

Q1) Your organization plans to run all its IT operations from Azure. The corporate security team needs a platform from which it can respond to incidents rapidly and investigate security threats by using artificial intelligence (AI). What Azure product should you recommend to the security team?

- Azure Log Analytics
- Azure Sentinel

Explanation:-Microsoft Azure Sentinel is a scalable cloud-native security information event management (SIEM) and security orchestration automated response (SOAR) solution. Azure Sentinel delivers intelligent security analytics and threat intelligence across the enterprise, providing a single solution for alert detection, threat visibility, proactive hunting, and threat response.

Azure Sentinel provides a bird's-eye view across the enterprise, alleviating the stress of increasingly sophisticated attacks, increasing volumes of alerts, and long resolution timeframes. It allows you to do the following:

- Collect data at cloud scale across all users, devices, applications, and infrastructure, both on-premises and in multiple clouds
- Detect previously undetected threats and minimize false positives using Microsoft's analytics and unparalleled threat intelligence
- Investigate threats with artificial intelligence and hunt for suspicious activities at scale, tapping into years of cybersecurity work at Microsoft
- Respond to incidents rapidly with built-in orchestration and automation of common tasks

- Azure Security Center
- Azure Monitor

Q2) A company is planning on using an Azure storage account. They are planning on provisioning an Azure storage account of the kind "General Purpose v2". Would the company be charged only for the amount of data stored and not for the amount of read and write operations?

- Incorrect

Explanation:-The cost of Azure storage depends on several factors, and one of them includes the number of read and write operations.

The Microsoft documentation mentions the following: when it comes to an example of pricing for Block Blob storage.

- Correct

Q3) A company is planning on setting up a string of Azure Storage Accounts. Is the transfer of data between Azure storage accounts in different Azure regions free of cost?

- Incorrect

Explanation:-All services that do cross regional data transfers are subjected to a cost.

A snippet of the cost from the Microsoft documentation is given below

- Correct

Q4) A company is planning on setting up a solution on the Azure platform. The solution has the following key requirement:

= be able to collect events from multiple sources and then relay them to an application

Which of the following would be best suited for this requirement?

- Azure Kubernetes
- Azure DevTest Labs
- Azure DevOps
- Azure Event Grid

Explanation:-This can be achieved with the Azure Event Grid service. Azure Event Grid allows you to easily build applications with event-based architectures. First, select the Azure resource you would like to subscribe to, and then give the event handler or WebHook endpoint to send the event to. Event Grid has built-in support for events coming from Azure services, like storage blobs and resource groups. Event Grid also has support for your own events, using custom topics. You can use filters to route specific events to different endpoints, multicast to multiple endpoints, and make sure your events are reliably delivered. Azure Event Grid is deployed to maximize availability by natively spreading across multiple fault domains in every region, and across availability zones (in regions that support them). Reference: <https://docs.microsoft.com/en-us/azure/event-grid/overview>

Q5) A company is planning on using the Azure Firewall service. Would the Azure firewall service encrypt all network traffic sent from Azure to the Internet?

- Incorrect

Explanation:-The Azure Firewall service is primarily used to protect your network infrastructure.

The Microsoft documentation mentions the following:

- Correct

Q6) A company is planning on using Network Security Groups. Could network security groups be used to encrypt all network traffic sent from Azure to the Internet?

- Incorrect

Explanation:-Network Security Groups are used to restrict Inbound and Outbound traffic. It can't be used to encrypt traffic.

The Microsoft documentation mentions the following:

- Correct

Q7)

TPT Ltd. plans to deploy an Azure Windows Server 2016 virtual machine. Can TPT Ltd. use the VMs to encrypt all traffic from the virtual machine itself to a host on the Internet?

- No, they cannot.
- Yes, they can.

Explanation:-

We can install roles such as the Remote Access Server for VPN to ensure traffic is encrypted when it flows out of the server.

Refer: <https://docs.microsoft.com/en-us/windows-server/remote/remote-access/vpn/always-on-vpn/deploy/vpn-deploy-ras>

Q8) You are planning on deploying an Azure virtual machine. Of the following storage services, which is used to store the data disks for the virtual machine?

- Files
- Tables
- Blob

Explanation:-The data disks are stored in the Blob service of Azure storage accounts. Azure page blobs are the backbone of the virtual disks platform for Azure IaaS. Both Azure OS and data disks are implemented as virtual disks where data is durably persisted in the Azure Storage platform and then delivered to the virtual machines for maximum performance.

Reference: <https://docs.microsoft.com/en-us/azure/databricks/data/data-sources/azure/azure-storage>

- Queues

Q9) A company currently has the following unused resources as part of their subscription

- 10 user accounts in Azure AD
- 5 user groups in Azure AD
- 10 public IP address
- 10 network Interfaces

They want to reduce the costs for resources hosted in Azure

They decide to remove the user accounts from Azure AD

Would this fulfill the requirement?

- Incorrect

Explanation:-When you look at the pricing for Azure Active Directory, you can create 5,00,000 objects as part of the free version. These objects include both users and groups.

The Microsoft documentation mentions the following:

- Correct

Q10) A company currently has the following unused resources as part of their subscription

- 10 user accounts in Azure AD
- 5 user groups in Azure AD
- 10 public IP address
- 10 network Interfaces

They want to reduce the costs for resources hosted in Azure

They decide to remove the user groups from Azure AD

Would this fulfill the requirement?

- Incorrect

Explanation:-When you look at the pricing for Azure Active Directory, you can create 5,00,000 objects as part of the free version. These objects include both users and groups.

The Microsoft documentation mentions the following:

- Correct

Q11) Your company plans to purchase Azure.

The company's support policy states that the Azure environment must provide an option to access support engineers by phone or email.

You need to recommend which support plan meets the support policy requirement.

Solution: Recommend a Standard support plan.

Does this meet the goal?

- Correct

Explanation:-The Standard plan comes with phone and email support.

- Incorrect

Q12) A company currently has the following unused resources as part of their subscription

- 10 user accounts in Azure AD
- 5 user groups in Azure AD
- 10 public IP address
- 10 network Interfaces

They want to reduce the costs for resources hosted in Azure

They decide to remove the network interfaces from Azure AD

Would this fulfill the requirement?

- Incorrect

Explanation:-There is no price for network interfaces, so this would not help reduce the cost.

- Correct

Q13) A company is planning on moving some of their on-premise resources to Azure. They have to provide a business justification for moving to Azure. They have to classify expenses as part of the business justification. Which category would the following expense come under?

"Software Licensing"

- Operating Expenditure

Explanation:-This expense comes under the operating expense category.

The Microsoft documentation gives examples of operating expenses.

- Primary Expenditure
 - Capital Expenditure
 - Secondary Expenditure
-

Q14) A company is planning on moving some of their on-premise resources to Azure. They have to provide a business justification for moving to Azure. They have to classify expenses as part of the business justification. Which category would the following expense come under?

"Cooling expenses"

- Operating Expenditure

Explanation:-This expense comes under the operating expense category.

The Microsoft documentation gives examples of operating expenses

- Primary Expenditure
 - Capital Expenditure
 - Secondary Expenditure
-

Q15) A company is planning on moving some of their on-premise resources to Azure. They have to provide a business justification for moving to Azure. They have to classify expenses as part of the business justification. Which category would the following expense come under?

"New On-premise performance cluster to host a Big Data solution"

- Secondary Expenditure
- Capital Expenditure

Explanation:-This expense comes under the capital expense category.

The Microsoft documentation gives examples of capital expenses

- Primary Expenditure
 - Operating Expenditure
-

Q16) A company has just setup an Azure subscription and an Azure tenant. They want to start deploying resources on the Azure platform. They want to implement a way to logically group the resources. Which of the following could be used for this requirement?

- Azure Resource Groups

Explanation:-This can be done with the help of resources groups.

The Microsoft documentation mentions the following:

- Availability Zones
 - Azure Resource Manager
 - Azure Regions
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Q17)

Your company has just set up an Azure subscription and an Azure tenant. They want to use recommendations given by the Azure Advisor tool.

If your company starts implementing the recommendations given by the Azure Advisor tool, would the company's security score decrease?

- Incorrect

Explanation:-

If you improve the security stance of your resources, your security score will increase. The security score is maintained in Azure Security Center.

To improve your secure score, remediate security recommendations from your recommendations list. You can remediate each recommendation manually for each resource, or by using the Quick Fix! option (when available) to apply remediation for a recommendation to a group of resources quickly.

Refer: <https://docs.microsoft.com/bs-latn-ba/azure/security-center/secure-score-security-controls>

An 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.

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

- Correct
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Q18) Your organization plans to migrate much of its local business data to Microsoft Azure, and you need to research Microsoft's compliance certifications. Where should you look?

- Service Trust Portal

- Trust Center

Explanation:-Azure Trust Center was launched with the goal of providing customers and partners with easier access to regulatory compliance information.

- TCO Calculator
 - Cloud Adoption Framework
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Q19) Your organization runs its line-of-business (LOB) applications in virtual machines (VMs) located on an Azure virtual network. You need to protect these VMs against a distributed denial of service (DDoS) attack while reducing the costs to a minimum. Which of these solutions best fits the requirements?

- Enable the Azure Security Center Standard pricing tier.

- No action is necessary.

Explanation:-Distributed denial of service (DDoS) attacks are some of the largest availability and security concerns facing customers moving their applications to the cloud. 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. The Azure Basic DDoS service tier is automatically enabled as part of the Azure platform. Always-on traffic monitoring and real-time mitigation of common network-level attacks provide the same defenses utilized by Microsoft's online services.

- Implement Azure DDoS Protection Standard.
- Configure Azure Traffic Manager.

Q20) An organization has an information security policy in place that mandates protection of the organization's Azure environment against known and unknown threats. Which of these solutions best fits the requirements?

- Azure MFA Server
- Azure Information Protection (AIP)
- Azure Advanced Threat Protection

Explanation:-Azure Advanced Threat Protection (ATP) is a cloud-based security solution that leverages your on-premises Active Directory signals to identify, detect, and investigate advanced threats, compromised identities, and malicious insider actions directed at your organization. Azure ATP enables SecOp analysts and security professionals struggling to detect advanced attacks in hybrid environments to:

- Monitor users, entity behavior, and activities with learning-based analytics
- Protect user identities and credentials stored in Active Directory
- Identify and investigate suspicious user activities and advanced attacks throughout the kill chain
- Provide clear incident information on a simple timeline for fast triage
- Conditional Access policies

Q21) A company is planning on hosting a set of resources in Microsoft Azure.

They want to protect their resources against DDoS attacks and also get real time attack metrics.

Which of the following should the company select to meet this requirement?

- DDoS Protection Isolated
- DDoS Protection Premium
- DDoS Protection Standard

Explanation:-DDoS Protection Standard is correct because DDoS Standard Protection provides additional mitigation capabilities over the Basic service tier that are tuned specifically to Azure Virtual Network resources. DDoS Protection Standard is simple to enable, and requires no application changes. Protection policies are tuned through dedicated traffic monitoring and machine learning algorithms. Policies are applied to public IP addresses associated to resources deployed in virtual networks, such as Azure Load Balancer, Azure Application Gateway, and Azure Service Fabric instances, but this protection does not apply to App Service Environments. Real-time telemetry is available through Azure Monitor views during an attack, and for history. Rich attack mitigation analytics are available via diagnostic settings. Application layer protection can be added through the Azure Application Gateway Web Application Firewall or by installing a 3rd party firewall from Azure Marketplace. Protection is provided for IPv4 and IPv6 Azure public IP addresses.

For more information, please visit:

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

DDoS Protection Premium is incorrect because Microsoft Azure only provides Basic and Standard DDoS Protection.

For more information, please visit:

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

DDoS Protection Isolated is incorrect because Microsoft Azure only provides Basic and Standard DDoS Protection.

For more information, please visit:

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

DDoS Protection Basic is incorrect because Basic DDoS protection is automatically enabled as part of the Azure platform. Always-on traffic monitoring, and real-time mitigation of common network-level attacks, provide the same defenses utilized by Microsoft's online services. The entire scale of Azure's global network can be used to distribute and mitigate attack traffic across regions. Protection is provided for IPv4 and IPv6 Azure public IP addresses.

For more information, please visit:

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

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- DDoS Protection Basic

Q22) A company wants to make use of an Azure service that can be used to store certificates. Which of the following could be used for storing certificates?



Explanation:-You can store certificates in the Azure Key vault service.

- Azure Storage Account
- Azure Security Center
- Azure Identity Protection

Q23) Which of the following category does Azure Kubernetes come under?



Explanation:-Azure Kubernetes comes under the “Infrastructure as a service” category.

The Microsoft documentation mentions the following:

- Platform as a service
- Software as a service
- Hardware as a service

Q24)

A company is planning on using an Azure App Service to host their set of web applications utilizing the Platform-as-a-Service (PaaS) cloud computing model.

"In the PaaS model, Microsoft Azure provide full control over the operating system that hosts the web applications."

Does this statement hold true?



Explanation:-

Platform as a service (PaaS) is a complete development and deployment environment in the cloud, with resources that enable you to deliver everything from simple cloud-based apps to sophisticated, cloud-enabled enterprise applications. You purchase the resources you need from a cloud service provider on a pay-as-you-go basis and access them over a secure Internet connection.

Platform-as-a-Service (PaaS) cloud computing model, Microsoft Azure has full control over the physical data center, networking, firewalls/security, servers, storage, operating systems, development tools, database management tools and business analytics.

In an Infrastructure-as-a-Service (IaaS) cloud computing model, Microsoft Azure only has full control over the physical data center, networking, firewalls/security, servers, and storage, but not the operating systems, development tools, databases, or applications. Microsoft Azure has full control over everything, you would need to simply choose or provide the application solution.

For more information on IaaS, please visit:

<https://azure.microsoft.com/en-us/overview/what-is-iaas/>

For more information on PaaS, please visit:

<https://azure.microsoft.com/en-us/overview/what-is-paas/>

For more information on SaaS, please visit:

<https://azure.microsoft.com/en-us/overview/what-is-saas/>



Explanation:-

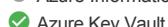
Q25) Which Azure product is shown in the following screen?



Explanation:-Azure Trust Center was launched with the goal of providing customers and partners with easier access to regulatory compliance information.

- Azure Privacy
- Azure Marketplace

Q26) An organization is adopting public cloud services, and Azure has been selected as a cloud of choice. The information security team has expressed concern about possible exposure of administrative credentials during the deployment and operations phases. Which of the following Azure solutions enables encryption of the administrative credentials?



Explanation:-Azure Key Vault enables Microsoft Azure applications and users to store and use several types of secret/key data, including the following:

- Cryptographic keys: Azure Key Vault supports multiple key types and algorithms and enables the use of hardware security modules (HSM) for high-value keys.
- Secrets: Azure Key Vault provides secure storage of secrets, such as passwords and database connection strings.
- Certificates: Azure Key Vault supports certificates, which are built on top of keys and secrets and add an automated renewal feature.
- Azure Storage: Azure Key Vault can manage keys of an Azure Storage account for you. Internally, Key Vault can list (sync) keys with an Azure Storage account and regenerate (rotate) the keys periodically.



Q27) Your organization has deployed an Azure VNet with two subnets hosting the front-end web server VMs and back-end database server VMs, as shown in the following diagram. The security administrator is mandated to filter traffic coming from the Internet as well as between the front-end subnet and the back-end subnet, based on IP addresses. What is represented by ? in the figure?

- Proxy endpoint
- VPN gateway
- Azure Security Center
- Azure network security groups (NSGs)

Explanation:-You can use Azure network security groups (NSGs) to filter network traffic to and from Azure resources in an Azure virtual network (VNet). 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.

Q28) An organization's IT administrator has deployed several virtual machines in the organization's Azure environment. From a cost viewpoint, what is the best course of action when virtual machines are not required for a period of time (such as one week)?

- The IT administrator should delete existing subscriptions.
- The IT administrator should stop the VM(s).
- The IT administrator should stop (deallocate) the VM(s).

Explanation:-There are two ways a VM can be stopped, resulting into two states from a cost viewpoint:

- Azure's stopped state: You or a process running on the OS in the VM shuts down the OS. In most cases, you or a subscription co-administrator controls when this happens. As part of managing the VM, you might need to manually shut down the OS temporarily (for example, to reconfigure an application running on the VM). You might also want to run other tools that shut down the OS (for example, Sysprep on a Windows VM). The OS in the VM is stopped, and the VM services are unavailable, but the VM continues to reserve the compute and network resources that Azure provisioned, and, hence, Azure keeps you charging for these resources.
- Azure's deallocated state: Azure shuts down the VM by using Azure tools or processes. In most cases, you or a subscription co-administrator controls when this happens. If you do not need to use the VM immediately and want to minimize costs but also want to be able to resume work with the VM later, you can shut down the VM (for example, by selecting the VM in the management portal and clicking Shut down). By stopping (deallocating) a VM, you not only stop the VM's OS but also free up the hardware and network resources Azure previously provisioned for it (a process called deallocation).

- The IT administrator should move the VM(s) out of Azure.

Q29) A company wants to migrate their current on-premise servers to the cloud utilizing Microsoft Azure.

They require that their servers are running even in the event that a single Data Center goes down.

Which of the following terms best refers to the concept that needs to be implemented to fulfill this requirement?

- Low Latency
- Scalability
- Elasticity
- Fault tolerance

Explanation:-A context clue is given in the question itself that helps identify which term best describes the concept the company wants, "They want to ensure that their servers are running even in the event that a single Data Center goes down".

Fault Tolerance is a concept in IT in which a computer system or set of infrastructure is designed in such a way that when one component fails (be it hardware , software, or network) a backup component takes over operations immediately so that there is no loss of service. So if the company hosted servers at two Data Centers, even if one Data Center went down the other Data Center would "turn on" and continue running those servers without any loss in service.

It is also good to know why options B,C,D are incorrect and the easiest way is to simply remember their definitions:

Elasticity is a term related to scaling. Elastic computing is the ability to quickly expand or decrease computer processing, memory, or storage resources to meet changing demands.

Scalability is a term related to the adaptability of the system to the changed amount of workload or traffic to the web application. You can "Scale-up" (Upgrade the capacity of the host where the app is hosted by increasing RAM size for example) and you can "Scale-out" (Upgrade the capacity of the hosted application by increasing the number of host instances such as having a 'Load Balancer' where your application is hosted on multiple instances).

Low Latency is a term that describes a computer network that is optimized to process a very high volume of data with minimal delay (latency).

Refer: <https://docs.microsoft.com/en-us/archive/msdn-magazine/2015/september/microsoft-azure-fault-tolerance-pitfalls-and-resolutions-in-the-cloud>

Q30) Your company is planning on setting up an Azure subscription and an Azure tenant using Azure Active Directory. Would the company need to implement domain controllers on Azure virtual machines to use the Azure AD service?

- Incorrect

Explanation:-Azure Active Directory is a completely managed service. You don't need to provision any infrastructure to implement Azure Active Directory

- Correct

Q31) Your company is planning on setting up an Azure subscription and an Azure tenant using Azure Active Directory. Does Azure Active Directory provide authentication services for services hosted in Azure and Microsoft Office 365?

- Incorrect



Explanation:-You can use Azure Active Directory to authenticate to both Azure based resources and also to Microsoft office 365. Reference: <https://azure.microsoft.com/en-us/services/active-directory/>

Q32) Your company is planning on setting up an Azure subscription and an Azure tenant using Azure Active Directory. Is it true that multiple licenses cannot be assigned to a single user in Azure Active Directory ?



Explanation:-You can assign multiple licences for a user in Azure Active Directory.

As shown below for each user, you can assign a license depending on what licences have been purchased



Q33) A company is planning on deploying a web application to the Azure Web App service. Would the company administrative team have full control over the underlying machine hosting the web application?



Explanation:-The Azure Web App service is Platform as a service. Here the underlying infrastructure is completely managed by Azure.

The Microsoft documentation mentions the following:



Q34) A company has just setup an Azure subscription and an Azure tenant. They want to implement strict policies when it comes to the security of Azure resources. They want to implement the following requirements:

“Ensure that the Virtual Machine Administrator team can only deploy virtual machines of a particular size”

Which of the following could be used to fulfill the below requirement?



Explanation:-You can accomplish this with the help of policies. There is an in-built policy also available for this purpose



Q35) A company has just setup an Azure subscription and an Azure tenant. They want to implement strict policies when it comes to the security of Azure resources. They want to implement the following requirements:

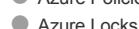
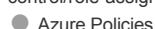
“Ensure that the Virtual Machine Administrator team can only deploy virtual machines and their dependent resources.”

Which of the following could be used to fulfill the below requirement?



Explanation:-You can achieve this with Role-Based Access Control. You can deploy the Administrators to one group and just provide the role for virtual machine access. Azure role-based access control (Azure RBAC) is a system that provides fine-grained access management of Azure resources. Using Azure RBAC, you can segregate duties within your team and grant only the amount of access to users that they need to perform their jobs.

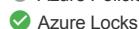
Refer: <https://docs.microsoft.com/en-us/azure/role-based-access-control/overview> and <https://docs.microsoft.com/en-us/azure/role-based-access-control/role-assignments-portal>



Q36) A company has just setup an Azure subscription and an Azure tenant. They want to implement strict policies when it comes to the security of Azure resources. They want to implement the following requirements:

“Ensure that no one can accidentally delete the virtual machines deployed by the Virtual Machine Administrator team”

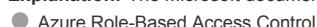
Which of the following could be used to fulfill the below requirement?



Explanation:-This can be achieved with the help of Azure Locks.



Explanation:-The Microsoft documentation mentions the following:



Q37) A company has just started using Azure. They have setup resources as part of their subscription. They want to get the current costs being incurred.

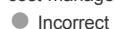
They decide to use Azure Cost Management to get this information.

Would this fulfill the requirement?



Explanation:-Yes, this would give a cost breakdown for the resources being used in Azure. Azure Cost Management, available to all Azure customers and partners, is a SaaS solution that empowers organizations to monitor, allocate, and optimize cloud spend in a multi-cloud environment. Azure Cost Management is available for free to all customers and partners to manage their Azure spend.

An example is given below where you go to the Cost Analysis section in Cost Management. Refer: <https://azure.microsoft.com/en-us/blog/use-azure-cost-management-for-free>



Q38) A company has just started using Azure. They have setup resources as part of their subscription. They want to get the current costs being incurred.

They decide to use the Pricing Calculator to get this information.

Would this fulfill the requirement?

Incorrect

Explanation:-The question says "They want to get the current costs being incurred"

Obviously the answer is NO , because the "Current costs" of the resources can be got from the "Cost Management" in the Azure Portal.

"Pricing Calculator" is only used to get the "estimated cost" of using an Azure resource

Correct

Q39) A company is currently planning on setting up resources as part of their Azure subscription. They are looking at different security options that can be used to secure their Azure environment.

Which of the following could be used for the following requirement?

"Provide the ability to restrict traffic into Azure virtual machines"

- Azure Multi-Factor Authentication
- Azure Network Security Groups

Explanation:-This can be accomplished with the help of Network Security Groups

- Azure Key Vault
- Azure DDoS Protection

Q40)

You have an on-premises application that sends email notifications automatically based on a rule.

You plan to migrate the application to Azure.

You need to recommend a serverless computing solution for the application.

What should you include in the recommendation?

- A logic app

Explanation:-Azure Logic Apps is a cloud service that helps you schedule, automate, and orchestrate tasks, business processes, and workflows when you need to integrate apps, data, systems, and services across enterprises or organizations. Logic Apps simplifies how you design and build scalable solutions for app integration, data integration, system integration, enterprise application integration (EAI), and business-to-business (B2B) communication, whether in the cloud, on premises, or both. For example, here are just a few workloads you can automate with logic apps: 1. Process and route orders across on-premises systems and cloud services. 2. Send email notifications with Office 365 when events happen in various systems, apps, and services. 3. Move uploaded files from an SFTP or FTP server to Azure Storage. 4. Monitor tweets for a specific subject, analyze the sentiment, and create alerts or tasks for items that need review. References: <https://docs.microsoft.com/en-us/azure/logic-apps/logic-apps-overview>

- A server image in Azure Marketplace
- A web app
- An API app

Q41) A company has setup a Virtual Machine as part of their purchase subscription.

They now want to move the Virtual Machine to another subscription. Is this possible?

Correct

Explanation:-You can move a VM and its associated resources to a different subscription by using the Azure Portal simply by selecting the subscription where you want the VM to be moved, or select an existing resource group, or enter a name to have a new resource group created are all possible methods of accomplishing the same thing.

For more information please visit:

<https://docs.microsoft.com/en-us/azure/virtual-machines/windows/move-vm>

Incorrect

Q42)

Your company plans to deploy several million sensors that will upload data to Azure.

You need to identify which Azure resources must be created to support the planned solution.

Which two Azure resources should you identify? Each correct answer presents part of the solution.

- Azure Queue storage

Explanation:-Azure Queue storage provides cloud messaging between application components. In designing applications for scale, application components are often decoupled so they can scale independently. Queue storage delivers asynchronous messaging 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. Reference: <https://docs.microsoft.com/en-us/azure/storage/queues/storage-dotnet-how-to-use-queues?tabs=dotnet>

- Azure File Storage
- Azure IoT Hub

Explanation:-IoT Hub is a managed service, hosted in the cloud, that acts as a central message hub for bi-directional communication between your IoT application and the devices it manages. You can use Azure IoT Hub to build IoT solutions with reliable and secure communications between millions of IoT devices and a cloud-hosted solution backend. You can connect virtually any device to IoT Hub. IoT Hub supports communications both from the device to the cloud and from the cloud to the device. IoT Hub supports multiple messaging patterns such as device-to-cloud telemetry, file upload from devices, and request-reply methods to control your devices from the cloud. IoT Hub monitoring helps you maintain the health of your solution by tracking events such as device creation, device failures, and device connections. Reference: <https://docs.microsoft.com/en-us/azure/iot-hub/about-iot-hub>

- Azure Data Lake
- Azure Notification Hubs

Q43) You have an Azure web app.

You need to manage the settings of the web app from an iPhone. What is the Azure management tools that you can use?

- Windows PowerShell

Explanation:-This option is incorrect. Windows PowerShell can be installed on MacOS but it cannot be installed on an iPhone.

- Azure Cloud Shell

Explanation:-The option is correct. Azure Cloud Shell is a web-based command line for managing Azure. You access the Azure Cloud Shell from the Azure portal. Being web-based, you can use the Azure Cloud Shell on an iPhone.

- The Azure portal

Explanation:-The option is correct. The Azure portal is the web-based portal for managing Azure. Being web-based, you can use the Azure portal on an iPhone.

- Azure CLI

Explanation:-This option is incorrect. Azure CLI can be installed on MacOS but it cannot be installed on an iPhone.

- Azure Storage Explorer

Explanation:-This option is incorrect. Azure Storage Explorer is not used to manage Azure web apps.

Q44)

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

You have an application that is comprised of an Azure web app that has a Service Level Agreement (SLA) of 99.95 percent and an Azure SQL database that has an SLA of 99.99 percent.

The composite SLA for the application is (the product of both SLAs, which equals 99.94 percent).

Instructions: Review the 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.

- The highest SLA associated to the application, which is 99.99 percent
- The lowest SLA associated to the application, which is 99.95 percent
- No change is needed

Explanation:-What is the maximum downtime you would expect for this application? If either service fails, the whole application fails. The probability of each service failing is independent, so the composite SLA for this application is $99.95\% \times 99.99\% = 99.94\%$. That's lower than the individual SLAs, which isn't surprising because an application that relies on multiple services has more potential failure points. Reference:

<https://docs.microsoft.com/en-us/azure/architecture/framework/resiliency/business-metrics>

- The difference between the two SLAs, which is 0.05 percent
-

Q45) Which of the following are advantages of using the private cloud? Choose 2 answers from the options give below

- Less costs
- Better security

Explanation:-

Improved security—resources are not shared with others, so higher levels of control and security are possible.

Refer: <https://azure.microsoft.com/en-us/overview/what-are-private-public-hybrid-clouds/>

- High scalability

Explanation:-

High scalability—private clouds still afford the scalability and efficiency of a public cloud.

Refer: <https://azure.microsoft.com/en-us/overview/what-are-private-public-hybrid-clouds/>

- Less Flexibility
-

Q46) You are trying to understand the different cloud models. Which of the following are advantages of using a hybrid cloud model? Choose 2 answers from the options give below

- Less Maintenance
- More Flexibility

Explanation:-The advantages for using a hybrid cloud model is given in the Microsoft documentation

- Higher costs

- Better Control

Explanation:-The advantages for using a hybrid cloud model is given in the Microsoft documentation

Q47) You are planning on setting up an Azure Free Account. Is there a spending limit when it comes to the spending limit for the free account?

- Yes, there is a spending limit

Explanation:-There is a credit of 200 USD which is assigned to the Free account is limited to the first 30 days the account is active. This acts as a spending limit. Reference: <https://azure.microsoft.com/en-us/free/free-account-faq/>

- No, there is no spending limit
-

Q48) A company has just setup an Azure subscription. The company is planning on creating several resource groups. By creating additional resource groups, would the company incur additional costs?

- Incorrect

Explanation:-Resource groups have no costs associate with them.

- Correct
-

Q49) A company has just setup an Azure virtual private connection between their on-premise network and an Azure virtual network. Would the company need to pay additional costs if they transfer several gigabits of data from their on-premise network to Azure?

Incorrect

Explanation:-Data transfers to the Azure data center are free.

The Microsoft documentation mentions the following:

Correct

Q50) A company wants to start using Azure services. They have several departments that would need to make use of Azure services. They want to give the ability for each department to use a different payment option for the amount of Azure services they consume. Which of the following should each department use to fulfill this requirement?

A subscription

Explanation:-The billing for Azure resources is tagged to a subscription. Hence to segregate the billing for each department, each of them can have a different subscription.

- A resource group
- An Azure policy
- A reservation

Q51) A company has just setup an Azure subscription and an Azure tenant. Which of the following can the company use to create an Azure support request?

- The Security and Compliance admin center
- Support.microsoft.com
- The Azure Portal

Explanation:-You can create a support request in the Azure portal itself.

You just have to go to "Help + support" and then click on "New support request"

Since this is clear from the implementation, all other options are incorrect

- The Knowledge Center

Q52) You are planning on setting up an Azure Free Account. By setting up an Azure Free Account, would you only get access to a subset of services?

- Incorrect
- Correct

Explanation:-The Azure free account includes access to a number of Azure products that are free for 12 month Source -

<https://azure.microsoft.com/en-in/free/free-account-faq/>

Q53) You are planning on setting up an Azure Free Account. Would the Azure Free Account expire after a specific period of time?

Correct

Explanation:-After a duration of 30 days or if the 200 USD credit gets over, then you have to convert your Free subscription to a Pay-As-You-Go subscription.

This is also mentioned in the FAQ section for the Azure Free Account Refer: <https://azure.microsoft.com/en-us/free/free-account-faq/>

- Incorrect

Q54) A company is planning on hosting their resources within Microsoft Azure.

Management wants to know the Capital Expenditure (CapEx) and Operational Expenditure (OpEx) costs that would be incurred if they migrated their entire IT infrastructure to Microsoft Azure.

Does Microsoft Azure provide flexibility to companies when it comes to Capital Expenditures (CapEx) and Operational Expenditures (OpEx)?

- Incorrect
- Correct

Explanation:-Microsoft Azure provides flexibility for cost, control, and operational management.

You must know the definition of each term to understand the differences, they are defined below:

Capital Expenditures (CapEx) generate benefits over a long period. These expenditures are generally nonrecurring and result in the acquisition of permanent assets. Some examples include physical buildings, office equipment, computers, servers, software, essentially any asset that is expected to provide utility to a business.

Operational Expenditures (OpEx) is your operating costs, the expenses to run day-to-day business operations, like services and consumable items that get used up and are paid for according to use. This includes rent/utilities, wages/salaries, legal fees, website hosting fees, software licensing fees, essentially any costs a company incurs for running their day-to-day operations.

Refer: http://download.microsoft.com/documents/australia/insightsquarterly/iq_report_capx.pdf

Q55) A company is planning on setting up a Pay-as-You-Go subscription within Microsoft Azure.

Would the company have access to the MSDN support forums?

- Incorrect
- Correct

Explanation:-Microsoft Windows MSDN forums is a free online community support outlet for Windows Azure. You can find specific forum topics and questions other Azure users have or post your own for guidance on a subject to get answers from Microsoft engineers and members within the Azure community. You get access to MSDN forums with all 5 support plans (Basic, Developer, Standard, Professional Direct, & Premier as show in the visual below:

For more information on each support plan, visit <https://azure.microsoft.com/en-us/support/plans/>

MSDN forums Refer: <https://social.msdn.microsoft.com/Forums/en-US/home>

Q56) Your company plans to purchase Azure Services.

The company's support policy states that the Azure environment must provide an option to access support engineers by phone or email. As well as response time of less than four hours for a minimal business impact (Sev C).

You need to recommend which support plan meets the support policy requirement.

Solution: Recommend a Professional Direct support plan.

Does this meet the goal?

- Incorrect
- Correct

Explanation:-For Professional Direct Plan - Minimal business impact (Sev C): Within four business hours1 Moderate business impact (Sev B): Within two hours Critical business impact (Sev A): Within one hour Also Professional Direct Plan offers 24/7 access to technical support by email and phone. Reference: <https://azure.microsoft.com/en-us/support/plans/>

Q57) Your company wants to provision a set of Azure virtual machines. An application will be installed on these virtual machines. The company wants to ensure that the user traffic is distributed across the virtual machines.

You decide to use the Azure VPN Gateway service for traffic distribution.

Would this fulfill the requirement?

- Incorrect

Explanation:-This service is used to help connect an on-premise data center to an Azure virtual Network

The Microsoft documentation mentions the following:

- Correct

Q58) Your company wants to provision a set of Azure virtual machines. An application will be installed on these virtual machines. The company wants to ensure that the user traffic is distributed across the virtual machines.

You decide to use the Azure Load Balancer service for traffic distribution.

Would this fulfill the requirement?

- Correct

Explanation:-The Azure Load Balancer is the ideal service to use for this scenario. It can be used to distribute traffic to the backend virtual machines.

An Azure load balancer is a Layer-4 (TCP, UDP) load balancer that provides high availability by distributing incoming traffic among healthy VMs. A load balancer health probe monitors a given port on each VM and only distributes traffic to an operational VM. Reference:

[https://docs.microsoft.com/en-us/azure/virtual-machines/windows/tutorial-load-](https://docs.microsoft.com/en-us/azure/virtual-machines/windows/tutorial-load-balancer#:~:text=An%20Azure%20load%20balancer%20is,traffic%20to%20an%20operational%20VM.)

[balance#](https://docs.microsoft.com/en-us/azure/virtual-machines/windows/tutorial-load-balancer#:~:text=An%20Azure%20load%20balancer%20is,traffic%20to%20an%20operational%20VM.)

- Incorrect

Q59) In conjunction with Azure MFA, what is illustrated in the following figure?

- Network Security Groups (NSGs)
- Conditional access

Explanation:-Conditional Access is the tool used by Azure Active Directory to bring signals together, to make decisions, and enforce organizational policies. Conditional Access is at the heart of the new identity driven control plane. Conditional Access policies at their simplest are if-then statements, if a user wants to access a resource, then they must complete an action. Example: A payroll manager wants to access the payroll application and is required to perform multi-factor authentication to access it.

By using Conditional Access policies, you can apply the right access controls when needed to keep your organization secure and stay out of your user's way when not needed.

- Azure Firewall
- User set restrictions

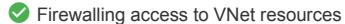
Q60) Correct or Incorrect: When you apply a lock at a parent scope, all resources within that scope inherit the same lock.

- Incorrect
- Correct

Explanation:-When you apply a lock at a parent scope, all resources within that scope inherit the same lock. Even resources you add later inherit the lock from the parent. The most restrictive lock in the inheritance takes precedence.

Q61) Which of the following issues is NOT resolved by leveraging Azure Key Vault?

- Secrets management



Explanation:-Azure Key Vault helps solve the following problems:

- Secrets management: Azure Key Vault can be used to securely store and tightly control access to tokens, passwords, certificates, API keys, and other secrets.
 - Key management: - Azure Key Vault can be used as a key management solution. Azure Key Vault makes it easy to create and control the encryption keys used to encrypt data.
 - Certificate management: - Azure Key Vault lets you easily provision, manage, and deploy public and private Transport Layer Security/Secure Sockets Layer (TLS/SSL) certificates for use with Azure and your internal connected resources.
 - Storing secrets backed by hardware security modules (HSMs): The secrets and keys can be protected either by software or FIPS 140-2 Level 2 validated HSMs.
- Certificate management
 Storing secrets backed by hardware security modules
-

Q62) Correct or Incorrect: Azure application security groups only inspect east–west (or lateral) traffic and cannot be used to inspect north–south traffic.



Explanation:-Azure application security groups (ASGs) enable you to define fine-grained network security policies based on workloads and centralized on applications instead of explicit IP addresses. ASGs provide the capability to group VMs with monikers and secure applications by filtering traffic from trusted segments of your network. Implementing granular security traffic controls improves isolation of workloads and protects them individually. ASGs allow interaction with network security groups (NSGs) for inspecting east–west and north–south traffic profiles.



Q63) Correct or Incorrect: Azure Government uses the same underlying technologies as Global Azure.



Explanation:-Azure Government uses the same underlying technologies as Global Azure, including the core components infrastructure-as-a-service (IaaS), platform-as-a-service (PaaS), and software-as-a-service (SaaS). Azure Government includes geo-synchronous data replication, autoscaling, network, storage, data management, identity management, and other services.

Q64) Your organization operates its line-of-business (LOB) applications hosted on virtual machines (VMs) running in Azure. You want to configure just-in-time VM access in Azure Security Center to protect the VMs against unauthorized access attempts. What should you do first?

- View the VMs' secure score in Azure Security Center.
 Enable guest diagnostics on all VMs.
 Configure Azure Security Center to run at the Standard tier.

Explanation:-Microsoft uses a wide variety of physical, infrastructure, and operational controls to help secure Azure, but there are additional actions you need to take to help safeguard your workloads. For example, you can turn on Security Center to quickly strengthen your security posture and protect against threats. Security Center offers posture management for your cloud workloads and enhanced threat protection with Security Center Standard tier.



Q65) Your organization hosts its internal line-of-business (LOB) application in Azure.

You need to ensure that your users are granted access to the application only from certain geographic areas, in line with the organizational information security policy. Which of the following Azure services or tools can you use to meet this requirement?

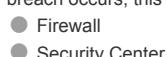
- Azure AD Identity Protection
 Azure AD Privileged Identity Management
 Azure Blueprints
 Azure AD Conditional Access

Explanation:-Conditional Access is the tool used by Azure Active Directory to bring signals together, to make decisions, and to enforce organizational policies. Conditional Access is at the heart of the new identity-driven control plane. Conditional Access can be used to block or grant access from specific locations.

Q66) Which of the following enables you to define fine-grained network security policies based on workloads, centralized on applications instead of explicit IP addresses.

- Network Security Groups
 Application Security Groups

Explanation:-Azure Application Security Groups enables you to define fine-grained network security policies based on workloads, centralized on applications instead of explicit IP addresses. Provides the capability to group VMs with monikers and secure applications by filtering traffic from trusted segments of your network. Implementing granular security traffic controls improves isolation of workloads and protects them individually. If a breach occurs, this technique limits the potential impact of lateral exploration of your networks from hackers.



Q67) Which of the following enables detection and diagnosis of anomalies in web apps?

- Azure Sentinel
 Azure Application Insights

Explanation:-Application Insights, a feature of Azure Monitor, is an extensible application performance management service for web developers on multiple platforms. You can use it to monitor your live web application. It automatically detects performance anomalies.



Q68) Which of the following is a process in which a user is prompted during the sign-in process for an additional form of identification, such as to enter a code on his or her cell phone or to provide a fingerprint scan?

- All-factor authentication
- Privacy suite authorization
- 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. Source - <https://docs.microsoft.com/en-us/azure/active-directory/authentication/concept-mfa-howitworks>

- Azure Trust Point

Q69) You have an Azure resource group named PROD_US_WEST. You need to prevent the resources in this resource group from accidental modification or deletion. What should you use?

- A tag named do-not-delete
- An Azure AD PIM access review
- A Deny RBAC role assignment
- Resource locks

Explanation:-As an administrator, you may need to lock a subscription, resource group, or resource to prevent other users in your organization from accidentally deleting or modifying critical resources. You can set the lock level to CanNotDelete or ReadOnly. In the portal, these locks are called Delete and Read-only, respectively:

- CanNotDelete means authorized users can still read and modify a resource, but they can't delete the resource.
- ReadOnly means authorized users can read a resource, but they can't delete or update the resource. Applying this lock is similar to restricting all authorized users to the permissions granted by the Reader role.

Q70) Which of the following Azure services should be used to view service failure notifications that can affect the availability of a VM?

- Azure Virtual Machine Manager (VMM)
- Azure Monitor

Explanation:-The service failure notifications can be viewed from Azure Monitor. Pertinent to virtual machines, resource health events can represent one of four health statuses:

- Available
- Unavailable
- Degraded
- Unknown

In addition, resource health events can be categorized as being platform initiated or user initiated.

- Azure Advisor
- Azure CDN

Q71) Your organization uses Azure AD Connect to synchronize local Active Directory user accounts to Active Directory. You have enabled Azure Multi-Factor Authentication (MFA) for all Azure AD users. What can you use to enable granular control access across MFA users?

- Azure CDN
- Azure Information Protection (AIP)
- Azure MFA Server
- Conditional Access policies

Explanation:-Conditional Access is the tool used by Azure Active Directory to bring signals together, make decisions, and enforce organizational policies. Conditional Access is at the heart of the new identity-driven control plane.

Conditional Access policies at their simplest are if-then statements: If a user wants to access a resource, then the user must complete an action. For example, a payroll manager who wants to access the payroll application is required to perform multi-factor authentication to access it.

Q72) Correct or Incorrect: Azure Firewall is a PaaS security offering in Azure.

- Incorrect
- Correct

Explanation:-Azure Firewall is a PaaS offering in Azure. Azure Firewall is a managed, cloud-based network security service that protects Azure virtual network resources. It's a fully stateful firewall-as-a-service with built-in high availability and unrestricted cloud scalability.

Q73) An organization's administrator is trying to deploy a new VM named FirstVM. He is getting the error shown in the following screen. What could be a possible cause of this error?

- All of these are correct.
- The resource group is not IAM authenticated.
- The resource group is under a lock.

Explanation:-The resource group RG-Global in this example has a lock that is set to read-only, as shown in the following screen.

- The resource group is not suitable for deploying VMs.

Q74) You plan to deploy multiple Windows Server virtual machines (VMs) to several virtual networks in Azure by using an Azure Resource Manager (ARM) template. Your IT security mandates that the local administrator password is never exposed in plaintext. What is a recommended course of action?

- Define a variable in the ARM template.
- Store the password in Azure Key Vault.

Explanation:-Azure Key Vault enables Microsoft Azure applications and users to store and use several types of secret/key data, including the following:

- Cryptographic keys: Supports multiple key types and algorithms and enables the use of hardware security modules (HSM) for high-value keys.
 - Secrets: Provides secure storage of secrets, such as passwords and database connection strings.
 - Certificates: Supports certificates, which are built on top of keys and secrets, and adds an automated renewal feature.
 - Azure Storage: Manages keys of an Azure Storage account for you. Internally, Key Vault can list (sync) keys with an Azure Storage account and regenerate (rotate) the keys periodically.
 - Commit the template to source code control.
 - Deploy the custom script extension along with the ARM template.
-

Q75) Which of the following can identify anomalies with adaptive built-in intelligence, giving your organization insights into suspicious activities and events in its Azure environment?

- Azure DDoS
- Azure ATP

Explanation:-Azure Advanced Threat Protection (ATP) is a cloud-based security solution that leverages your on-premises Active Directory signals to identify, detect, and investigate advanced threats, compromised identities, and malicious insider actions directed at your organization. Azure ATP can identify anomalies with adaptive built-in intelligence, giving you insights about suspicious activities and events.

- Azure ATP enables SecOp analysts and security professionals struggling to detect advanced attacks in hybrid environments to:
 - Monitor users, entity behavior, and activities with learning-based analytics
 - Protect user identities and credentials stored in Active Directory
 - Identify and investigate suspicious user activities and advanced attacks throughout the kill chain
 - Provide clear incident information on a simple timeline for fast triage
 - Azure CTP
 - Azure AIP
-

Q76) Which of the following delivers a dedicated cloud that enables government agencies and their partners to transform mission-critical workloads to the cloud?

- Azure Dcloud
- Azure Government

Explanation:-Azure Government is a cloud platform built on the foundational principles of security, privacy and control, compliance, and transparency. Azure Government delivers a dedicated cloud that enables government agencies and their partners to transform mission-critical workloads to the cloud. Azure Government services handle data that is subject to certain government regulations and requirements, such as FedRAMP, NIST 800.171 (DIB), ITAR, IRS 1075, DoD L4, and CJIS. In order to provide the highest level of security and compliance, Azure Government uses physically isolated data centers and networks (located in the United States only).

- Azure Private
 - Azure ACloud
-

Q77) Correct or Incorrect: Azure user-defined routes (UDRs) can be used to override Azure's default system routes.

- Incorrect
- Correct

Explanation:-You can create custom, or user-defined (static), routes in Azure to override Azure's default system routes or to add additional routes to a subnet's route table.

Q78) A company has several on-premise computers that run Windows 10.

They want to map a network drive from these machines onto Microsoft Azure Storage.

Which of the following solutions would best fulfill this requirement?

- Azure Storage account – BLOB service
- Azure Storage account – File service

Explanation:-Azure Storage account – File service is the correct answer as Microsoft's Azure Storage accounts are a cloud storage solution for modern data storage scenarios. Azure Storage offers a massively scalable object store for data objects, a file system service for the cloud, a messaging store for reliable messaging, and a NoSQL store. Azure Storage is durable and highly available, secure, scalable, managed, and accessible.

For more information, please visit:

<https://docs.microsoft.com/en-us/azure/storage/common/storage-account-overview>

Azure SQL Database is incorrect because it is a general-purpose relational database, provided as a managed service. With it, you can create a highly available and high-performance data storage layer for the applications and solutions within Azure. SQL Database can be the right choice for a variety of modern cloud applications because it enables you to process both relational data and non-relational structures, such as graphs, JSON, spatial, and XML.

For more information, please visit:

<https://docs.microsoft.com/en-us/azure/sql-database/>

Azure SQL Data Warehouse (now known as Azure Synapse) is incorrect because it is a limitless analytics service that brings together enterprise data warehousing and Big Data analytics. It gives you the freedom to query data on your terms, using either server-less on-demand or provisioned resources—at scale.

For more information, please visit:

Azure Storage account – BLOB service is incorrect because Blob storage is Microsoft's object storage solution for the cloud. Blob storage is optimized for storing massive amounts of unstructured data, such as text or binary data. This solution is ideal for serving images or documents directly to a browser, storing files for distributed access, streaming video and audio, storing data for backup and restore, disaster recovery, archiving, and lastly storing data for analysis by an on-premises or Azure-hosted service.

For more information, please visit:

<https://azure.microsoft.com/en-us/services/storage/blobs/>

- Azure SQL Datawarehouse
- Azure SQL Database

Q79) A company has a set of resources deployed to Microsoft Azure.

They want to make use of Microsoft Azure Advisor solution.

Would the Microsoft Azure Advisor solution give recommendations on how to reduce the cost of running Microsoft Azure Virtual Machines?

- Incorrect
- Correct

Explanation:-Microsoft Azure Advisor would give recommendations on how to reduce the cost of running Microsoft Azure Virtual Machines. Azure Advisor is a personalized cloud consultant that helps you follow best practices to optimize your Azure deployments. It analyzes your resource configuration usage, telemetry, and then recommends solutions that can help you improve the cost effectiveness, performance, high availability, and security of your Azure resources. Azure Advisor provides recommendations for Application Gateway, App Services, availability sets, Azure Cache, Azure Data Factory, Azure Database for MySQL, Azure Database for PostgreSQL, Azure Database for MariaDB, Azure ExpressRoute, Azure Cosmos DB, Azure public IP addresses, SQL Data Warehouse, SQL servers, storage accounts, Traffic Manager profiles, and virtual machines.

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

Q80) A company has just setup an Azure subscription and an Azure tenant. They want to start deploying resources on the Azure platform. They want to implement a way to deploy the resources so that they would be located closest to the users accessing those resources. Which of the following could be used for this requirement?

- Azure Resource Manager
- Azure Regions

Explanation:-You can make use of Azure Regions and deploy the resources to the region that is closest to the user.

The Microsoft documentation mentions the following::

- Azure Resource Groups
- Availability Zones

Q81) A company has just setup an Azure subscription and an Azure tenant. They want to start deploying resources on the Azure platform. They want to use a platform that could be used to create and update the resources within the Azure subscription. Which of the following could be used for this requirement?

- Azure Resource Groups
- Azure Resource Manager

Explanation:-This can be done with the help of the Azure Resource Manager

The Microsoft documentation mentions the following:

- Availability Zones
- Azure Regions

Q82) A company is planning on setting up an Azure SQL database. Would the company administrative team have full control over the underlying server hosting the Azure SQL database?

- Incorrect

Explanation:-The Azure SQL database service is a Platform as a service. Here the underlying infrastructure is completely managed by Azure.

The Microsoft documentation mentions the following:

- Correct

Q83) A company is planning on setting up an Azure Virtual machine. Would the company administrative team have full control over the underlying virtual machine to install an application?

- Correct

Explanation:-Azure Virtual Machines (VM) is one of several types of on-demand, scalable computing resources that Azure offers. Typically, you choose a VM when you need more control over the computing environment than the other choices offer. This article gives you information about what you should consider before you create a VM, how you create it, and how you manage it. The Azure virtual machine service is an Infrastructure as a service. Here you can install applications on the underlying virtual machine.

Refer: <https://docs.microsoft.com/en-us/azure/virtual-machines/windows/overview>

- Incorrect

Q84) Your organization's IT administrator wants to back up the historical data from a compliance and regulatory perspective. He wants to create multiple data stores in Azure and leverage a storage tier to store the data that is going to be rarely accessed. What would you recommend?

- Cool storage
- Archive storage

Explanation:-Azure Storage offers different access tiers, which allow you to store blob object data in the most cost-effective manner:

- Hot: This tier is optimized for storing data that is accessed frequently.
- Cool: This tier is optimized for storing data that is infrequently accessed and stored for at least 30 days.
- Archive: This tier is optimized for storing data that is rarely accessed and stored for at least 180 days with flexible latency requirements (on the order of hours).
- Seldom storage
- Hot storage

Q85) What is illustrated in the highlighted area in the following screen?

- Azure CLI
- None of these
- Azure PowerShell
- Azure Cloud Shell

Explanation:-Azure Cloud Shell is an interactive, authenticated, browser-accessible shell for managing Azure resources. It provides the flexibility of choosing the shell experience that best suits the way you work, with either Bash or PowerShell. In this case, Bash is being used.

Q86) Your company wants to provision a set of Azure virtual machines. An application will be installed on these virtual machines. The company wants to ensure that the user traffic is distributed across the virtual machines.

You decide to use the Azure HDInsight service for traffic distribution.

Would this fulfill the requirement?

- Incorrect

Explanation:-The Azure HDInsight service is used for implementing Big Data related open source frameworks.

The Microsoft documentation mentions the following:

- Correct

Q87) A company is planning on setting up a solution on the Azure platform. The solution has the following main key requirement

- Provide a managed toolset that could be used to manage and scale container-based applications

Which of the following would be best suited for this requirement?

- Azure Kubernetes

Explanation:-This can be achieved with the Azure Kubernetes service.

The Microsoft documentation mentions the following:

- Azure DevOps
- Azure Event Grid
- Azure DevTest Labs

Q88) A company is planning on setting up a solution on the Azure platform. The solution has the following key requirement:

'- Provide a continuous Integration and Delivery toolset that could work with a variety of languages

Which of the following would be best suited for this requirement?

- Azure DevTest Labs
- Azure Kubernetes
- Azure DevOps

Explanation:-This can be achieved with the Azure DevOps service.

The Microsoft documentation mentions the following:

- Azure Event Grid

Q89) A company is planning on setting up a solution on the Azure platform. The solution has the following key requirement:

'=- Provide a service that could be used to quickly provision development and test environments

'=- Minimize waste on resources with the help of quotas and policies

Which of the following would be best suited for this requirement?

- Azure DevTest Labs

Explanation:-This can be achieved with the Azure DevTest Labs service.

The Microsoft documentation mentions the following:

- Azure Event Grid
- Azure DevOps
- Azure Kubernetes

Q90) A company wants to deploy a set of Azure Windows virtual machines. They want to ensure that the services on the virtual machines are still accessible even if a single data center goes down.

They decide to deploy the set of virtual machines using scale sets.

Would this fulfill the requirement?

- Incorrect

Explanation:-Scale Sets are used for scaling purposes.

The Microsoft documentation mentions the following:

- Correct
-

Q91) A company needs a list of planned maintenance events that could possibly affect the availability of their Microsoft Azure subscription.

Which of the following would help them achieve this requirement?

- Resource Groups
- Azure Virtual Machines
- Microsoft Azure Active Directory
- Help + Support

Explanation:-Help + Support is the correct answer as it will showcase maintenance events that can affect the availability of a Microsoft Azure subscription.

For more information, please visit:

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

Azure App Service would be incorrect because an Azure App Service is a fully managed "Platform-as-a-Service" (PaaS) that integrates Microsoft Azure Websites, Mobile Services, and BizTalk Services into a single service, adding new capabilities that enable integration with on-premises or cloud systems.

For more information, please visit:

<https://docs.microsoft.com/en-us/azure/app-service/>

Resource Groups would be incorrect because in Microsoft Azure, Resource Groups provide a new approach to grouping a collection of assets in logical groups for easy or even automatic provisioning, monitoring, and access control, and for more effective management of their costs.

For more information, please visit:

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

Azure Virtual Machines would be incorrect because Azure Virtual Machines are one of several types of on-demand, scalable computing resources that Azure offers. Typically, you choose a VM when you need more control over the computing environment than the other choices offer.

For more information, please visit:

<https://docs.microsoft.com/en-us/azure/virtual-machines/windows/overview>

Microsoft Azure Active Directory is incorrect because Microsoft Azure Active Directory is a comprehensive identity and access management cloud solution that combines core directory services, application access management, and advanced identity protection.

For more information, please visit:

<https://docs.microsoft.com/en-us/azure/active-directory/fundamentals/active-directory-whatis>

- Azure App Service
-

Q92) A company has a VPN device that will be used as Site-to-Site connection from Microsoft Azure to their on-premise location.

Which of the following would be used to represent the VPN device?

- Application Gateway
- Local Network Gateway

Explanation:-Local Network Gateway is the correct answer because a Local Network Gateway represents the hardware or software VPN device in your local network. Use this with a connection to set up a Site-to-Site VPN connection between an Azure virtual network and your local network. There are no additional charges for creating local network gateways in Microsoft Azure.

For more information, please visit:

<https://docs.microsoft.com/en-us/azure/vpn-gateway/vpn-gateway-howto-site-to-site-resource-manager-portal>

DNS Zone is incorrect because a DNS zone is a data resource that contains the DNS records for a domain name. You can use Microsoft Azure DNS to host a DNS zone and manage the DNS records for a domain within Microsoft Azure.

For more information, please visit:

<https://docs.microsoft.com/en-us/azure/dns/dns-zones-records>

Azure Application Gateway is incorrect because an Azure Application Gateway is a web traffic load balancer that enables you to manage traffic to your web applications. Traditional load balancers operate at the transport layer (OSI layer 4 - TCP and UDP) and route traffic based on source IP address and port, to a destination IP address and port. With Azure Application Gateway, you can make routing decisions based on additional attributes of an HTTP request, such as URI path or host headers.

For more information, please visit:

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

Azure Virtual Network Gateway is incorrect because an Azure Virtual Network 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. Each virtual network can have only one VPN gateway. However, you can create multiple connections to the same VPN gateway. When you create multiple connections to the same VPN gateway, all VPN tunnels share the available gateway bandwidth.

For more information, please visit:

<https://docs.microsoft.com/en-us/azure/vpn-gateway/vpn-gateway-about-vpngateways>

- DNS Zone
- Virtual Network gateway

Q93) A company wants to deploy an Artificial Intelligence solution in Microsoft Azure.

The development team wants to have a solution in place that can be used to build, test, and deploy predictive analytics solutions.

Which of the following solutions would satisfy this purpose?

- Azure App service
- Azure Batch
- Azure Machine Learning Studio

Explanation:-Azure Machine Learning Studio

There are 2 context clues in this question that should be noted, the first being, “deploy an Artificial Intelligence solution...” and the second clue being “...wants to have a tool in place that can be used to build, test, and deploy predictive analytics solutions.”

Azure Machine Learning Studio is a collaborative, drag-and-drop tool you can use to build, test, and deploy predictive analytics solutions on your data. Machine Learning Studio publishes models as web services that can easily be consumed by custom applications or BI tools.

For more information, please visit:

<https://docs.microsoft.com/en-us/azure/machine-learning/studio/what-is-ml-studio>

As you understand the terms for options A,C,D, you'll better understand why they aren't correct for this question:

Azure Logic Apps is a cloud service that helps you schedule, automate, orchestrate tasks, business processes, and workflows when you need to integrate apps, data, systems, and services across enterprises or organizations.

For more information, please visit:

<https://docs.microsoft.com/en-us/azure/logic-apps/>

Azure Batch is a cloud based job scheduling and compute management platform that enables running large-scale parallel high performance computing applications efficiently in the cloud. Azure Batch Service provides job scheduling, automatically scaling, and managing virtual machines running those jobs.

For more information, please visit:

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

Azure App Service enables you to build and host web apps, mobile back ends, and RESTful APIs in the programming language of your choice without managing infrastructure. It offers auto-scaling and high availability, supports both Windows and Linux, and enables automated deployments from GitHub, Azure DevOps, or any Git repository, so this option is not correct.

For more information, please visit:

<https://docs.microsoft.com/en-us/azure/app-service/>

- Azure Logic Apps

Q94) A company is planning on setting up a solution in Microsoft Azure. The solution would have the following key requirement:

- Provide a service for hosting a web application

Which of the following would be best suited for this requirement?

- Azure Virtual Machine Scale Sets
- Azure Virtual Network
- Azure App Service

Explanation:-Azure App Service is the correct answer because an Azure App Service enables you to build and host web apps, mobile back ends, and RESTful APIs in the programming language of your choice without managing infrastructure. It offers auto-scaling and high availability, supports both Windows and Linux, and enables automated deployments from GitHub, Azure DevOps, or any Git repo.

Azure Data Lake Analytics is incorrect because Azure Data Lake Analytics is a distributed, cloud-based data processing architecture offered by Microsoft in the Azure cloud. It is based on YARN, the same as the open-source Hadoop platform. It pairs with Azure Data Lake Store, a cloud-based storage platform designed for Big Data analytics.

Azure Virtual Machine Scale Sets is incorrect because Azure Virtual Machine Scale Sets are identical pools of virtual machines running some

application you control. Azure provides tools for you to build and configure the VM the way you want it, then create or remove instances of it until you have as many, or as few, as you need at any point in time.

Azure Virtual Network is incorrect because Azure Virtual Networks are a representation of your own network in the cloud. It is a logical isolation of the Azure cloud dedicated to your subscription. Each VNet you create has its own CIDR block and can be linked to other VNets and on-premises networks as long as the CIDR blocks do not overlap.

- Azure Data Lake Analytics

Q95) A company is planning on setting up a solution in Microsoft Azure.

The solution would have the following key requirement:

- Provide a solution to host and manage a group of identical Virtual Machines**

Which of the following would be best suited for this requirement?

- Azure App Service
- Azure Virtual Network
- Azure Virtual Machine Scale Sets

Explanation:-Azure Virtual Machine Scale Sets is correct because Azure Virtual Machine Scale Sets are identical pools of virtual machines running some application you control. Azure provides tools for you to build and configure the VM's the way you want it, then create or remove instances of it until you have as many, or as few, as you need at any point in time.

For more information, please visit:

<https://docs.microsoft.com/en-us/azure/virtual-machine-scale-sets/overview>

Azure Virtual Network is incorrect because Azure Virtual Networks are a representation of your own network in the cloud. It is a logical isolation of the Azure cloud dedicated to your subscription. Each VNet you create has its own CIDR block and can be linked to other VNets and on-premises networks as long as the CIDR blocks do not overlap.

For more information, please visit:

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

Azure App Service is the incorrect because an Azure App Service enables you to build and host web apps, mobile back ends, and RESTful APIs in the programming language of your choice without managing infrastructure. It offers auto-scaling and high availability, supports both Windows and Linux, and enables automated deployments from GitHub, Azure DevOps, or any Git repo.

For more information, please visit:

<https://docs.microsoft.com/en-us/azure/app-service/>

Azure Data Lake Analytics is incorrect because an Azure Data Lake Analytics is a distributed, cloud-based data processing architecture offered by Microsoft in the cloud. It is based on YARN, the same as the open-source Hadoop platform. It pairs with Azure Data Lake Store, a cloud-based storage platform designed for Big Data analytics.

For more information, please visit:

<https://docs.microsoft.com/en-us/azure/data-lake-analytics/data-lake-analytics-overview>

- Azure Data Lake Analytics