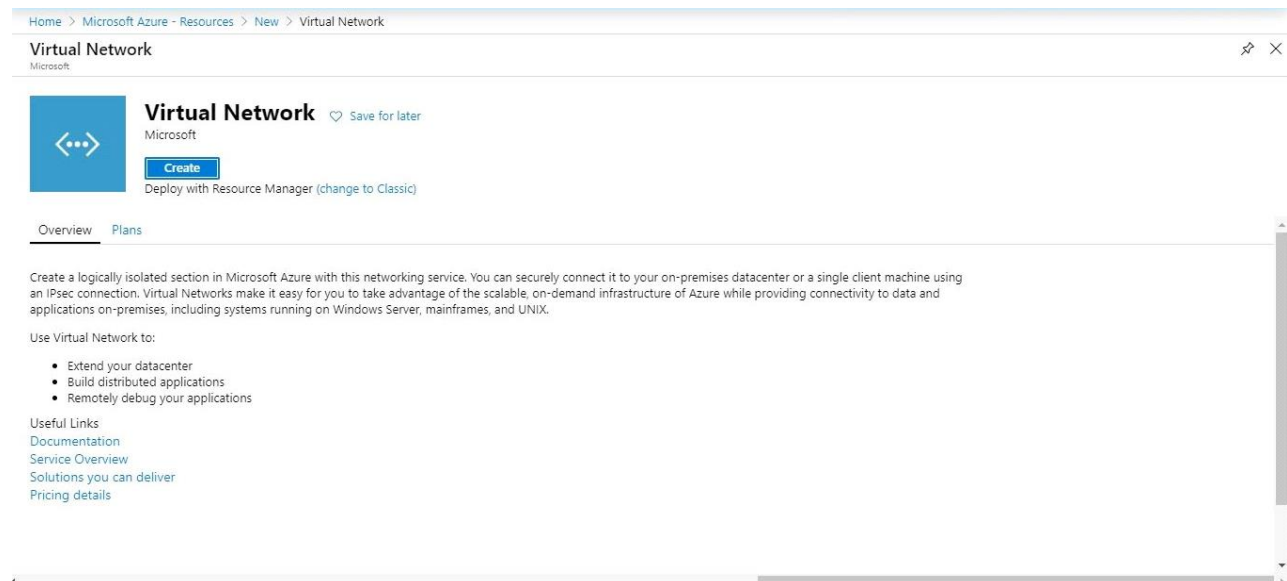# IMPLEMENT AZURE IAAS

Business Scenario

The OSS Corporation is global distributed firm. They have their Headquarter in East US with another branch office in SouthEast Asia. Currently they are working on a project and decided that application tier of this project will reside on one of its branch region. For security reasons OSS Corporation management is adamant on keeping their data tier in the Headquarters region.

AS an organization, they are open for suggestions and are currently evaluating Azure as deployment platform. To prepare for deployment of IaaS Standard DS1 v2, OSS Corporation must deploy an IaaS v2 virtual network in the Headquarters region for its database. But for application it should create another IaaS v2 virtual network in branch region. In addition, because the communication between App and data should happen over private channel you need to prepare their branch office Virtual network for establishing connectivity to the Headquarters IaaS v2 virtual network by creating a virtual network gateway and deploy a test IaaS Standard DS1 v2 VM to the virtual networks for verifying the connection.

After the deployment Team wants to ensure the connectivity between both network so validate the same using Ping.

Create virtual network

□ ✕

Name *

eastus-vnet1 ✓

Address space * ⓘ

10.0.0.0/16 ✓

10.0.0.0 - 10.0.255.255 (65536 addresses)

☐ Add an IPv6 address space ⓘ

Subscription *

Microsoft Azure ⌄

Resource group *

(New) osseastusrg001 ⌄

Create new

Location *

(US) East US ⌄

Subnet

Name *

SN1 ✓

Create   Automation options

Create virtual network

□ ✕

Name *

southeastasia-vnet1 ✓

Address space * ⓘ

192.168.0.0/16 ✓

192.168.0.0 - 192.168.255.255 (65536 add...

☐ Add an IPv6 address space ⓘ

Subscription *

Microsoft Azure ⌄

Resource group *

(New) southeastasia-rg1 ⌄

Create new

Location *

(Asia Pacific) Southeast Asia ⌄

Subnet

Name *

SN1 ✓

Create   Automation options

southeastasia-vnet1
Virtual network

Search (Ctrl+/)

🔄 Refresh → Move 🗑 Delete

Resource group (change)   : southeastasia-rg1 📋
Location   : South India
Subscription (change)   : Microsoft Azure
Subscription ID   : dd6fcd77-406b-4d6f-b7fd-6df3b251bd44
Tags (change)   : Click here to add tags

Address space : 192.168.0.0/16
DNS servers   : Azure provided DNS service

Connected devices

Search connected devices

Device ↑↓	Type ↑↓	IP Address ↑↓	Subnet ↑↓

No results.

Navigation menu (left):
- Overview
- Activity log
- Access control (IAM)
- Tags
- Diagnose and solve problems

Settings
- Address space
- Connected devices
- Subnets
- DDoS protection
- Firewall
- Security
- DNS servers
- Peerings
- Service endpoints

---

eastus-vnet1
Virtual network

Search (Ctrl+/)

🔄 Refresh → Move 🗑 Delete

Resource group (change)   : osseastusrg001
Location   : East US
Subscription (change)   : Microsoft Azure
Subscription ID   : dd6fcd77-406b-4d6f-b7fd-6df3b251bd44
Tags (change)   : Click here to add tags

Address space : 10.0.0.0/16
DNS servers   : Azure provided DNS service

Connected devices

Search connected devices

Device ↑↓	Type ↑↓	IP Address ↑↓	Subnet ↑↓

No results.

Navigation menu (left):
- Overview
- Activity log
- Access control (IAM)
- Tags
- Diagnose and solve problems

Settings
- Address space
- Connected devices
- Subnets
- DDoS protection
- Firewall
- Security
- DNS servers
- Peerings
- Service endpoints

Type here to search

17:52
06-01-2020

eastus-vnet1
Virtual network

Search (Ctrl+/)

⟲ Refresh → Move 🗑 Delete

Resource group (change)	: osseastusrg001	Address space	: 10.0.0.0/16
Location	: East US	DNS servers	: Azure provided DNS service
Subscription (change)	: Microsoft Azure		Rectangular Snip
Subscription ID	: dd6fcd77-406b-4d6f-b7fd-6df3b251bd44		
Tags (change)	: Click here to add tags		

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

Settings
Address space
Connected devices
Subnets
DDoS protection
Firewall
Security
DNS servers
Peerings
Service endpoints

⟲

Connected devices

Search connected devices

Device	↑↓	Type	↑↓	IP Address	↑↓	Subnet	↑↓

No results.

Type here to search   17:52 06-01-2020

---

eastus-vnet1 - Subnets
Virtual network

Search (Ctrl+/)

+ Subnet   + Gateway subnet

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

Settings
Address space
Connected devices
Subnets

Search subnets

Name	↑↓	Address range	↑↓	IPv4 available addresses	↑↓	Delegated to	↑↓	Security group	↑↓
SN1		10.0.0.0/24		251		-		-	•••

EASTUS-VM1
Virtual machine

Search (Ctrl+/) «

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

Settings

- Networking
- Disks
- Size
- Security
- Extensions
- Continuous delivery (Preview)
- Availability + scaling
- Configuration
- Identity

| Connect | Start | Restart | Stop | Capture | Delete | Refresh |

Resource group (change)	: osseastusrg001	
Status	: Running	
Location	: East US	
Subscription (change)	: Microsoft Azure	
Subscription ID	: dd6fcd77-406b-4d6f-b7fd-6df3b251bd44	
Computer name	: EASTUS-VM1	
Operating system	: Windows (Windows Server 2016 Datacenter)	
Size	: Standard B2ms (2 vcpus, 8 GiB memory)	
Tags (change)	: Click here to add tags	

Azure Spot	: N/A
Public IP address	: 52.170.204.128
Private IP address	: 10.0.0.4
Public IP address (IPv6)	: -
Private IP address (IPv6)	: -
Virtual network/subnet	: eastus-vnet1/SN1
DNS name	: Configure
Scale Set	: N/A

Window Snip

Show data for last: 1 hour 6 hours 12 hours 1 day 7 days 30 days

CPU (average)

60%
50%
40%

Network (total)

140MB
120MB
100MB

Virtual networks
Simplilearnb2c4

+ Add   ≡≡ Edit columns   ↻ Refresh   ↓ Export to CSV   ⊘ Assign tags   ♡ Feedback   ⇄ Leave preview

Filter by name...   Subscription == **all**   Resource group == **all** ⊗   Location == **all** ⊗   ⁺⊽ Add filter

Showing 1 to 2 of 2 records.   ☒ Rectangular Snip   No grouping ▽

☐ Name ↑↓	Resource group ↑↓	Location ↑↓	Subscription ↑↓	
☐ ⟨··⟩ eastus-vnet1	osseastusrg001	East US	Microsoft Azure	··
☐ ⟨··⟩ southeastasia-vnet1	southeastasia-rg1	South India	Microsoft Azure	··

< Previous   Page 1 ▽ of 1   Next >

Add peering
eastus-vnet1   ✕

> ⓘ For peering to work, a peering link must be created from eastus-vnet1 to southeastasia-vnet1 as well as from southeastasia-vnet1 to eastus-vnet1.

Name of the peering from eastus-vnet1 to southeastasia-vnet1 *

eastus-southeastasia-peering	✓

Peer details

Virtual network deployment model ⓘ
◉ Resource manager   ○ Classic

☐ I know my resource ID ⓘ

Subscription * ⓘ

Microsoft Azure ▽

Virtual network *

southeastasia-vnet1 (southeastasia-rg1) ▽

Name of the peering from southeastasia-vnet1 to eastus-vnet1 *

southeastasia-eastus-peering	✓

OK

eastus-southeastasia-peering
eastus-vnet1

💾 Save ✕ Discard 🗑 Delete

Name of the peering from eastus-vnet1 to southeastasia-vnet1
eastus-southeastasia-peering

Peering status
Connected

Provisioning state
Succeeded

Peer details
Address space
192.168.0.0/16

Remote Vnet Id
/subscriptions/dd6fcd77-406b-4d6f-b7fd-6df3b251bd44/resourceGroups/southeastasia-rg1/pro... 📋

Virtual network
southeastasia-vnet1

Configuration
Configure virtual network access settings
Allow virtual network access from eastus-vnet1 to southeastasia-vnet1 ⓘ

Disabled | Enabled

Configure forwarded traffic settings