

Q1)

You have an Azure environment. You need to create a new Azure virtual machine from an Android laptop.

Solution: You use the PowerApps portal.

Does this meet the goal?

- Correct
- Incorrect

Explanation:-

The solution does not meet the goal since Power apps are not part of Azure. PowerApps portal is a tool to create web page layout (you will need to program all the buttons yourself in HTML).

PowerApps Portals allow organizations to create websites which can be shared with users external to their organization either anonymously or through the login provider of their choice like LinkedIn, Microsoft Account, other commercial login providers.

Reference: <https://powerapps.microsoft.com/en-us/blog/introducing-powerapps-portals-powerful-low-code-websites-for-external-users/>

Q2)

A team of developers at your company plans to deploy, and then remove, 50 customized virtual machines each week. Thirty of the virtual machines run Windows Server 2016 and 20 of the virtual machines run Ubuntu Linux.

You need to recommend which Azure service will minimize the administrative effort required to deploy and remove the virtual machines.

What should you recommend?

- Microsoft Managed Desktop
- Azure virtual machine scale sets

Explanation:-Azure Scale sets would be for identical virtual machines, but it specifies that they are 'customized'

- Azure DevTest Labs

Explanation:-Azure DevTest Labs enables developers on teams to efficiently self-manage virtual machines (VMs) and PaaS resources without waiting for approvals. DevTest Labs creates labs consisting of pre-configured bases or Azure Resource Manager templates.

<https://docs.microsoft.com/en-us/azure/lab-services/devtest-lab-overview>

- Azure Reserved Virtual Machines (VM) Instances
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Q3)

Evaluate the text in the bracket to determine if statement holds true or not.

"One of the benefits of Azure SQL Data Warehouse is that (high availability) is built into the platform."

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.

- Automatic scaling
- No change is needed

Explanation:-SQL Data Warehouse is supported by a broad ecosystem of partners, including data preparation, ingestion service and visualisation tool providers. Enjoy guaranteed 99.9 percent availability in 40 Azure regions worldwide. Service capabilities: * Massive query concurrency - Democratise data across your enterprise. * Integrated data processing - Ingest and query from multiple data types and sources within a single solution. * Quick and easy provisioning - Provision thousands of compute cores in less than five minutes and scale to a petabyte in hours. * Elastic design - Independently scale for performance or memory with separate compute and storage. * Advanced security - Help protect your data with virtual network service endpoints, advanced threat detection, always-on encryption, auditing and simplified secure access. * Fully managed infrastructure - Automate infrastructure allocation and workload optimisation to focus on data analysis and use the built-in advisor to optimise your cloud data warehouse. * Strong Ecosystem - Integrate with leading data preparation and visualisation vendors and get support from our partners to accelerate time to value. * Powerful SQL engine - Take advantage of Microsoft SQL Server, the industry's top-performing SQL engine, offering comprehensive support for SQL language. * Industry-leading compliance - Help ensure peace of mind with more than 50 government and industry compliance certifications, including HIPAA. * Global availability - Benefit from availability in 40 Azure regions, the most among all cloud-based data warehouse providers. Reference 1: <https://azure.microsoft.com/en-in/services/sql-data-warehouse/> Reference 2: <https://stackify.com/azure-sql-database-vs-warehouse/>

- Data compression
 - Versioning
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Q4) A support engineer plans to perform several Azure management tasks by using the Azure CLI.

You install the CLI on a computer.

You need to tell the support engineer which tools to use to run the CLI.

Which two tools should you instruct the support engineer to use?

- Windows Defender Firewall
- Windows PowerShell

Explanation:-For Windows the Azure CLI is installed via an MSI, which gives you access to the CLI through the Windows Command Prompt (CMD) or PowerShell. When installing for Windows Subsystem for Linux (WSL), packages are available for your Linux distribution. The Azure CLI is a command-line tool providing a great experience for managing Azure resources. The CLI is designed to make scripting easy, query data, support long-running operations, and more. Refer: <https://docs.microsoft.com/en-us/cli/azure/install-azure-cli-windows?view=azure-cli-latest> Refer 2: <https://docs.microsoft.com/en-us/cli/azure/get-started-with-azure-cli?view=azure-cli-latest>

- Azure Resource Explorer
 - Command Prompt
 - Network and Sharing Center
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Q5) You need to identify the type of failure for which an Azure availability zone can be used to protect access to Azure services. What should you identify?

- An Azure data center failure

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

- A storage failure
 - An Azure region failure
 - A physical server failure
-

Q6)

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

If a resource group named RG1 has a delete lock, (only a member of the global administrators group) can delete RG1.

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.

- An Azure policy must be modified before an administrator
- The delete lock must be removed before an administrator

Explanation:-When a resource lock is applied, you must first remove the lock in order to perform that activity. Resource locks apply regardless of RBAC permissions. Even if you are an owner of the resource, you must still remove the lock before you'll actually be able to perform the blocked activity Lock resources to prevent unexpected changes! 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, the 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. Reference 1:

https://techcommunity.microsoft.com/t5/ITOps-Talk-Blog/How-to-Lock-Azure-Resources-to-Prevent-Modification-or-Deletion/ba-p/356945; Reference 2: https://docs.microsoft.com/en-us/azure/azure-resource-manager/resource-group-lock-resources

- No change is needed
 - An Azure tag must be added before an administrator
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Q7)

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

Azure Germany can be used by (legal residents of Germany only).

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.

- Any user or enterprise that requires its data to reside in Germany

Explanation:- Enterprise-grade performance and flexibility, delivered locally - Drive innovation with a growing collection of integrated solutions to meet the needs of your application or business. With the new datacenter regions, you can meet local data residency requirements in Germany while using the full functionality of the services in our global Microsoft cloud infrastructure. Reference: https://azure.microsoft.com/en-us/global-infrastructure/germany/

- Only enterprises that purchase their azure licenses from a partner based in Germany
 - Only enterprises that are registered in Germany
 - No change is needed
-

Q8)

Your Azure environment contains multiple Azure virtual machines.

You need to ensure that a virtual machine named VM1 is accessible from the Internet over HTTP.

Solution: You modify an Azure firewall.

Does this meet the goal?

- Correct

Explanation:-We can either modify a firewall or modify a NSG. For basic allow/deny traffic, NSG is enough. But the same can be achieved with Firewall as well. "The Azure Firewall service complements network security group functionality. Together, they provide better "defense-in-depth" network security. Network security groups provide distributed network layer traffic filtering to limit traffic to resources within virtual networks in each subscription. Azure Firewall is a fully stateful, centralized network firewall as-a-service, which provides network- and application-level protection across different subscriptions and virtual networks." Reference: https://docs.microsoft.com/en-us/azure/firewall/firewall-faq
To open a port in the Windows Firewall:

Select the name of your virtual machine in the Microsoft Azure portal.

Click the Connect button in the toolbar.

A Remote Desktop Connection to the virtual machine is downloaded to your local directory.

Open the Remote Desktop Connection with the username and password that you entered when you created the virtual machine.

In the Server Manager, select the Local Server.

In the Properties section, click the link next to the Windows Firewall property.

Incorrect

Q9)

Your Azure environment contains multiple Azure virtual machines.

You need to ensure that a virtual machine named VM1 is accessible from the Internet over HTTP.

Solution: You modify an Azure Traffic Manager profile.

Does this meet the goal?

Incorrect

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.

Correct

Q10) Which two types of customers are eligible to use Azure Government to develop a cloud solution?

A United States government contractor

Explanation:-Microsoft Azure Government delivers a cloud platform built upon the foundational principles of security, privacy and control, compliance, and transparency. Public Sector entities receive a physically isolated instance of Microsoft Azure that employs world-class security and compliance services critical to U.S. government for all systems and applications built on its architecture. 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). Azure Government customers (US federal, state, and local government or their partners) are subject to validation of eligibility. If there is a question about eligibility for Azure Government, you should consult your account team. Refer: <https://docs.microsoft.com/en-us/azure/azure-government/documentation-government-welcome>

A United States government entity

A European government contractor

A Canadian government contractor

A European government entity

Q11) You need to ensure that when Azure Active Directory (Azure AD) users connect to Azure AD from the Internet by using an anonymous IP address, the users are prompted automatically to change their password.

Which Azure service should you use?

Azure AD Identity Protection

Explanation:-Identity Protection is a tool that allows organizations to accomplish three key tasks: Automate the detection and remediation of identity-based risks. Investigate risks using data in the portal. Export risk detection data to third-party utilities for further analysis. Reference: <https://docs.microsoft.com/en-us/azure/active-directory/identity-protection/overview-identity-protection>

Azure Advanced Threat Protection (ATP)

Azure AD Privileged Identity Management

Azure AD Connect Health

Q12) Your company plans to deploy several web servers and several database servers to Azure.

You need to recommend an Azure solution to limit the types of connections from the web servers to the database servers.

What should you include in the recommendation?

Azure Service Bus

Network security groups (NSGs)

Explanation:-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. To learn about which Azure resources can be deployed into a virtual network and have network security groups associated to them, see Virtual network integration for Azure services. For each rule, you can specify source and destination, port, and protocol. Network security group security rules are evaluated by priority using the 5-tuple information (source, source port, destination, destination port, and protocol) to allow or deny the traffic. A flow record is created for existing connections. Communication is allowed or denied based on the connection state of the flow record. The flow record

allows a network security group to be stateful. If you specify an outbound security rule to any address over port 80, for example, it's not necessary to specify an inbound security rule for the response to the outbound traffic. You only need to specify an inbound security rule if communication is initiated externally. The opposite is also true. If inbound traffic is allowed over a port, it's not necessary to specify an outbound security rule to respond to traffic over the port. Existing connections may not be interrupted when you remove a security rule that enabled the flow. Traffic flows are interrupted when connections are stopped and no traffic is flowing in either direction, for at least a few minutes. Reference:

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

- A local network gateway
 - A route filter
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Q13) 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.

- Azure Logs
 - Azure CDN
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Q14) 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
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Q15) 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.
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Q16) 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
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Q17) 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.

Q18) 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.

Q19) 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.

Q20) 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.

Q21) 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

Q22) 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

Q23) 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.

Q24) Where in the Azure portal can you find the security options shown in the following screen?

- Azure Sentinel
- Azure Security Center

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.

- Azure Firewall
- Azure Information Protection

Q25) Your organization is considering migrating its local IT infrastructure to Azure. You need to read Microsoft's policies regarding customer data privacy in the Azure public cloud. Where should you look up this information?

- TCO Calculator



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

- Service Trust Portal
- Azure SLAs

Q26) 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

Q27) 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.

Q28) 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

Q29) Correct or Incorrect: Azure China has distinct pricing and requires an account separate from an Azure global account.

- Incorrect
- Correct

Explanation:-Azure China has distinct pricing and requires an account separate from an Azure global account. Microsoft Azure operated by 21Vianet (Azure China) is a physically separated instance of cloud services located in China. It's independently operated and transacted by Shanghai Blue Cloud Technology Co., Ltd., a wholly owned subsidiary of Beijing 21Vianet Broadband Data Center Co., Ltd. Any customer data on Azure China stays within China.

Q30) 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.

Q31) To which Azure components can Azure locks be applied?

- Azure resource group

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.

- Azure Information Protection
- Azure subscription

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.

- Azure security center

Q32) Multiple independent software vendors (ISVs) have listed their firewalls in the Azure Marketplace. However, you have an option to leverage Microsoft Azure's own firewall, which is called _____.

- Azure Private
- Azure Firewall

Explanation:-Azure Firewall is a managed, cloud-based network security service that protects your 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 Firebase
- Azure Sentinel

Q33) Your organization runs its line-of-business (LOB) applications in Azure. You need to configure Azure to notify you when any Azure virtual machine (VM) is shut down or restarted. What should you do?

- Write a query in Azure Log Analytics.
- Enable guest diagnostics on your Azure VMs.
- Configure Azure Security Center.
- Define an alert in 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

Additionally, Resource Health events can be categorized as being platform initiated or user initiated.

Q34) Which Azure service is being used to display the following screen for the West US region?

- Azure Support
- Azure Service Health

Explanation:-Azure Service Health is a combination of three separate smaller services:

- Azure Status: Informs you of service outages in Azure. The page provides a global view of the health of all Azure services across all Azure regions. The Status page is a good reference for incidents with widespread impact, but we strongly recommend that current Azure users leverage Azure Service Health to stay informed about Azure incidents and maintenance.
- Azure Service Health: Provides a personalized view of the health of the Azure services and regions you're using. This is the best place to look for service-impacting communications about outages, planned maintenance activities, and other health advisories because the authenticated Azure Service Health experience knows which services and resources you currently use. The best way to use Service Health is to set up Service Health alerts to notify you via your preferred communication channels when service issues, planned maintenance, or other changes may affect the Azure services and regions you use.
- Azure Resource Health: Provides information about the health of your individual cloud resources, such as a specific virtual machine instance. Using Azure Monitor, you can also configure alerts to notify you of availability changes to your cloud resources. Azure Resource Health along with Azure Monitor notifications can help you stay better informed about the availability of your resources minute by minute and quickly assess whether an issue is due to a problem on your side or related to an Azure platform event.

- Azure IOT Hub
- Azure HDInsights

Q35) To create or delete management locks, which built-in roles must you have access to? 9Select two)

- User Access Administrator
- Owner

Explanation:-To create or delete management locks, you must have access to Microsoft.Authorization/* or Microsoft.Authorization/locks/* actions. Of the built-in roles, only Owner and User Access Administrator are granted those actions.

- Reader
- Contributor

Q36) 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

Q37) 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.

- Firewall
 - Security Center
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Q38) Which of the following Azure services is used to retrieve security tokens?

- Azure Active Directory (Azure AD)

Explanation:-Azure AD is the identity provider, responsible for verifying the identity of users and applications that exists in a organization's directory, and ultimately issuing security tokens upon successful authentication of those used and applications. A key advantage of using Azure Active Directory (Azure AD) with Azure Blob storage or Queue storage is that your credentials no longer need to be stored in your code. Instead, you can request an OAuth 2.0 access token from the Microsoft identity platform (formerly Azure AD). Azure AD authenticates the security principal (a user, group, or service principal) running the application. If authentication succeeds, Azure AD returns the access token to the application, and the application can then use the access token to authorize requests to Azure Blob storage or Queue storage. Reference: <https://docs.microsoft.com/en-us/azure/storage/common/storage-auth-aad-app> <https://docs.microsoft.com/en-us/azure/active-directory/develop/authentication-vs-authorization>

- Azure Storage account
 - A certificate store
 - An Azure key vault
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Q39) Which Azure service should you use to store certificates?

- Azure Key Vault

Explanation:-Azure Key Vault is also a service that lets you easily provision, manage, and deploy public and private Secure Sockets Layer/Transport Layer Security (SSL/TLS) certificates for use with Azure and your internal connected resources Reference: <https://docs.microsoft.com/en-us/azure/key-vault/key-vault-overview>

- An Azure Storage account
 - Azure Security Center
 - Azure Information Protection
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Q40)

You have a resource group named RG1.

You plan to create virtual networks and app services in RG1.

You need to prevent the creation of virtual machines only in RG1.

What should you use?

- A lock

Explanation:-A lock would turn it read only for all resources, but in this case, we need avoid only the creation of VMs. The lock can be set to ReadOnly means authorized users can read a resource, but they can't delete or update the resource. So creating a VM need to update the resource group which it should fail.

- An Azure role
- A tag
- An Azure policy

Explanation:-Azure policies can be used to define requirements for resource properties during deployment and for already existing resources. Azure Policy controls properties such as the types or locations of resources. 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. In this question, we would create a Azure policy assigned to the resource group that denies the creation of virtual machines in the resource group. You could place a read-only lock on the resource group. However, that would prevent the creation of any resources in the resource group, not virtual machines only. Therefore, an Azure Policy is a better solution. Reference: <https://docs.microsoft.com/en-us/learn/modules/control-and-organize-with-azure-resource-manager/6-use-resource-locks-to-protect-resources>

Q41) What should you use to evaluate whether your company's Azure environment meets regulatory requirements?

- Compliance Manager from the Service Trust Portal

Explanation:-Compliance Manager is a workflow-based risk assessment dashboard within the Trust Portal that enables you to track, assign, and verify your organization's regulatory compliance activities related to Microsoft professional services and Microsoft cloud services such as Office 365, Dynamics 365, and Azure Compliance Manager is a dashboard that provides the Compliance Score and a summary of your data protection and compliance stature as well as recommendations to improve data protection and compliance. This is a recommendation, it is up to you to evaluate and validate the effectiveness of customer controls as per your regulatory environment. Recommendations from Compliance Manager and Compliance Score should not be interpreted as a guarantee of compliance. Reference: <https://docs.microsoft.com/en-us/learn/modules/intro-to-governance/6-azure-compliance>

- The Advisor blade from the Azure portal
 - The Knowledge Center website
 - The Security Center blade from the Azure portal
-

Q42)

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

"Your company implements (Azure policies) to automatically add a watermark to Microsoft Word documents that contain credit card information."

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.

- Azure Active Directory (Azure AD) Identity Protection
- Azure Information Protection

Explanation:-

An Azure Information Protection policy contains the following elements that you can configure:

- * Which labels are included that let administrators and users classify (and optionally, protect) documents and emails.
- * Title and tooltip for the Information Protection bar that users see in their Office applications.
- * The option to set a default label as a starting point for classifying documents and emails.
- * The option to enforce classification when users save documents and send emails.
- * The option to prompt users to provide a reason when they select a label that has a lower sensitivity level than the original.
- * The option to automatically label an email message, based on its attachments.
- * The option to control whether the Information Protection bar is displayed in Office applications.
- * The option to control whether the Do Not Forward button is displayed in Outlook.
- * The option to let users specify their own permissions for documents.
- * The option to provide a custom help link for users.

Refer: <https://docs.microsoft.com/en-us/azure/information-protection/what-is-information-protection>

- DDoS protection
- No change is needed.

Q43)

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

From (Azure Monitor), you can view which user turned off a specific virtual machine during the last 14 days.

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.

- Azure Service Health
- Azure Activity Log

Explanation:-The Azure Activity Log provides insight into subscription-level events that have occurred in Azure. This includes a range of data, from Azure Resource Manager operational data to updates on Service Health events. The Activity Log was previously known as Audit Logs or Operational Logs, since the Administrative category reports control-plane events for your subscriptions. Use the Activity Log, to determine the what, who, and when for any write operations (PUT, POST, DELETE) taken on the resources in your subscription. You can also understand the status of the operation and other relevant properties. The Activity Log does not include read (GET) operations or operations for resources that use the Classic/RDFE model. There is a single Activity Log for each Azure subscription. It provides data about the operations on a resource from the outside (the "control plane"). Diagnostic Logs are emitted by a resource and provide information about the operation of that resource (the "data plane"). You must enable diagnostic settings for each resource. Reference: <https://docs.microsoft.com/en-us/azure/azure-monitor/platform/activity-logs-overview>

- Azure Event Hubs
- No change is needed

Q44)

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

(Authorization) is the process of verifying a user's credentials.

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.

- Federation
- Ticketing
- Authentication

Explanation:-Authentication is the process of determining whether someone or something is, in fact, who or what it declares itself to be. Authentication technology provides access control for systems by checking to see if a user's credentials match the credentials in a database of authorized users or in a data authentication server. Users are usually identified with a user ID, and authentication is accomplished when the user provides a credential, for example a password, that matches with that user ID. Most users are most familiar with using a password, which, as a piece of information that should be known only to the user, is called a knowledge authentication factor. Authorization is a security mechanism used to determine user/client privileges or access levels related to system resources, including computer programs, files, services, data and application features. Authorization is normally preceded by authentication for user identity verification. System administrators (SA) are typically assigned permission levels covering all system and user resources. During authorization, a system verifies an authenticated user's access rules and either grants or refuses resource access. Refer: <https://docs.microsoft.com/en-us/azure/app-service/overview-authentication-authorization>

- No change is needed

Q45

You need to configure an Azure solution that meets the following requirements:

- Secures websites from attacks
- Generates reports that contain details of attempted attacks

What should you include in the solution?

- Azure Firewall
- a network security group (NSG)
- Azure Information Protection
- DDoS protection

Explanation:-Azure DDoS Protection Protect your Azure resources from Distributed Denial of Service (DDoS) attacks. 1. Always-on monitoring and automatic network attack mitigation 2. Adaptive tuning based on platform insights in Azure 3. Application layer protection with Azure Application Gateway Web Application Firewall 4. Integration with Azure Monitor for analytics and insights 5. Protection against the unforeseen costs of a DDoS attack Reference: <https://azure.microsoft.com/en-us/services/ddos-protection/>

Q46) Your company plans to migrate all on-premises data to Azure. You need to identify whether Azure complies with the company's regional requirements.

What should you use?

- The Trust Center

Explanation:-Microsoft Trust Center helps your organization secure your sensitive data and complies with applicable laws and regulations.

Reference: <https://www.microsoft.com/en-us/trust-center>

- The Azure portal
- Azure Marketplace
- The Knowledge Center

Q47)

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

(Azure Key Vault) is used to store secrets for Azure Active Directory Azure AD user accounts.

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.

- Azure Active Directory (Azure AD) administrative accounts
- Personally Identifiable Information (PII)
- No change is needed

Explanation:-Azure Key Vault helps solve the following problems: 1. Secrets Management - Azure Key Vault can be used to Securely store and tightly control access to tokens, passwords, certificates, API keys, and other secrets 2. Key Management - Azure Key Vault can also be used as a Key Management solution. Azure Key Vault makes it easy to create and control the encryption keys used to encrypt your data. 3. Certificate Management - Azure Key Vault is also a service that 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. 4. Store secrets backed by Hardware Security Modules - The secrets and keys can be protected either by software or FIPS 140-2 Level 2 validated HSMs. Reference: <https://docs.microsoft.com/en-us/azure/key-vault/general/about-keys-secrets-certificates>

- server applications

Q48)

Your company plans to automate the deployment of servers to Azure.

Your manager is concerned that you may expose administrative credentials during the deployment. You need to recommend an Azure solution that encrypts the administrative credentials during the deployment.

What should you include in the recommendation?

- Azure Information Protection
- Azure Security Center
- Azure Key Vault

Explanation:-The answer is correct since question is about protecting credential during an automated deployment (e.g. not typing password in clear text in a JSON template or PS script), not protecting information inside documents (or logins). Azure Key Vault is the only correct answer for this scenario. Azure Key Vault helps solve the following problems: 1. Secrets Management - Azure Key Vault can be used to Securely store and tightly control access to tokens, passwords, certificates, API keys, and other secrets 2. Key Management - Azure Key Vault can also be used as a Key Management solution. Azure Key Vault makes it easy to create and control the encryption keys used to encrypt your data. 3. Certificate Management - Azure Key Vault is also a service that 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. 4. Store secrets backed by Hardware Security Modules - The secrets and keys can be protected either by software or FIPS 140-2 Level 2 validated HSMs. Reference: <https://docs.microsoft.com/en-us/azure/key-vault/general/about-keys-secrets-certificates>

- Azure Multi-Factor Authentication (MFA)

Q49)

You plan to deploy several Azure virtual machines.

You need to control the ports that devices on the Internet can use to access the virtual machines.

What should you use?

- An Azure Active Directory (Azure AD) role
- A network security group (NSG)

Explanation:-Restricting Internet access to your VMs in Azure can be achieved by making use of Azure Network Security Groups. References:
<https://scmandothergeekystuff.com/2018/04/02/blocking-internet-access-for-azure-vms/> <https://docs.microsoft.com/en-us/azure/virtual-network/security-overview>

- An Azure Active Directory group
- An Azure key vault

Q50) You have a virtual machine named VM1 that runs Windows Server 2016. VM1 is in the East US Azure region. Which Azure service should you use from the Azure portal to view service failure notifications that can affect the availability of VM1?

- Azure Monitor

Explanation:-Azure Monitor maximizes the availability and performance of your applications by delivering a comprehensive solution for collecting, analyzing, and acting on telemetry from your cloud and on-premises environments. It helps you understand how your applications are performing and proactively identifies issues affecting them and the resources they depend on. All data collected by Azure Monitor fits into one of two fundamental types, metrics and logs. Metrics are numerical values that describe some aspect of a system at a particular point in time. They are lightweight and capable of supporting near real-time scenarios. Logs contain different kinds of data organized into records with different sets of properties for each type. Telemetry such as events and traces are stored as logs in addition to performance data so that it can all be combined for analysis. Reference:
<https://docs.microsoft.com/en-us/azure/azure-monitor/overview>

- Azure Service Fabric
- Azure virtual machines
- Azure Advisor

Q51)

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

You have several virtual machines in an Azure subscription. You create a new subscription. (The virtual machines cannot be moved to the new subscription).

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 virtual machines can be moved to the new subscription only if they run Windows Server 2016.
- The virtual machines can be moved to the new subscription only if they are all in the same resource group
- No change is needed
- The virtual machines can be moved to the new subscription

Explanation:-Moving between subscriptions can be handy if you originally created a VM in a personal subscription and now want to move it to your company's subscription to continue your work. You do not need to start the VM in order to move it and it should continue to run during the move. New resource IDs are created as part of the move. After the VM has been moved, you will need to update your tools and scripts to use the new resource IDs. Refer: <https://docs.microsoft.com/en-us/azure/virtual-machines/windows/move-vm>

Q52) You attempt to create several managed Microsoft SQL Server instances in an Azure environment and receive a message that you must increase your Azure subscription limits.

What should you do to increase the limits?

- Create a new support request

Explanation:-If you attempt to create several managed Microsoft SQL Server instances in an Azure environment and receive a message that you must increase your Azure subscription limits then Create a new support request. Reference: <https://docs.microsoft.com/en-us/azure/sql-database/quota-increase-request>

- Modify an Azure policy
- Upgrade your support plan
- Create a service health alert

Q53) Which part of the cloud service model pyramid represents the greatest amount of control over your cloud computing resources?

- IaaS

Explanation:-IaaS gives the maximum control over the cloud resources. This is also apparent in the Azure shared responsibility model.

- PaaS
- It is same throughout.
- SaaS

Q54) Azure Container Instances (ACI) belongs to which cloud service model?

- Infrastructure-as-a-service (IaaS)
- Software-as-a-service (SaaS)
- Anything-as-a-service (XaaS)

- Platform-as-a-service (PaaS)

Explanation:-Azure Container Instances (ACI) is a managed PaaS service that enables users to run Docker containers on demand in a managed, serverless Azure environment. ACI is a solution for any scenario that can operate in isolated containers, without orchestration. ACI makes it possible to run event-driven applications, quickly deploy from your container development pipelines, and run data processing and build jobs.

Q55) At which part of the cloud service model pyramid is the user responsible for managing applications but not the underlying infrastructure?

- IaaS
- PaaS

Explanation:-In PaaS, users are responsible for the development of their own applications, but they are not responsible for managing the server or infrastructure. PaaS allows users to focus on the applications or workloads they want to run. The cloud provider is responsible for operating system management, network, and service configuration. Cloud providers are typically responsible for everything apart from the application that users want to run. With PaaS, a cloud provider provides a complete managed platform on which to run the application.

- SaaS
 - All levels
-

Q56) Which cloud deployment solution is used for Azure SQL Database?

- None of these
- Platform-as-a-service (PaaS)

Explanation:-Azure SQL Database falls under platform-as-a-service (PaaS).

- Software-as-a-service (SaaS)
 - Infrastructure-as-a-service (IaaS)
-

Q57) What is depicted by MyFirstLab in the following screen?

- Azure Container Instances
- Azure DevTest Labs

Explanation:-Azure DevTest Labs enables developers on teams to efficiently manage virtual machines (VMs) and PaaS resources without waiting for approvals. DevTest Labs creates labs consisting of preconfigured bases or Azure Resource Manager templates that provide all the necessary tools and software you need to create environments. You can create environments in a few minutes, as opposed to requiring hours or days.

By using DevTest Labs, you can test the latest versions of your applications by doing the following tasks:

- Quickly provision Windows and Linux environments by using reusable templates and artifacts
 - Easily integrate your deployment pipeline with DevTest Labs to provision on-demand environments
 - Scale up your load testing by provisioning multiple test agents and create pre-provisioned environments for training and demos
 - Azure resource group
 - Azure Labs
-

Q58)

A company needs to create a set of resources in Azure. They have the requirement for IT Administrators that they create resources only in a certain region.

Which of the following can help achieve this?

- Azure Locks

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

- Azure Resource Groups

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

- Azure Policies

Explanation:-You can use Azure policy for governance of your resources. An example policy on this line is explained. For more information on Azure policies, please visit the below URL <https://docs.microsoft.com/en-us/azure/governance/policy/overview>

- Azure Tags

Explanation:-This option is incorrect since this is used for management and billing purpose

Q59)

A company wants to host an application in 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?

- No
- Yes

Explanation:-Yes, this is the right tool to use. Below is what the Microsoft documentation states about this service..For more information on the Azure Key vault, please visit the below URL <https://docs.microsoft.com/en-us/azure/key-vault/key-vault-what-is>

Q60)

A company wants to host an application in 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?

- No

Explanation:-This is used more of a protective layer for your resources in Azure. Below is what the Microsoft documentation states about this service. For more information on the Azure Security Service, please visit the below URL <https://docs.microsoft.com/en-us/azure/security/>

Yes

Q61)

A company wants to host an application in Azure. The application connects to a database in Azure. The company wants 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?

No

Explanation:-This is a recommendation tool. Below is what the Microsoft documentation states about this service. For more information on the Azure Advisor, please visit the below URL <https://docs.microsoft.com/en-us/azure/advisor/advisor-overview>

Yes

Q62) A company wants to setup resources in Azure. They want a way to manage identities in Azure. Which of the following is used as an Identity Management solution in Azure?

Azure Monitor

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

Azure Security Center

Explanation:-This option is incorrect since this is used to protect resources in Azure

Azure Advisor

Explanation:-This option is incorrect since this is used to provide recommendations

Azure AD

Explanation:-The Microsoft documentation mentions this concept. For more information on Azure AD, please visit the below URL <https://docs.microsoft.com/en-us/azure/active-directory/fundamentals/active-directory-whatis>

Q63) Your company plans to migrate to Azure. The company has several departments. All the Azure resources used by each department will be managed by a department administrator.

You need to recommend an Azure deployment that provides the ability to segment Azure for the departments. The solution must minimize administrative effort.

What should you include in the recommendation?

Multiple Azure Active Directory (Azure AD) directories

Multiple subscriptions

Explanation:-A subscription is an agreement with Microsoft to use one or more Microsoft cloud platforms or services, for which charges accrue based on either a per-user license fee or on cloud-based resource consumption. Microsoft's Software as a Service (SaaS)-based cloud offerings (Office 365, Intune/EMS, and Dynamics 365) charge per-user license fees. Microsoft's Platform as a Service (PaaS) and Infrastructure as a Service (IaaS) cloud offerings (Azure) charge based on cloud resource consumption. You can also use a trial subscription, but the subscription expires after a specific amount of time or consumption charges. You can convert a trial subscription to a paid subscription. Reference: <https://docs.microsoft.com/en-us/office365/enterprise/subscriptions-licenses-accounts-and-tenants-for-microsoft-cloud-offerings>

Multiple regions

Multiple resource groups

Q64)

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

You can create an Azure support request from {support.microsoft.com}.

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 Knowledge Center

The Azure portal

Explanation:-Azure enables you to create and manage support requests, also known as support tickets. You can create and manage requests in the Azure portal, which is covered in this article. You can also create and manage requests programmatically, using the Azure support ticket REST API. Refer: <https://docs.microsoft.com/en-us/azure/azure-portal/supportability/how-to-create-azure-support-request>

No change is needed.

The Security & Compliance admin center

Q65) What is Guaranteed in an Azure Service Level Agreement (SLA)?

Performance

Bandwidth

Uptime and Connectivity

Explanation:-

The Service Level Agreement (SLA) describes Microsoft's commitments for uptime and connectivity

Feature Availability

Q66) Your organization plans to develop several web applications that will run in Azure App Service. You need to give your developers the ability to register these applications with Azure.

What should you use?

- Azure AD IdP
- Azure AD role

Explanation:-By using Azure Active Directory (Azure AD), you can designate limited administrators to manage identity tasks in less-privileged roles. Administrators can be assigned for purposes such as adding or changing users, assigning administrative roles, resetting user passwords, managing user licenses, and managing domain names. The default user permissions can be changed only in user settings in Azure AD.

- Azure AD PIM
- Azure AD Connect

Q67) Correct or Incorrect: When you apply a lock at a parent scope, all resources within that scope inherit the same lock.

- 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.

- Incorrect

Q68) Your organization runs its IT infrastructure in Azure. You need to verify that an outage the organization is experiencing is due to a problem on Microsoft's side. What should you do?

- Create a metric alert
- Create a Network Watcher instance
- Check the Azure Service Trust portal
- Check Azure Service Health

Explanation:-Azure Service Health is a suite of experiences that provide personalized guidance and support when issues in Azure services are or may affect you in the future. Azure Service Health is composed of Azure status, the service health service, and Resource Health.

Q69) Which cloud deployment solution is used for Azure virtual machines?

- Software as a Service (SaaS)
- Platform as a service (PaaS)
- Infrastructure as a Service (IaaS)

Explanation:-Infrastructure as a service (IaaS) is an instant computing infrastructure, provisioned and managed over the internet. IaaS quickly scales up and down with demand, letting you pay only for what you use. It helps you avoid the expense and complexity of buying and managing your own physical servers and other datacenter infrastructure. Each resource is offered as a separate service component, and you only need to rent a particular one for as long as you need it.

- None of these

Q70) Which cloud deployment solution is used for Azure SQL databases?

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

Explanation:-Azure SQL Database falls under “Platform as a Service (Paas)”.

- Infrastructure as a Service (IaaS)
- None of these

Q71)

For each of the following statements, select YES if the statement is True. Otherwise select, NO.

Statement 1 - A Standard Support plan is included in an Azure Free Account.

Statement 2 - A Premier Support plan can only be purchased by companies that have an Enterprise Agreement (EA)

Statement 3 - Support from MSDN forums is only provided to companies that have a pay-as-you-go subscription

- Statement 1: NO

Statement 2: YES

Statement 3: NO

- Statement 1: YES

Statement 2: NO

Statement 3: YES

- Statement 1: YES

Statement 2: YES

Statement 3: NO

- Statement 1: NO

Statement 2: NO

Statement 3: YES

- Statement 1: NO

Statement 2: NO

Statement 3: NO

Explanation:-As seen from the above chart -

1. A Standard support plan is NOT included in an Azure free account.
2. A Premier support plan can be purchased by companies even if they do not have an Enterprise Agreement (EA).
3. Support from MSDN forums is available to companies even if they do not have a pay-as-you-go subscription.

- Statement 1: YES

Statement 2: YES

Statement 3: YES

Q72)

This question requires that you evaluate the Bracket text to determine if it is correct.

"An Azure service is available to all Azure customers when it is in (public preview)."

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

- an Enterprise Agreement (EA) subscription
- development
- private preview
- No change is needed

Explanation:-No change is needed for the given statement. Public preview is available to all customers.

Q73)

Fill in the blank with the correct Azure service to correctly complete the statement below.

_____ is a big data analysis service for machine learning.

- Azure Application Insights
- Azure App Service
- Azure Function
- Azure Databricks

Explanation:-

Azure Databricks has "MLib": Machine Learning library consisting of common learning algorithms and utilities, including classification, regression, clustering, collaborative filtering, dimensionality reduction, as well as underlying optimization primitives.

Q74)

Fill in the blank with the Azure service to complete the statement below.

_____ detects and diagnoses anomalies in web apps.

- Azure App Service
- Azure Application Insights

Explanation:-

Application Insights, a feature of Azure Monitor is an extensible Application Performance Management (APM) service for web developers on multiple platforms. Use it to monitor your live web application. It will automatically detect performance anomalies.

- Azure Functions
- Azure Databricks

Q75)

Fill in the blank with the Azure service to complete the statement below.

_____ is a tool that provides guidance and recommendations to improve an Azure environment.

- Azure Application Insights
- Azure DevOps
- Azure Cognitive Services
- Azure Advisor

Explanation:-Azure Advisor is a tool that provides guidance and recommendations to improve an Azure environment.

Q76)

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

Let us suppose you have an Azure virtual network defined VNET1 in a resource group named RG1.

You are required to assign an Azure policy specifying that virtual networks are not allowed resource type in RG1. (VNET1 is deleted automatically)."

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

- VNET1 is now a read-only object
- VNET1 continues to function normally

Explanation:-

The Vnet becomes non-compliant but it is not deleted.

Each policy definition in Azure Policy has a single effect. That effect determines what happens when the policy rule is evaluated to match. The effects behave differently if they are for a new resource, an updated resource, or an existing resource.

These effects are currently supported in a policy definition:

- Append
- Audit
- AuditIfNotExists
- Deny
- DeployIfNotExists
- Disabled
- EnforceOPAConstraint (preview)
- EnforceRegoPolicy (preview)
- Modify

Reference: <https://docs.microsoft.com/en-us/learn/modules/control-and-organize-with-azure-resource-manager/2-principles-of-resource-groups>

- No change is needed
- VNET1 is moved automatically to another resource group

Q77) An Azure Information Protection can encrypt _____.

- An Azure Storage account
- Documents and email messages

Explanation:-

Azure Information Protection (sometimes referred to as AIP) is a cloud-based solution that helps an organization to classify and optionally, protect its documents and emails by applying labels. Azure Information Protection uses AES 256 and AES 128 to encrypt documents. More information. All encryption keys used by Azure Information Protection are protected with a customer-specific root key that uses RSA 2048 bits. RSA 1024 bits is also supported for backwards compatibility.

Reference: <https://docs.microsoft.com/en-us/azure/information-protection/what-is-information-protection>

- An Azure SQL database
- Network traffic

Q78) An organization is on the roadmap to lift and shift all its infrastructure and services to Azure. The auditors want to ensure that the cloud complies with regional regulations and legislations in terms of data consumption and usage. Which of the following can help identify the services that are compliant and can be subscribed to by the organization?

- Azure Marketplace ISV notices
- 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 Help and Support
- Azure Sentinel

Q79) 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

Q80) 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.

Q81) 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

Q82) 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

Q83) An application should connect to _____ to retrieve security tokens.

- An Azure Storage account
- A certificate store
- An Azure key vault
- Azure Active Directory (Azure AD)

Explanation:-

Azure Active Directory for developers is a service that allows developers to retrieve security tokens. Microsoft identity platform is an evolution of the Azure Active Directory (Azure AD) developer platform. It allows developers to build applications that sign in all Microsoft identities and get tokens to call Microsoft APIs such as Microsoft Graph or APIs that developers have built. It's a full-featured platform that consists of an OAuth 2.0 and OpenID Connect standard-compliant authentication service, open-source libraries, application registration and configuration, robust conceptual and reference documentation, quickstart samples, code samples, tutorials, and how-to guides.

Refer: <https://docs.microsoft.com/en-us/azure/active-directory/develop/>

Q84)

Let us suppose your company has an Azure environment containing resources in several regions. The company policy states that administrators should only be allowed to create additional Azure resources in a region in the country where their office is located.

You are required to create Azure resources that must be used to meet the company policy requirement.

Which of the following would you suggest to create to meet the company policy?

- A management group
- An 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.

- A read-only lock
- A reservation

Q85)

Let us suppose your company plans to migrate all its data and resources to Azure. Your company's migration plan states that only platform as a service (PaaS) solutions must be used in Azure.

You are required to deploy an Azure environment that supports the planned migration.

Solution: You suggest to create an Azure App Service and Azure SQL databases.

Does your solution meets the company's goal?

- Incorrect
- Correct

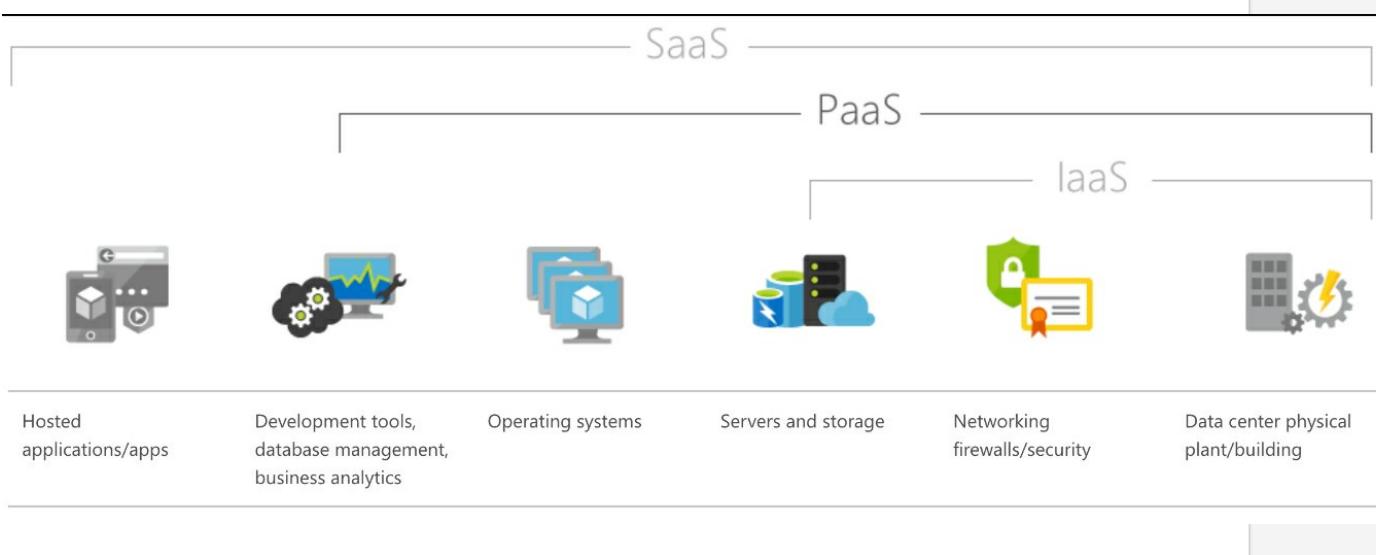
Explanation:-

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.

Like IaaS, PaaS includes infrastructure-servers, storage and networking-but also middleware, development tools, business intelligence (BI) services, database management systems and more. PaaS is designed to support the complete web application lifecycle: building, testing, deploying, managing and updating.

PaaS allows you to avoid the expense and complexity of buying and managing software licenses, the underlying application infrastructure and middleware, container orchestrators such as Kubernetes or the development tools and other resources. You manage the applications and services you develop and the cloud service provider typically manages everything else.

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.



Q86)

Let us suppose you have been asked to plan for migrating a web application to Azure. The web application is accessed by external users.

You have been asked to suggest a cloud deployment solution to minimize the amount of administrative effort used to manage the web application.

Which of the following should you include in the recommendation?

- Database as a service (DaaS).
- Infrastructure as a service (IaaS).

Explanation:-

IaaS (Information as a Service). IaaS is the most basic level of cloud-based solutions, which refers to renting an IT infrastructure as a fully outsourced service. In this category, the cloud provider lets you rent servers, VMs, storage, network and operating systems on a pay-as-you-go basis.

Examples: Amazon EC2 and S3, Google Compute Engine, Windows Azure.

- Platform as a service (PaaS).

Explanation:-

PaaS (Platform as a Service). PaaS is the cloud solution where, apart from providing an infrastructure, cloud providers also issue an on-demand computing environment to develop, test, run and collaborate with components such as web servers, database management systems, and software development kits (SDKs) for various programming languages.

Examples: AWS Elastic Beanstalk, Heroku, Windows Azure, Force.com, Google App Engine.

- Software as a service (SaaS).

Explanation:-

SaaS (Software as a Service). SaaS providers offer fully functional web-based application softwares tailored to a variety of business needs such as project tracking, web conferencing, marketing automation or business analytics.

Examples: Google Apps, Microsoft Office 365, Gmail, Yahoo and Facebook

Q87)

Let us suppose your company plans to deploy an Artificial Intelligence (AI) solution in Azure.

Which of the following options would you suggest your company to build, test, and deploy predictive analytics solutions?

- Azure Cosmos DB
- Azure Batch
- Azure Machine Learning Studio

Explanation:-Microsoft Azure Machine Learning Studio (classic) is a collaborative, drag-and-drop tool you can use to build, test, and deploy predictive analytics solutions on your data. Machine Learning Studio is a powerfully simple browser-based, visual drag-and-drop authoring environment where no coding is necessary. Go from idea to deployment in a matter of clicks.

Azure Machine Learning is designed for applied machine learning. Use best-in-class algorithms and a simple drag-and-drop interface-and go from idea to deployment in a matter of clicks.

Reference: <https://azure.microsoft.com/en-in/services/machine-learning-studio/>

- Azure Logic Apps

Q88)

Let us suppose you have a virtual machine called VM1 that runs Windows Server 2016. Given, VM1 is in the East US Azure region

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You are required to view service failure notifications that can affect the availability of VM1,

Which Azure service should you use from the Azure portal in this case?

- Azure Advisor
- Azure Monitor

Explanation:-

Azure Monitor maximizes the availability and performance of your applications by delivering a comprehensive solution for collecting, analyzing, and acting on telemetry from your cloud and on-premises environments. It helps you understand how your applications are performing and proactively identifies issues affecting them and the resources they depend on.

All data collected by Azure Monitor fits into one of two fundamental types, metrics and logs. Metrics are numerical values that describe some aspect of a system at a particular point in time. They are lightweight and capable of supporting near real-time scenarios. Logs contain different kinds of data organized into records with different sets of properties for each type. Telemetry such as events and traces are stored as logs in addition to performance data so that it can all be combined for analysis.

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

- Azure Service Fabric
 - Azure Virtual Machines
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