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.

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.

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**

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.

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

**SELECT THE CORRECT ANSWER**

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.

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**

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 and SQL Server Configuration Manager do not provide this functionality.

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.

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.

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).

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).

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.

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.

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

**SELECT THE CORRECT ANSWER**

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.

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.

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.

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.

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.

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.

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.

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.

f 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.

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.

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.

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**

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.

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.

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.

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.

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.

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)

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.

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.

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

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.

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.

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

**SELECT THE CORRECT ANSWER**

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.

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.

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.

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

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.

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.

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.