**Azure Fundamental Questions:**

1. Which of the following items did Azure Resource Manager introduce?

**SELECT THE CORRECT ANSWER**

Top of Form

Tags

Template-based deployment

Role-based access control (RBAC)

All of the above

Bottom of Form

Correct Option:D

**EXPLANATION**

ANSWER: (D) Azure Resource Manager introduced the concept of resource groups, and made it possible for you to tag these groups, resources, and delegate administrative access via Role-Based Access Control (RBAC). The Web portal and Windows PowerShell-based management were available in the Service Management (classic) model. They are available in both management models. However, the portal interface has changed considerably.

1. Azure Virtual Machines only support VMs running Microsoft Windows operating system.

**SELECT THE CORRECT ANSWER**

Top of Form

True

False

Bottom of Form

Correct Option:B

**EXPLANATION**

ANSWER: (B) You can run recent versions of Windows Server, as well as a variety of Linux distributions.

1. You are planning on creating a new Azure SQL Database on an existing SQL Server by using Azure portal. What settings can you configure for the new database? Select all that apply.

**SELECT THE CORRECT ANSWER(S)**

Top of Form

Pricing tier

Collation

Resource group

Sign in name and password

Firewall rule for allowing Azure services to access the database

Bottom of Form

Correct Option:A, B

**EXPLANATION**

ANSWER: (A) and (B) Both pricing tier and collation are available as choices when deploying Azure SQL Database into an existing SQL Server. However, resource group and credentials are part of the SQL Server configuration. While it is possible to configure database level firewall rules, this option is not available when deploying a new database via Azure portal.

1. Which of the following features does the Azure SQL Database service support? Select all that apply.

**SELECT THE CORRECT ANSWER(S)**

Top of Form

SQL Server Profiler

Distributed transactions

Windows authentication

Azure Active Directory Authentication

SQL Server authentication

Bottom of Form

Correct Option:B, D, E

**EXPLANATION**

ANSWER: (B), (D), and (E) Azure SQL Database supports SQL Server authentication and, starting with V12, also Azure Active Directory authentication. Its most recent version also supports distributed transactions, which is in preview at the time of writing of this content. However, there is no support for SQL Server Profiler or Windows authentication

1. What methods or tools could you use to implement database firewall rules for an Azure SQL Database? Select all that apply.

**SELECT THE CORRECT ANSWER(S)**

Top of Form

Azure PowerShell

SQL Server Management Studio

SQLCMD

Azure portal

SQL Server Configuration Manager

Bottom of Form

Correct Option:A, B, C

**EXPLANATION**

ANSWER: (A), (B), and (C) Configuration of Azure SQL Database firewall rules is possible by using Azure PowerShell, SQL Server Management Studio, and SQLCMD. The Azure portal an

1. Web Deploy is the only mechanism for deploying web applications to Websites.

**SELECT THE CORRECT ANSWER**

Top of Form

False

True

Bottom of Form

Correct Option:A

**EXPLANATION**

ANSWER: (A) Deploying your app to App Service is a matter of deploying your code, binaries, content files, and their respective directory structure to the /site/wwwroot directory in Azure (or the /site/wwwroot/App\_Data/Jobs/ directory for WebJobs). App Service supports three different deployment processes - FTP or FTPS, Kudu (Git/Mercurial or OneDrive/Dropbox), Web Deploy.

1. Azure SDK is available for which development platforms?

**SELECT THE CORRECT ANSWER**

Top of Form

Microsoft .NET

Java

Node.js

Python

Ruby

PHP

All of the Above

Bottom of Form

Correct Option:G

**EXPLANATION**

ANSWER: (G) The Azure SDK is available for several development platforms, including Microsoft, NET, Java, Node.js, Python, Ruby, and PHP. You can download the most recent version of the SDK for each of them from the Azure Downloads page.

1. For Internet-facing VMs to qualify for a 99.95 percent external connectivity service level agreement (SLA), should they be part of the same availability set?

**SELECT THE CORRECT ANSWER**

Top of Form

Yes

No

Bottom of Form

Correct Option:A

**EXPLANATION**

ANSWER: (A) For Internet-facing VMs to qualify for a 99.95 percent external connectivity service level agreement (SLA), they must be part of the same availability set (with two or more VMs per set)

1. Which are the components of Azure App Service?

**SELECT THE CORRECT ANSWER**

Top of Form

Web Apps

Mobile Apps

API Apps

Logic Apps

All of the Above

Bottom of Form

Correct Option:E

**EXPLANATION**

ANSWER: (E) Web Apps - For developing, configuring, hosting, and managing web apps. Mobile Apps - For developing, configuring, hosting, and managing mobile apps. API Apps - For developing, hosting, and consuming web-based APIs. Logic Apps - For implementing cloud-based, event-triggered workflows that integrate distinct Software as a Service (SaaS) apps (with minimal or no programming).

1. Overlapping address spaces with on-premises will prevent you from connecting these networks together if you want to do so later.

**SELECT THE CORRECT ANSWER**

Top of Form

Yes

No

Bottom of Form

Correct Option:A

**EXPLANATION**

ANSWER: (A) You should avoid overlapping address spaces across your Azure virtual networks and your on-premises networks. Overlapping address spaces will prevent you from connecting these networks together if you want to do so later.

1. You have successfully authenticated and connected to your Azure subscription in an Azure CLI session. Which Azure CLI command should you run if you want to manage Azure Resource Manager resources?

**SELECT THE CORRECT ANSWER**

Top of Form

azure config mode arm

azure config mode asm

azure login

azure account list

azure account set

Bottom of Form

Correct Option:A

**EXPLANATION**

ANSWER: (A) You should use the azure config mode arm command. This allows you to switch from the default classic deployment mode to the Azure Resource Manager mode. You use the second command, azure config mode asm, to switch back to the classic deployment mode. You use azure login to authenticate. You use the last two commands, azure account list and azure account set, to list and set the target Azure subscription, which is already configured per the question.

1. What type of connection can you establish to the VM in Azure by default?

**SELECT THE CORRECT ANSWER(S)**

Top of Form

RDP

SSH

HTTP

HTTPs

Bottom of Form

Correct Option:A, B

**EXPLANATION**

ANSWER: (A) and (B) You can establish an RDP connection to Windows-based VMs and a Secure Shell (SSH) connection to Linux-based VMs.

1. What is Queue storage used for?

**SELECT THE CORRECT ANSWER**

Top of Form

Passing messages between applications or between components of the same application

Graceful handling of bursts in data flow and intermittent communication failures

Implementing workflows

All of the above

Bottom of Form

Correct Option:D

**EXPLANATION**

ANSWER: (D) Azure Queue storage provides cloud messaging between application components. Queue storage delivers asynchronous messaging for communication between application components, whether they are running in the cloud, on the desktop, on an on-premises server, or on a mobile device. Queue storage also supports managing asynchronous tasks and building process work flows.

1. By default, how many slots are available under Azure Cloud Service?

**SELECT THE CORRECT ANSWER**

Top of Form

0

1

2

5

Bottom of Form

Correct Option:C

**EXPLANATION**

ANSWER: (C) Deployment environments-For cloud services, Azure offers two deployment environments, which are functionally equivalent to the web app staging slots. A staging environment-an environment in which you can test your deployment before you promote it to the production environment. In this environment, the value of the Globally Unique Identifier (GUID) property of the cloud service identifies its URL (http://<GUID>.cloudapp.net). A production environment-the production environment hosts the version of the application intended for its end users. Its URL is based on the DNS prefix that is assigned to your cloud service during its creation, such as myservice.cloudapp.net.

1. Does Microsoft Azure log any trails of user actions?

**SELECT THE CORRECT ANSWER**

Top of Form

Yes

No

Bottom of Form

Correct Option:A

**EXPLANATION**

ANSWER: (A) Audit logs are used to log all interactions.

1. Which of the following is a tool in Azure to templatize the infrastructure?

**SELECT THE CORRECT ANSWER**

Top of Form

Azure Graph API

ARM Template

PowerShell

Automation

Bottom of Form

Correct Option:B

**EXPLANATION**

ANSWER: (B) Azure Resource Manager allows you to provision your applications using a declarative template. In a single template, you can deploy multiple services along with their dependencies. You use the same template to repeatedly deploy your application during every stage of the application lifecycle.

1. While configuring a Virtual Machine to use a Virtual Network, when do the Virtual Network need to be specified?

**SELECT THE CORRECT ANSWER**

Top of Form

Any time after the Virtual Machine has been created

At the time the Virtual Machine is created

All of the above

Bottom of Form

Correct Option:B

**EXPLANATION**

ANSWER: (B) While configuring the virtual machine with virtual network, it should ideally be done when Machine is being created.

1. What is the smallest subnet that you can implement in an Azure virtual network?

**SELECT THE CORRECT ANSWER**

Top of Form

/24

/26

/29

/30

/31

Bottom of Form

Correct Option:C

**EXPLANATION**

ANSWER: (C) There are five IP addresses on each subnet that Azure platform reserves for its internal use. The smallest subnet you can implement is /29.

1. Will you be able to successfully ping the two virtual machines on the virtual network?

**SELECT THE CORRECT ANSWER**

Top of Form

Yes

No

Bottom of Form

Correct Option:B

**EXPLANATION**

ANSWER: (B) Ping functionality relies on the Internet Control Message Protocol (ICMP), which by default is blocked by Windows Firewall on each of the two Azure virtual machines.

1. If you decide to implement some of your services on the Azure platform, would you need to create Azure virtual networks?

**SELECT THE CORRECT ANSWER**

Top of Form

You must create virtual networks when deploying Azure virtual machines

The Web Apps feature of Azure App Service also supports integration with the Azure virtual networks to facilitate direct connectivity to Azure virtual machines

Services such as Azure SQL Database or Azure Active Directory do not depend on virtual networks

All of the above

Bottom of Form

Correct Option:D

**EXPLANATION**

ANSWER: (D) Azure VMs have the prerequisite to create a virtual network, other that Azure web app no PaaS service in Azure offers integration with virtual network.

1. How will your organization use Azure SQL Database?

**SELECT THE CORRECT ANSWER**

Top of Form

To store data for Azure Web apps, PaaS cloud services, and applications running in Azure IaaS virtual machines.

To store data for Azure Mobile apps.

To migrate databases from a SQL Server instance hosted in an Azure virtual machine

To migrate data from SQL Server on-premises

All of the above

Bottom of Form

Correct Option:E

**EXPLANATION**

ANSWER: (E) Azure SQL database can be used as backend for App Service, Cloud Services, and Applications running under VM. It can work as a replacement for SQL server installed on VM or On-Premise

1. You must configure a SQL Server firewall rule to allow incoming connections from the IP address range containing the public IP address of your lab computer.

**SELECT THE CORRECT ANSWER**

Top of Form

True

False

Bottom of Form

Correct Option:A

**EXPLANATION**

ANSWER: (A)To help protect your data, firewalls prevent all access to your database server until you specify which computers have permission. The firewall grants access to databases based on the originating IP address of each request. To configure your firewall, you create firewall rules that specify ranges of acceptable IP addresses. You can create firewall rules at the server and database levels

1. You are planning to move streaming media content to Windows Azure Storage. You need to recommend an approach for providing worldwide users the fastest possible access to the content.

**SELECT THE CORRECT ANSWER(S)**

Top of Form

Use Windows Azure block blob storage

Use Azure block blob storage for delivery

Use Azure page blob storage for delivery

Use the Windows Azure Content Delivery Network (CDN)

Bottom of Form

Correct Option:A, D

**EXPLANATION**

ANSWER: (A) and (D) Azure storage, with its cheap offering of Azure blobs, allows you to store large volume of data. In case your application is targeted for global audience, this storage blob should be front ended with CDN for better performance and reduced latency.

1. What role should you assign to a user account in the Azure AD directory instance to enable the user to fully manage all of its objects?

**SELECT THE CORRECT ANSWER**

Top of Form

Billing Admin

Global Admin

Both

Bottom of Form

Correct Option:B

**EXPLANATION**

ANSWER: (B) The Global Admin role grants full control of the Azure AD tenant where this role exists. Note that this role does not grant any access rights to Azure subscription resources.

1. Azure Multi-Factor Authentication adds a second level of authentication, what are the possible ways to enable that?

**SELECT THE CORRECT ANSWER**

Top of Form

Text message

Phone call

Mobile app

All of the above

Bottom of Form

Correct Option:D

**EXPLANATION**

ANSWER: (D) Microsoft Azure Multi-Factor Authentication adds an extra level of authentication, requiring users to use a text message, a call to an office, a mobile phone, or a smart phone app.

1. How will your organization use Azure AD?

**SELECT THE CORRECT ANSWER**

Top of Form

To secure access to Azure-based services.

To delegate management of Azure-based services.

To enhance authentication security by leveraging Multi-Factor Authentication.

To provide SSO functionality for access to SaaS applications.

All of the above

Bottom of Form

Correct Option:E

**EXPLANATION**

ANSWER: (E) As an identity and access management solution, Azure AD provides a range of features that integrate with other cloud and on-premises services. Leveraging Azure AD to authenticate Azure web apps, Azure PaaS cloud services, and web applications running in Azure virtual machines is easy. Similarly, you can delegate management of Azure AD resources that are accessible via the Azure Portal by using Role-Based Access Control (RBAC). You can also use Azure AD accounts when designating co-administrators of a subscription. Azure AD offers additional authentication enhancements, including Multi-Factor Authentication and SSO for access to SaaS applications or cloud-based Web applications, including both Azure portals. In addition, directory synchronization with AD DS makes it possible to sign in to cloud-based applications by using on-premises credentials. For example, an organization that deploys a web app for sales personnel to Azure can use Azure AD to authenticate user requests to the app and can choose to implement Multi-Factor Authentication when sales personnel access the app via a browser or a mobile device.

1. You are a Service Administrator of an Azure subscription. What method do you recommend for delegating the ability to manage some of your subscription's resources to another user?

**SELECT THE CORRECT ANSWER**

Top of Form

Configure the user as the Account Administrator

Configure the user as the Service Administrator

Configure the user as a Co-Administrator

Configure the user as the Owner of the subscription by using RBAC

Configure the user as the Owner of the resources by using RBAC

Bottom of Form

Correct Option:E

**EXPLANATION**

ANSWER: (E) You should use RBAC to configure the user as the Owner of the resources. This complies with the principle of least privilege and is the most secure solution. Configuring the user as the Account Administrator would not have the desired outcome, because the Account Administrator does not have privileges to manage subscription services. You cannot configure the user as the Service Administrator, because there can be only one Service Administrator. Lastly, while configuring the user as Co-Administrator would allow that user to manage any resources in the subscription, this is not recommend as it is excessive.

1. VPN Gateway lets you create network connections between Azure and on-premises networks over the Internet.

**SELECT THE CORRECT ANSWER**

Top of Form

True

False

Bottom of Form

Correct Option:A

**EXPLANATION**

ANSWER: (A) A virtual network gateway is used to send network traffic between Azure virtual networks and on-premises locations and also between virtual networks within Azure (VNet-to-VNet).

1. Which is set up by default when you create an Azure Storage Account?

**SELECT THE CORRECT ANSWER**

Top of Form

Locally Redundant Storage (LRS)

Zone-Redundant Storage (ZRS)

Geo-Redundant Storage (GRS)

Read Access Geo-Redundant Storage (RA-GRS)

Bottom of Form

Correct Option:D

**EXPLANATION**

ANSWER: (D) When you create a storage account, you can select one of the following replication options: Locally redundant storage (LRS), Zone-redundant storage (ZRS), Geo-redundant storage (GRS), Read-access geo-redundant storage (RA-GRS). Read-access geo-redundant storage (RA-GRS) is the default option when you create a new storage account.

1. What does Geo-Redundant Storage (GRS) do?

**SELECT THE CORRECT ANSWER**

Top of Form

Maintains 6 copies of your data. Three copies are replicated within the primary region, with three additional copies being replicated within a secondary region hundreds of miles away.

Replicates your data to a secondary geographic location, while providing read access to the data in the secondary location.

Maintains 3 copies of your data, replicated within a single facility.

Maintains 3 copies of your data, replicated across two to three facilities, either within a single region or across two regions.

Bottom of Form

Correct Option:A

**EXPLANATION**

ANSWER: (A) Geo-redundant storage (GRS) replicates your data to a secondary region that is hundreds of miles away from the primary region. If your storage account has GRS enabled, then your data is durable even in the case of a complete regional outage or a disaster in which the primary region is not recoverable. In this case, 6 copies of data are maintained on separate nodes.

1. What does Zone-Redundant Storage (ZRS) do?

**SELECT THE CORRECT ANSWER**

Top of Form

Replicates your data to a secondary geographic location, while providing read access to the data in the secondary location.

Maintains 3 copies of your data, replicated within a single facility.

Maintains 3 copies of your data, replicated across two to three facilities, either within a single region or across two regions.

Maintains 6 copies of your data. Three copies are replicated within the primary region, with three additional copies being replicated within a secondary region hundreds of miles away.

Bottom of Form

Correct Option:C

**EXPLANATION**

ANSWER: (C) Zone-redundant storage (ZRS) replicates your data asynchronously across datacenters within one or two regions in addition to storing three replicas similar to LRS, thus providing higher durability than LRS. Data stored in ZRS is durable even if the primary datacenter is unavailable or unrecoverable.

1. By default, Azure automatically configures new Linux VMs to be accessed via SSH?

**SELECT THE CORRECT ANSWER**

Top of Form

True

False

Bottom of Form

Correct Option:A

**EXPLANATION**

ANSWER: (A) Azure provides an inbound packet filter that restricts connectivity to ports specified in the Azure portal. By default, the only allowed port is SSH. You may open up access to additional ports on your Linux virtual machine.

1. By default, Azure automatically configures new Windows VMs to be accessed via PowerShell Remoting.

**SELECT THE CORRECT ANSWER**

Top of Form

True

False

Bottom of Form

Correct Option:A

**EXPLANATION**

ANSWER: (A) PowerShell Remoting is enabled on windows VM, and Azure exposes a remoting endpoint by default.

1. Virtual Machines (VMs) in Azure can be accessed using which of the following methods?

**SELECT THE CORRECT ANSWER(S)**

Top of Form

Physical access

Remote Desktop

SSH

Bottom of Form

Correct Option:B, C

**EXPLANATION**

ANSWER: (B) and (C) Windows VMs in Azure will get accessed via RDP and default access option for Linux VMs is SSH.

1. Which of the following features increase resiliency of Azure SQL database?

**SELECT THE CORRECT ANSWER**

Top of Form

Point In Time Restore

Geo-Replication

Geo-Restore

All of the above

Bottom of Form

Correct Option:D

**EXPLANATION**

ANSWER: (D) Point-in-time restore, a self-service feature available for Basic, Standard, and Premium databases provides resilience with its backups. Geo replication and Geo-restore are other ways to increase the resiliency by increasing availability of data.

1. Only a single Application can be hosted within a Web App. Multiple Web Apps need to be created to host multiple applications.

**SELECT THE CORRECT ANSWER**

Top of Form

True

False

Bottom of Form

Correct Option:B

**EXPLANATION**

ANSWER: (B) A single web app in Azure can be used to host multiple applications.

1. Azure File Storage allows for applications to have shared storage using the SMB 2.1 protocol.

**SELECT THE CORRECT ANSWER**

Top of Form

True

False

Bottom of Form

Correct Option:A

**EXPLANATION**

ANSWER: (A) Azure File storage is a service that offers file shares in the cloud using the standard Server Message Block (SMB) Protocol. Both SMB 2.1 and SMB 3.0 are supported.

1. What kind of NoSQL store is Azure Table Storage?

**SELECT THE CORRECT ANSWER**

Top of Form

Document database

Graph database

Key-Value pair

Table with Columns

Bottom of Form

Correct Option:C

**EXPLANATION**

ANSWER: (C) Azure table storage is Microsoft's NoSQL key/attribute store , meaning that every value in a table is stored with a typed property name. The property name can be used for filtering and specifying selection criteria. A collection of properties and their values comprise an entity. Since Table storage is schemaless, two entities in the same table can contain different collections of properties, and those properties can be of different types.

1. A Storage account must first be created in order to create an Azure Storage Queue.

**SELECT THE CORRECT ANSWER**

Top of Form

True

False

Bottom of Form

Correct Option:A

**EXPLANATION**

ANSWER: (A) Azure Storage is the cloud storage solution for modern applications that rely on durability, availability, and scalability to meet the needs of their customers. Azure storage provides the following four services: Blob storage, Table storage, Queue storage, and File storage.

1. Which service is best suited for Cold storage data?

**SELECT THE CORRECT ANSWER**

Top of Form

Page blobs

Block blobs

Table storage

Cool blobs storage

File storage

Bottom of Form

Correct Option:D

**EXPLANATION**

ANSWER: (D) The Azure cool storage tier is optimized for storing data that is infrequently accessed and long-lived. Data in the cool storage tier can tolerate slightly lower availability, but still requires high durability and similar time-to-access and throughput characteristics as hot data. For cool data, a slightly lower availability SLA and higher access costs are acceptable trade-offs for much lower storage costs.

1. In which year was Azure launched?

A. 2009  
B. 2010  
C. 2011  
D. 2012

View Answer

Ans : B

Explanation: Azure was launched on 1 February 2010.

2. In how many region across the world, is Azure data center present?

A. 50  
B. 52  
C. 54  
D. 56

View Answer

3. Which of the following programming languages is supported By Azure?

A. Java  
B. C#  
C. PHP  
D. All of the above

View Answer

Ans : D

Explanation: Azure supports a number of programming languages like Java, C#, PHP etc

4. How many services does Azure support presently?

A. 51 to 100  
B. greater than 200  
C. 151 to 200  
D. 101 to 150

View Answer

Ans : B

Explanation: Azure provides a number of services. Presently, there are more than 200 services provided by Azure presently.

5. Which of the following is the storage services provided by Azure?

A. blob  
B. Queue  
C. Both A and B  
D. Azure does not support storage services at all

View Answer

Ans : C

Explanation: Azure provides storage services, which can bee as blob, queue, file or table.

6. Which one of these is not a service provided by Azure?

A. compute  
B. store  
C. management  
D. None of the above

View Answer

Ans : D

Explanation: Azure provides all the three above mentioned services, besides providing other services also.

7. How many cloud service models does Azure support?

A. 1  
B. 2  
C. 3  
D. 4

View Answer

Ans : C

Explanation: Azure supports 3 cloud service models viz SaaS,PaaS,IaaS.

8. PaaS is abbrevaition of :

A. Platform As Azure Service  
B. Platform As A Service  
C. Programming As Azure Service  
D. Programming As A Service

View Answer

Ans : B

Explanation: PaaS stands for Platform as a Service, which is a service model and is supported in Azure.

9. In Azure, Radis Cache is a :

A. Database service  
B. Compute service  
C. Storage service  
D. Analytics service

View Answer

Ans : A

Explanation: Azure provides database services also, like SQL DB,Cosmos DB, Radis Cache

10. Office 365 is a

A. PaaS  
B. IaaS  
C. SaaS  
D. OaaS

View Answer

Ans : C

Explanation: Office 365 is a Software as a Service provided by Azure.

### What is the maximum number of update domains you can configure for an availability set consisting of IaaS v2 VMs?

**SELECT THE CORRECT ANSWER**

Top of Form

2

3

5

20

50

Bottom of Form

Correct Option:D

**EXPLANATION**

ANSWER : (D) Azure Resource Manager allows you to configure up to 20 update domains for an availability set.

### Which of the following services is NOT provided by Azure?

**SELECT THE CORRECT ANSWER**

Top of Form

Virtual Machines

Web Apps

Storage Spaces

Azure Active Directory

Azure DNS

Bottom of Form

Correct Option:C

**EXPLANATION**

ANSWER : (C ) Providing Storage Spaces is not an Azure service. You can host a Windows Server 2012 virtual machine that provides Storage Spaces, but it is not available directly from Azure as a service.

### You have an Azure VM running Windows Server 2012 R2 with a single data disk of 1 TB in size. You need to create a file system volume of 3 TB in size. What should you do?

**SELECT THE CORRECT ANSWER**

Top of Form

Attach two data disks. Create a Storage Spaces-based volume with the simple layout.

Increase the size of the data disk.

Attach one disk. Convert data disks to dynamic disks and create a stripe.

Attach two disks disk. Create a Storage Spaces-based volume with the parity layout.

Convert the disk to Premium storage and increase the size of the data disk.

Bottom of Form

Correct Option:A

**EXPLANATION**

ANSWER : (A ) The only way to accomplish this objective is to create a Storage Spaces-based volume with the simple layout. This will yield usable space of 3 TB. 1 TB is the maximum size of page blob, so you cannot increase the disk size. Attaching a single disk would yield at most 2 TB of usable space. In addition, stripe using dynamic disks was deprecated in Windows Server 2012. Parity layout with three disks would result in a 2 TB volume size. Premium storage is subject to the same size limitations as Standard storage, so the maximum size of the disk is 1 TB.

### You can use an operating system disk of a virtual machine from an on-premises Hyper-V host to deploy an Azure virtual machine.

**SELECT THE CORRECT ANSWER**

Top of Form

False

True

Bottom of Form

Correct Option:B

**EXPLANATION**

ANSWER : (B) Yes, however, the disk must be the VHD format (not VHDX) and it must not exceed 1 TB in size, because this is the limit on the page blob size that hosts virtual disks of Azure IaaS virtual machines.

### You need to provide a customer time-limited access to the content of a blob container in an Azure Storage account. You must ensure that the access can be revoked without affecting other customers who access the same storage account. What should you do?

**SELECT THE CORRECT ANSWER**

Top of Form

Give the customer the primary access key.

Give the customer the secondary access key.

Configure the container as public.

Give the customer a shared access signature.

Configure a stored access policy. Give the customer a shared access signature based on the stored access policy.

Bottom of Form

Correct Option:E

**EXPLANATION**

ANSWER : (E ) A shared access signature (SAS) is a URI that grants restricted access rights to Azure Storage resources. This token can have a time bond validity associated with it and can always be controlled with stored access policies.

### Which queuing mechanism is better suited for massive amounts of messages?

**SELECT THE CORRECT ANSWER**

Top of Form

Azure storage Queue

Service Bus Queue

Bottom of Form

Correct Option:A

**EXPLANATION**

ANSWER : (A ) The Azure Storage Queue service can store over 5 GB worth of messages in a queue.

### Shutting down an Azure VM from within its operating system will result in a Stopped state. Will it still incur computing charges?

**SELECT THE CORRECT ANSWER**

Top of Form

Yes

No

Bottom of Form

Correct Option:A

**EXPLANATION**

ANSWER : (A ) When you run Azure VMs, you pay for the compute time on a per-minute basis. The price for VMs is calculated based on their size, the operating system, and any licensed software installed on the VM. A running virtual machine requires allocation of Azure compute resources, so to avoid the corresponding charges, you should change its state to Stopped (Deallocated) whenever you are not using it.

### If you forget the password for the Azure VM, can you perform a password reset?

**SELECT THE CORRECT ANSWER**

Top of Form

Yes

No

Bottom of Form

Correct Option:A

**EXPLANATION**

ANSWER : (A ) If you forget the password for the Azure VM, you can perform a password reset by using the VM Access and VM Access for Linux extensions.

### What are the ways to extend direct connectivity to your on-premises networks?

**SELECT THE CORRECT ANSWER**

Top of Form

Point-to-Site VPN

Site-to-Site VPN

ExpressRoute

All of the above

Bottom of Form

Correct Option:D

**EXPLANATION**

ANSWER : ( D) Point-to-Site VPN connects individual computers to an Azure virtual network via a Secure Socket Tunneling Protocol (SSTP) tunnel over the Internet. A Site-to-Site VPN connects an on-premises network (with all of its computers) to an Azure virtual network via an IPSec tunnel over the Internet. Azure ExpressRoute connects an on-premises network via a private connection (point-to-point or IPVPN). By using ExpressRoute, you can provide improved and predictable performance.

1. How many maximum slots are available with Azure Web Apps?

**SELECT THE CORRECT ANSWER**

Top of Form

Single

Multiple

Bottom of Form

Correct Option:B

**EXPLANATION**

ANSWER : (B ) You can have up to 5 slots for some SKUs in Azure web app.

1. Which of the following are limitations of the Azure classic portal?

**SELECT THE CORRECT ANSWER**

Top of Form

You cannot view resources deployed by using Azure Resource Manager templates.

You cannot use tagging.

You cannot delegate permissions by using RBAC.

All of the above

Bottom of Form

Correct Option:D

**EXPLANATION**

ANSWER : (D ) ASM/classic way of deployment doesn't provide the luxury to templatize the infrastructure with ARM template. Tagging & RBAC are two concepts which were introduced with ARM deployment model.

1. Is it possible to implement Azure VMs with their virtual hard disk files stored in a Blob storage?

**SELECT THE CORRECT ANSWER**

Top of Form

Yes

No

Bottom of Form

Correct Option:B

**EXPLANATION**

ANSWER : (B ) It is not possible to implement Azure VMs with their virtual hard disk files stored in a Blob storage account (since Blob storage accounts support only block blobs and append blobs

1. What are the Azure Storage Access tier?

**SELECT THE CORRECT ANSWER(S)**

Top of Form

Cool blob storage

Hot blob storage

Page blob storage

All of the above

Bottom of Form

Correct Option:A, B

**EXPLANATION**

ANSWER : ( A and B) Hot blob storage-this tier is for content that you access frequently, and has lower costs associated with the I/O storage transactions, but higher cost per gigabyte (GB) of storage used. Cool blob storage-this tier is for content that you access infrequently, and has higher costs associated with the I/O storage transactions, but lower cost per GB of storage used.

1. What type of Azure Storage would you use for storing virtual disk files for Azure virtual machines (VMs)?

**SELECT THE CORRECT ANSWER**

Top of Form

Page blobs

Block blobs

Table storage

Append blobs

File storage

Bottom of Form

Correct Option:A

**EXPLANATION**

ANSWER : ( A) The VHDs used in Azure are .vhd files stored as page blobs in a standard or premium storage account in Azure. Page blobs are a collection of 512-byte pages optimized for random read and write operations.

1. How to programmatically access Azure AD through REST API?

**SELECT THE CORRECT ANSWER**

Top of Form

Azure Graph API

ARM Template

PowerShell

Automation

Bottom of Form

Correct Option:A

**EXPLANATION**

ANSWER : (A) The Azure Active Directory Graph API provides programmatic access to Azure Active Directory through REST API endpoints. Apps can use the Azure AD Graph API to perform create, read, update, and delete (CRUD) operations on directory data and directory objects, such as users, groups, and organizational contacts.

1. You administer a solution deployed to a virtual machine (VM) in Azure. The VM hosts a web service that is used by several applications. You are located in the US West region and have a worldwide user base. Developers in Asia report that they experience significant delays when they execute the services. You need to verify application performance from different locations. Which type of monitoring should you configure?

**SELECT THE CORRECT ANSWER**

Top of Form

Disk Read

Endpoint

Network Out

CPU

Average Response Time

Bottom of Form

Correct Option:B

**EXPLANATION**

ANSWER : (B) After you've deployed your web app or website to any server, you can set up web tests to monitor its availability and responsiveness. Azure Application Insights send web requests to your application at regular intervals from points around the world. It alerts you if your application doesn't respond or responds slowly. You can set up web tests for any HTTP or HTTPS endpoint that is accessible from the public internet. Earlier, the name for this was endpoint. Now, from October 2016, this service has been replaced with the new and more powerful Availability tests.

1. You need to ensure that users do NOT need to re-enter their passwords after they authenticate to cloud applications for the first time. What should you do?

**SELECT THE CORRECT ANSWER**

Top of Form

Enable Microsoft Account authentication.

Set up a virtual private network (VPN) connection between the on premises and Azure datacenter. Set up a Windows Active Directory domain controller in Azure VM. Implement Integrated Windows authentication.

Deploy ExpressRoute.

Configure Azure Active Directory Sync to use single sign-on (SSO).

Bottom of Form

Correct Option:D

**EXPLANATION**

ANSWER : (D ) Single sign-on means being able to access all of the applications and resources that you need to do business, by signing in only once using a single user account. Once signed in, you can access all of the applications you need without being required to authenticate (example, type a password) a second time.

1. Is it mandatory to set up a custom Domain Name System (DNS) on your Azure virtual network?

**SELECT THE CORRECT ANSWER**

Top of Form

Yes

No

Bottom of Form

Correct Option:B

**EXPLANATION**

ANSWER : (B) No, it is not. If you do not set up the DNS, your network will use the Azure build in name resolution.

1. Can you move virtual machines that you created in the lab to a different virtual network?

**SELECT THE CORRECT ANSWER**

Top of Form

Yes

No

Bottom of Form

Correct Option:B

**EXPLANATION**

ANSWER : (B) No. You would have to redeploy these virtual machines. You can easily move Azure virtual machines between subnets on the same virtual network. You cannot move virtual machines between virtual networks. Doing so requires redeployment.

1. Can you convert a Standard storage account into a Premium Storage account?

**SELECT THE CORRECT ANSWER**

Top of Form

Yes

No

Bottom of Form

Correct Option:B

**EXPLANATION**

ANSWER : (B) It is not possible to convert standard storage account to Premium Storage account or vice versa. You must create a new storage account with the desired type and copy data to new storage account, if applicable.

1. What authentication method do you have to use when connecting to Azure SQL Database?

**SELECT THE CORRECT ANSWER(S)**

Top of Form

SQL Server authentication

Azure Active Directory-based authentication

Windows Authentication

All of the Above

Bottom of Form

Correct Option:A, B

**EXPLANATION**

ANSWER : (A and B) SQL Database supports two types of authentication: SQL Authentication uses a username and password. When you created the logical server for your database, you specified a "server admin" login with a username and password. Using these credentials, you can authenticate to any database on that server as the database owner, or "dbo." Azure Active Directory Authentication uses identities managed by Azure Active Directory and is supported for managed and integrated domains. Use Active Directory authentication (integrated security) whenever possible. If you want to use Azure Active Directory Authentication, you must create another server admin called the "Azure AD admin," which is allowed to administer Azure AD users and groups. This admin can also perform all operations that a regular server admin can perform. Refer Connecting to SQL Database by using Azure Active Directory Authentication for a walkthrough of how to create an Azure AD admin to enable Azure Active Directory Authentication.

1. What should you consider when choosing between on-premises SQL Server, SQL Server on an Azure virtual machine, and Azure SQL Database?

**SELECT THE CORRECT ANSWER**

Top of Form

Data storage policy compliance

Required functionality

Additional relational database-related services

Maintenance and manageability

All of the Above

Bottom of Form

Correct Option:E

**EXPLANATION**

ANSWER : (E ) Some organizations, geo-political regions, and industries have strict requirements for data storage, which might determine where and how data can be stored. SQL Server supports some functionalities that are not available in Azure SQL Database. SQL Server includes not only the database engine but also additional services such as the SQL Server Agent, SQL Server Integration Services, SQL Server Reporting Services, SQL Server Analysis Services, and SQL Server Master Data Services. If you require the capabilities of these services, SQL Server might be a better choice. In general, Azure SQL Database requires considerably less maintenance overhead than a SQL Server instance (on-premises or on an Azure virtual machine).

1. You are designing a plan for migrating Virtual Hard Disks (VHDs) and video files to Windows Azure Storage. The VHDs must be optimized for random read/write operation. The video files must be optimized for sequential access. What storage types would you recommend for storing the VHDs and video files?

**SELECT THE CORRECT ANSWER(S)**

Top of Form

Store VHDs in Windows Azure page blob storage.

Store video files in Windows Azure block blob storage.

Store VHDs in Windows Azure block blob storage.

Store video files in Windows Azure page blob storage.

Bottom of Form

Correct Option:A, B

**EXPLANATION**

ANSWER : (A and B) The VHDs used in Azure are .vhd files stored as page blobs in a standard or premium storage account in Azure. Block blobs are optimized for sequential read, write. Block blobs let you upload large blobs efficiently, it's best used for object storage that is, video, audio, pdf etc.

1. What are some benefits of using Azure AD as an identity provider?

**SELECT THE CORRECT ANSWER**

Top of Form

Centralized identity management.

Single sign-on to SaaS applications.

Increased security of the authentication process by leveraging Multi-Factor Authentication.

All of the above

Bottom of Form

Correct Option:D

**EXPLANATION**

ANSWER : (D ) Azure AD provides an affordable, easy to use solution to give employees and business partners single sign-on (SSO) access to thousands of cloud SaaS Applications along with offering Centralized identity management. It also includes a full suite of identity management capabilities including multi-factor authentication, device registration, self-service password management, self-service group management, privileged account management, role based access control, application usage monitoring, rich auditing, and security monitoring and alerting.

1. What are the most common Azure billing options?

**SELECT THE CORRECT ANSWER**

Top of Form

Pay-As-You-Go

Buy from a Microsoft Reseller

Enterprise agreements

All of the above

Bottom of Form

Correct Option:D

**EXPLANATION**

ANSWER : ( D) The most popular and flexible payment plan is Pay-As-You-Go subscription; the other possible ways to purchase Azure are Enterprise agreements, Microsoft resellers, and Microsoft partners.

1. Which method allows you to download an Excel spreadsheet that contains billing data?

**SELECT THE CORRECT ANSWER**

Top of Form

Azure portal

Account Portal

Azure classic portal

Bottom of Form

Correct Option:B

**EXPLANATION**

ANSWER : (B ) While you can view billing and usage data in the Azure portal, the Azure classic portal, and the Account Portal, only the Account Portal provides the option to download an Excel spreadsheet that contains billing data.

1. You have to be either the Service administrator or a Co-administrator to access the Azure classic portal.

**SELECT THE CORRECT ANSWER**

Top of Form

True

False

Bottom of Form

Correct Option:A

**EXPLANATION**

ANSWER : (A) Account Administrator, Service Administrator, and Co-administrator are the three kinds of administrator roles in Microsoft Azure. To access the classic portal, the user has to be either Service Administrator or Co-administrator.

1. Azure Virtual Machines allow you to create only Windows virtual machines.

**SELECT THE CORRECT ANSWER**

Top of Form

True

False

Bottom of Form

Correct Option:B

**EXPLANATION**

ANSWER : (B ) With support for Linux, Windows Server, SQL Server, Oracle, IBM, and SAP, Azure Virtual Machines give you the flexibility of virtualization for a wide range of computing solutions. On the OS front, it allows us to select Windows Servers and Linux VMs.

1. What does Read Access Geo-Redundant Storage (RA-GRS) do?

**SELECT THE CORRECT ANSWER**

Top of Form

Maintains 3 copies of your data, replicated within a single facility.

Maintains 6 copies of your data. Three copies are replicated within the primary region, with three additional copies being replicated within a secondary region hundreds of miles away.

Replicates your data to a secondary geographic location, while providing read access to the data in the secondary location.

Maintains 3 copies of your data, replicated across two to three facilities, either within a single region or across two regions.

Bottom of Form

Correct Option:C

**EXPLANATION**

ANSWER : (C ) Read-access geo-redundant storage (RA-GRS) maximizes availability for your storage account, by providing read-only access to the data in the secondary location, in addition to the replication across two regions provided by GRS.

1. What does Locally Redundant Storage (LRS) do?

**SELECT THE CORRECT ANSWER**

Top of Form

Replicates your data to a secondary geographic location, while providing read access to the data in the secondary location.

Maintains 3 copies of your data, replicated within a single facility.

Maintains 6 copies of your data. Three copies are replicated within the primary region, with three additional copies being replicated within a secondary region hundreds of miles away.

Maintains 3 copies of your data, replicated across two to three facilities, either within a single region or across two regions.

Bottom of Form

Correct Option:B

**EXPLANATION**

ANSWER : (B) Locally redundant storage (LRS) replicates your data three times within a storage scale unit which is hosted in a datacenter in the region in which you created your storage account. A write request returns successfully only once it has been written to all three replicas. These three replicas each reside in separate fault domains and upgrade domains within one storage scale unit.

1. All Azure Regions offer all Azure services.

**SELECT THE CORRECT ANSWER**

Top of Form

True

False

Bottom of Form

Correct Option:B

**EXPLANATION**

ANSWER : (B ) Not all Azure services are available in all Azure regions. Obviously you will choose a region that offers the Azure services that you want to use.

1. By default, Azure automatically configures new Windows VMs to be accessed via VNC.

**SELECT THE CORRECT ANSWER**

Top of Form

True

False

Bottom of Form

Correct Option:B

**EXPLANATION**

ANSWER : (B ) By default, Azure VM has only PowerShell and RDP and not VNC.

1. By default, Azure automatically configures new Windows VMs to be accessed via Remote Desktop.

**SELECT THE CORRECT ANSWER**

Top of Form

True

False

Bottom of Form

Correct Option:A

**EXPLANATION**

ANSWER : ( A ) RDP is enabled for all Windows virtual machines in Azure.

1. Which of the following are characteristics of Azure AD?

**SELECT THE CORRECT ANSWER**

Top of Form

Contains organizational units

Uses LDAP for directory lookups

Supports Group Policy

Offers native support for Multi-Factor Authentication

Bottom of Form

Correct Option:D

**EXPLANATION**

ANSWER : (D ) Unlike AD DS, Azure AD is multi-tenant by design. It does not support organizational units. It relies on Internet-friendly protocols for directory lookups (Graph API over HTTPS) rather than Lightweight Directory Access Protocols (LDAP). It does not support Group Policies for management of its domain-joined devices; you can use an MDM solution, such as Microsoft Intune, instead. It offers native support for MFA.

1. What are the categories of cloud services?

**SELECT THE CORRECT ANSWER**

Top of Form

Software as a service (SaaS)

Platform as a service (PaaS)

Infrastructure as a service (IaaS)

All of the above

Bottom of Form

Correct Option:D

**EXPLANATION**

ANSWER : (D) Windows Azure's Services fall into three main categories: Infrastructure as a Service (IaaS), Platform as a Service (PaaS), and Software as a Service (SaaS).

1. Azure guarantees an SLA of 99.9% for all Web Apps hosted, regardless of the number of instances.

**SELECT THE CORRECT ANSWER**

Top of Form

True

False

Bottom of Form

Correct Option:B

**EXPLANATION**

ANSWER : (B) To qualify for SLA, you should have at least 2 instances under normal circumstances.

1. Before Azure Storage Blobs or Files can be used, an Azure Storage Account must first be created.

**SELECT THE CORRECT ANSWER**

Top of Form

True

False

Bottom of Form

Correct Option:A

**EXPLANATION**

ANSWER : (A ) To create Blobs, Files, Tables, or Storage queues you first have to create the Azure Storage Account. This acts as placeholder for these.

1. You are designing a distributed application for Azure. The application must securely integrate with on-premises servers. You need to recommend a method of enabling IPsec-protected connections between on-premises servers and the distributed application. What should you recommend?

**SELECT THE CORRECT ANSWER**

Top of Form

Azure Access control

Azure content delivery network

Azure service bus

Azure Site-To-Site VPN

Bottom of Form

Correct Option:D

**EXPLANATION**

ANSWER : (D) A Site-to-Site (S2S) VPN gateway connection is a connection over IPsec/IKE (IKEv1 or IKEv2) VPN tunnel. This type of connection requires a VPN device located on-premises that has a public IP address assigned to it and is not located behind a NAT. S2S connections can be used for cross-premises and hybrid configurations.

1. Which of the following Azure services support direct connectivity to an Azure virtual network?

**SELECT THE CORRECT ANSWER**

Top of Form

Azure SQL Database

Azure Active Directory

Azure Virtual Machines

Azure Redis Cache

Bottom of Form

Correct Option:C

**EXPLANATION**

ANSWER : (C ) Azure Virtual machines can be provisioned under Virtual network so they can be accessed from On Premise network in case of hybrid connectivity.

1. If you want to store installation image files that will be accessed via the SMB protocol by multiple Azure VMs, which type of storage should you choose?

**SELECT THE CORRECT ANSWER**

Top of Form

Page blobs

Block blobs

Table storage

Append blobs

File storage

Bottom of Form

Correct Option:E

**EXPLANATION**

ANSWER : ( E ) Azure File storage is a service that offers file shares in the cloud using the standard Server Message Block (SMB) Protocol. Both SMB 2.1 and SMB 3.0 are supported.