

1. What is the different type of services offered in the cloud?

PaaS

IaaS

SaaS

All of these

2. What are the different cloud deployment models?

Private Cloud

Public Cloud

Hybrid Cloud

All the above mentioned

3. Which of the following element in Azure stands for management service?

Application

Config

Virtual machines

None of These

4. Which service in Azure is used to manage resources in Azure?

Azure Resource Manager

Application Insights

Log Analytics

Azure Portal

5. Do scale sets work with Azure availability sets?

No

Yes

Not Sure

6. Is it possible to add an existing VM to an availability set?

Yes

No

Not Sure

7. What are special Azure Regions?

US Gov Virginia and US Gov Iowa

China East and China North

Germany Central and Germany Northeast

All of these

8. Customers Should Deploy Azure Resources To Multiple Regions To Ensure cost reduction.

availability.

scalability.

9. Which Of The Following Azure Cloud Services Offers Serverless Capabilities?

Azure Functions

Azure App Service

Azure Kubernetes Service (AKS)

All of the above

10. What Is SKU In Azure Cloud?

Software Kernel Unit

Stock Keeping Utility

Software Keeping Unit

Stock Keeping Unit

1. Create Virtual network named as Virtue(range 57.80.0.0/16) and having subnet name as duck(57.80.137.0/24).

The screenshot shows the Azure portal interface for a virtual network named 'virtue'. The left sidebar contains navigation options: Overview, Activity log, Access control (IAM), Tags, Diagnose and solve problems, Settings, Address space, and Connected devices. The main area displays the 'Essentials' section with the following details:

- Resource group: bird
- Location: Southeast Asia
- Subscription: (Move) Free Trial
- Subscription ID: c849bc3a-69a2-4f14-92ac-ce1817abc7e1
- Tags: (Edit) Click here to add tags
- Address space: 57.80.0.0/16
- DNS servers: Azure provided DNS service

Below the essentials, a table lists the subnets:

Name	Address space	Subnet mask	IP range	Gateway
duck	57.80.137.0/24	-	251	-

2. Create 3 virtual machines one Linux(centos/ubuntu) and 2 windows, add them in duck subnet and check availability with ping command.

The screenshot shows the Azure portal interface for virtual machines. The left sidebar contains navigation options: Create, Switch to classic, Filter for any field..., Name, linux, window1, and window2. The main area displays the 'Virtual machines' section with a table listing the VMs:

Name	Subscription	Resource group	Location	Status	Operating system	Size	Public IP address	Disks
linux	Free Trial	bird	Southeast Asia	Running	Linux	Standard_B2ms	52.237.118.61	1
window1	Free Trial	bird	Southeast Asia	Running	Windows	Standard_B1s	52.237.118.160	1
window2	Free Trial	bird	Southeast Asia	Running	Windows	Standard_B1s	20.205.204.50	1

Below the table, the 'Virtual machines' section is expanded, showing the 'window1' VM. The 'Run command' option is selected, and a PowerShell script is being executed:

```
Script execution complete

PowerShell Script
1 ping 20.205.204.50

Run

Output

Pinging 20.205.204.50 with 32 bytes of data:
Request timed out.
Request timed out.
Request timed out.
Request timed out.

Ping statistics for 20.205.204.50:
    Packets: Sent = 4, Received = 0, Lost = 4 (100% loss),
```

### Virtual machines

DXC Production (CSCPortal.onmicrosoft.com)

+ Create   Switch to classic

Filter for any field...

Name	
linux	...
window1	...
window2	...

### window2 | Run command

Virtual machine

Search (Ctrl+/)

Operations

- Bastion
- Auto-shutdown
- Backup
- Disaster recovery
- Guest + host updates
- Inventory
- Change tracking
- Configuration management (Preview)
- Policies
- Run command

Monitoring

- Insights
- Alerts
- Metrics
- Dagnostic settings
- Logs
- Connection monitor (classic)

Run Command recovery, and

Name

- RunPowerSh
- DisableNLA
- DisableWind
- EnableAdmini
- EnableEMS
- EnableRemo
- EnableWind
- IPConfig
- RDPSettings
- ResetRDPCe
- SetRDPPort

RunPowerShellScript

Script execution complete

PowerShell Script

```
1 ping 52.237.118.160
```

Run

Output

```
Pinging 52.237.118.160 with 32 bytes of data:
Request timed out.
Request timed out.
Request timed out.
Request timed out.

Ping statistics for 52.237.118.160:
    Packets: Sent = 4, Received = 0, Lost = 4 (100% loss),
```

### Virtual machines

DXC Production (CSCPortal.onmicrosoft.com)

+ Create   Switch to classic

Filter for any field...

Name	
linux	...
window1	...
window2	...

### window2 | Run command

Virtual machine

Search (Ctrl+/)

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- Auto-shutdown
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- EnableWind
- IPConfig
- RDPSettings
- ResetRDPCe
- SetRDPPort

RunPowerShellScript

Script execution complete

PowerShell Script

```
1 ping 52.237.118.61
```

Run

Output

```
Pinging 52.237.118.61 with 32 bytes of data:
Request timed out.
Request timed out.
Request timed out.
Request timed out.

Ping statistics for 52.237.118.61:
    Packets: Sent = 4, Received = 0, Lost = 4 (100% loss),
```

### 3. Create virtual network gateway for Virtue.

### virtue | Subnets

Virtual network

Search (Ctrl+/)

+ Subnet   + Gateway subnet   Refresh   Manage users   Delete

Search subnets

Name	IPv4	IPv6	Available IPs	Delegated to	Security group	Route table	
duck	57.80.137.0/24	-	248	-	-	-	...
GatewaySubnet	57.80.255.0/24	-	availability dependent on ...	-	-	-	...

gateway   virtue   Vpn   bird   Southeast Asia   Free Trial   ...

Overview

Activity log

Access control (IAM)

Tags

Diagnose and solve problems

Home > **virtue** Virtual network

Search (Ctrl+/) Refresh Move Delete Give feedback

**Overview**

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

**Settings**

Address space Connected devices Subnets DDoS protection Firewall Security

**Essentials**

Resource group (Move) : [bird](#) Address space : 57.80.0.0/16  
 Location : Southeast Asia DNS servers : Azure provided DNS service  
 Subscription (Move) : [Free Trial](#)  
 Subscription ID : c849bc3a-69a2-4f14-92ac-ce1817abc7e1  
 Tags (Edit) : [Click here to add tags](#)

Connected devices

Search connected devices

Device ↑↓	Type ↑↓	IP Address ↑↓	Subnet ↑↓
linux592	Network interface	57.80.137.4	duck
window1745	Network interface	57.80.137.5	duck
window2185	Network interface	57.80.137.6	duck
gateway	Virtual network gateway	-	GatewaySubnet

- Add extra NIC to both windows machine and create a public ip for that them.

nic1595 nic\_1

IP configuration ⓘ

NIC

**Network Interface: nic\_1** [Effective security rules](#) [Troubleshoot VM connection issues](#) [Topology](#)  
 Virtual network/subnet: [nic-vnet/default](#) NIC Public IP: **20.212.112.186** NIC Private IP: **10.0.0.8** Accelerated networking: **Disabled**

Inbound port rules Outbound port rules Application security groups Load balancing

Network security group [basicNsgnic\\_1](#) (attached to network interface: [nic\\_1](#))  
 Impacts 0 subnets, 1 network interfaces

[Add inbound port rule](#)

Priority	Name	Port	Protocol	Source	Destination
65000	AllowVnetInBound	Any	Any	VirtualNetwork	VirtualNetwork
65001	AllowAzureLoadBalancerInBou...	Any	Any	AzureLoadBalancer	Any
65500	DenyAllInBound	Any	Any	Any	Any

nic2164 nic2

IP configuration ⓘ

NIC1

**Network Interface: nic2** [Effective security rules](#) [Troubleshoot VM connection issues](#) [Topology](#)  
 Virtual network/subnet: [nic-vnet/default](#) NIC Public IP: **20.212.2.35** NIC Private IP: **10.0.0.9** Accelerated networking: **Disabled**

Inbound port rules Outbound port rules Application security groups Load balancing

Network security group [basicNsgnic2](#) (attached to network interface: [nic2](#))  
 Impacts 0 subnets, 1 network interfaces

[Add inbound port rule](#)

Priority	Name	Port	Protocol	Source	Destination
65000	AllowVnetInBound	Any	Any	VirtualNetwork	VirtualNetwork
65001	AllowAzureLoadBalancerInBou...	Any	Any	AzureLoadBalancer	Any
65500	DenyAllInBound	Any	Any	Any	Any

- Create new virtual network named as Mario, and create peering with Virtual Network(Virtue).

mario | Peerings

Virtual network

Search (Ctrl+ /)

«

+ Add

Refresh

Sync

Overview

Activity log

Access control (IAM)

Tags

Diagnose and solve problems

Filter by name...

Peering status == all

<input type="checkbox"/> Name ↑↓	Peering status ↑↓	Peer ↑↓	Gateway transit ↑↓	
<input type="checkbox"/> bird_peer	Connected	virtue	Disabled	...

virtue | Peerings

Virtual network

Search (Ctrl+ /)

«

+ Add

Refresh

Sync

Overview

Activity log

Access control (IAM)

Tags

Diagnose and solve problems

Filter by name...

Peering status == all

<input type="checkbox"/> Name ↑↓	Peering status ↑↓	Peer ↑↓	Gateway transit ↑↓	
<input type="checkbox"/> bird_peering	Connected	mario	Disabled	...

6. Create dynamic routing table and add to any created subnet.

mario | Subnets

Virtual network

Search (Ctrl+ /)

«

+ Subnet

+ Gateway subnet

Refresh

Manage users

Delete

Overview

Activity log

Access control (IAM)

Tags

Diagnose and solve problems

Search subnets

Name ↑↓	IPv4 ↑↓	IPv6 ↑↓	Available IPs ↑↓	Delegated to ↑↓	Security group ↑↓	Route table ↑↓	
default	10.0.0.0/24	-	251	-	-	-	...
sub_route	10.0.255.0/24	-	251	-	-	virtue_route	...