

Q1) In which US state is the East US 2 region?

☒ Virginia

Explanation:-In fact, Microsoft Azure has three regions in Virginia: East US, East US2, and US Gov Virginia. Reference: <https://stackoverflow.com/questions/15170756/where-is-the-region-labelled-east-us-2-in-azure>

- ☐ Iowa
☐ California
☐ Texas

Q2) What hardware device is required to exist or be installed on your company network in order to set up a site-to-site VPN?

☒ VPN Gateway

Explanation:-A VPN gateway is a specific type of virtual network gateway that is used to send encrypted traffic between an Azure virtual network and an on-premises location over the public Internet. You can also use a VPN gateway to send encrypted traffic between Azure virtual networks over the Microsoft network. Refer: <https://docs.microsoft.com/en-us/azure/vpn-gateway/vpn-gateway-about-vpngateways>

- ☐ Application Gateway
☐ Virtual machine
☐ Virtual Network

Q3) Which of the following Azure features is most likely to deliver the most immediate savings when it comes to reducing service costs?

☒ Identifying idle and underutilized resources

Explanation:-Advisor helps you optimize and reduce your overall Azure spend by identifying idle and underutilized resources. You can get cost recommendations from the Cost tab on the Advisor dashboard. Reference: <https://docs.microsoft.com/en-us/azure/advisor/advisor-cost-recommendations>

- ☐ Using Azure Policy to restrict the user of expensive VM SKUs
☐ Auto shutdown of development and QA servers over night and on weekends
☐ Changing your storage accounts from globally redundant (GRS) to locally redundant (LRS)

Q4) Your company is planning on hosting resources within Microsoft Azure.

Is it possible for outside users to have access to resources within Azure, or do the users have to be specifically defined in Azure AD only?

☒ No, users from the outside can also get access to Azure resources

Explanation:-The users from the outside can also get access to Azure resources because of Azure role-based access control (RBAC) which allows better security management for large organizations and for small and medium-sized businesses working with external collaborators, vendors, or freelancers that need access to specific resources in your environment, but not necessarily to the entire infrastructure or any billing-related scopes. You can use the capabilities in Azure Active Directory B2B to collaborate with external guest users and you can use RBAC to grant just the permissions that guest users need in your environment. Refer Example: <https://docs.microsoft.com/en-us/azure/role-based-access-control/overview#Role%20Assignment>

- ☐ Yes, only Azure AD defined users can access Azure resources

Q5) An IT Engineer needs to create a Virtual Machine within Microsoft Azure.

Currently the IT Engineer has a Windows desktop and has installed the Azure Command Line interface.

From which of the following could the IT engineer use the Azure Command Line Interface?

Choose 2 answers from the options given below

☒ Command Prompt

Explanation:-the Azure command-line interface (CLI) is Microsoft's cross-platform command-line experience for managing Azure resources. The Azure CLI is designed to be easy to learn and get started with, but powerful enough to be a great tool for building custom automation to use Azure resources.

Azure PowerShell is a set of cmdlets that allow for managing Azure resources directly from the PowerShell command line. Azure PowerShell is designed to make it easy to learn and get started with, but provides powerful features for automation. Written in .NET Standard, Azure PowerShell works with PowerShell 5.1 on Windows, and PowerShell 6.x and higher on all platforms.

- ☐ File and Print Explorer
☒ Powershell

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- ☐ Google Chrome

Q6) A company is planning on using Azure SQL Data Warehouse for hosting their sales historical data.

Which of the following is a feature of the Azure SQL Data Warehouse architecture?

- ☐ Disaster Recovery
☒ Scalability

Explanation:-the architecture of SQL Data Warehouse separates storage and compute, allowing each to scale independently. As a result, you can scale compute to meet performance demands independent of data storage. You can also pause and resume compute resources. A natural consequence of this architecture is that billing for compute and storage is separate. If you don't need to use your data warehouse for a while, you can save compute costs by pausing compute.

- ☐ High Availability
☐ Visualization

Q7)

A company wants to start using Microsoft Azure.

They want to make use of availability zones within Azure.

Which of the following is associated with the concept of availability zones within Microsoft Azure?

☒ Data Center failure

Explanation:-Data Center failure because Availability Zones is a high-availability offering that protects your applications and data from datacenter failures. Availability Zones are unique physical locations within an Azure region. Each zone is made up of one or more datacenters equipped with independent power, cooling, and networking. To ensure resiliency, there's a minimum of three separate zones in all enabled regions. The physical separation of Availability Zones within a region protects applications and data from datacenter failures. Zone-redundant services replicate your applications and data across Availability Zones to protect from single-points-of-failure. With Availability Zones, Azure offers industry best 99.99% VM uptime SLA.

An Availability Zone in an Azure region is a combination of a fault domain and an update domain. For example, if you create three or more VMs across three zones in an Azure region, your VMs are effectively distributed across three fault domains and three update domains. The Azure platform recognizes this distribution across update domains to make sure that VMs in different zones are not updated at the same time.

Build high-availability into your application architecture by co-locating your compute, storage, networking, and data resources within a zone and replicating in other zones. Azure services that support Availability Zones fall into two categories:

Zonal services – you pin the resource to a specific zone (for example, virtual machines, managed disks, Standard IP addresses), or Zone-redundant services – platform replicates automatically across zones (for example, zone-redundant storage, SQL Database).

To achieve comprehensive business continuity on Azure, build your application architecture using the combination of Availability Zones with Azure region pairs. You can synchronously replicate your applications and data using Availability Zones within an Azure region for high-availability and asynchronously replicate across Azure regions for disaster recovery protection.

- Resource failure
- Region failure
- Azure failure

Q8) A company wants to try out some services which are being offered by Microsoft Azure in Public Preview.

Do the services in Public Preview within Azure come with an SLA?

✔ Incorrect

Explanation:-Previews are provided "as-is," "with all faults," and "as available," and are excluded from the service level agreements and limited warranty.

For more information, please visit:

<https://azure.microsoft.com/en-us/support/legal/preview-supplemental-terms/>

● Correct

Q9) A company wants to try some services which are being offered by Microsoft Azure in Public Preview.

Does Microsoft provide a separate Azure portal for trying out the services in Public Preview?

✔ No

Explanation:-Microsoft Azure offers preview features to you for evaluation purposes. A preview may include preview, beta, or other pre-release features, services, software, or regions. Previews are subject to reduced or different service terms, as set forth in your service agreement and the preview supplemental terms - Reference: <https://azure.microsoft.com/en-us/support/legal/preview-supplemental-terms/> . Previews are made available to you on the condition that you agree to these terms of use, which supplement your agreement governing the use of Azure.

So If you want to test public preview features you would go to for preview.portal.azure.com

If you want to implement the public preview solution, you'd use portal.azure.com

For more information, please visit:

<https://azure.microsoft.com/en-us/support/legal/preview-supplemental-terms/> Resources in public preview does not require a different portal.

● Yes

Q10) Your company needs to deploy and manage several Microsoft Azure Web apps using the Azure App service resource.

Which of the following URL's would you use to manage the Azure Web Apps?

● <https://portal.azurewebsites.com>

● <https://portal.azurewebsites.net>

✔ <https://portal.azure.com>

Explanation:- <https://portal.azure.com> is the correct answer.

The Azure portal is a web-based, unified console that provides an alternative to command-line tools. With the Azure portal, you can manage your Azure subscription using a graphical user interface. You can build, manage, and monitor everything from simple web apps to complex cloud deployments. Create custom dashboards for an organized view of resources. Configure accessibility options for an optimal experience.

The Azure portal is designed for resiliency and continuous availability. It has a presence in every Azure datacenter. This configuration makes the Azure portal resilient to individual datacenter failures and avoids network slow-downs by being close to users. The Azure portal updates continuously and requires no downtime for maintenance activities.

The proper URL to access the portal would be: <https://portal.azure.com>

For more information, please visit:

<https://docs.microsoft.com/en-us/azure/azure-portal/azure-portal-overview>

● <https://portal.microsoft.com>

Q11) Besides Azure Service Health, where else can you find out any issues that affect the Azure global network that affect you?

✔ Each Virtual Machine has a Resource Health blade

Explanation:-Azure Service Health is a suite of experiences that provide personalized guidance and support when issues in Azure services are or may affect you in the future. Azure Service Health is composed of Azure status, the service health service, and Resource Health. Reference: <https://azure.microsoft.com/en-us/updates/>

● Azure Updates Blog

● Install the Azure app on your phone

● Azure will email you

Q12) Which Azure service is the recommended Identity-as-a-Service offering inside Azure?

● Azure Portal

● Identity and Access Management (IAM)

✔ Azure Active Directory (AD)

Explanation:-Azure AD is a multitenant, cloud-based directory and identity management service from Microsoft. It combines core directory services, application access management, and identity protection into a single solution. Reference: <https://docs.microsoft.com/en-us/azure/security/fundamentals/identity-management-best-practices>

● Azure Front Door

Q13) For all Virtual Machines that have two or more instances deployed in the same Availability Set, it is guaranteed to have Virtual Machine Connectivity to at least one instance at least _____ of the time.

● 95%

● 99%

✔ 99.95%

Explanation:-

Cloud Services and Virtual Machines

For Cloud Services, we guarantee that when you deploy two or more role instances in different fault and upgrade domains, at least one role instance will have Role Instance Connectivity at least 99.95% of the time.

For all Virtual Machines that have two or more instances deployed in the same Availability Set, we guarantee you will have Virtual Machine Connectivity to at least one instance at least **99.95%** of the time.

For any Single Instance Virtual Machine using premium storage for all disks, we guarantee you will have Virtual Machine Connectivity of at least 99.9%.

Reference: <https://azure.microsoft.com/en-us/support/legal/sla/summary/>

☒ 99.99%

Q14) What types of files can a Content Delivery Network speed up the delivery of?

- ☐ Images
- ☐ JavaScript files
- ☐ Videos
- ☐ PDFs
- ☒ All of These

Explanation:-Content Delivery Network Secure and reliable global content delivery and acceleration. Take a tourAzure Content Delivery Network (CDN) lets you reduce load times, save bandwidth, and speed responsiveness—whether you're developing or managing websites or mobile apps, or encoding and distributing streaming media, gaming software, firmware updates, or IoT endpoints. Refer: <https://azure.microsoft.com/en-us/services/cdn/#documentation>

Q15) In what way does Multi-Factor Authentication increase the security of a user account?

☒ It requires the user to possess something like their phone to read an SMS or use a mobile app.

Explanation:-Multi-factor authentication is a process where a user is prompted during the sign-in process for an additional form of identification, such as to enter a code on their cellphone or to provide a fingerprint scan. Reference: <https://docs.microsoft.com/en-us/azure/active-directory/authentication/concept-mfa-howitworks>

- ☐ It requires users to provide a fingerprint or other biometric identification.
- ☐ It doesn't. Multi-Factor Authentication is more about access and authentication than account security.
- ☐ It requires users to be approved before they can log in for the first time.

Q16) Which of the following scenarios would Azure Policy be a recommended method for enforcement?

- ☐ Add an additional prompt when creating a resource without a specific tag to ask the user if they are really sure they want to continue?
- ☐ Require a virtual machine to always update to the latest security patches
- ☒ Prevent certain Azure Virtual Machine instance types from being used in a resource group

Explanation:-In another example, you might want to assign a resource type allow list definition at the management group level. Then you assign a more permissive policy (allowing more resource types) on a child management group or even directly on subscriptions. However, this example wouldn't work because Azure Policy is an explicit deny system. Instead, you need to exclude the child management group or subscription from the management group-level assignment. Then, assign the more permissive definition on the child management group or subscription level. If any assignment results in a resource getting denied, then the only way to allow the resource is to modify the denying assignment. Refer: <https://docs.microsoft.com/en-us/azure/governance/policy/overview>

- ☐ Allow only one specific roles of users to have access to a resource group

Q17)

Your organization has implemented an Azure Policy that restricts the type of Virtual Machine instances you can use.

How can you create a VM that is blocked by policy?

- ☐ Use an account that has Contributor or above permissions to the resource group
- ☐ Subscription Owners (Administrators) can create resources regardless of what the policy restricts
- ☒ The only way is to remove the policy, create the resource and add the policy back

Explanation:-If you want to prevent the use or installation of certain extensions on your Linux VMs, you can create an Azure Policy definition using the CLI to restrict extensions for VMs within a resource group. Refer: <https://docs.microsoft.com/en-us/azure/virtual-machines/extensions/extensions-rmpolicy-howto-cli>

Q18) What makes a system highly available?

☒ A system specifically designed to be resilient, with no single point of failures

Explanation:-A system is highly available when a system specifically designed to be resilient, with no single point of failures. 1. Build comprehensive business-continuity solutions 2. Keep your applications up and running 3. Create a resilient environment faster

- ☐ It's not possible to make a highly available system
- ☐ Must have a minimum of two VMs
- ☐ If it maintains 100% availability

Q19) What is the name of Azure's hosted SQL database service?

- ☐ SQL Server in a VM
- ☒ Azure SQL Database

Explanation:-Azure SQL Database is a fully managed database service, which means that Microsoft operates SQL Server for you and ensures its availability and performance. SQL Database also includes innovative features to enhance your business continuity, such as built-in high availability. Part of the Azure SQL family, Azure SQL Database is the intelligent, scalable, relational database service built for the cloud. It's evergreen and always up to date, with AI-powered and automated features that optimize performance and durability for you. Serverless compute and Hyperscale storage options automatically scale resources on demand, so you can focus on building new applications without worrying about storage size or resource management. Refer: <https://azure.microsoft.com/en-us/services/sql-database/>

- ☐ Cosmos DB
- ☐ Table Storage

Q20) Which ways does the Azure Resource Manager model provide to deploy resources?

☒ All of these

Explanation:-Azure Resource Manager is the deployment and management service for Azure. It provides a management layer that enables you to create, update, and delete resources in your Azure account. You use management features, like access control, locks, and tags, to secure and organize your resources after deployment. Refer: <https://docs.microsoft.com/en-us/azure/azure-resource-manager/management/overview>

- ☐ CLI
- ☐ Powershell
- ☐ Azure Portal
- ☐ REST API / SDK

Q21) What is the default amount of credits that you are given when you first create an Azure Free account?

☒ The default is US\$200

Explanation:-The Azure free account includes access to a number of Azure products that are free for 12 months, \$200 credit to spend for the first 30 days of sign up, and access to more than 25 products that are always free. Reference: <https://azure.microsoft.com/en-us/free/>

- You are given \$50 per month, for one year towards Azure services
- You can create 1 Linux VM, 1 Windows VM, and a number of other free services for the first year.
- Azure does not give you any free credits when you create a free account

Q22) One of the benefits of the cloud is agility. What does that mean in the context of the cloud?

- The ability to recover from a big region-wide failure in a short amount of time
- Ability of a system to grow it's capacity easily when it reaches full capacity
- ✔ Ability to spin up new resources within minutes

Explanation:-In the cloud computing context, agility often refers to the ability to rapidly develop, test and launch software applications that drive business growth. Cloud Agility allows them to focus on other issues such as security, monitoring and analysis, instead of provisioning and maintaining the resources.

- Ability to focus on security, monitoring and analysis of resources

Q23) Which of the following features is included in the Standard Support plan that is not available to the Developer Support plan?

- General advice on Azure best practices
- Access to support tickets for technical errors
- Azure architects will review your application designs and give advice
- ✔ Scope included for all Azure Customers

Explanation:-

Under the Azure Standard support plan Scope is included for all the Azure customers in Standard Support Plan whereas in Developer Support Plan the scope is offered on trial and non-production environments.

<https://azure.microsoft.com/en-us/support/plans/standard/>

Q24) Who is responsible for the security of the physical servers in an Azure data center?

- ✔ Azure is responsible for securing the physical data centers
- I am responsible for securing the physical data centers

Q25) Which feature of Azure Active Directory will require users to have their mobile phone in order to be able to log in?

- Azure Information Protection (AIP)
- ✔ Multi-Factor Authentication

Explanation:-Multi-factor authentication is a process where a user is prompted during the sign-in process for an additional form of identification, such as to enter a code on their cellphone or to provide a fingerprint scan. Reference: <https://docs.microsoft.com/en-us/azure/active-directory/authentication/concept-mfa-howitworks>

- Azure Security Center
- Advanced Threat Protection (ATP)

Q26) Correct or Incorrect: You cannot have more than one Azure subscription per company

- Correct
- ✔ Incorrect

Explanation:-Organizations often use multiple Azure subscriptions to avoid per-subscription resource limits and to better manage and govern their Azure resources. It's important to define a strategy for scaling your subscriptions. Refer: <https://docs.microsoft.com/en-us/azure/cloud-adoption-framework/ready/azure-best-practices/scale-subscriptions>

Q27) Which Azure website tool is available for you to estimate the future costs of your Azure products and services by adding products to a shopping basket and helping you calculate the costs?

- ✔ Azure Pricing Calculator

Explanation:-Azure Cost Calculator is a free cost management tool that can help you estimate your cloud costs for new Azure deployments, or variations of your existing workloads. Refer: <https://azure.microsoft.com/en-us/pricing/calculator/>

- Azure Advisor
- Microsoft Docs

Q28) What are Azure Availability Zones?

- Within each individual data center, certain racks of servers have been architected by Azure to have higher uptime than the others. If you place your apps onto this rack, you'll get higher uptime than if you let Azure do it.
- This is the same as a region
- A folder structure in Azure in which you organize resources like databases, virtual machines, virtual networks, or almost any resource
- ✔ A feature of Azure that allows you to manually specify into which data center your virtual machines are placed, which allows you to achieve higher availability than any other option.

Explanation:-An Availability Zone is a high-availability offering that protects your applications and data from datacenter failures. Availability Zones are unique physical locations within an Azure region. Each zone is made up of one or more datacenters equipped with independent power, cooling, and networking. Reference: <https://docs.microsoft.com/en-us/azure/availability-zones/az-overview>

Q29) Which of the following is something that Azure Cognitive Services API can currently do?

- Recognize text in an image
- ✔ All of these! Azure can do it all!

Explanation:-Azure Cognitive Services helps to build intelligent and supported algorithms into apps, websites, and bots to see, hear, speak, understand, and interpret your user needs. Also it Recognize, identify, caption, index, and moderate your pictures, videos, and digital ink content. Refer: <https://docs.microsoft.com/en-us/azure/cognitive-services/>

- Speak text in an extremely realistic way
- Create text from audio
- Recognize faces in a picture
- Translate text from one language to another

Q30) Which feature within Azure collects all of the logs from various resources into a central dashboard, where you can run queries, view graphs, and create alerts on certain events?

- Azure Portal Dashboard
- Azure Security Center
- ✔ Azure Monitor

Explanation:-Azure Monitor collects monitoring telemetry from a variety of on-premises and Azure sources. Management tools, such as those in Azure Security Center and Azure Automation, also push log data to Azure Monitor. Source - <https://azure.microsoft.com/en-in/services/monitor/>

- Storage Account or Event Hub

Q31)

Evaluate the text in the bracket to determine if it is correct.

When you are implementing software as a service (SaaS) solution, you are responsible for (configuring high availability).

Instructions: Review the underlined text. If it makes the statement correct, select "No change is needed". If the statement is incorrect, select the answer choice that makes the statement correct.

☒ Configuring the SaaS solution

Explanation:-This option is correct because, when using a SaaS solution, you just need to 'configure' your solution. High Availability is guaranteed by Azure. It is not the developer's responsibility..

- ☐ Installing the SaaS solution
- ☐ Defining scalability rules
- ☐ No change is needed

Q32)

Azure Services can go through several phases in a Service Lifecycle.

What are the three phases called?

- ☐ Announced, Coming Soon, and Live
- ☒ Private Preview, Public Preview and General Availability
- ☐ Preview Phase, General Availability Phase, and Unpublished
- ☐ Development phase, QA phase, and Live phase

Q33) Correct or Incorrect: Azure still has some responsibilities to manage the hardware even in the Infrastructure as a Service model

☒ Correct

Explanation:-Microsoft Azure is a Cloud provider offering a range of computing, storage and application services. Azure services contain platform-as-a-service (PaaS) which is like a Google App Engine and Infrastructure-as-a-service (IaaS). In an IaaS deployment, Azure's fundamental unit, compute resources in the virtual machine. Refer: <https://azure.microsoft.com/en-us/overview/what-is-azure/iaas/>

- ☐ Incorrect

Q34) Correct or Incorrect: You can create your own policies if built-in Azure Policy is not sufficient to your needs

☒ Correct

Explanation:-Understanding how to create and manage policies in Azure is important for staying compliant with your corporate standards and service level agreements. In this tutorial, you learn to use Azure Policy to do some of the more common tasks related to creating, assigning, and managing policies across your organization, such as: Assign a policy to enforce a condition for resources you create in the future Create and assign an initiative definition to track compliance for multiple resources Resolve a non-compliant or denied resource Implement a new policy across an organization Refer: <https://docs.microsoft.com/en-us/azure/governance/policy/tutorials/create-and-manage>

- ☐ Incorrect

Q35) What is the basic way of protecting an Azure Virtual Network subnet?

- ☐ Azure DDos Standard protection
- ☒ Network Security Group

Explanation:-You can use Azure Network Security Group (NSG) to filter network traffic to and from Azure resources in an Azure virtual network. A network security group contains security rules that allow or deny inbound network traffic to, or outbound network traffic from, several types of Azure resources. For each rule, you can specify source and destination, port, and protocol. Refer: <https://docs.microsoft.com/en-us/azure/virtual-network/security-overview>

- ☐ Azure Firewall
- ☐ Application Gateway with WAF

Q36) What feature of a system makes it elastic?

- ☐ The ability of it to stay up (available) while updates are being made to the system
- ☒ The ability of it to add and reduce capacity based on actual demand

Explanation:-Azure elasticity as a service is referred to a cloud service that enables in automatically scaling Azure hosted resources in par with the demand and configured parameters. It provides Azure Administrators with the ability to auto scale Azure infrastructure and resources as and when needed. It offers the ability to add and reduce capacity based on actual demand. Reference: <https://azure.microsoft.com/en-us/overview/what-is-elastic-computing/>

- ☐ The ability to withstand denial of service attacks
- ☐ The ability of it to heal itself after a crash

Q37) Which Azure service is meant to be a security dashboard that contains all the security and threat protection in one place?

☒ Azure Security Center

Explanation:-Azure Security Center is a unified infrastructure security management system that strengthens the security posture of your data centers, and provides advanced threat protection across your hybrid workloads in the cloud - whether they're in Azure or not - as well as on premises. Reference: <https://docs.microsoft.com/en-us/azure/security-center/security-center-intro#:~:text=Azure%20Security%20Center%20is%20a,as%20well%20as%20on%20premises.>

- ☐ Azure Key Vault
- ☐ Azure Monitor
- ☐ Azure Portal Dashboard

Q38) Outlook 365 is what type of hosting model?

☒ SaaS

Explanation:-Microsoft Office 365 is a SaaS that provides these types of services, which include SharePoint Online, Exchange Online, Lync Online and Office Professional Plus Reference: <https://azure.microsoft.com/en-us/overview/what-is-saas>

- ☐ IaaS
- ☐ PaaS

Q39) With Azure public cloud, anyone with a valid credit card can sign up and get services immediately

☒ Correct

Explanation:-Refer: <https://azure.microsoft.com/en-us/free/free-account-faq/>

- ☐ Incorrect

Q40) How many minutes per month downtime is 99.99% availability?

- ☐ 1 minute

- ✔ 4 minutes

Explanation:-Everything else being equal, higher availability is better. But as you strive for more nines, the cost and complexity grow. An uptime of 99.99% translates to about five minutes of total downtime per month. Reference: <https://docs.microsoft.com/en-us/azure/architecture/framework/resiliency/business-metrics>

- 100 minutes
- 40 minutes

Q41) What does the letter R in RBAC stand for?

- ✔ Role

Explanation:-Role-based access control (RBAC) is a policy-neutral access-control mechanism defined around roles and privileges. The components of RBAC such as role-permissions, user-role and role-role relationships make it simple to perform user assignments.

- Rights
- Review
- Rule

Q42) What is the recommended way within Azure to store secrets such as private cryptographic keys?

- Azure Advanced Threat Protection (ATP)
- Within the application code
- In an Azure Storage account private blob container
- ✔ Azure Key Vault

Explanation:-Azure Key Vault is a tool for securely storing and accessing secrets. A secret is anything that you want to tightly control access to, such as API keys, passwords, or certificates. A vault is a logical group of secrets. Refer: <https://docs.microsoft.com/en-us/azure/key-vault/general/basic-concepts>

Q43) For tax optimization, which type of expense is preferable?

- ✔ OpEx

Explanation:-From the income tax perspective, most entrepreneurs prefer OpEx to CapEx. A case in point is when a business opts to lease rather than buy equipment to be able to deduct its full cash expense for leasing when computing its taxes for that accounting year. Refer:

<https://docs.microsoft.com/en-us/azure/cloud-adoption-framework/strategy/business-outcomes/fiscal-outcomes>

- CapEx

Q44) What does it mean if a service is in Private Preview mode?

- Anyone can use the service but it must not be for production use
- Anyone can use the service for any reason
- The service is generally available for use, and Microsoft will provide support for it
- ✔ You have to apply to get selected in order to use that service

Explanation:-Previews are made available to you pursuant to these additional terms, which supplement your agreement governing use of Azure. We may change or discontinue Previews at any time without notice. Refer: <https://azure.microsoft.com/en-us/support/legal/preview-supplemental-terms/>

Q45) How do you stop your Azure account from incurring costs above a certain level without your knowledge?

- Only use Azure Functions which have a significant free limit
- Switch to Azure Reserved Instances with Hybrid Benefit for VMs
- ✔ Implement the Azure spending limit in the Account Center

Explanation:-The spending limit in Azure prevents spending over your credit amount. All new customers who sign up for an Azure free account or subscription types that include credits over multiple months have the spending limit turned on by default. The spending limit is equal to the amount of credit and it can't be changed. Reference: <https://docs.microsoft.com/en-us/azure/cost-management-billing/manage/spending-limit>

- Set up a billing alert to send you an email when it reaches a certain level

Q46) What does it mean that security is a "shared model" in Azure?

- Azure takes no responsibility for security.
- ✔ Both users and Azure have responsibilities for security.

Explanation:-The shared responsibility model is used to show where the division of responsibility is when a customer moves their workloads into the cloud. Within Azure, Microsoft assumes responsibility for general datacenter components such as compute hosts, datacenter assets, and the networks that connect them. Reference: <https://www.microsoft.com/en-us/us-partner-blog/2019/05/28/microsoft-azure-government-security-capabilities-for-partners/>

- You must keep your security keys private and ensure it doesn't get out.
- Azure takes care of security completely.

Q47) What types of resources are defined as "compute resources"?

- ✔ Resources that perform some type of task that requires CPU cycles to perform the work

Explanation:-Azure offers a number of ways to host your application code. The term compute refers to the hosting model for the computing resources that your application runs on. The following flowchart will help you to choose a compute service for your application. Reference: <https://docs.microsoft.com/en-us/azure/architecture/guide/technology-choices/compute-decision-tree>

- Only Virtual Machines
- All resources that are listed in the Azure Marketplace

Q48) If you wanted to get an alert every time a new virtual machine is created, where could you create that?

- ✔ Azure Monitor

Explanation:-Create, view, and manage activity log alerts by using Azure Monitor. Activity log alerts are the alerts that get activated when a new activity log event occurs that matches the conditions specified in the alert. These alerts are for Azure resources and can be created by using an Azure Resource Manager template. They also can be created, updated, or deleted in the Azure portal. Typically, you create activity log alerts to receive notifications when specific changes occur to resources in your Azure subscription. Alerts are often scoped to particular resource groups or resources. Reference:

<https://docs.microsoft.com/en-us/azure/azure-monitor/platform/alerts-activity-log>

- Azure Dashboard
- Subscription settings
- Azure Policy

Q49) How much does a Developer level support for Azure cost?

- \$0 per month
- ✔ \$29 per month

Explanation:-Azure Support: Developer The Azure Developer offering is appropriate for companies or individuals using Microsoft Azure in a non-production environment or for trial and evaluation. Reactive technical support Support for non-Microsoft technologies running on Azure Lowest priced technical support option Reference: <https://azure.microsoft.com/en-us/support/plans/developer/>

- \$100 per month
- \$1,000 per month

Q50) What are resource groups?

- Automatically assigned groups of resources that all have the same type (virtual machine, app service, etc)
- ✔ A folder structure in Azure in which you organize resources like databases, virtual machines, virtual networks, or almost any resource

Explanation:-Resource Group - A container that holds related resources for an Azure solution. The resource group includes those resources that you want to manage as a group. You decide which resources belong in a resource group based on what makes the most sense for your organization. Reference:

<https://docs.microsoft.com/en-us/azure/azure-resource-manager/management/overview>

- Within Azure security model, users are organized into groups, and those groups are granted permissions to resources
- Based on the tag assigned to a resource by the deployment script, it is assigned to a group

Q51) Which tool within the Azure Portal will make specific recommendations based on your actual usage for how you can improve your use of Azure?

- ✔ Azure Advisor

Explanation:-Advisor is a personalized cloud consultant that helps you follow best practices to optimize your Azure deployments. It analyzes your resource configuration and usage telemetry and then recommends solutions that can help you improve the cost effectiveness, performance, high availability, and security of your Azure resources. Reference: <https://docs.microsoft.com/en-us/azure/advisor/advisor-overview>

- Azure Service Health
- Azure Dashboard
- Azure Monitor

Q52) Which feature within Azure alerts you to service issues that happen in Azure itself, not specifically related to your own resources?

- ✔ Azure Service Health

Explanation:-Azure Service Health notifies you about Azure service incidents and planned maintenance so you can take action to mitigate downtime.

Configure customizable cloud alerts and use your personalized dashboard to analyze health issues, monitor the impact to your cloud resources, get guidance and support, and share details and updates. Reference: <https://azure.microsoft.com/en-us/features/service-health/>

- Azure Monitor
- Azure Security Center
- Azure Portal Dashboard

Q53) What are two components of deploying Azure App Services applications?

- ✔ Configuration

Explanation:-Azure App Service is an HTTP-based service for hosting web applications, REST APIs, and mobile back ends. You can develop in your favorite language, be it .NET, .NET Core, Java, Ruby, Node.js, PHP, or Python. Applications run and scale with ease on both Windows and Linux-based environments Refer: <https://docs.microsoft.com/en-us/azure/app-service/overview>

- Managing operating system updates
- ✔ Packaged code
- Database scripts

Q54) Correct or Incorrect: There are no service level (SLA) guarantees when a service is in General Availability (GA)

- Correct
- ✔ Incorrect

Explanation:-SLA summary for Azure services guarantee at least 99.9% availability of the Azure Active Directory Basic and Premium services. Reference: <https://azure.microsoft.com/en-in/support/legal/sla/summary/>

Q55) A virtual machine is called what type of hosting model?

- ✔ IaaS
- SaaS
- PaaS

Q56) Which of the following is a feature of the cool access tier?

- ✔ Much cheaper to store your files than the hot access tier

Explanation:-Azure storage offers different access tiers, which allow you to store blob object data in the most cost-effective manner. The available access tiers include: Hot - Optimized for storing data that is accessed frequently. Cool - Optimized for storing data that is infrequently accessed and stored for at least 30 days. Archive - Optimized for storing data that is rarely accessed and stored for at least 180 days with flexible latency requirements (on the order of hours). Refer: <https://docs.microsoft.com/en-us/azure/storage/blobs/storage-blob-storage-tiers?tabs=azure-portal>

- Significant delays in accessing your data, up to several hours
- Most expensive option when it comes to bandwidth cost to access your files
- Cheapest option when it comes to bandwidth costs to access your files

Q57) Why would someone prefer a Consumption-based pricing model as opposed to a Time-based pricing model?

- The pricing model is simpler and easier to understand
- You can easily predict the cost of the service into the future
- ✔ You can save a lot of money if you don't use the resource often as opposed to having it available for use 24/7

Explanation:-Consumption-based billing models are predicated upon a basic concept of pay for what you use. This allows organizations to ease their way into a technology set without making a significant up-front investment. In a consumption model, the financial impact is minimized as you're incrementally paying for new integrations. Refer: <https://docs.microsoft.com/en-us/partner-center/usage-based-billing>

- It is always cheaper to pay for consumption than to pay by the hour

Q58) What is the maximum amount of Azure Storage space, a single subscription for standard storage accounts?

- ✔ Virtually unlimited

Explanation:-The number of storage accounts per region per subscription, including standard, and premium storage account is 250 and Maximum storage account capacity is 5 PiB.

- 2 TB
- 5 PB
- 500 GB

Q59) What Azure product allows you to autoscale virtual machines from 1 to 1000 instances, and also provides load balancing services built in?

- ✔ Virtual Machine Scale Sets

Explanation:-Virtual Machine Scale Sets apply autoscaling to virtual machines for high availability. Virtual Machine Scale Sets are elastic and designed to support your scale-out workloads—including stateless web front ends, container orchestration, and microservices clusters. Azure Kubernetes Service and Azure Service Fabric run on Virtual Machine Scale Sets. Reference: <https://azure.microsoft.com/en-us/services/virtual-machine-scale-sets/#features>

- Azure Virtual Machines
- Application Gateway
- Azure App Services

Q60) What is the service level agreement for two or more Azure Virtual Machines that have been manually placed into different Availability Zones in the same region?

- 90 percent
- 99.5 percent
- 100 percent
- ✔ 99.99 percent

Explanation:-Organizations get a 99.99 percent service-level agreement (SLA) assurance of uptime for VMs with Azure Availability Zones, which applies when there are "two or more VMs running in two or more zones in the same region," according to Microsoft's Azure Availability Zones homepage.

Reference: <https://docs.microsoft.com/en-us/azure/availability-zones/az-overview>

Q61) What is the benefit of using a command line tool like Powershell or CLI as opposed to the Azure portal?

- ✔ Automation

Explanation:-The Azure command-line interface (Azure CLI) is a set of commands used to create and manage Azure resources. The Azure CLI is available across Azure services and is designed to get you working quickly with Azure, with an emphasis on automation. Refer: <https://docs.microsoft.com/en-us/cli/azure/?view=azure-cli-latest>

- Cheaper
- Quicker to deploy VMs

Q62) What is the benefit of using Powershell over CLI?

- More powerful commands
- ✔ No benefit, it's the same

Explanation:-There are a lot of tools out there for managing your Azure subscriptions. We have the Portal web page, Visual Studio integration (with the Azure SDK), PowerShell commands, and the Azure CLI. Sometimes it's hard to know which one to use. In all honesty, sometimes the answer is that you choose the one you like the most and use a mixture of other tools for specific tasks because the other tools make it much simpler to accomplish what you are trying to do. Reference: <https://docs.microsoft.com/en-us/powershell/azure/get-started-azureps>

- Quicker to deploy VMs
- Cheaper

Q63) Why is user id and password sometimes not enough to prove someone is who they say they are?

- Some people might choose the same user id and password
- Passwords must be encrypted before being stored
- ✔ User id and password can be used by anyone such as a co-worker, ex-employee or hacker half-way around the world

Explanation:-Everybody who uses a computer should be assigned their own user account so that only they can access their files and programs. Each user account should be accessible only by entering a username and password in order to safeguard users' privacy. But even then User id and password can be used by anyone such as a co-worker, ex-employee or hacker half-way around the world making it insecure.

- Passwords are usually easy to forget

Q64) What is the concept of Availability?

- ✔ The percentage of time a system responds properly to requests, expressed as a percentage over time

Explanation:-Availability refers to the percentage of time a system responds properly to requests, expressed as a percentage over time Reference: <https://azure.microsoft.com/en-us/support/legal/sla/summary/>

- A system that can scale up and scale down depending on customer demand
- A system that has a single point of failure
- A system must have 100% uptime to be considered available

Q65) Which of the following elements is considered part of the "perimeter" layer of security?

- Separate servers into distinct subnets by role
- Locks on the data center doors
- Keep operating systems up to date with patches
- ✔ Use a firewall

Explanation:-Azure network security appliances can deliver better security than what network-level controls provide. Network security capabilities of virtual network security appliances include: 1. Firewalling 2. Intrusion detection/intrusion prevention 3. Vulnerability management 4. Application control 5. Network-based anomaly detection 6. Web filtering 7. Antivirus 8. Botnet protection

Q66) Which of the following is a good example of a Hybrid cloud?

- Your code is a mobile app that runs on iOS and Android phones, but it uses a database in the cloud.
- Technology that allows you to grow living tissue on top of an exoskeleton, making Terminators impossible to spot among humans.
- Your users are inside your corporate network but your applications and data are in the cloud.
- ✔ A server runs in your own environment, but places files in the cloud so that it can extend the amount of storage it has access to.

Explanation:-A hybrid cloud is a computing environment that combines a public cloud and a private cloud by allowing data and applications to be shared between them. When computing and processing demand fluctuates, hybrid cloud computing gives businesses the ability to seamlessly scale their on-premises infrastructure up to the public cloud to handle any overflow—without giving third-party datacenters access to the entirety of their data.

Organizations gain the flexibility and computing power of the public cloud for basic and non-sensitive computing tasks, while keeping business-critical applications and data on-premises, safely behind a company firewall. Reference: <https://azure.microsoft.com/en-us/overview/what-is-hybrid-cloud-computing/#:~:text=A%20hybrid%20cloud%20is%20a,to%20be%20shared%20between%20them.&text=Read%20more%20about%20hybrid%20cloud%20capabilities%20and%20getting%20started>

Q67) What does it mean if a service is in General Availability (GA) mode?

- ✔ Anyone can use the service for any reason

Explanation:-When a service goes GA it is in full production mode. It is fully supported by SLAs, customer support and is viable for production workloads. Now that the service is live it is also chargeable.

- Anyone can use the service but it must not be for production use
- You have to apply to get selected in order to use that service
- The service is generally available for use, and Microsoft will provide support for it

Q68) Which free Azure security service checks all traffic travelling over a subnet against a set of rules before allowing it in, or out.

- Azure Firewall
- ✔ Network Security Group

Explanation:-You can use Azure network security group to filter network traffic to and from Azure resources in an Azure virtual network. A network security group contains security rules that allow or deny inbound network traffic to, or outbound network traffic from, several types of Azure resources. For each rule, you can specify source and destination, port, and protocol. Reference: <https://docs.microsoft.com/en-us/azure/virtual-network/security-overview>

- Advanced Threat Protection (ARP)
- Azure DDoS Protection

Q69)

Windows servers use "remote desktop protocol" (RDP) in order for administrators to get access to manage the server. Linux servers use SSH.

What is the recommendation for ensuring the security of these protocols?

- Ensure strong passwords on your Windows admin accounts
 - Do not enable SSH access for Linux servers
 - ✔ Do not allow public Internet access over the RDP and SSH ports directly to the server. Instead use a secure server like Bastion to control access to the servers behind.
- Explanation:-**Azure Bastion is a fully managed PaaS service that provides secure and seamless RDP and SSH access to your virtual machines directly through the Azure Portal. Azure Bastion is provisioned directly in your Virtual Network (VNet) and supports all VMs in your Virtual Network (VNet) using SSL without any exposure through public IP addresses. Reference: <https://azure.microsoft.com/en-us/services/azure-bastion/>
- Disable RDP access using the Windows Services control panel admin tool

Q70) What is the minimum charge for having an Azure Account each month, even if you don't use any resources?

- Negotiated with your enterprise manager
 - ✔ zero
- Explanation:-**You get \$200 in Azure credits for the first 30 days and a limited quantity of free services for 12 months with your Azure free account. To learn about limits of free services, see the Azure free account FAQ. As long as you have unexpired credit or you use only free services within the limits, you're not charged. Refer: <https://docs.microsoft.com/en-us/azure/cost-management-billing/manage/avoid-charges-free-account>
- 200
 - 1

Q71) What would be a good reason to have multiple Azure subscriptions?

- There is one person/credit card paying for resources, and only one person who logs into Azure to manage the resources, but you want to be able to know which resources are used for which client project.
 - ✔ There is one person/credit card paying for resources, but many people who have accounts in Azure, and you need to separate out resources between clients so that there is absolutely no chance of resources being exposed between them.
 - Organizations often use multiple Azure subscriptions to avoid per-subscription resource limits and to better manage and govern their Azure resources
- Explanation:-**<https://docs.microsoft.com/en-us/azure/cloud-adoption-framework/ready/azure-best-practices/scale-subscriptions>

Q72) What is a benefit of economies of scale?

- ✔ The more you buy of something, the cheaper it is for you
- Explanation:-**Economies of scale is the ability to do things more efficiently or at a lower-cost per unit when operating at a larger scale (e.g. the ability to acquire hardware at a lower cost than if a single user or smaller business were purchasing it, cloud providers can also make deals with local governments and utilities.
- Big companies don't need to make a profit on every sale
 - Prices of cloud servers and services are always going down. It'll be cheaper next year than it is this year.
 - Big companies don't need to make a profit on the first product they sell you, because they will make a profit on the second

Q73) State whether the following statement is correct or incorrect:

Azure Cloud Shell allows access to the CLI and Powershell consoles in the Azure Portal

- ✔ Correct
- Explanation:-**You can use Cloud Shell directly from documentation hosted on docs.microsoft.com. It is integrated in Microsoft Learn, Azure PowerShell and Azure CLI documentation. Azure Cloud Shell is a flexible tool that can be used from: 1. portal.azure.com 2. shell.azure.com 3. Azure CLI 4. Azure PowerShell 5. Azure mobile app 6. Visual Studio Code Azure Account extension Refer: <https://docs.microsoft.com/en-us/azure/cloud-shell/overview>
- Incorrect

Q74) How many regions does Azure have in Brazil?

- ✔ 1
- Explanation:-**Azure has one region in Brazil South which is Zone 3. Reference: <https://azure.microsoft.com/en-us/global-infrastructure/regions/>
- 2
 - zero
 - 4

Q75) How do you get access to services in Public Preview mode?

- They are available in the marketplace. You simply use them.
 - You cannot use private preview services.
 - ✔ Clicking on the information banner customers then opt-in to
- Explanation:-**Public preview – during this phase we allow any customer with the proper Azure AD license to evaluate the new feature. Microsoft Customer Support Services will supply support services during this phase, but normal service level agreements do not apply. For new features exposed in the Azure AD Portal, customer can expect to see information banners in the user interface that draw attention to the new experience available during the preview. By clicking on the information banner customers then opt-in to the preview experience. Reference: <https://azure.microsoft.com/en-us/support/legal/preview-supplemental-terms/>
- You must agree to a terms of use first.

Q76) What is the concept of paired regions?

- When you deploy your code to one region of the world, it is automatically deployed to the paired region as an emergency backup.
 - Each region of the world has one other region, usually in a completely separate country and geography, where it makes the most sense to place your backups. Like East US 2 is paired with South Korea.
 - Azure employees in those regions sometimes go on picnics together.
 - ✔ Each region in the world has at least one other region in which it shares an extremely high speed connection, and where there is coordinated action by Azure not to do anything that will bring them both down at the same time.
- Explanation:-**An Azure region consists of a set of data centers deployed within a latency-defined perimeter and connected through a dedicated low-latency network. Each region in the world has at least one other region in which it shares an extremely high speed connection, and where there is coordinated action by Azure not to do anything that will bring them both down at the same time. Refer: <https://docs.microsoft.com/en-us/azure/best-practices-availability-paired-regions>

Q77) Who is responsible for the security of your Azure Storage account access keys?

- ✔ I am responsible for securing the access keys

Explanation:-When you create a storage account, Azure generates two 512-bit storage account access keys. These keys can be used to authorize access to data in your storage account via Shared Key authorization. Microsoft recommends that you use Azure Key Vault to manage your access keys, and that you regularly rotate and regenerate your keys. Using Azure Key Vault makes it easy to rotate your keys without interruption to your applications. You can also manually rotate your keys. Refer: <https://docs.microsoft.com/en-us/azure/storage/common/storage-account-keys-manage?tabs=azure-portal>

- Azure is responsible for securing the access keys

Q78) What service does Azure provide as an optional upgrade to protect against DDoS attacks?

- Azure protects against DDoS as part of its basic offering and there is no service you can upgrade to
- ✔ Azure DDoS Protection Standard

Explanation:-Azure DDoS Protection Standard is an offering which provides additional DDoS mitigation capabilities and is automatically tuned to protect your specific Azure resources. Protection is simple to enable on any new or existing Virtual Network and requires no application or resource changes.

Reference: <https://docs.microsoft.com/en-us/azure/virtual-network/ddos-protection-overview>

- Azure DDoS Protection Basic
- Advanced Threat Protection (ATP)

Q79) What Azure tool gives you the ability to manage multiple subscriptions into nested hierarchies?

- Azure Active Directory
- Resource Groups
- ✔ Management Groups

Explanation:-Management groups are containers that help you manage access, policy, and compliance across multiple subscriptions. Create these containers to build an effective and efficient hierarchy that can be used with Azure Policy and Azure Role Based Access Controls. Refer:

<https://docs.microsoft.com/en-us/azure/governance/management-groups/create>

- RBAC

Q80) What is Single Sign-On?

- When you sign into an application, it remembers who you are the next time you go there.
- When an application outsources (federates) its identity service to a third-party platform
- ✔ The ability to use an existing userid and password to sign in other applications, and not have to create/memorize a new one.

Explanation:-Moving to Azure Cloud Services can also present an opportunity to update your authentication and authorization mechanism, especially if you find you need to perform some refactoring of the code. Modern applications increasingly use a claims-based authentication mechanism, including federated identity and single sign-on (SSO). This type of mechanism allows users to sign on using a range of existing credentials rather than requiring specific credentials just for your application, and to sign on only once when accessing more than one application or Web site. The access-control feature of Azure Active Directory, along with Windows Identity Framework (WIF), makes implementing claims-based authentication and federated identity easy.

Reference: <https://docs.microsoft.com/en-us/archive/msdn-magazine/2013/march/microsoft-azure-moving-your-applications-to-microsoft-azure>

Q81) Which tool within Azure helps you to track your compliance with various international standards and government laws?

- Service Trust Portal
- ✔ Compliance Manager

Explanation:-Microsoft Compliance Manager (preview) is a free workflow-based risk assessment tool in the Microsoft Service Trust Portal for managing regulatory compliance activities related to Microsoft cloud services. Part of your Microsoft 365, Office 365, or Azure Active Directory subscription, Compliance Manager helps you manage regulatory compliance within the shared responsibility model for Microsoft cloud services. Reference:

<https://docs.microsoft.com/en-us/microsoft-365/compliance/compliance-manager-overview?view=o365-worldwide>

- Microsoft Privacy Statement
- Azure Government Services

Q82) What is the most number of virtual machines that can be managed under a single Virtual Machine Scale Set?

- ✔ 1000

Explanation:-Scale sets support up to 1,000 VM instances. If you create and upload your own custom VM images, the limit is 600 VM instances. For the best performance with production workloads, use Azure Managed Disks.

- 10
- 1
- 100

Q83) Logic apps, functions, and service fabric are all examples of what model of compute within Azure?

- SaaS model
- ✔ Serverless model

Explanation:-Serverless Model offers to build, deploy, and operate serverless apps on an end-to-end platform. Deliver more value to the core of your business by minimizing the time and resources you spend on infrastructure-related requirements. Use fully managed, end-to-end Azure serverless solutions to boost developer productivity, optimize resources, and accelerate the pace of innovation. Refer: <https://azure.microsoft.com/en-us/solutions/serverless/>

- App Services Model
- IaaS model

Q84) What benefit does a Content Delivery Network (CDN) provide its users?

- Allows you to keep temporarily session information on the web visitor such as their login ID or their name
- For a small fee, Azure will take over management of your virtual machine, perform OS updates and ensure it's running well
- ✔ Allows you to reduce the traffic coming into a web server for static, unchanging files such as images, videos and PDFs

Explanation:-Azure Content Delivery Network (CDN) is a global CDN solution for delivering high-bandwidth content. It can be hosted in Azure or any other location. With Azure CDN, you can cache static objects loaded from Azure Blob storage, a web application, or any publicly accessible web server, by using the closest point of presence (POP) server. Azure CDN can also accelerate dynamic content, which cannot be cached, by leveraging various network and routing optimizations. Reference: <https://docs.microsoft.com/en-us/azure/cdn/>

- Allows you to store data that can be retrieved later in an extremely fast and inexpensive manner

Q85) What is a DDoS attack?

- An attempt to send SQL commands to the server in a way that it will execute them against the database
- An attempt to read the contents of a web page from another website, thereby stealing the user's private information
- An attempt to guess a user's password through brute force methods
- ✔ A denial of service attack that sends so much traffic to a network that it cannot respond fast enough; legitimate users become unable to use the service

Explanation:-A DDoS attack attempts to exhaust an application's resources, making the application unavailable to legitimate users. DDoS attacks can be targeted at any endpoint that is publicly reachable through the internet. Refer: <https://docs.microsoft.com/en-us/azure/virtual-network/ddos-protection-overview>

Q86) Can you give someone else access to your Azure subscription without giving them your user name and password?

- ✔ Correct

Explanation:-By default, the person who creates a new Azure subscription can assign other users administrative access to a subscription. Refer:

Q87) Where is Azure's region in Africa located?

☒ South Africa

Explanation:-Azure services are now available from our new cloud regions in Johannesburg (South Africa North) and Cape Town (South Africa West), South Africa. The launch of these regions marks a major milestone for Microsoft as we open our first enterprise-grade datacenters in Africa, becoming the first global provider to deliver cloud services from datacenters on the continent. Refer: <https://azure.microsoft.com/en-us/updates/azure-south-africa-regions-are-now-available/>

- ☐ Cameroon
- ☐ Nigeria
- ☐ Egypt

Q88) Which major cloud provider offers the most international locations for customers to provision virtual machines and other servers?

☒ Microsoft Azure

Explanation:-Microsoft Azure has more global regions than any other cloud provider—offering the scale needed to bring applications closer to users around the world. <https://azure.microsoft.com/en-in/global-infrastructure/locations/>

- ☐ Amazon AWS
- ☐ Google Cloud Platform

Q89) What type of storage account is used to collect log and metric data from various Azure Resources?

☒ Log Analytics Workspace

Explanation:-Platform logs in Azure, including the Azure Activity log and resource logs, provide detailed diagnostic and auditing information for Azure resources and the Azure platform they depend on. Platform metrics are collected by default and typically stored in the Azure Monitor metrics database. Reference: <https://docs.microsoft.com/en-us/azure/azure-monitor/platform/diagnostic-settings>

- ☐ Azure Monitor account
- ☐ Managed Storage
- ☐ Append Blob Storage

Q90) Correct or Incorrect: Azure is a public cloud, and has no private cloud offerings

☐ Correct

☒ Incorrect

Explanation:-Azure supports three approaches to deploying cloud resources - public, private, and the hybrid cloud. Selecting between them will change several factors of the services you move into Azure including cost, maintenance requirements, and security. Reference: <https://docs.microsoft.com/en-us/learn/modules/align-requirements-in-azure/>

Q91) What is the main management tool used for managing Azure resources with a graphical user interface?

☒ Azure Portal

Explanation:-The Azure portal is a web-based, unified console that provides an alternative to command-line tools. With the Azure portal, you can manage your Azure subscription using a graphical user interface Reference: <https://docs.microsoft.com/en-us/azure/azure-portal/azure-portal-overview#:~:text=What%20is%20the%20Azure%20portal,using%20a%20graphical%20user%20interface.>

- ☐ Remote Desktop Protocol (RDP)
- ☐ Azure Storage Explorer
- ☐ PowerShell

Q92) What is the name of the group of services inside Azure that host the Apache Hadoop big data analysis tools?

- ☐ Azure Kubernetes Services
- ☐ Azure Hadoop Services
- ☐ Azure Data Factory
- ☒ HDInsight

Explanation:-Azure HDInsight is a fully managed, full-spectrum, open-source analytics service in the cloud for enterprises. The Apache Hadoop cluster type in Azure HDInsight allows you to use HDFS, YARN resource management, and a simple MapReduce programming model to process and analyze batch data in parallel. Refer: <https://docs.microsoft.com/en-us/azure/hdinsight/hadoop/apache-hadoop-introduction>

Q93) Correct or Incorrect: You should not use preview mode features for production applications

☒ Correct

Explanation:-Preview features are features that aren't complete, but are made available on a "preview" basis so customers can get early access and provide feedback. Preview features: Are subject to separate Supplemental Terms of Use. Reference: <https://docs.microsoft.com/en-us/power-platform/admin/what-are-preview-features-how-do-i-enable-them>

☐ Incorrect

Q94) If you wanted to simply use Azure as an extension of your own datacenter, not primarily hosting anything there but using it for extra storage or taking advantage of some services, what hosting model is that called?

☒ Hybrid Cloud

Explanation:-Often called "the best of both worlds," hybrid clouds combine on-premises infrastructure, or private clouds, with public clouds so organisations can reap the advantages of both. In a hybrid cloud, data and applications can move between private and public clouds for greater flexibility and more deployment options. For instance, you can use the public cloud for high-volume, lower-security needs such as web-based email and the private cloud (or other on-premises infrastructure) for sensitive, business-critical operations like financial reporting. In a hybrid cloud, "cloud bursting" is also an option. This is when an application or resource runs in the private cloud until there is a spike in demand (such as seasonal event like online shopping or tax filing), at which point the organisation can "burst through" to the public cloud to tap into additional computing resources. Refer: <https://azure.microsoft.com/en-in/overview/what-are-private-public-hybrid-clouds/>

- ☐ Public cloud
- ☐ Private cloud

Q95) What is Azure's preferred Identity/authentication service?

☒ Azure Active Directory

Explanation:-Azure Active Directory (Azure AD) is Microsoft's cloud-based identity and access management service, which helps your employees sign in and access resources in: External resources, such as Microsoft Office 365, the Azure portal, and thousands of other SaaS applications. Internal resources, such as apps on your corporate network and intranet, along with any cloud apps developed by your own organization. For more information about creating a tenant for your organization, see Quickstart: Create a new tenant in Azure Active Directory. Reference: <https://docs.microsoft.com/en-us/azure/active-directory/fundamentals/active-directory-whatis>

- ☐ Facebook Connect
- ☐ Network Security Group

Q96) What feature within Azure will make recommendations to you about reducing cost on your account?

- Azure Dashboard
- ✓ Azure Advisor

Explanation:-Azure Advisor analyzes your configurations and usage telemetry and offers personalized, actionable recommendations to help you optimize your Azure resources for high availability, security, operational excellence, performance, and cost. Reference: <https://azure.microsoft.com/en-us/services/advisor/>

- Azure Service Health
- Azure Security Center

Q97) Which European nation has it's own Azure Region that is specifically set for strict adherence to data privacy standard unlike any other region?

- ✓ Germany

Explanation:-Azure Germany is available to eligible customers and partners globally who intend to do business in the EU/EFTA, including the United Kingdom. Refer: <https://azure.microsoft.com/en-us/global-infrastructure/geographies/>

- UK
- Norway
- France

Q98) Where is Azure's region in the Middle East located?

- ✓ UAE

Explanation:-Both Azure and Office 365 are now generally available from our first cloud datacenter regions in the Middle East, located in the United Arab Emirates (UAE). Reference: <https://azure.microsoft.com/en-us/blog/first-microsoft-cloud-regions-in-middle-east-now-available/>

- Jordan
- Saudi Arabia
- Turkey

Q99) Why should you divide your application into multiple subnets as opposed to having all your web, application and database servers running on the same subnet?

- There are only a limited number of IP addresses available per subnet, so you need multiple subnets over a certain number.
- Each server type of your application requires its own subnet. It's not possible to mix web servers, database servers and application servers on the same subnet.
- ✓ Separating your application into multiple subnets allows you to have different NSG security rules for each subnet, which can make it harder for a hacker to get from one compromised server onto another.

Explanation:-Subnets enable you to segment the virtual network into one or more sub-networks and allocate a portion of the virtual network's address space to each subnet. You can then deploy Azure resources in a specific subnet. Just like in a traditional network, subnets allow you to segment your VNet address space into segments that are appropriate for the organization's internal network. This also improves address allocation efficiency. You can secure resources within subnets using Network Security Groups. Reference: <https://docs.microsoft.com/en-us/azure/virtual-network/virtual-networks-overview>

Q100) What operating systems does an Azure Virtual Machine support?

- ✓ Windows and Linux

Explanation:-In addition to various Windows Server versions, Azure supports all the major Linux distributions, including Red Hat Enterprise Linux, CentOS, CoreOS, Debian, Oracle Linux, SUSE Linux Enterprise, openSUSE, and Ubuntu. Refer: <https://azure.microsoft.com/en-us/services/virtual-machines/#faqs>

- Windows, Linux and macOS
- macOS
- Linux
- Windows