

Q1) A company has multiple subscriptions.**They want to create resources in the different subscriptions.****Is it possible to create resources in multiple subscriptions?**

- Incorrect
- Correct

Explanation:-typically, you deploy all the resources in your template to a single resource group. However, there are scenarios where you want to deploy a set of resources together but place them in different resource groups or subscriptions. For example, you may want to deploy the backup virtual machine for Azure Site Recovery to a separate resource group and location. Resource Manager enables you to use nested templates to target different subscriptions and resource groups than the subscription and resource group used for the parent template.

You can deploy to only five resource groups in a single deployment. Typically, this limitation means you can deploy to one resource group specified for the parent template, and up to four resource groups in nested or linked deployments. However, if your parent template contains only nested or linked templates and does not itself deploy any resources, then you can include up to five resource groups in nested or linked deployments.

Q2) A company wants to start using Microsoft Azure.**They want to make use of availability zones within Azure.****If they deploy resources across all regions in Azure, can they make use of availability zones in all regions in Azure?**

- Incorrect

Explanation:-Availability Zones are physically separate locations within an Azure region. Each Availability Zone is made up of one or more datacenters equipped with independent power, cooling, and networking. Availability Zones allow customers to run mission-critical applications with high availability and low-latency replication although there are not enough availability zones world wide though to implement due to the lack of a availability zone not within a specific region.

There are dedicated regions for US Government as per the image below – US Gov Arizona, US Gov Iowa, US Gov Texas, US Gov Virginia, US DoD East and US DoD Central.

You cannot deploy resources in these regions as these are dedicated to US Government. The question asks for “.....make use of availability zones in all regions in Azure”

The answer is Incorrect because the normal user is not used to deploy resources in these regions, let alone using the availability zones in these regions

- Correct
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Q3) A company is planning on creating resources for different departments within Microsoft Azure.**They want to ensure that they get the bills by the departments.****Which of the following should you consider implementing for this requirement?**

- Azure Advisor
- Azure Monitor
- Azure Tags

Explanation:-Azure Tags because with Azure Tags, you apply tags to your Azure resources to logically organize them into a taxonomy. Each tag consists of a name and a value pair. For example, you can apply the name "Environment" and the value "Production" to all the resources in production.

After you apply tags, you can retrieve all the resources in your subscription with that tag name and value. Tags enable you to retrieve related resources from different resource groups. This approach is helpful when you need to organize resources for billing or management such as certain departments like HR or Accounting.

- Azure locks
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Q4)

A company has a virtual machine defined as demovm. This Virtual Machine was created with the standard settings. An application is installed on demovm. It now needs to be ensured that the application can be accessed over the Internet via HTTP.

You modify the Network Security Groups.

Would this solution fit the requirement?

- Yes

Explanation:-You should change the Network Security group by adding a rule for allowing Inbound Traffic as shown below. Create an Inbound Network Security Rule Ensure the Service Tag is the Internet Ensure the destination port range is 80 Ensure the Action is placed as Allow For more information on Virtual Network Security, please visit the below URL <https://docs.microsoft.com/en-us/azure/virtual-network/security-overview>

- No
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Q5)

A company is looking at the possibility of using Azure Government for development of their cloud-based solutions.

Which of the following customers are allowed to use Azure Government?

Choose 2 answers from the options given below

- A United States government contractor

Explanation:-This is given in the Microsoft documentation. Since this is clearly given in the Microsoft documentation, all other options are incorrect For more information on Azure Government, please visit the below URL <https://docs.microsoft.com/en-us/azure/azure-government/documentation-government-welcome>

- A European Government Contractor

- A United States Government entity

Explanation:-This is given in the Microsoft documentation. Since this is clearly given in the Microsoft documentation, all other options are incorrect. For more information on Azure Government, please visit the below URL <https://docs.microsoft.com/en-us/azure/azure-government/documentation-government-welcome>

- A Canadian Government Contractor
 - A European Government entity
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Q6)

A company is planning on deploying a web server and database server as shown in the architecture diagram below. You have to ensure that traffic restrictions are in place so that the database server can only communicate with the web server.

Which of the following would you recommend for implementing these restrictions?

- A Virtual Private Gateway

Explanation:-This option is incorrect since this is normally used to connect networks together via the Internet. For more information on network planning and design, please visit the below URL <https://docs.microsoft.com/en-us/azure/virtual-network/virtual-network-vnet-plan-design-arm>

- A local network gateway

Explanation:-This option is incorrect since this is used to represent a VPN device in a Site-to-Site VPN connection. For more information on network planning and design, please visit the below URL <https://docs.microsoft.com/en-us/azure/virtual-network/virtual-network-vnet-plan-design-arm>

- Azure Service Bus

Explanation:-This option is incorrect since this is used as a messaging system. For more information on network planning and design, please visit the below URL <https://docs.microsoft.com/en-us/azure/virtual-network/virtual-network-vnet-plan-design-arm>

- Network security groups (NSGs)

Explanation:-You should use network security groups to allow or deny traffic within subnets. Below is what the Microsoft documentation mentions in terms of filtering of network traffic. For more information on network planning and design, please visit the below URL <https://docs.microsoft.com/en-us/azure/virtual-network/virtual-network-vnet-plan-design-arm>

Q7) A company wants to make use of an Azure service in private preview. Are Azure services in private preview available to all customers?

- No

Explanation:-Services in private preview are only available upon request. An example is given below. If you go to the services available in beta phase and click on "Try it". You will be directed to complete a form to avail the preview of the service. For more information on services in beta test phase, please visit the below URL <https://azure.microsoft.com/en-us/services/preview/>

- Yes
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Q8)

A company has 100 machines in their on-premise environment. They want to extend their infrastructure without too much extra capital or operational expenditure.

Which of the following could they opt to carry out for this requirement?

- Move just 50 machines to the public cloud

- Have a hybrid architecture

Explanation:-When you are looking to extend your architecture to the cloud, then the best is to have a hybrid architecture. There are different scenarios that can be adopted depending on the type of integration required. For more information on hybrid cloud overview, please visit the below URL <https://docs.microsoft.com/en-us/office365/enterprise/hybrid-cloud-overview>

- Move all to the private cloud

- Migrate all to the public cloud
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Q9) A company is planning on setting up an Azure account. Can they purchase multiple Azure subscriptions and tie them to the single Azure account?

- No

- Yes

Explanation:-Yes, you can have multiple subscriptions against a single AD tenant as shown below in the Microsoft documentation. For more information on subscriptions, licenses and tenants please visit the below URL <https://docs.microsoft.com/en-us/office365/enterprise/subscriptions-licenses-accounts-and-tenants-for-microsoft-cloud-offerings>

Q10) An organization has multiple virtual machines hosted in its Azure environment. As per the organization's information security (InfoSec) policy, there is a requirement to limit the amount of inbound traffic to all the Azure VNets. Which of the following enables inbound traffic filtering?

- Azure CDN
- Azure VPN Gateway
- Azure Hybrid DC on-premise firewall
- Azure Firewall

Explanation:-Azure Firewall is a managed, cloud-based network security service that protects Azure virtual network resources (see the diagram). It is a fully stateful firewall-as-a-service with built-in high availability and unrestricted cloud scalability.

You can centrally create, enforce, and log application and network connectivity policies across subscriptions and virtual networks. Azure Firewall uses a static public IP address for your virtual network resources, allowing outside firewalls to identify traffic originating from your virtual network. The service is fully integrated with Azure Monitor for logging and analytics.

Q11) Your organization deployed three identically configured web servers (Tomcat) hosted on virtual machines (VMs) in a subnet named Subnet-WebSvr on a virtual network named VNet-US-East. What would you recommend that the security administrator implement to protect inbound access to the VMs?

- DDoS
- NSG

Explanation:-You can use Azure Network Security Groups to filter network traffic to and from Azure resources in an Azure virtual network. A Network Security Groups 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.

- CDN
- IoT Hub

Q12) Correct or Incorrect: Azure Blueprints makes it possible for development teams to rapidly build and stand up new environments.

- Correct

Explanation:-Azure Blueprints makes it possible for development teams to rapidly build and stand up new environments with the assurance that they're building within organizational compliance with a set of built-in components, such as networking, to speed up development and delivery. Blueprints makes it possible to orchestrate the deployment of various resource templates and other artifacts, such as Role Assignments, Policy Assignments, Azure Resource Manager templates, and resource groups.

- Incorrect

Q13) Your organization allows developers to provision their own virtual machines (VMs) in Azure. You need to ensure that developers deploy only approved VM sizes to the corporate subscription. Which of the following will meet this requirement?

- Azure VPN
- Azure IoT Edge
- Azure AD Connect
- Azure Policy

Explanation:-Azure Policy helps enforce organizational standards and assess compliance at scale. Through its compliance dashboard, it provides an aggregated view that enables you to evaluate the overall state of the environment, with the ability to drill down to per-resource, per-policy granularity. It also helps bring your resources into compliance through bulk remediation for existing resources and automatic remediation for new resources.

Common use cases for Azure Policy include implementing governance for resource consistency, regulatory compliance, security, cost, and management. Policy definitions for these common use cases are available in your Azure environment as built-ins to help you get started.

Q14) You plan to deploy several web applications to Azure App Service. You need to control access to the configuration settings of these web applications. What should you use?

- Azure taxonomic tags
- Azure resource role

Explanation:-Azure role-based access control (Azure RBAC) has several Azure built-in roles that you can assign to users, groups, service principals, and managed identities. You can use role assignments to control access to Azure resources. If the built-in roles don't meet the specific needs of your organization, you can create your own Azure custom roles.

- Azure Sentinel
- Azure policy

Q15)

A company plans to purchase an Azure Support plan. Below is a key requirement for the support plan

Ensure that for high severity cases, there is a minimum initial response time of 10 minutes

A recommendation is made to purchase the Basic Support plan Would this recommendation fulfill the requirement?

- No

Explanation:-As per the support plans, you can see that the Basic support plan has no SLA in place. For more information on the support plans, please visit the below URL <https://azure.microsoft.com/en-us/support/plans/>

- Yes

Q16) A company wants to make use of an Azure service in public preview. Are Azure services in public preview available to all customers?

- No
- Yes

Explanation:-There are two types of previews, private and public. The private preview is only available to certain Azure customers for evaluation purposes. The public preview is available to all Azure customers. 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/> An example is given below. Here there is a preview available for Virtual Machines in Azure Monitor. <https://azure.microsoft.com/en-us/updates>

Q17)

A company has a set of Virtual machines defined in Azure. One of the machines was down due to issues with the underlying Azure Infrastructure.

The server was down for an extended period of time and breached the standard SLA defined by Microsoft.

How will Microsoft reimburse the downtime cost?

- By providing a service free of cost to use for a specific duration of time.

- By providing service credits to the customer

Explanation:-If you look at the pricing FAQ, you can see that Microsoft offers Service level credits if it does not meet the SLA targets. For more information on Azure pricing FAQ's, please visit the below URL <https://azure.microsoft.com/en-us/pricing/faq/>

- By spinning up another Virtual Machine free of cost for the client
- By directly sending money to the customer's bank account

Q18) A company needs to deploy several virtual machines. Each of these virtual machines will have the same set of permissions. To minimize the administrative overhead, in which would you deploy the Azure Virtual Machines?

- Azure Tags
- Azure Resource Groups

Explanation:-When you deploy a resource to a resource group which has a set of permissions defined, the resource will inherit the permissions assigned to the resource group. An example is shown below. An example is shown below where a resource group has a permission defined. For more information on role-based access control, please visit the below URL <https://docs.microsoft.com/en-us/azure/role-based-access-control/role-assignments-portal>

- Azure Virtual Machine Scale sets
- Azure Policies

Q19)

Your company has 10 offices. You plan to generate several billing reports from the Azure portal. Each report will contain the Azure resource utilization of each office.

Which Azure Resource Manager feature should you use before you generate the reports?<>< strong="" class="pdfmagemagegadget_revealed"><>

- Azure Advisor

Explanation:-This option is incorrect since this is used for providing recommendations in Azure

- Azure Monitor

Explanation:-This option is incorrect since this is used to monitor resources

- Azure tags

Explanation:-You apply tags to your Azure resources, resource groups, and subscriptions to logically organize them into a taxonomy. Each tag consists of a name and a value pair. For example, you can apply the name "Environment" and the value "Production" to all the resources in production. Refer: <https://docs.microsoft.com/en-us/azure/azure-resource-manager/resource-group-using-tags>

- Azure locks

Explanation:-This option is incorrect since this is used to ensure that resources don't get accidentally deleted

Q20) An organization's IT security and privacy policy states that Azure administrators are only allowed to create new Azure resources in a region in the country where the IT help desk is located. Which of the following can help seamlessly enable the organization to enforce the policy globally?

- Azure Marketplace

- Azure Policy

Explanation:-Azure Policy is a service in Azure that you use to create, assign, and manage policies. These policies enforce different rules and effects over your resources so those resources stay compliant with your corporate standards and service-level agreements.

- ARM templates

- Azure remote management

Q21) What data or information does Azure Information Protection (AIP) encrypt?

- Network traffic into and out of Azure to an organization's data center(s)

- Documents and email messages

Explanation:-Azure Information Protection (AIP) is a cloud-based solution that helps an organization classify and, optionally, protect its documents and emails by applying labels.

- Azure Blob storage

- Azure Cosmos DB data

Q22)

A company plans to purchase an Azure Support plan. Below is a key requirement for the support plan:

- Provide an option to contact Microsoft support engineers by phone or email

A recommendation is made to purchase the Azure Support: Professional Direct (ProDirect).

Would this recommendation fulfill the requirement?

- Yes

Explanation:-

Azure Support: Professional Direct (ProDirect): The Azure ProDirect offering is most appropriate for mid-size to large companies with substantial business-critical utilization of Microsoft Azure.

The fastest initial response of one hour or less for high-severity support requests

Escalation management for priority issues

Pooled team of ProDirect Managers provide account management

Azure Premier Plan no longer exists.

No

Q23) A company needs to create a set of resources within Microsoft Azure.

For IT Administrators, there is a requirement in which they may only create resources in a certain region.

Which of the following can help achieve this?

- Azure Resource Groups
- Azure Policies

Explanation:-Azure Policies because Azure Policies is really governance validation that your organization can achieve its goals through effective and efficient use of IT. It meets this need by creating clarity between business goals and IT projects.

Does your company experience a significant number of IT issues that never seem to get resolved? Good IT governance involves planning your initiatives and setting priorities on a strategic level to help manage and prevent issues. This strategic need is where Azure Policy comes in.

Azure Policy is a service in Azure that you use to create, assign, and manage policies. These policies enforce different rules and effects over your resources, so those resources stay compliant with your corporate standards and service level agreements. Azure Policy meets this need by evaluating your resources for non-compliance with assigned policies. All data stored by Azure Policy is encrypted at rest.

For example, you can have a policy to allow only a certain SKU size of virtual machines in your environment. Once this policy is implemented, new and existing resources are evaluated for compliance. With the right type of policy, existing resources can be brought into compliance. This would also apply to the IT administrator in the question who can only create resources in a certain region.

A policy assignment is a policy definition that has been assigned to take place within a specific scope. This scope could range from a management group to a resource group. The term scope refers to all the resource groups, subscriptions, or management groups that the policy definition is assigned to. Policy assignments are inherited by all child resources. This design means that a policy applied to a resource group is also applied to resources in that resource group. However, you can exclude a subscope from the policy assignment. For example, at the subscription scope, you can assign a policy that prevents the creation of networking resources. You could exclude a resource group in that subscription that is intended for networking infrastructure. You then grant access to this networking resource group to users that you trust with creating networking resources.

In another example, you might want to assign a resource type allow list policy at the management group level. And then 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 policy is an explicit deny system. Instead, you need to exclude the child management group or subscription from the management group-level policy assignment. Then, assign the more permissive policy on the child management group or subscription level. If any policy results in a resource getting denied, then the only way to allow the resource is to modify the denying policy.

- Azure Tags
 - Azure Locks
-

Q24) A company is planning on using the Microsoft Azure Content Delivery Service.

Which of the following is the right cloud concept to which the Azure Content Delivery service belongs to?

- Software as a service (SaaS)
- Platform as a service (PaaS)

Explanation:-Platform as a service (PaaS) that is what Azure Content Delivery Network (CDN) is. It's 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.

- Infrastructure as a service (IaaS)
 - Function as a service (FaaS)
-

Q25) Correct or Incorrect: Azure application security groups only inspect east–west (or lateral) traffic and cannot be used to inspect north–south traffic.

Incorrect

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.

- Correct
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Q26) Your organization plans to migrate its on-premises SQL Server database to Azure. You need to recommend a PaaS solution that gives developers greater control over the underlying database virtual server. Which Azure resource should you recommend?

- Azure SQL Database
- Azure SQL Database Managed Instance

Explanation:-Managed Instance is a new deployment option for Azure SQL Database, providing near 100% compatibility with the latest SQL Server on-premises (Enterprise Edition) database engine, providing a native virtual network (VNet) implementation that addresses common security concerns, and a business model favorable for on-premises SQL Server customers. The managed instance deployment model allows existing SQL Server customers to lift and shift their on-premises applications to the cloud with minimal application and database changes. At the same time, the managed instance deployment option preserves all PaaS operational capabilities with regard to automatic patching and version updates, automated backups, and high availability, drastically reducing management overhead and TCO.

- SQL Server in an Azure virtual machine
 - Azure Synapse Analytics
-

Q27) What is illustrated in the highlighted section of the following screen?

- Azure Bash script
- Azure privilege access management
- Azure CLI
- 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, either Bash or PowerShell. In this case, PowerShell is being used.

Q28) An organization plans to deploy numerous virtual machines on Azure. Which Azure storage service should be used to store the data disks of the virtual machine?

- Files
- Block Blobs
- Cosmos DB
- Page Blobs

Explanation:-Azure Page Blobs are used to store random access files up to 8 TB in size. Page Blobs store virtual hard drive (VHD) files and serve as disks for Azure virtual machines. The other Blob type is Block Blobs. Block Blobs are for your discrete storage objects (for example, jpg files, log files).

Q29) Which of the following is a cloud platform for creating and managing machine learning models?

- Azure Events
- Azure Machine Learning

Explanation:-Built on the Microsoft Azure cloud platform, Azure Machine Learning enables you to manage:

- Scalable on-demand compute for machine learning workloads
- Data storage and connectivity to ingest data from a wide range of sources
- Machine learning workflow orchestration to automate model training, deployment, and management processes
- Model registration and management, so you can track multiple versions of models and the data on which they were trained
- Metrics and monitoring for training experiments, datasets, and published services
- Model deployment for real-time and batch inferencing

- Azure IOT Hub
- Azure AI Engine

Q30) Correct or Incorrect: Azure PowerShell can be installed on Linux, Windows, and macOS.

- Correct

Explanation:-You can install the Azure PowerShell modules by using PowerShellGet on Windows, macOS, and Linux platforms. PowerShell 7.x and later are the recommended versions of PowerShell for use with Azure PowerShell on all platforms.

- Incorrect

Q31) Your organization plans to migrate its on-premises virtual machines (VMs) to Azure.

You need to generate a cost estimate to give to the corporate procurement department. Where should you go to generate the cost estimate?

- Cost Management section in the Azure portal
 - Azure Pricing Calculator
- Explanation:-Azure Pricing Calculator is a tool for simulating and understanding what it would cost if you were going to change your environment to use different services or if wanted to try adding a new service.
- Azure TCO Calculator
 - Azure Migrate section in the Azure portal

Q32) What is depicted in the following screen?

- Azure Free Accounts
- Azure Budgets

Explanation:-Budgets in Azure Cost Management helps you plan for and drive organizational accountability. With Budgets, you can account for the Azure services you consume or subscribe to during a specific period. A budget helps you inform others about their spending to proactively manage costs and to monitor how spending progresses over time. When the budget thresholds you've created are exceeded, notifications are triggered. None of your resources are affected, and your consumption isn't stopped. You can use Budgets to compare and track spending as you analyze costs (see the following screen).

- Azure Reservations
- Azure Advisor

Q33) An Azure service-level agreement (SLA) guarantees which of the following metrics?

- Security
- Performance
- Bandwidth
- Uptime

Explanation:-An SLA describes Microsoft's commitments for uptime and connectivity. The following table from the Microsoft Azure website provides information on SLA targets.

Q34) Where would you find a list of recommendations for your Azure environment like the one shown in the following screen?

- Azure TCO Calculator

- Azure Monitor
- Azure Recommendations
- Azure Advisor

Explanation:-Azure Advisor (see the following screen) 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 recommends solutions that can help you improve the cost-effectiveness, performance, availability, and security of your Azure resources.

With Advisor, you can:

- Get proactive, actionable, and personalized best practices recommendations
- Improve the performance, security, and availability of your resources as you identify opportunities to reduce your overall Azure spend
- Get recommendations with proposed actions inline

Q35) Correct or Incorrect: Microsoft uses the data you provide as part of your interaction with Microsoft and Microsoft's products that you may use. Microsoft may use this data to advertise and market to you, including sending promotional communications, targeting advertising, and presenting you with relevant offers.

- Correct

Explanation:-Microsoft collects data from you through its interactions with you and through its products. You provide some of this data directly, and Microsoft gets some of it by collecting data about your interactions, use, and experiences with Microsoft products. The data Microsoft collects depends on the context of your interactions with Microsoft and the choices you make, including your privacy settings and the products and features you use. It also obtains data about you from third parties.

Microsoft uses the data it collects to provide you with rich, interactive experiences. In particular, it uses data to:

- Provide products, including updating, securing, and troubleshooting, as well as providing support. It also includes sharing data, when required to provide the service or carry out the transactions you request.
- Improve and develop its products.
- Personalize its products and make recommendations.
- Advertise and market to you, including sending promotional communications, targeting advertising, and presenting you with relevant offers.

- Incorrect

Q36) What three elements does a role assignment consist of?

- Security principal

Explanation:-Access management for cloud resources is a critical function for any organization that is using the cloud. Azure role-based access control (RBAC) helps you manage who has access to Azure resources, what those individuals can do with those resources, and what areas they have access to. The way you control access to resources using Azure RBAC is to create role assignments. This is a key concept to understand as it has to do with how permissions are enforced. A role assignment consists of three elements: security principal, role definition, and scope.

- Services

- Role definition

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- Scope

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Q37) An organization has multiple virtual machines hosted in its Azure environment. As per the organization's information security (InfoSec) policy, there is a requirement to limit the amount of inbound traffic to all the Azure VNets. Which of the following enables inbound traffic filtering?

- Azure CDN

- Azure Firewall

Explanation:-Azure Firewall is a managed, cloud-based network security service that protects Azure virtual network resources (see the diagram). It is a fully stateful firewall-as-a-service with built-in high availability and unrestricted cloud scalability.

You can centrally create, enforce, and log application and network connectivity policies across subscriptions and virtual networks.

Azure Firewall uses a static public IP address for your virtual network resources, allowing outside firewalls to identify traffic originating from your virtual network. The service is fully integrated with Azure Monitor for logging and analytics.

- Azure VPN Gateway

- Azure Hybrid DC on-premise firewall

Q38) 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

Q39) 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.

Q40) Which of the following issues is NOT resolved by leveraging Azure Key Vault?

- Secrets management
- Firewalling access to VNet resources

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

Q41) Correct or Incorrect: Azure Government uses the same underlying technologies as Global Azure.

- Incorrect
- Correct

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.

Q42) 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.

- Ensure that the VMs reside on the same virtual network.

Q43) Correct or Incorrect: If an organization has multiple Microsoft Azure subscriptions, and the new CIO wants the head of IT to consolidate all subscriptions, the head of IT can transfer the billing ownership of multiple Azure subscriptions to one Azure subscription.

- Correct

Explanation:-You might want to transfer billing ownership of your Azure subscription if you're leaving your organization or if you want your subscription to be billed to another account. Transferring billing ownership to another account provides the administrators in the new account permissions for billing tasks. They can change the payment method, view charges, and cancel the subscription.

- Incorrect

Q44) Correct or Incorrect: Your organization plans to migrate its on-premises SQL Server databases to Azure SQL Database. You need to apply your local software assurance licenses to Azure SQL Database to realize a discount. You can apply Hybrid Use Benefit for Azure SQL Database.

- Correct

Explanation:-Azure Hybrid Benefit is a pricing offer that helps you maximize the value of your existing on-premises Windows Server and/or SQL Server license investment while you're migrating to Azure. With it, eligible customers pay a reduced rate on Azure virtual machines (infrastructure-as-a-service [IaaS]) and a reduced rate on Azure SQL Database (platform-as-a-service [PaaS]) and SQL Server on Azure Virtual Machines (IaaS).

- Incorrect

Q45) Your organization uses IaaS and PaaS services in Azure. You need to track resource spending for all resources across resource groups and subscriptions. Which Azure Resource Manager feature should you use?

- Resource locks
- Taxonomic tags

Explanation:-You apply tags to your Azure resources, resource groups, and subscriptions to logically organize them into a taxonomy. See the following screen.

- RBAC
- Management groups

Q46) Correct or Incorrect: Azure provides 99.9% availability of Azure Active Directory for the Free tier of Azure Active Directory.

- Correct
 Incorrect

Explanation:-Azure guarantees at least 99.9% availability of the Azure Active Directory Basic and Premium services. These services are considered available in the following scenarios:

- Users are able to log in to the service, log in to the Access Panel, access applications on the Access Panel, and reset passwords.
- IT administrators are able to create, read, write, and delete entries in the directory or provision or de-provision users to applications in the directory.

No SLA is provided for the Free tier of Azure Active Directory.

Q47) An organization plans to migrate its data center infrastructure footprint to Azure. The IT administrator has been asked to gain familiarity with Azure Resource Manager (ARM). Which of the following would you create first in Azure?

- Management group
 Azure subscription

Explanation:-As an organization adds new workloads to the Azure cloud, different ownership of subscriptions or basic separation of responsibility may result in multiple subscriptions in both the production and nonproduction management groups. The first resource that is created as part of embarking on a cloud journey with Azure is a subscription. An Azure subscription can be a free tier or Pay As You Go or PAYG.

- Resource group
 Virtual machines

Q48) You manage an Azure resource group named RG-Global for your organization. The corporate billing department asks you for cost and consumption data from RG-Global. You associate the appropriate taxonomic tags with the RG-Global resource group. What other action is required?

- Apply the tags at the subscription level.
 Apply the tags at the management group level.
 No further action is required.
 Apply the tags to the enclosed resources individually.

Explanation:-You can apply tags to your Azure resources, resource groups, and subscriptions to logically organize them into a taxonomy. Tags applied to a resource group are not inherited by the resources in that resource group. The individual resources need to be tagged with the desired tag.

Q49) Correct or Incorrect: If you have never tried or paid for Azure before, you're eligible for an Azure Free account.

- Correct

Explanation:-An Azure Free account is available to all new customers of Azure. If you have never tried or paid for Azure before, you are eligible for an Azure Free account. The Azure Free account includes access to a number of Azure products that are free for 12 months, and you get \$200 credit to spend in the first 30 days after signup.

- Incorrect

Q50) Correct or Incorrect: In Azure, inbound data transfers are free.

- Correct

Explanation:-Inbound data transfers (that is, data going into Azure data centers) are free. Outbound data transfers are subject to charges.

- Incorrect

Q51)

Correct or Incorrect:

IoT Hub is an IoT application platform that reduces the burden and cost of developing, managing, and maintaining enterprise-grade IoT solutions.

- Correct
 Incorrect

Explanation:-IoT Central is an IoT application platform that reduces the burden and cost of developing, managing, and maintaining enterprise-grade IoT solutions. Source - <https://docs.microsoft.com/en-us/azure/iot-central/core/overview-iot-central> IoT Hub is a managed service, hosted in the cloud, that acts as a central message hub for bidirectional communication between your IoT application and the devices it manages. Source - <https://docs.microsoft.com/en-us/azure/iot-hub/about-iot-hub>

Q52) You plan to deploy a line-of-business application in Azure that consists of the following resources:

- App Service web app
- Azure SQL Database
- Azure Cache for Redis

You need to track resource cost for the environment as efficiently as possible. How should you organize the resources?

- Deploy to the same App Service plan
 Deploy to the same resource group

Explanation:-A resource group is a container that holds related resources for an Azure solution. The resource group includes the 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. All the resources in a group should share the same lifecycle. You deploy, update, and delete them together. If one resource, such as a database server, needs to exist on a different deployment cycle, it should be in another resource group.

- Deploy to the same region
 - Deploy using the same deployment template
-

Q53) Which of the following is the deployment and management service for Azure?

- Azure VM
- Azure Region
- Azure Availability Zone(s)
- Azure Resource Manager

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 such as access control, locks, and tags to secure and organize your resources after deployment.

Q54) Your organization has all its IT infrastructure running in Azure IaaS and PaaS services. You need Azure to proactively notify you of potential cost savings opportunities on an ongoing basis. Which Azure product should you use?

- Azure Application Insights
- Azure Log Analytics
- Azure Monitor
- Azure Advisor

Explanation:-Azure 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 recommends solutions that can help you improve the cost-effectiveness, performance, availability, and security of your Azure resources. With Advisor, you can:

- Get proactive, actionable, and personalized best practices recommendations
- Improve the performance, security, and availability of your resources as you identify opportunities to reduce your overall Azure spend
- Get recommendations with proposed actions inline

Q55) Which Azure DB service is portrayed in the following screen?

- Azure managed SQL instances
- Azure Cosmos DB

Explanation:-This screen shows Azure Cosmos DB, Microsoft's globally distributed, multi-model database service for operational and analytics workloads. It offers multi-mastering feature by automatically scaling throughput, compute, and storage.

- Azure SQL Server 2016
 - Azure NoMySQL
-

Q56) A company wants to host an application within Microsoft Azure.

The application connects to a database in Azure.

The company would like to store the database password in a secure location.

You recommend the usage of the Azure Key Vault for storage of the password.

Would this fulfill the requirement?

Correct

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 logical group of secrets.

Here are other important terms:

Tenant: A tenant is the organization that owns and manages a specific instance of Microsoft cloud services. It's most often used to refer to the set of Azure and Office 365 services for an organization.

Vault owner: A vault owner can create a key vault and gain full access and control over it. The vault owner can also set up auditing to log who accesses secrets and keys. Administrators can control the key lifecycle. They can roll to a new version of the key, back it up, and do related tasks.

Vault consumer: A vault consumer can perform actions on the assets inside the key vault when the vault owner grants the consumer access. The available actions depend on the permissions granted.

Resource: A resource is a manageable item that's available through Azure. Common examples are virtual machine, storage account, web app, database, and virtual network. There are many more.

Resource group: A resource group is a container that holds related resources for an Azure solution. The resource group can include all the resources for the solution, or only those resources that you want to manage as a group. You decide how you want to allocate resources to resource groups, based on what makes the most sense for your organization.

Service principal: An Azure service principal is a security identity that user-created apps, services, and automation tools use to access specific Azure resources. Think of it as a "user identity" (username and password or certificate) with a specific role, and tightly controlled permissions. A service principal should only need to do specific things, unlike a general user identity. It improves security if you grant it only the minimum permission level that it needs to perform its management tasks.

Azure Active Directory (Azure AD): Azure AD is the Active Directory service for a tenant. Each directory has one or more domains. A directory can have many subscriptions associated with it, but only one tenant.

Azure tenant ID: A tenant ID is a unique way to identify an Azure AD instance within an Azure subscription.

Managed identities: Azure Key Vault provides a way to securely store credentials and other keys and secrets, but your code needs to authenticate to Key Vault to retrieve them. Using a managed identity makes solving this problem simpler by giving Azure services an automatically managed identity in Azure AD. You can use this identity to authenticate to Key Vault or any service that supports Azure AD authentication, without having any credentials in your code. For more information, see the following image and the overview of managed identities for Azure resources.

Incorrect

Q57) A company wants to host an application within Microsoft Azure.

The application connects to a database in Azure.

The company to store the database password in a secure location.

You recommend the usage of the Azure Security Center for storage of the password.

Would this fulfill the requirement?



Explanation:-the 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.

Keeping your resources safe is a joint effort between your cloud provider, Azure, and you, the customer. You have to make sure your workloads are secure as you move to the cloud, and at the same time, when you move to IaaS (infrastructure as a service) there is more customer responsibility than there was in PaaS (platform as a service), and SaaS (software as a service). Azure Security Center provides you the tools needed to harden your network, secure your services and make sure you're on top of your security posture. Azure Security Center addresses the three most urgent security challenges:

Rapidly changing workloads – It's both a strength and a challenge of the cloud. On the one hand, end users are empowered to do more. On the other, how do you make sure that the ever-changing services people are using and creating are up to your security standards and follow security best practices?

Increasingly sophisticated attacks - Wherever you run your workloads, the attacks keep getting more sophisticated. You have to secure your public cloud workloads, which are, in effect, an Internet facing workload that can leave you even more vulnerable if you don't follow security best practices.

Security skills are in short supply - The number of security alerts and alerting systems far outnumbers the number of administrators with the necessary background and experience to make sure your environments are protected. Staying up-to-date with the latest attacks is a constant challenge, making it impossible to stay in place while the world of security is an ever-changing front.



Q58) A company wants to host an application within Microsoft Azure.

The application connects to a database in Azure.

The company to store the database password in a secure location.

You recommend the usage of the Azure Advisor for storage of the password.

Would this fulfill the requirement?



Explanation:-Azure 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.

With Advisor, you can:

-Get proactive, actionable, and personalized best practices recommendations.

-Improve the performance, security, and high availability of your resources, as you identify opportunities to reduce your overall Azure spend.

-Get recommendations with proposed actions inline.

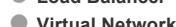
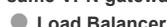


Q59) A company needs to connect their on-premise data center to an Azure Virtual Network using a Site-to-Site connection.

Which of the following would you create as part of this implementation?

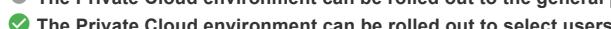
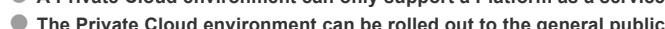


Explanation:-Virtual Network Gateway because with a VPN gateway is a specific type of virtual network gateway that is used to send encrypted traffic between an Azure virtual network and an on-premises location over the public Internet. You can also use a VPN gateway to send encrypted traffic between Azure virtual networks over the Microsoft network. 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.



Q60) A company is planning on setting up a private cloud network.

Which of the following is an advantage of setting up a private cloud network?



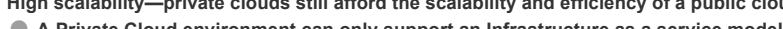
Explanation:-The Private Cloud environment can be rolled out to select users is correct because a private cloud consists of computing resources used exclusively by one business or organization. The private cloud can be physically located at your organization's on-site datacenter, or it can be hosted by a third-party service provider. But in a private cloud, the services and infrastructure are always maintained on a private network and the hardware and software are dedicated solely to your organization. In this way, a private cloud can make it easier for an organization to customize its resources to meet specific IT requirements. Private clouds are often used by government agencies, financial institutions, any other mid- to large-size organizations with business-critical operations seeking enhanced control over their environment.

Advantages of a private clouds:

More flexibility—your organization can customize its cloud environment to meet specific business needs.

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

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



Q61)

An application consists of a set of virtual machines hosted in a Virtual Network.

In a month, the application seems to have a load of around 20% for 3 weeks.

During the last week, the load on the application reached 80%.

Which of the following concept would you implement to ensure least cost and efficiency of the underlying application infrastructure?

- Disaster recovery
- Elasticity

Explanation:-Elastic computing is the ability to quickly expand or decrease computer processing, memory, and storage resources to meet changing demands without worrying about capacity planning and engineering for peak usage. Typically controlled by system monitoring tools, elastic computing matches the amount of resources allocated to the amount of resources actually needed without disrupting operations. With cloud elasticity, a company avoids paying for unused capacity or idle resources and doesn't have to worry about investing in the purchase or maintenance of additional resources and equipment.

While security and limited control are concerns to take into account when considering elastic cloud computing, it has many benefits. Elastic computing is more efficient than your typical IT infrastructure, is typically automated so it doesn't have to rely on human administrators around the clock, and offers continuous availability of services by avoiding unnecessary slowdowns or service interruptions.

- High availability
- Fault tolerance

Q62) 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

Q63) 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

Q64) Which Azure product is shown in the following screen?

- Azure Firewall
- Azure Trust Center

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

Q65) 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?

- Azure Information Protection
- 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: 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.

- Azure Sentinel
- Azure Multi-Factor Authentication (MFA)

Q66) 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.

Q67) In Microsoft Azure, an application can connect to which of the following Azure resources for retrieving secrets, keys, and certificates?

- Dedicated certificate store
- 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.

- Encrypted Blob storage
- Azure Active Directory (Azure AD)

Q68) Which Azure service is illustrated in the following screen?

- Azure Security Center
- Azure TCO Calculator
- Azure Advisor

Explanation:-Azure 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 recommends solutions that can help you improve the cost-effectiveness, performance, high availability, and security of your Azure resources.

With Advisor, you can:

- Get proactive, actionable, and personalized best practices recommendations.
- Improve the performance, security, and high availability of your resources, as you identify opportunities to reduce your overall Azure spend.
- Get recommendations with proposed actions inline.

- All of these

Q69) A company wants to setup resources within Microsoft Azure.

They want a way to manage identities within Azure.

Which of the following is used as an Identity Management solution in Azure?

- Azure Monitor
- Azure Security Center
- Azure Advisor
- Azure AD

Explanation:-Azure AD is correct because Azure Active Directory 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.

Q70) You are planning on setting up a Microsoft Azure Free account.

Which of the following is not true when it comes to what is offered with an Azure Free account?

- Access to certain products that are always free
- Free access to all Azure products after the 12 month expiration period

Explanation:-Free access to all Azure products after the 12 month expiration period because the Azure free account includes free access to Azure products for only 12 months, you don't keep access to those products unless you pay, but when you sign up, you get \$200 credit to spend for the first 30 days and access to more than 25 products that are always free.

- Free access to certain Azure products for 12 months
- 200 USD free credit to use for 30 days

Q71) Fill in the blank with the correct Azure service to correctly complete the statement below:

_____ is a simplified tool to build intelligent Artificial Intelligence (AI) applications.

- Azure Application Insights
- Azure DevOps
- Azure Cognitive Services

Explanation:-Azure Cognitive Services because Azure Cognitive Services are APIs, SDKs, and services available to help developers build intelligent applications without having direct AI or data science skills or knowledge. Azure Cognitive Services enable developers

to easily add cognitive features into their applications. The goal of Azure Cognitive Services is to help developers create applications that can see, hear, speak, understand, and even begin to reason. The catalog of services within Azure Cognitive Services can be categorized into five main pillars - Vision, Speech, Language, Web Search, and Decision.

Azure Advisor

Q72) A company is planning on setting up a solution within Microsoft Azure.

The solution would have the following key requirement:

- Uses past training's to provide predictions that have high probability

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

- Azure AI Bot
 Azure IoT Hub
 Azure Machine Learning

Explanation:-Azure Machine Learning because Microsoft 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 apps or BI tools such as Excel.

Azure Functions

Q73) A company is planning on setting up a solution within Microsoft Azure.

The solution would have the following key requirement:

- Provide an efficient way to distribute web content to users across the world

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

- Azure Load Balancer
 Azure SQL Datawarehouse
 Azure Content Delivery Network

Explanation:-Azure Content Delivery Network because 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. Better performance and improved user experience for end users, especially when using applications in which multiple round-trips are required to load content.

Large scaling to better handle instantaneous high loads, such as the start of a product launch event.

Distribution of user requests and serving of content directly from edge servers so that less traffic is sent to the origin server.

Azure HD Insight

Q74) A company is planning on setting up a solution within Microsoft Azure.

The solution would have the following key requirement:

- Provide the ability to distribute user traffic to a set of backend Virtual Machines

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

- Azure SQL Datawarehouse
 Azure Load Balancer

Explanation:-Azure Load Balancer because Azure Load Balancer operates at layer four of the Open Systems Interconnection (OSI) model. It is the single point of contact for clients. Load Balancer distributes new inbound flows that arrive at the Load Balancer's front end to back-end pool instances, according to specified load balancing rules and health probes. The back-end pool instances can be Azure Virtual Machines or instances in a Virtual Machine Scale Set (VMSS).

With Azure Load Balancer, you can scale your applications and create high available services. Load Balancer supports both, inbound and outbound scenarios, provides low latency and high throughput, and scales up to millions of flows for all TCP and UDP applications. A public Load Balancer can provide outbound connections for virtual machines (VMs) inside your virtual network by translating their private IP addresses to public IP addresses. Public Load Balancers are used to load balancer internet traffic to your VMs.

An internal (or private) Load Balancer can be used for scenarios where only private IP addresses are needed at the front end. Internal Load Balancers are used to load balance traffic inside a virtual network. You can also reach a Load Balancer front end from an on-premises network in a hybrid scenario.

- Azure Content Delivery Network
 Azure HD Insight
-

Q75) A company is planning on setting up a solution within Microsoft Azure.

The solution would have the following key requirement:

- Provide a cloud service that makes it easy, fast, and cost-effective to analyse massive amounts of data.

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

- Azure SQL Datawarehouse
 Azure Load Balancer
 Azure HD Insight

Explanation:-Azure HD Insight because Azure HD Insight is a managed, full-spectrum, open-source analytics service in the cloud for enterprises. You can use open-source frameworks such as Hadoop, Apache Spark, Apache Hive, LLAP, Apache Kafka, Apache Storm, R, and more.

Azure Content Delivery Network

Q76) A company is planning on hosting a set of resources within their Microsoft Azure subscription.

They are currently aware that most Azure Services can provide an SLA of 99.9%.

Which of the following technique could be used to increase the up-time for resources hosted in Azure?

- Adding resources to the same subscription
 Adding resources to the same resource group
 Adding resources to the same data center
 Adding resources to multiple regions

Explanation:-Adding resources to multiple regions because Regions are a set of data centres deployed within a latency-defined perimeter and connected through a dedicated regional low-latency network.

With more global regions than any other cloud provider, Azure gives customers the flexibility to deploy apps where they need to. Azure is generally available in 52 regions around the world, with plans announced for 2 additional regions.

Q77) A company is planning on creating several SQL Databases within Microsoft Azure.

They would be using the Azure SQL Database service.

Which of the following is the right category to which the Azure SQL Database service belongs?

- Function as a service (FaaS)
- Software as a service (SaaS)
- Platform as a service (PaaS)

Explanation:-Platform as a service (PaaS) because Azure SQL Database is a fully managed Platform as a Service (PaaS) Database Engine that handles most of the database management functions such as upgrading, patching, backups, and monitoring without user involvement. Azure SQL Database is always running on the latest stable version of SQL Server Database Engine and patched OS with 99.99% availability. PaaS capabilities that are built-in into Azure SQL database enable you to focus on the domain specific database administration and optimization activities that are critical for your business.

- Infrastructure as a service (IaaS)

Q78) A company is planning on using Azure Storage Accounts. They have the following requirement:

- Storage of 2 TB of data
- Storage of a million files

Would using an Azure Storage Account fulfill these requirements?

- Correct

Explanation:-an Azure storage account contains all of your Azure Storage data objects: blobs, files, queues, tables, and disks. The storage account provides a unique namespace for your Azure Storage data that is accessible from anywhere in the world over HTTP or HTTPS. Data in your Azure storage account is durable and highly available, secure, and massively scalable.

- Incorrect

Q79) A company is planning on using Azure Storage Accounts. They have the following requirement:

- Replication of data to another region

Do Azure Storage Accounts automatically replicate data to another region?

- Correct

Explanation:-

When you create a storage account in Azure, the default replication that is chosen is RA-GRS and therefore storage accounts automatically replicate data to another region.

Azure provides several storage solutions that take advantage of paired regions to ensure data availability. For example, Azure Geo-redundant Storage (GRS) replicates data to a secondary region automatically, ensuring that data is durable even in the event that the primary region isn't recoverable.

When you create a storage account, you select the primary region for the account. The paired secondary region is determined based on the primary region, and can't be changed.

Azure Storage offers two options for copying your data to a secondary region:

- Geo-redundant storage (GRS) copies your data synchronously three times within a single physical location in the primary region using LRS. It then copies your data asynchronously to a single physical location in the secondary region.
- Geo-zone-redundant storage (GZRS) (preview) copies your data synchronously across three Azure availability zones in the primary region using ZRS. It then copies your data asynchronously to a single physical location in the secondary region.

During storage account creation, Leave these fields set to their default values:

Deployment model - Resource Manager

Performance - Standard

Account kind - StorageV2 (general-purpose v2)

Replication - Read-access geo-redundant storage (RA-GRS)

Access tier - Hot

Link -

<https://docs.microsoft.com/en-us/azure/best-practices-availability-paired-regions>

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

<https://docs.microsoft.com/en-us/azure/storage/common/storage-account-create?tabs=azure-portal>

- Incorrect

Q80) A company wants to make use of Microsoft Azure to deploy various business solutions.

They want to ensure that suspicious attacks and threats to resources within their Microsoft Azure account are prevented.

Which of the following helps prevent such attacks by using built-in sensors in Azure?

- Azure DDoS attacks
- Azure privileged identity management
- Azure Advanced Threat Protection

Explanation:-Azure Advanced Threat Protection because 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
 Azure AD Identity Protection

Q81) A company is planning on hosting resources within Microsoft Azure.
They want to ensure that Azure complies with the rules and regulations of the region for hosting resources.
Which of the following can assist the company in getting the required compliance reports?

- Azure Advisor
- Microsoft Trust Center

Explanation:-Microsoft Trust Center because within this resource, you can take advantage of more than 90 compliance certifications, including over 50 specific to global regions and countries, such as the US, the European Union, Germany, Japan, the United Kingdom, India, and China. And, get more than 35 compliance offerings specific to the needs of key industries, including health, government, finance, education, manufacturing, and media. Your emerging compliance needs are covered, too: Microsoft engages globally with governments, regulators, standards bodies, and non-governmental organizations.

- Azure AD
 - Azure Security Center
-

Q82) A company has just deployed a set of Virtual Machines (VMs) to host a production software for their end users.
The company needs to have a solution that will allow them to know the health of their VMs at all times so they can implement alerts and redundancy.
Which solution would best fulfill this need for the company?

- Azure AD
- Azure Power BI
- Azure Monitor

Explanation:-Azure Monitor because Microsoft Azure includes services for specific roles or tasks in the monitoring space, but it doesn't provide in-depth health perspectives of operating systems (OSs) hosted on Azure virtual machines (VMs). Although you can use Azure Monitor for different conditions, it's not designed to model and represent the health of core components, or the overall health of VMs. By using Azure Monitor for VMs health, you can actively monitor the availability and performance of a Windows or Linux guest OS. The health feature uses a model that represents key components and their relationships, provides criteria that specifies how to measure component health, and sends an alert when it detects an unhealthy condition.

Viewing the overall health state of an Azure VM and the underlying OS can be observed from two perspectives: directly from a VM, or across all VMs in a resource group from Azure Monitor.

- Azure Advisor
-

Q83) A company is planning on setting up a private cloud network. Which of the following is an advantage of setting up a private cloud network?

- You pay a capital upfront cost when using resources in the public cloud
- The private cloud can be rolled out to select users
- Different departments in your organization can have a segmentation of resources defined in Azure

Explanation:-Different departments in your organization can have a segmentation of resources defined in Azure because A private cloud consists of computing resources used exclusively by one business or organization. The private cloud can be physically located at your organization's on-site datacenter, or it can be hosted by a third-party service provider. But in a private cloud, the services and infrastructure are always maintained on a private network and the hardware and software are dedicated solely to your organization. In this way, a private cloud can make it easier for an organization to customize its resources to meet specific IT requirements. Private clouds are often used by government agencies, financial institutions, any other mid- to large-size organizations with business-critical operations seeking enhanced control over their environment.

Advantages of a private clouds:

More flexibility—your organization can customize its cloud environment to meet specific business needs.
Improved security—resources are not shared with others, so higher levels of control and security are possible.
High scalability—private clouds still afford the scalability and efficiency of a public cloud.

- All users across the world can access the resources in your Azure account
-

Q84) A company is planning on setting up a solution within Microsoft Azure.
The solution would have the following key requirement:
- Provides serverless computing functionalities

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

- Azure IoT Hub
- Azure AI Bot
- Azure Functions

Explanation:-Azure Functions because Azure Functions is a solution for easily running small pieces of code, or "functions," in the cloud. You can write just the code you need for the problem at hand, without worrying about a whole application or the infrastructure to run it. Functions can make development even more productive, and you can use your development language of choice, such as C#, Java, JavaScript, PowerShell, and Python. Pay only for the time your code runs and trust Azure to scale as needed. Azure Functions lets you develop serverless applications on Microsoft Azure.

- Azure Machine Learning
-

Q85) A company has a number of resources hosted within Microsoft Azure.
They want to push all the events from various resources into a centralized repository so that the events can be correlated later on.
Which of the following services would you use for this requirement?

- Azure Advisor



Explanation:-Azure Log Analytics because The Azure Log Analytics agent, previously referred to as the Microsoft Monitoring Agent (MMA) or OMS Linux agent, was developed for comprehensive management across on-premises machines, computers monitored by System Center Operations Manager, and virtual machines in any cloud to push logs to a centralized repository for analysis. The Windows and Linux agents attach to an Azure Monitor and store collected log data from different sources in your Log Analytics workspace, as well as any unique logs or metrics as defined in a monitoring solution.

- Azure Analysis Services
 - Azure Event Hubs
-

Q86) A company has a Virtual Machine (VM) defined as demovm.

This Virtual Machine (VM) was created with the standard settings.

An application is installed on demovm.

It now needs to be ensured that the application can be accessed over the Internet via HTTP.

You propose the solution to modify the DDoS protection plan

Would this solution fit the requirement?



Explanation:-Azure DDoS Protection is something that prevents and mitigates DDoS attacks 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. Azure DDos has nothing to do with accessing an Azure VM over the Internet via HTTP.

- Correct
-

Q87)

A company has a Virtual Machine (VM) defined as demovm.

This Virtual Machine (VM) was created with the standard settings.

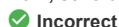
An application is installed on demovm. It now needs to be ensured that the application can be accessed over the Internet via HTTP using a prioritised security rule.

You make modifications to the Azure firewall.

Would this solution fit the requirement?

- Correct

Explanation:-Only Network Security Groups (NSG) have priority rules to allow inbound and outbound traffic and this CANNOT be done via "Azure Firewall". 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.



Explanation:-Azure Firewall is a managed, cloud-based network security service that protects your Azure Virtual Network resources. It's a fully stateful firewall-as-a-service with built-in high availability and unrestricted cloud scalability. You can centrally create, enforce, and log application and network connectivity policies across subscriptions and virtual networks. What capabilities are supported in Azure Firewall? Stateful firewall as a service Built-in high availability with unrestricted cloud scalability FQDN filtering FQDN tags Network traffic filtering rules Outbound SNAT support Inbound DNAT support Centrally create, enforce, and log application and network connectivity policies across Azure subscriptions and VNETs Fully integrated with Azure Monitor for logging and analytics

Q88) A company has a Virtual Machine (VM) defined as demovm.

This Virtual Machine (VM) was created with the standard settings.

An application is installed on demovm. It now needs to be ensured that the application can be accessed over the Internet via HTTP.

You modify the Azure Traffic Manager profile.

Would this solution fit the requirement?



Explanation:-Azure Traffic Manager is a DNS-based traffic load balancer that enables you to distribute traffic optimally to services across global Azure regions, while providing high availability and responsiveness.

Traffic Manager uses DNS to direct client requests to the most appropriate service endpoint based on a traffic-routing method and the health of the endpoints. An endpoint is any Internet-facing service hosted inside or outside of Azure. Traffic Manager provides a range of traffic-routing methods and endpoint monitoring options to suit different application needs and automatic failover models. Traffic Manager is resilient to failure, including the failure of an entire Azure region. Modifying this won't make the Azure VM accessible from the internet.

- Correct
-

Q89) A company has a Virtual Machine (VM) defined as demovm.

This Virtual Machine (VM) was created with the standard settings.

An application is installed on demovm. It now needs to be ensured that the application can be accessed over the Internet via HTTP.

You modify the Network Security Groups.

Would this solution fit the requirement?

- Incorrect



Explanation:-using Network Security Groups, you can filter network traffic to and from Azure resources in an Azure virtual network with a network security group. 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.

Q90) A company is looking at the possibility of using Azure Government for development of their cloud-based solutions.

Which of the following customers are allowed to use Azure Government?

Choose 2 answers from the options given below

- A United States government contractor

Explanation:-US government agencies or their partners interested in cloud services that meet government security and compliance requirements, can be confident that Microsoft Azure Government provides world-class security, protection, and compliance services. Azure Government delivers a dedicated cloud enabling 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 you with the highest level of security and compliance, Azure Government uses physically isolated datacenters and networks (located in U.S. only).

- A European government contractor

- A United States government entity

Explanation:-US government agencies or their partners interested in cloud services that meet government security and compliance requirements, can be confident that Microsoft Azure Government provides world-class security, protection, and compliance services. Azure Government delivers a dedicated cloud enabling 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 you with the highest level of security and compliance, Azure Government uses physically isolated datacenters and networks (located in U.S. only).

- A Canadian government contractor

- A European government entity
-

Q91) A company plans to purchase a Microsoft Azure Support plan.

Below is a key requirement for the support plan:

- Ensure that for high severity cases, there is a minimum initial response time of 10 minutes

A recommendation is made to purchase the Basic Support plan Would this recommendation fulfill the requirement?

- Incorrect

Explanation:-the Basic support tier doesn't include Case Severity/Response Times compared to the Developer, Standard, Professional Direct, and Premier tier.

- Correct
-

Q92)

A company plans to purchase a Microsoft Azure Support plan. Below is a key requirement for the support plan:

- Ensure that for high severity cases, there is a minimum initial response time of 10 minutes

A recommendation is made to purchase the Professional Direct Support plan

Would this recommendation fulfill the requirement?

- Correct

- Incorrect

Explanation:-The Professional Direct Support plan does not have a 10 minute window for responses.

For Professional Direct Support, response times include:

Minimal business impact (Sev C):

<4 business hours1

Moderate business impact (Sev B):

<2 hours

Critical business impact (Sev A):

<1 hour
