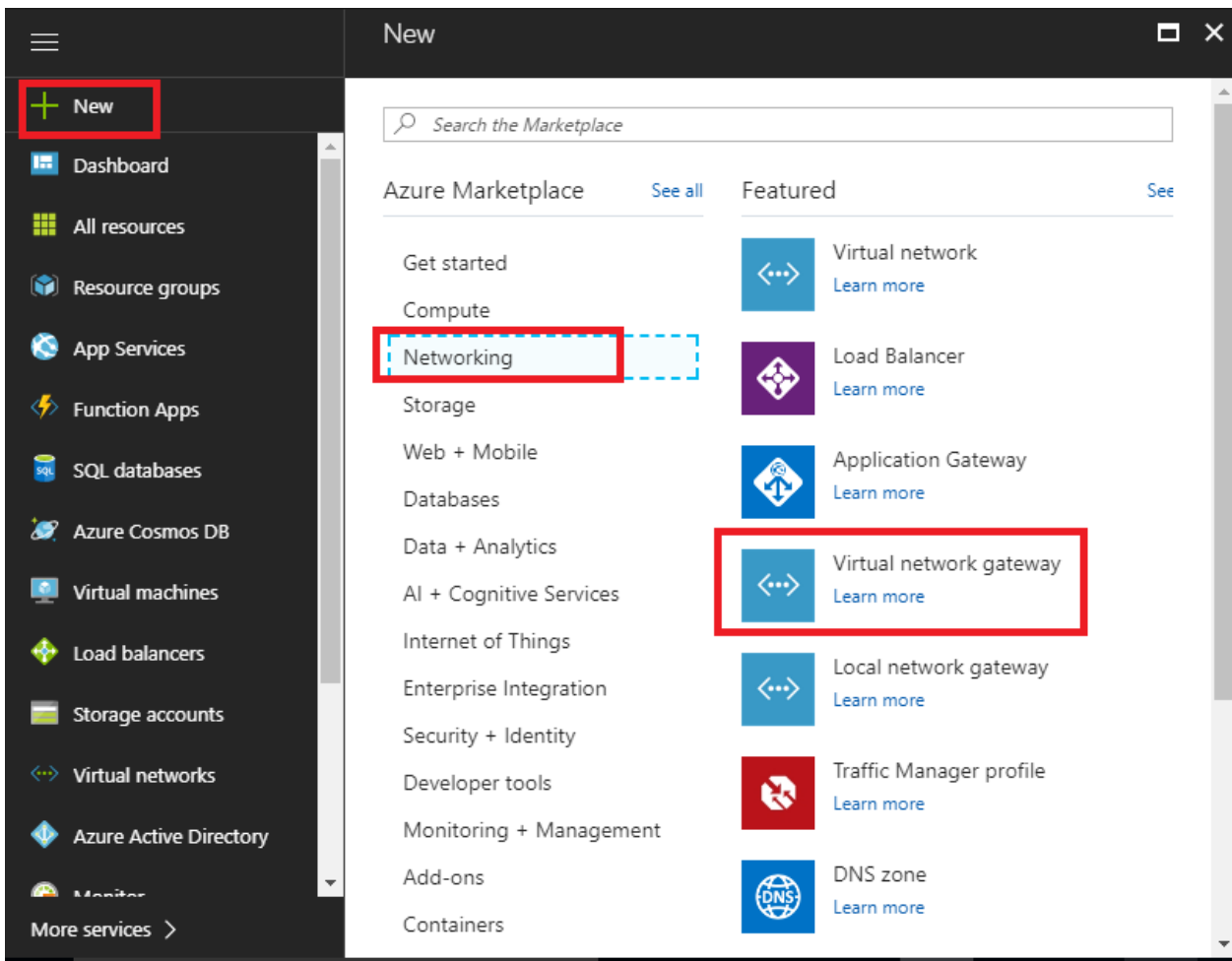
Active

Go to S

OK

Step :



Click on New + Networking + Virtual network gateway





Fill up the name field as below:



The screenshot shows the 'Create virtual network gateway' form. The 'Name' field is filled with 'MYGW2' and has a green checkmark. The 'Gateway type' is set to 'VPN'. The 'VPN type' is set to 'Route-based'. The 'SKU' is set to 'VpnGw1'. The 'Enable active-active mode' checkbox is unchecked. The 'Virtual network' field is set to 'Choose a virtual network'. The 'First IP configuration' field is set to 'Create gateway IP configuration'. The 'Configure BGP ASN' checkbox is unchecked. The 'Pin to dashboard' checkbox is unchecked. The 'Create' button is highlighted in blue.



Select location as below:

Create virtual network gateway...  



VpnGw1 


☐ Enable active-active mode 



* Virtual network  
Choose a virtual network

* First IP configuration  
Create gateway IP configuration

☐ Configure BGP ASN

* Subscription 
BizSpark 



Resource group 
-



* Location 
West India 


☐ Pin to dashboard


[Create](#) [Automation options](#)



Select SKU as below:


Create virtual network gateway...  



* Name 
MYGW2 



Gateway type 
[VPN](#) [ExpressRoute](#)

VPN type 
[Route-based](#) [Policy-based](#)

* SKU 
Standard 

☐ Enable active-active mode 

* Virtual network  
Choose a virtual network

* Public IP address  
Choose a public IP address

☐ Configure BGP ASN

☐ Pin to dashboard

[Create](#) [Automation options](#)

Select Virtual Network as below:

Create virtual network gateway

Route-based Policy-based

* SKU ⓘ
Standard

☐ Enable active-active mode ⓘ

* Virtual network ⓘ
Choose a virtual network

* Public IP address ⓘ
Choose a public IP address

☐ Configure BGP ASN

* Subscription
BizSpark

Resource group ⓘ
-

* Location ⓘ
West India

☐ Pin to dashboard

Create Automation options

Choose virtual network

To associate a virtual network with a gateway, it must contain a valid gateway subnet.
[Learn more](#)

These are the virtual networks in the selected subscription and location 'West India'.

VirtualNetwork2
VNET2RG

VM_RG-vnet
VM_RG

Create new IP Address as below:

Create virtual network gateway

* SKU ⓘ
Standard

☐ Enable active-active mode ⓘ

* Virtual network ⓘ
VirtualNetwork2

* Public IP address ⓘ
Choose a public IP address

☐ Configure BGP ASN

* Subscription
BizSpark

Resource group ⓘ
VNET2RG

* Location ⓘ
West India

☐ Pin to dashboard

Create Automation options

Choose public IP address
Dynamic public IP addresses that are not in use won't have an IP address assigned to them.

These are the public IP addresses in the selected subscription and location 'West India'.

+ Create new

ubuntudemovm-ip
VM_RG 104.211.190.124 ...

Create public IP address

* Name
MYGW2IP

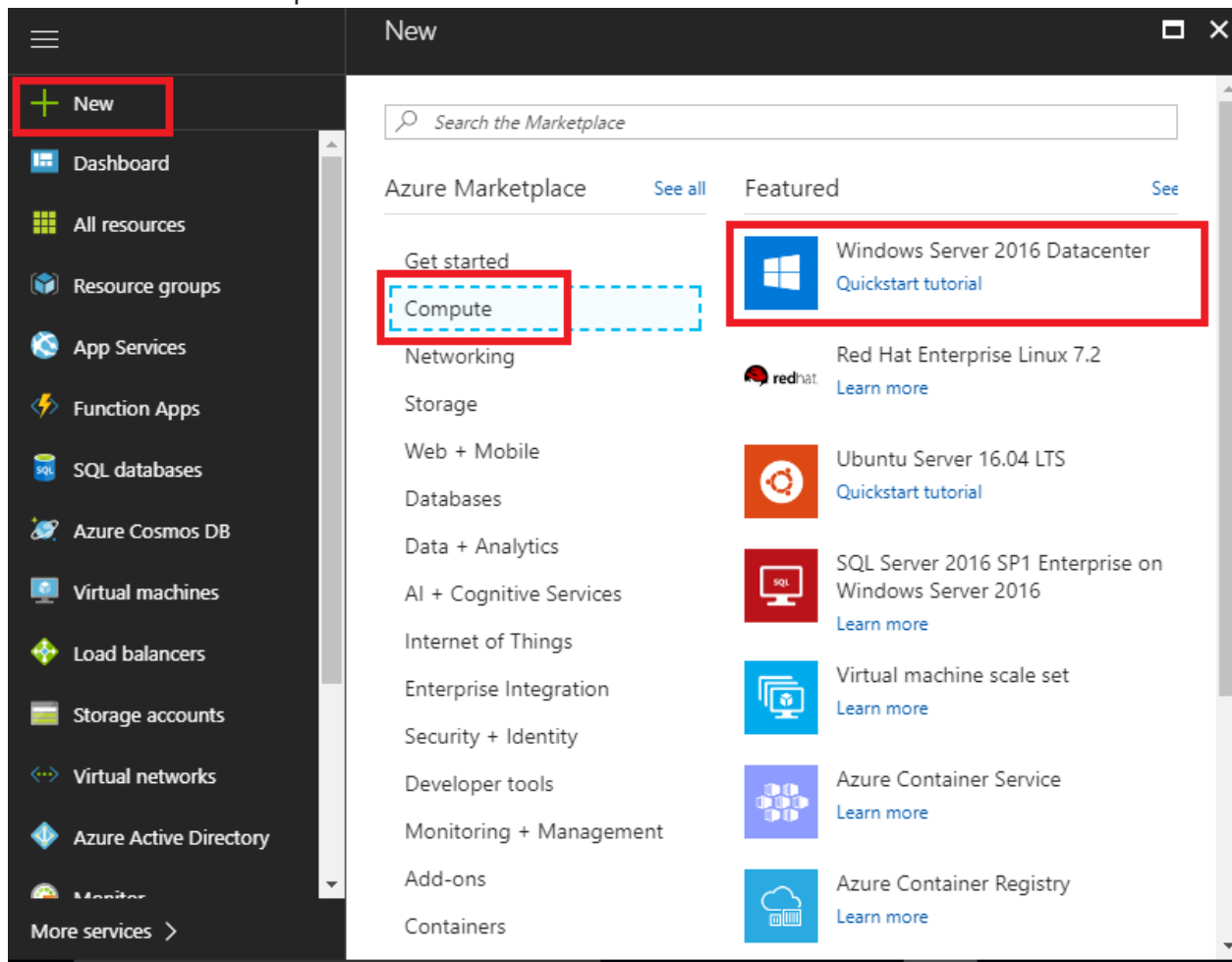
Activ...

OK

After clicking the create button Virtual Network gateway will be created. It takes almost 45 minutes to get created.

Step :

Click on New + Compute + Windows Server 2016 Datacenter.



In Basic blade, Enter details as below:

Create virtual machine

Basics

1 Basics
Configure basic settings

2 Size
Choose virtual machine size

3 Settings
Configure optional features

4 Purchase
Windows Server 2016 Datacent...

* Name

VNET2VM

✓

VM disk type ⓘ

HDD

▼

* User name

demouser

✓

* Password

.....

✓

* Confirm password

.....

✓

Subscription

BizSpark

▼

* Resource group

☐ Create new

☒ Use existing

VMRmRg

▼

* Location

West India

▼

Save money

Save up to 40% with a license you already own.

* Already have a Windows Server license? ⓘ

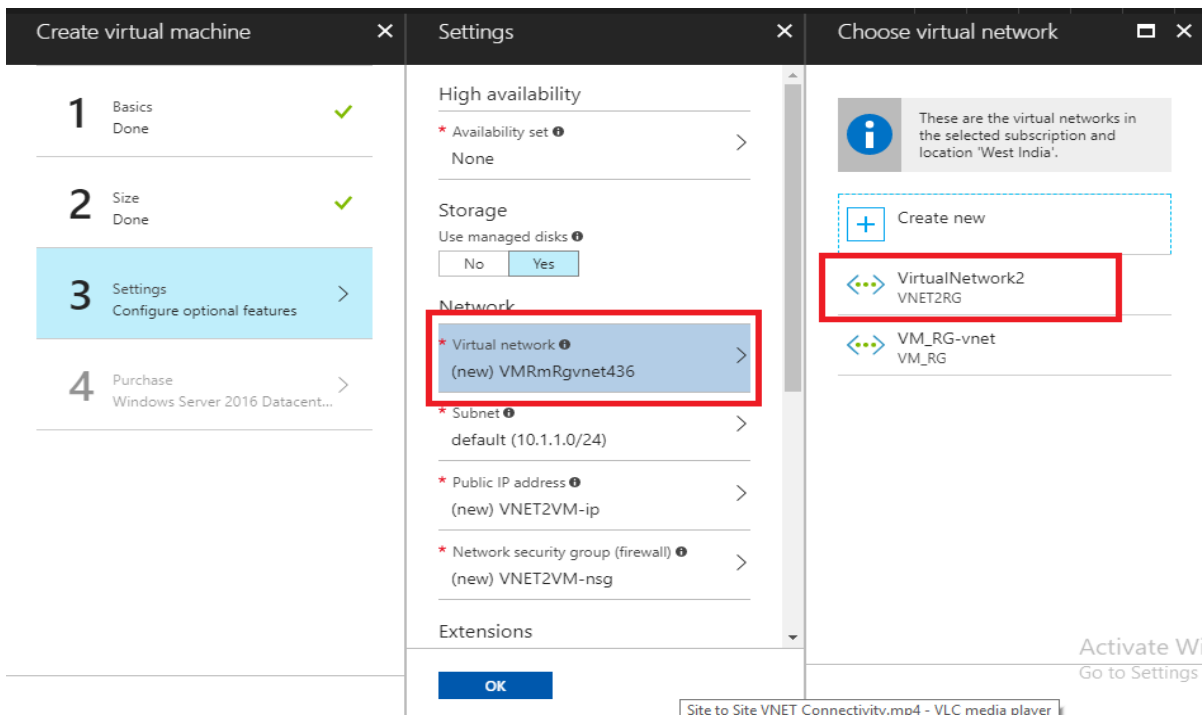
Yes

No

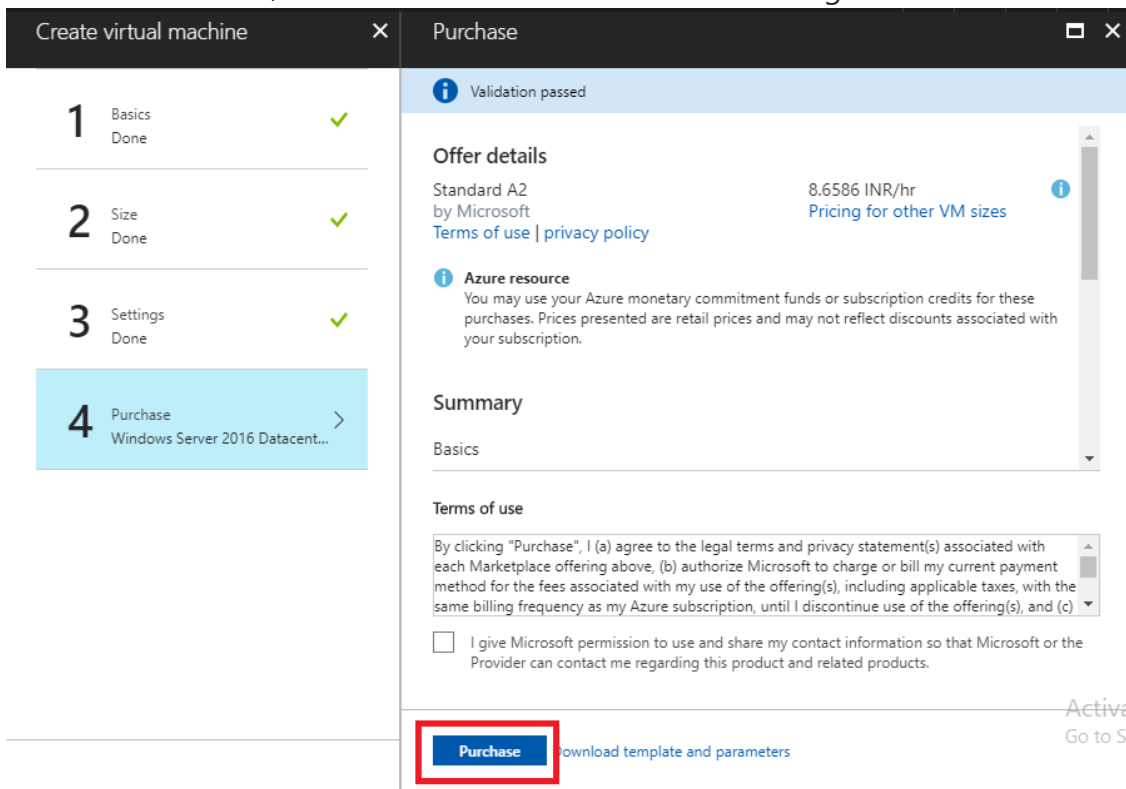
OK

In size blade, Select A2 machine as we already done in earlier steps.

On Settings blade, Click on Virtual network and select as below. Keep everything else as it is and click on OK

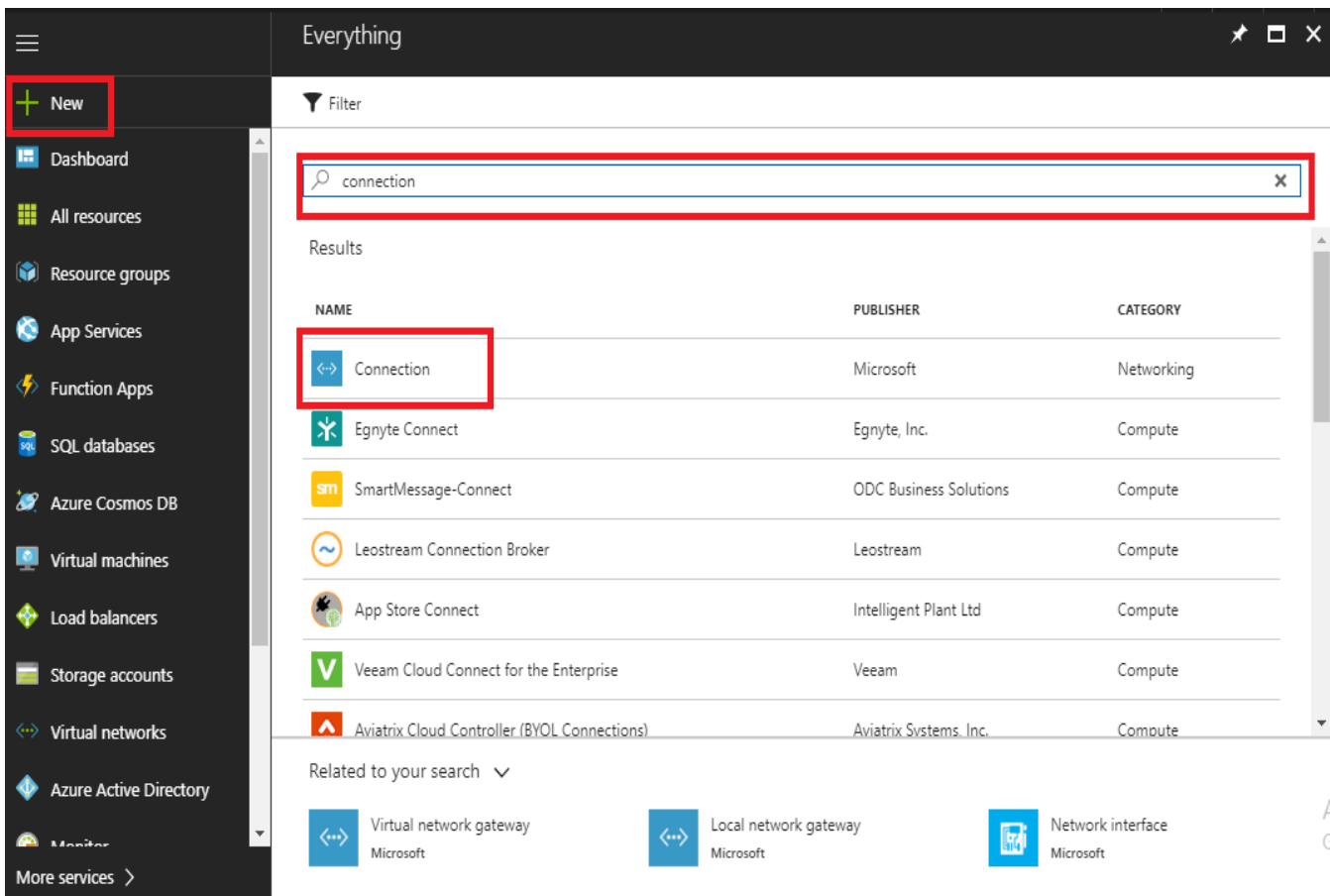


On Purchase blade, Just click on Purchase button. VM will get created. Close it.



Step:

Click on New + type "connection" in the textbox.



The click on Connection.

In the connection blade, just click Create button.

Now in Basic blade, insert the fields as below mentioned and cli on Ok

Create connection

Basics

1 Basics
Configure basic settings

2 Settings
Configure connection settings

3 Summary
Review and create

* Connection type ⓘ
VNet-to-VNet

* Subscription
BizSpark

* Resource group ⓘ
☐ Create new ☒ Use existing
VMRmRg

* Location
West India

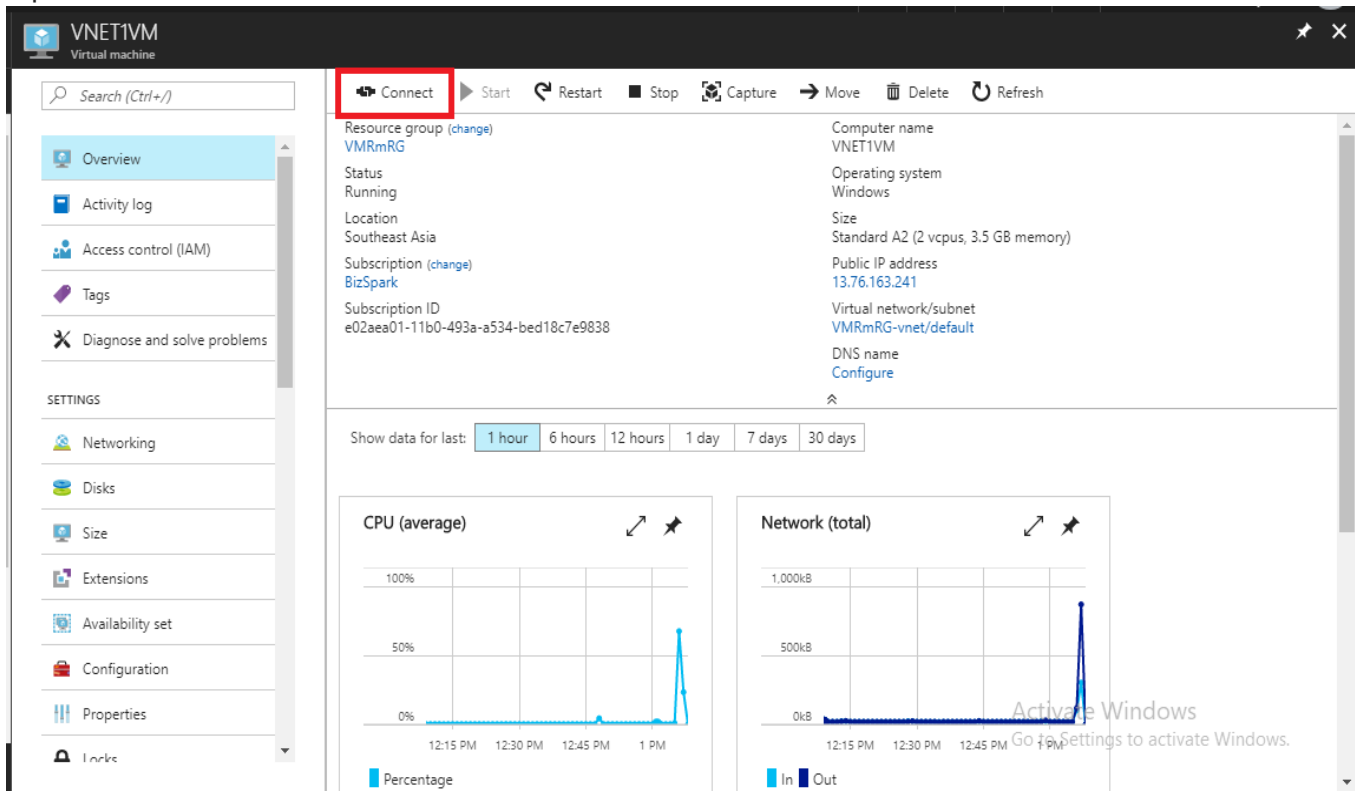
OK

On Settings blade, update the fields as below mentioned. Then click on ok button.

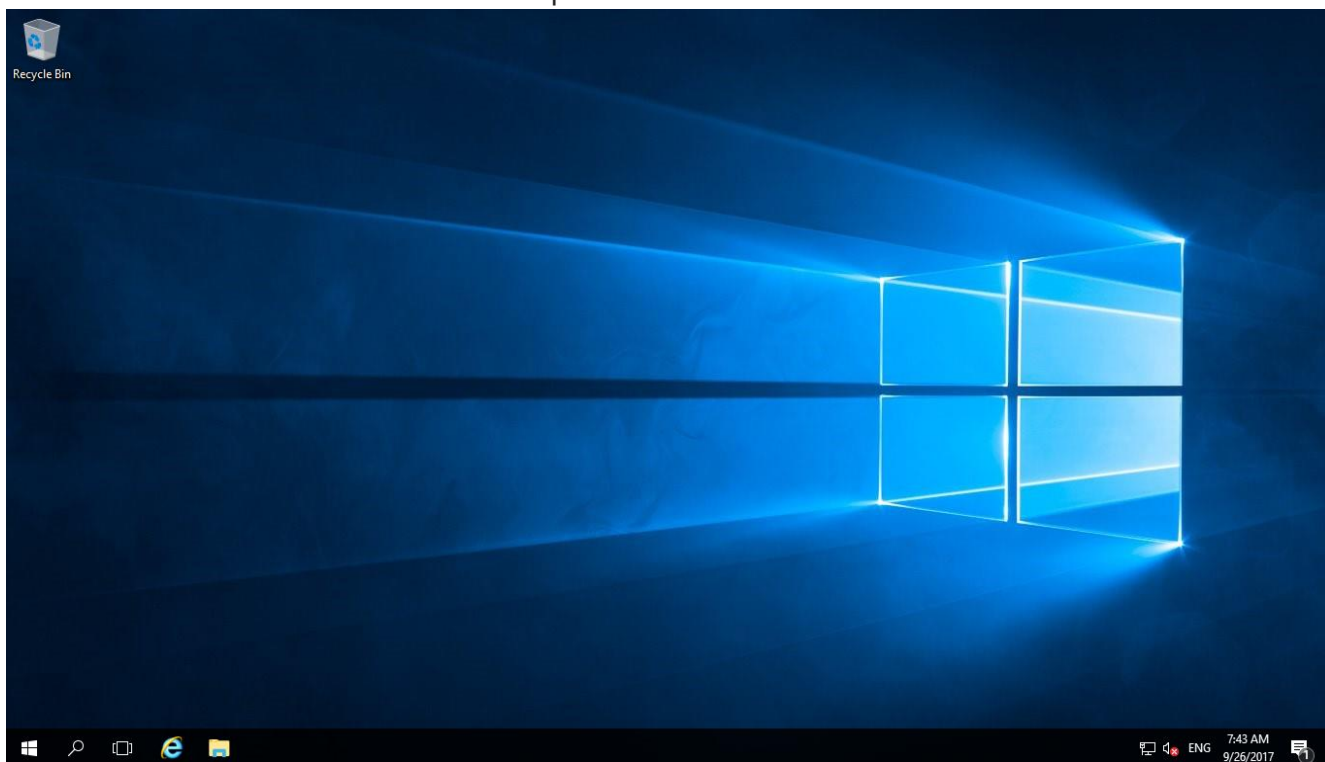
On Summary Blade, Just click on ok button.

Step:

Open the Virtual Machine VNET1VM, Then click on connect button.



A rdp file will be downloaded, open the file. Give username and password which you have given when created the virtual machine. That will open a virtual machine.



Now get the Private IP Address of VNET2VM, By opening it and click on Networking option.

VNET2VM - Networking
Virtual machine

Search (Ctrl+/)

Overview
Activity log
Access control (IAM)
Tags
Diagnose and solve problems

SETTINGS

Networking
Disks
Size
Extensions
Availability set
Configuration
Properties
Links

Detach network interface

Network Interface : vnet2vm768 Effective security rules Topology
Virtual network/subnet : VirtualNetwork2/Apps Public IP 104.211.177.243 Private IP 10.10.0.4

INBOUND PORT RULES

Network security group **VNET2VM-nsg** (attached to network interface: vnet2vm768)
Impacts 0 subnets, 1 network interfaces

Add inbound port rule

PRIORITY	NAME	PORT	PROTOCOL	SOURCE	DESTINATION	ACTION
1000	default-allow-rdp	3389	TCP	Any	Any	Allow
65000	AllowVnetInBound	Any	Any	VirtualNetwork	VirtualNetwork	Allow
65001	AllowAzureLoadBalancerInBo...	Any	Any	AzureLoadBala...	Any	Allow
65500	DenyAllInBound	Any	Any	Any	Any	Deny

OUTBOUND PORT RULES

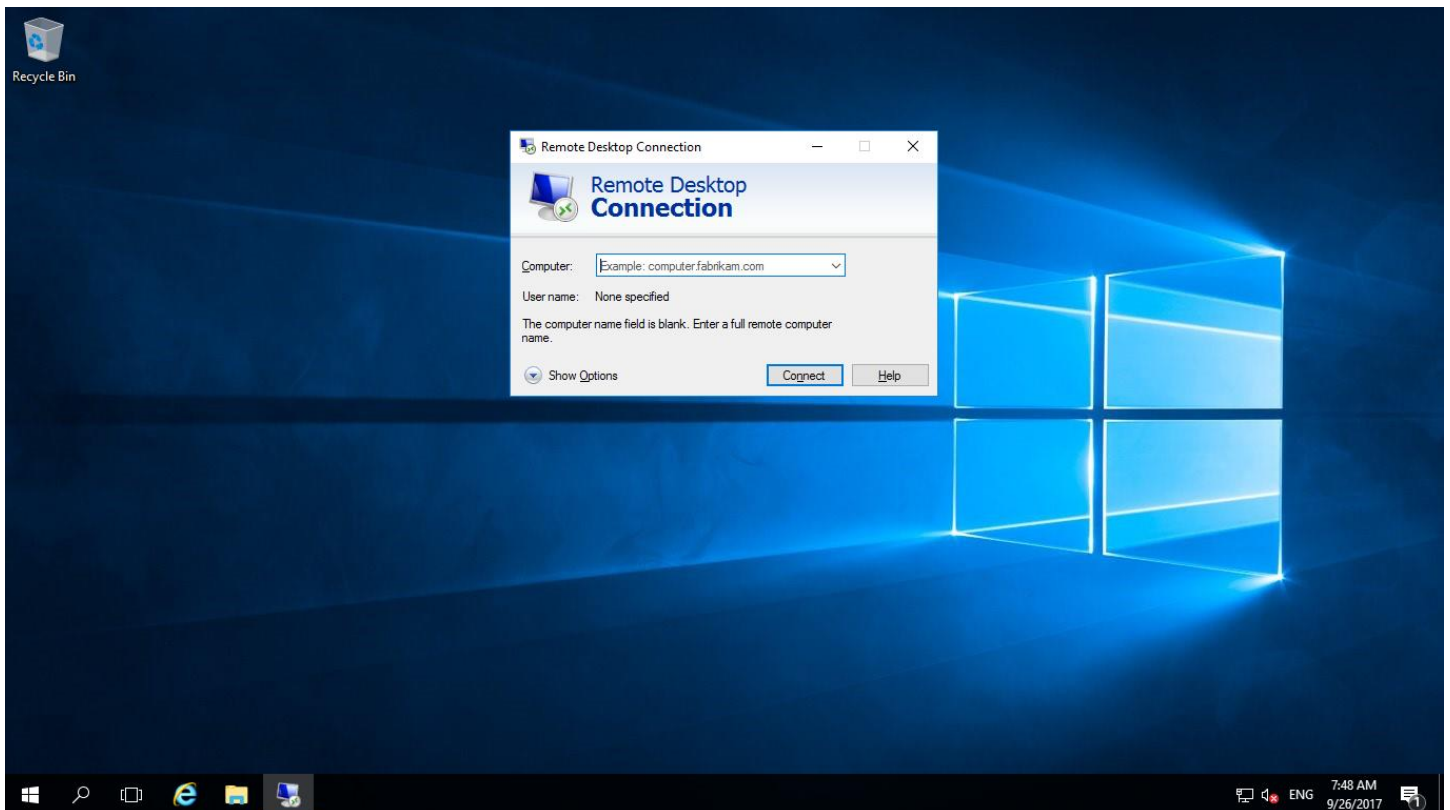
Network security group **VNET2VM-nsg** (attached to network interface: vnet2vm768)
Impacts 0 subnets, 1 network interfaces

Add outbound port rule

PRIORITY	NAME	PORT	PROTOCOL	SOURCE	DESTINATION	ACTION
65000	AllowVnetOutBound	Any	Any	VirtualNetwork	VirtualNetwork	Allow

Activate Windows
Go to Settings to activate Windows.

Now in the VNET1VM machine, Presss Windowkey + R, that will open run command, type "mstsc" and enter.



Enter the Private IP Address of VNET2VM. When prompt input username and password. That will allow you to access VNET2VM from VNET1VM.