

**Q1) Which tool within Azure is comprised of : Azure Status, Service Health and Resource Health?**

- Azure Service Health

**Explanation:-**Azure Service Health notifies you about Azure service incidents and planned maintenance so you can take action to mitigate downtime. Configure customizable cloud alerts and use your personalized dashboard to analyze health issues, monitor the impact to your cloud resources, get guidance and support, and share details and updates. Reference: <https://azure.microsoft.com/en-us/features/service-health/#faqs>

- Azure Advisor
  - Azure Dashboard
  - Azure Monitor
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**Q2) Which of the following cloud computing models requires the highest level of involvement in maintaining the operating system and file system by the customer?**

- IaaS

**Explanation:-**Infrastructure as a service (IaaS) are online services that provide high-level APIs used to dereference various low-level details of underlying network. Reference: <https://azure.microsoft.com/en-us/overview/what-is-iaas/>

- FaaS
  - PaaS
  - SaaS
- 

**Q3) Which of the following is considered a downside to using Capital Expenditure (CapEx)?**

- You can deduct expenses as they occur
- It does not require a lot of up front money
- You must wait over a period of years to depreciate that investment on your taxes

**Explanation:-**Capital expenditures generate benefits over a long period. These expenditures are generally nonrecurring and result in the acquisition of permanent assets. Building an application could qualify as a capital expenditure. In some organizations, reducing capital expenses in favor of operating expenses is a highly undesirable outcome. Refer: <https://docs.microsoft.com/en-us/azure/cloud-adoption-framework/strategy/business-outcomes/fiscal-outcomes>

- You are not guaranteed to make a profit
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**Q4) Approximately how many regions does Azure have around the world?**

- 60

**Explanation:-**Azure is generally available in 53 regions around the world, with plans announced for 7 additional regions.

- 25
  - 100
  - 10
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**Q5) Which of the following is not an example of Infrastructure as a Service?**

- Virtual Machine
- Virtual Network
- Virtual Machine Scale Sets
- SQL Server in a VM
- Azure SQL Database

**Explanation:-**Microsoft Azure SQL Database (formerly SQL Azure, SQL Server Data Services, SQL Services, and Windows Azure SQL Database) is a managed cloud database (PaaS) provided as part of Microsoft Azure. Refer: <https://docs.microsoft.com/en-us/azure/azure-sql/database/sql-database-paas-overview>

**Q6) What is the concept of being able to get your applications and data running in another environment quickly?**

- Reproducible deployments
- Business Continuity / Disaster Recovery (BC/DR)
- Azure Devops

**Explanation:-**Azure DevOps span the breadth of the development lifecycle to help developers ship software faster and with higher quality. They represent the most complete offering in the public cloud. <https://azure.microsoft.com/en-us/blog/introducing-azure-devops/>

- Azure Blueprint

**Explanation:-**

Azure Blueprints enables cloud architects and central information technology groups to define a repeatable set of Azure resources that implements and adheres to an organization's standards, patterns, and requirements. Azure Blueprints makes it possible for development teams to rapidly build and stand up new environments with trust they're building within organizational compliance with a set of built-in components, such as networking, to speed up development and delivery. Refer: <https://docs.microsoft.com/en-us/azure/governance/blueprints/overview>

**Q7) If you have an Azure free account, with a \$200 credit for the first month, what happens when you reach the \$200 limit?**

- All services are stopped and you must decide whether you want to convert to a paid account or not.

**Explanation:-**The Azure free account includes access to a number of Azure products that are free for 12 months, \$200 credit to spend for the first 30 days of sign up, and access to more than 25 products that are always free. At the end of your first 30 days, you can continue using your free products after you upgrade your account to a pay-as-you-go pricing and remove the spending limit. If you stay within the service quantities included for free, you won't have to pay anything. The \$200 free credit acts as a spending limit. If you decide not to upgrade at the end of 30 days or once you've used up your \$200 credit (whichever happens first), any products you've deployed will be decommissioned and you won't be able to access

them. You can always come back within the next 30 days to upgrade your account. <https://azure.microsoft.com/en-us/free/free-account-faq/>

- Your account is automatically closed.
- You cannot create any more resources until you add more credits to the account.
- Your credit card is automatically billed.

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#### **Q8) What happens if Azure does not meet its own Service Level Agreement guarantee (SLA)?**

- You will be financially refunded a small amount of your monthly fee
- The service will be free that month
- You may be eligible for a credit towards a portion of your monthly service fees.

**Explanation:-**

Microsoft states that, If we do not achieve and maintain the Service Levels for each Service as described in this SLA, then you may be eligible for a credit towards a portion of your monthly service fees.

We will not modify the terms of your SLA during the initial term of your subscription; however, if you renew your subscription, the version of this SLA that is current at the time of renewal will apply throughout your renewal term. We will provide at least 90 days' notice for adverse material changes to this SLA.

Reference: [https://azure.microsoft.com/en-us/support/legal/sla/cloud-services/v1\\_3/](https://azure.microsoft.com/en-us/support/legal/sla/cloud-services/v1_3/)

- It's not possible. Azure will always meet its SLA

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#### **Q9) What is the goal of a DDoS attack?**

- To trick users into giving up personal information
- To overwhelm and exhaust application resources

**Explanation:-**Distributed Denial of Service (DDoS) attacks are one of the top availability and security concerns voiced by customers moving their applications to the cloud. This service is integrated with Virtual Networks and provides protection for Azure applications from the impacts of DDoS attacks. Reference: <https://azure.microsoft.com/en-in/blog/azure-ddos-protection-service-preview/>

- To crack the password from administrator accounts
- To extract data from a database

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#### **Q10) What data format are ARM templates created in?**

- JSON

**Explanation:-**Any one on your team can run the code and deploy similar environments. To implement infrastructure as code for your Azure solutions, use Azure Resource Manager (ARM) templates. The template is a JavaScript Object Notation (JSON) file that defines the infrastructure and configuration for your project Reference: <https://docs.microsoft.com/en-us/azure/azure-resource-manager/templates/overview>

- HTML
- XML
- YAML

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#### **Q11) Which of the following are one of the advantages of running your cloud in a private cloud?**

- You own the hardware, so you can change private cloud hosting providers easily.
- Private cloud is significantly cheaper than the public cloud.
- Assurance that your code, data and applications are running on isolated hardware, and on an isolated network.

**Explanation:-**The main benefits organizations can attain by running their IT systems in a private cloud environment are flexibility, guaranteed resource availability, strong security, and regulatory compliance, and in some cases, cost savings.

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#### **Q12) What advantage does an Application Gateway have over a Load Balancer?**

- Application gateway understands the HTTP protocol and can interpret the URL and make decisions based on the URL.

**Explanation:-**Traditional load balancers operate at the transport layer (OSI layer 4 - TCP and UDP) and route traffic based on source IP address and port, to a destination IP address and port. Application Gateway can make routing decisions based on additional attributes of an HTTP request, for example URI path or host headers. Reference: <https://docs.microsoft.com/en-us/azure/application-gateway/overview>

- Application Gateway is more like an enterprise-grade product. You should not use a load balancer in production.
- Application Gateway can be scaled so that two, three or more instances of the gateway can support your application.

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#### **Q13) What is a policy initiative in Azure?**

- The ability to group policies together

**Explanation:-**An Azure initiative is a collection of Azure policy definitions that are grouped together towards a specific goal or purpose in mind. Azure initiatives simplify management of your policies by grouping a set of policies together as one single item. Reference:

<https://techcommunity.microsoft.com/t5/itops-talk-blog/azure-policy-initiatives-vs-azure-policies-when-should-i-use-one/ba-p/1229167>

- Assigning permissions to a role in Azure
- Requiring all resources in Azure to use tags
- A custom designed policy

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#### **Q14) How many Azure Container service to cluster virtual machines are available in the first 12 months?**

- 50
- 15
- 12
- Always Free

**Explanation:-**

Azure Container service to cluster virtual machines is always free. Reference: <https://azure.microsoft.com/en-us/free/free-account-faq/>

#### **Q15) What are groups of subscriptions called?**

- Management Groups

**Explanation:-**Azure management groups help you organize your resources and subscriptions. Reference: <https://docs.microsoft.com/en-us/azure/governance/management-groups/overview>

- Subscription Groups
- ARM Groups
- Azure Policy

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#### **Q16) How does Multi-Factor Authentication make a system more secure?**

- It doesn't make it more secure
- It requires the user to have access to their verified phone in order to log in

**Explanation:-**Microsoft Authenticator Approve sign-ins from a mobile app using push notifications, biometrics, or one-time passcodes. Augment or replace passwords with two-step verification and boost the security of your accounts from your mobile phone. Refer: <https://www.microsoft.com/en-us/security/business/identity/mfa>

- It allows the user to log in without a password because they have already previously been validated using a browser cookie
- It is another password that a user has to memorize, making it more secure

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#### **Q17) Where can you go to see what standards Microsoft is in compliance with?**

- Azure Security Center
- Trust Center

**Explanation:-**The Trust Center is where you can find security and privacy settings for Microsoft Office programs. Reference: <https://www.microsoft.com/en-us/trust-center/product-overview>

- Azure Privacy Page
- Azure Service Health

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#### **Q18) Even without paying for support, you can still open a support ticket if you encounter a problem such as a billing issue**

- Correct

**Explanation:-**If you are unable to find answers by using self-help resources, you can open an online support ticket. You should open each support ticket for only a single problem, so that we can connect you to the support engineers who are subject matter experts for your problem. Also, Azure Active Directory engineering teams prioritize their work based on incidents that are generated, so you're often

- Incorrect

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#### **Q19) Which style of computing is easiest when migrating an existing hosted application from your own data center into the cloud?**

- FaaS
- Serverless
- PaaS
- IaaS

**Explanation:-**Infrastructure as a service (IaaS) is an instant computing infrastructure, provisioned and managed over the internet. A cloud computing service provider, such as Azure, manages the infrastructure, while you purchase, install, configure, and manage your own software—operating systems, middleware, and applications. Refer: <https://azure.microsoft.com/en-us/overview/what-is-iaas>

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#### **Q20) What is the significance of the Azure region?**

- Even though you have to choose a region when creating resources, there's generally no consequence of what you select. You can create a network in one region and then create virtual machines for that network in another region.
- Region is just a folder structure in which you organize resources, much like file folders on a computer.
- Once you select a region, you cannot create resources outside of that region. So selecting the right region is an important decision.
- You must select a region when creating most resources, and the region is the area of the world where those resources will be physically located.

**Explanation:-**Azure operates in multiple datacenters around the world. These datacenters are grouped in geographic regions, giving you flexibility in choosing where to build your applications. It is important to understand how and where your virtual machines (VMs) operate in Azure, along with your options to maximize performance, availability, and redundancy. This article provides you with an overview of the availability and redundancy features of Azure. Reference: <https://docs.microsoft.com/en-us/azure/virtual-machines/windows/regions>

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#### **Q21) You have an Azure environment.**

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

**Solution: You use Bash in Azure cloud shell.**

**Does this meet the goal?**

- Incorrect
- Correct

**Explanation:-**When you log in to Azure portal in an Android laptop, you can use "Bash" through "Cloud Shell" as shown below:

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#### **Q22) 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?**

- No, it does not meet the solution

**Explanation:-**Power apps is not part of Azure. [https://powerapps.microsoft.com/en-us/blog/introducing-powerapps-portals-powerful-low-code-](https://powerapps.microsoft.com/en-us/blog/introducing-powerapps-portals-powerful-low-code/)

websites-for-external-users/ The solution does not meet the goal. We use "Azure Portal" to create Virtual Machines from an Android laptop as shown below

- Yes, it meets the solution

**Explanation:-**Instead we should use PowerShell in Azure Cloud Shell. PowerShell is a task-based command-line shell and scripting language built on .NET. PowerShell helps system administrators and power-users rapidly automate tasks that manage operating systems (Linux, macOS, and Windows) and processes. PowerShell commands let you manage computers from the command line. PowerShell providers let you access data stores, such as the registry and certificate store, as easily as you access the file system. PowerShell includes a rich expression parser and a fully developed scripting language. <https://docs.microsoft.com/en-us/azure/cloud-shell/quickstart-powershell>

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**Q23)**

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

**"An organization that hosts its infrastructure (in a private cloud) can decommission its data center."**

**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.**

- in a hybrid cloud
- in the public cloud

**Explanation:-**a public cloud is defined as computing services offered by third-party providers over the public Internet, making them available to anyone who wants to use or purchase them. They may be free or sold on-demand, allowing customers to pay only per usage for the CPU cycles, storage or bandwidth they consume. The public cloud is a shared entity and the general public or institutions are allowed to use a portion of the public cloud as per their requirements. An organization that hosts its infrastructure in a public cloud can decommission its data center.

- No change is needed.
- on a hyper-V host

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**Q24) For each of the following statements, select YES if the statement is true. Otherwise select, NO.**

- Statement 1: YES
- Statement 2: YES
- Statement 3: YES
- Statement 1: YES
- Statement 2: NO
- Statement 3: YES

**Explanation:-**

1. Azure provides flexibility between capital expenditure (CapEx) and operational expenditure (OpEx).
2. If you create two Azure virtual machines that use the B2S size, each virtual machine will NOT always generate the same monthly costs. This is because it also depends on the region in which the virtual machines are located and costs differ region-wise
3. When an Azure virtual machine is stopped, you continue to pay storage costs associated with the virtual machine.

- Statement 1: NO
- Statement 2: NO
- Statement 3: NO
- Statement 1: NO
- Statement 2: YES
- Statement 3: NO
- Statement 1: NO
- Statement 2: NO
- Statement 3: YES
- Statement 1: YES
- Statement 2: YES
- Statement 3: NO

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**Q25) What is the service level agreement for two or more Azure Virtual Machines that have been placed into the same Availability Set in the same region?**

- 99.95 percent

**Explanation:-**

Organizations get a 99.95 percent service-level agreement (SLA) assurance of uptime for VMs with Azure Availability Zones, which applies when there are "two or more VMs running in two or more zones in the same region," according to Microsoft's Azure Availability Zones homepage.

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

- 99 percent
- Explanation:-**

- 100 percent
- 95 percent

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**Q26) Azure PowerShell scripts and Command Line Interface (CLI) scripts are entirely compatible with each other?**

- Correct
- Incorrect

**Explanation:-**As per 2019, both are cross-platform so it should only be a language/syntax preference but with Azure Cli all/most commands are idempotent. ... Azure Cli command can only be executed from bash (Linux) or bat (Windows) scripts.

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**Q27) Which database product offers "sub 5 millisecond" response times as a feature?**

- Azure SQL Server in a VM
- Azure SQL Data Warehouse
- Azure Cosmos DB

**Explanation:**-Azure Cosmos DB is a fully managed NoSQL database service for modern app development with guaranteed single-digit millisecond response times and 99.999-percent availability backed by SLAs, automatic and instant scalability, and open source APIs for MongoDB and Cassandra. Enjoy fast writes and reads anywhere in the world with turnkey multi-master global distribution. Reference:  
<https://azure.microsoft.com/en-us/services/cosmos-db/>

- Azure SQL Database

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**Q28) Which Azure service, when enabled, will automatically block traffic to or from known malicious IP addresses and domains?**

- Azure Firewall

**Explanation:**-Azure Firewall is a cloud native firewall-as-a-service offering which enables customers to centrally govern all their traffic flows using a DevOps approach. The service supports both application (such as \*.github.com), and network level filtering rules. It is highly available and auto scales as your traffic grows. Microsoft has a rich signal of both internal threat intelligence data, as well as third party sourced data. Our vast team of data scientists and cybersecurity experts are constantly mining this data to create a high confidence list of known malicious IP addresses and domains. Azure firewall can now be configured to alert and deny traffic to and from known malicious IP addresses and domains in near real-time. The IP addresses and domains are sourced from the Microsoft Threat Intelligence feed. The Microsoft Intelligent Security Graph powers Microsoft Threat Intelligence and provides security in multiple Microsoft products and services, including Azure Security Center and Azure Sentinel. Refer:  
<https://azure.microsoft.com/en-us/blog/announcing-new-capabilities-in-azure-firewall/>

- Network Security Groups
- Azure Active Directory
- Load Balancer

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**Q29) Which two features does Virtual Machine Scale Sets provide as part of the core product?**

- Autoscaling of virtual machines

**Explanation:**-Virtual Machine Scale Sets apply autoscaling to virtual machines for high availability, 1. Create thousands of identical virtual machines in minutes 2. Quickly scale your big compute and big data applications 3. Rely on integrated load balancing and autoscaling 4. Attach additional data disks as per your application requirement 5. Deploy virtual machines and updates at scale 6. Support Linux or Windows images and extensions 7. Run Cassandra, Cloudera, Hadoop, MongoDB, and Mesos 8. Deploy across availability zones to protect against datacenter failures

- Content Delivery Network
- Firewall
- Load balancing between virtual machines
- Automatic installation of supporting apps and deployment of custom code

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**Q30) Which of the following resources are not considered Compute resources?**

- Azure Batch
- Load Balancer

**Explanation:**-An Azure load balancer is a Layer-4 (TCP, UDP) load balancer that provides high availability by distributing incoming traffic among healthy VMs. A load balancer health probe monitors a given port on each VM and only distributes traffic to an operational VM. Reference:  
<https://docs.microsoft.com/en-us/azure/load-balancer/>

- Function Apps
- Virtual Machines
- Virtual Machine Scale Sets

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**Q31) What software is used to synchronize your on premises AD with your Azure AD?**

- AD Connect

**Explanation:**-he Azure AD Connect sync service ensures that identity information stored in the cloud is consistent with that held on-premises. You install this service using the Azure AD Connect software. Before implementing Azure AD Connect sync, determine the synchronization requirements of your organization. For example, what to synchronize, from which domains, and how frequently. Reference: <https://docs.microsoft.com/en-us/azure/architecture/reference-architectures/identity/azure-ad>

- Azure AD Federation Services
- LDAP
- Azure AD Domain Services

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**Q32) What is an Azure Subscription?**

- Each user account is associated with a unique subscription. If you need more than one subscription, you need to create multiple user accounts.
- It is the level at which services are billed. All resources created under a subscription are billed to that subscription.

**Explanation:**-Azure Subscription: The container where your created resources are created. Billing is per subscription. (multiple subscription can have the same Azure AD). You can also set specific Azure policies on subscription level. Reference: <https://docs.microsoft.com/en-us/office365/enterprise/subscriptions-licenses-accounts-and-tenants-for-microsoft-cloud-offerings>

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**Q33) What is the core problem that you need to solve in order to have a high-availability application?**

- You need to avoid single points of failure

**Explanation:**-Dealing with unexpected failures is one of the hardest problems to solve, especially in a distributed system. Much of the code that developers write involves handling exceptions, and this is also where the most time is spent in testing. The problem is more involved than writing code to handle failures. What happens when the machine where the microservice is running fails? Not only do you need to detect this microservice failure (a hard problem on its own), but you also need something to restart your microservice. Refer: <https://docs.microsoft.com/en-us/dotnet/architecture/microservices/architect-microservice-container-applications/resilient-high-availability-microservices>

- You should have a backup copy of your application on standby, ready to be started up when the main application fails.

- You need to ensure your server has a lot of RAM and a lot of CPUs
  - You need to ensure the capacity of your server exceeds your highest number of expected concurrent users
- 

**Q34) Which of the following would be an example of an Internet of Things (IoT) device?**

- A web application that people use to perform their banking tasks
- A mobile application that is used to watch online video courses
- A video game, installed on Windows clients around the world, that keep user scores in the cloud.
- A refrigerator that monitors how much milk you have left and sends you a text message when you are running low

**Explanation:-**The correct answer is a refrigerator that monitors how much milk you have left and sends you a text message when you are running low. The Azure Internet of Things (IoT) is a collection of Microsoft-managed cloud services that connect, monitor, and control billions of IoT assets. In simpler terms, an IoT solution is made up of one or more IoT devices that communicate with one or more back-end services hosted in the cloud.

Refer: <https://docs.microsoft.com/en-us/azure/iot-fundamentals/iot-introduction>

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**Q35)**

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

- A simplified tool to build intelligent Artificial Intelligence applications

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

- Azure Application Insights
- Azure Cognitive Services

**Explanation:-**As shown in the Microsoft documentation below, the Azure Cognitive services has an entire list of features that can be used to build Artificial Intelligent based applications. Since this is a clear feature on the tool, all other options are incorrect For more information on Azure Cognitive services, please visit the below URL <https://azure.microsoft.com/en-us/services/cognitive-services/>

- Azure Advisor
  - Azure Devops
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**Q36)**

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

- A tool used to monitor Web applications hosted in production based environments

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

- Azure Devops
- Azure Application Insights

**Explanation:-**This is clearly mentioned in the Microsoft documentation. Since this is a clear feature on the tool, all other options are incorrect For more information on Azure Application Insights, please visit the below URL <https://docs.microsoft.com/en-us/azure/azure-monitor/app/app-insights-overview>

- Azure Cognitive Services
  - Azure Advisor
- 

**Q37)**

**A company needs to implement a solution in Azure. Below are the key requirements for this solution:**

- Ability to store JSON documents
- Ensure low latency access to data from around the world

**Which of the following data solution would you consider for this requirement?**

- SQL Server Stretch database

**Explanation:-**This option is incorrect since this is used to dynamically stretch warm and cold transactional data from Microsoft SQL Server 2016 to Microsoft Azure

- Azure SQL Datawarehouse

**Explanation:-**This option is incorrect since this is used for building data warehouses

- Azure SQL Database

**Explanation:-**This option is incorrect since this is used to store normal table like data

- Azure CosmosDB

**Explanation:-**Azure Cosmos DB is Microsoft's globally distributed, multi-model database service. With a click of a button, Cosmos DB enables you to elastically and independently scale throughput and storage across any number of Azure regions worldwide. You can elastically scale throughput and storage, and take advantage of fast, single-digit-millisecond data access using your favorite API including: SQL, MongoDB, Cassandra, Tables, or Gremlin. Cosmos DB provides comprehensive service level agreements (SLAs) for throughput, latency, availability, and consistency guarantees, something no other database service offers. <https://docs.microsoft.com/en-us/azure/cosmos-db/introduction>

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**Q38)**

**A company is planning on deploying Azure resources to a resource group. But the resources would belong to different locations.**

**Can you have resources that belong to the same resource group but be in multiple locations?**

- No
- Yes

**Explanation:-**For more information on Azure Resource Manager, please visit the below URL <https://docs.microsoft.com/en-us/azure/azure-resource-manager/resource-group-overview>

**Q39)**

**A company wants to have an Enterprise messaging solution integrated with their existing application hosted in Azure.**

**Which of the following would be the ideal service to use for this requirement?**

- Data Factory

**Explanation:-**This option is incorrect since this is used as an ETL service on the cloud

- Service Bus

**Explanation:-**This service is mentioned in the Microsoft documentation. For more information on the Azure service Bus, please visit the below URL  
<https://docs.microsoft.com/en-us/azure/service-bus-messaging/service-bus-messaging-overview>

- API management

**Explanation:-**This option is incorrect since this is used for managing API's

- Logic App

**Explanation:-**This option is incorrect since this is used as a workflow service

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**Q40)**

**A company wants to host their applications on Azure using serverless components. They don't want to manage the underlying infrastructure for the application.**

**Which of the following could be used to host code that could be run on a serverless infrastructure?**

- Azure Storage

**Explanation:-**This option is incorrect because this is used as a storage service in Azure

- Azure Service Bus

**Explanation:-**This option is incorrect because this is used as a messaging service in Azure

- Azure Function App

**Explanation:-**This is mentioned in Microsoft Documentation. For more information on Azure Functions, please visit the below URL  
<https://docs.microsoft.com/en-us/azure/azure-functions/functions-overview>

- Azure Logic Apps

**Explanation:-**This option is incorrect because this is designed to implement workflows in Azure

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**Q41)**

**A company wants to host their applications on Azure using serverless components. They don't want to manage the underlying infrastructure for the application.**

**Which of the following could be used to implement a workflow that could be run on a serverless infrastructure?**

- Azure Storage

**Explanation:-**This option is incorrect because this is used as a storage service in Azure

- Azure Function App

**Explanation:-**This option is incorrect because this is used to host functions in Azure

- Azure Service Bus

**Explanation:-**This option is incorrect because this is used as a messaging service in Azure

- Azure Logic Apps

**Explanation:-**This is mentioned in the Microsoft documentation. For more information on Azure Logic Apps, please visit the below URL  
<https://docs.microsoft.com/en-us/azure/logic-apps/logic-apps-overview>

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**Q42) Which of the following is correct when it comes to SaaS (Software as a service)?**

- You are responsible for high availability of the solution

- You are responsible for configuring the solution

**Explanation:-**This is mentioned in the Microsoft Documentation. Here you don't need to worry about the solution itself, the scalability or availability. You just managed the configuration. Hence all of the other options are incorrect based on the concept of a SaaS solution. For more information on SaaS, please visit the below URL <https://azure.microsoft.com/en-us/overview/what-is-saas/>

- You are responsible for deploying the solution

- You are responsible for scalability of the solution
- 

**Q43)**

**A company is planning on creating several SQL Databases in 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 to?**

- Function as a Service(FaaS)

- Software as a service(SaaS)

- Platform as a service (PaaS)

**Explanation:-**This is given in the Microsoft documentation. For more information on Azure SQL Databases, please visit the below URL  
<https://docs.microsoft.com/en-us/azure/sql-database/sql-database-paas-vs-sql-server-iaas>

- Infrastructure as a service (IaaS)
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**Q44) A company is planning on using Azure Cloud for hosting resources.Which of the following is a key advantage of hosting resources in the Azure public cloud?**

- You pay a capital upfront cost when using resources in the public cloud

- Only privileged users can have access to resources in your Azure account

- Different departments in your organization can have a segmentation of resources defined in Azure

**Explanation:-**There are so many benefits of using a public cloud infrastructure. One advantage is that you can use various segregation techniques available to ensure that the resources in Azure can be split department wise. You can create Virtual Networks in Azure which is an isolation of the network on the cloud You can use resource groups to categorize your resources as shown below. For more information on what is Azure, please visit the below URL <https://azure.microsoft.com/en-us/overview/what-is-azure/>

- All users across the world can access the resources in your Azure account
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#### Q45)

**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 reaches 80%.**

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

- Elasticity

**Explanation:-**Here the concept refers to Elasticity. In this use case, you could define a Virtual Machine Scale set in Azure. You could define an initial set of Virtual Machines as part of the scale set that would run for the first 3 weeks. You can then add a scaling policy to add more Virtual Machines to support the application during the last week. You can then add a scaling policy to remove the extra Virtual Machines at the end of last week to save on costs. 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  
 Disaster Recovery  
 Fault Tolerance
- 

**Q46) A company is planning on using the Azure Content Delivery Service. Which of the following is the right category to which the Azure Content Delivery service belongs to?**

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

**Explanation:-**The Platform for hosting Azure CDN is managed completely by Azure. Below is the description of the service from the Microsoft documentation. Since this is the right category for the service, all other options are incorrect. For more information on the Azure CDN service, please visit the below URL <https://docs.microsoft.com/en-us/azure/cdn/cdn-overview>

- Infrastructure as a service (IaaS)
- 

**Q47) 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?**

- The Private Cloud Environment can be rolled out to select users

**Explanation:-**The Microsoft documentation mentions this. Since this is clearly mentioned, all other options are incorrect. For more information on the private cloud network, please visit the below URL <https://azure.microsoft.com/en-us/overview/what-is-a-private-cloud/>

- A Private Cloud environment can only support an infrastructure as a service model  
 A Private Cloud environment can only support a Platform as a service model  
 The Private Cloud environment can be rolled out to the general public
- 

#### Q48)

**An IT Engineer needs to create a Virtual Machine in Azure. Currently the IT Engineer has a Windows desktop and has installed the Azure Command Line interface.**

**From which of the following could the IT engineer use the Azure Command Line Interface? Choose 2 answers from the options given below**

- Google Chrome  
**Explanation:-**you can't launch Azure Command Line

- Command Prompt

**Explanation:-**Or you could also launch it from powershell as shown below

- File and Print Explorer

**Explanation:-**you can't launch Azure Command Line

- Powershell

**Explanation:-**You can launch the Azure command Line tool from command prompt as shown

---

#### Q49)

**A company is planning on setting up a solution in 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 Load Balancer

**Explanation:-**The Microsoft documentation mentions the following. Since this is a clear feature on the tool, all other options are incorrect. For more

information on Azure Load Balancer, please visit the below URL <https://docs.microsoft.com/en-us/azure/load-balancer/load-balancer-overview>

- Azure SQL Datawarehouse
  - Azure Content Delivery Network
  - Azure HD Insight
- 

**Q50)**

**A company is planning on setting up a solution in 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:-**The Microsoft documentation mentions the following. Since this is a clear feature on the tool, all other options are incorrect For more information on Azure HDInsight, please visit the below URL <https://docs.microsoft.com/en-us/azure/hdinsight/>

- Azure Content Delivery Network
- 

**Q51) A company wants to start using Azure. They want to make use of availability zones in Azure. Which of the following is attached to the concept of availability zones in Azure?**

- Azure failure
- Data Center failure

**Explanation:-**The Microsoft documentation mentions the following. Since this is clearly mentioned in the Microsoft documentation, all other options are incorrect For more information on availability zones, please visit the below URL <https://docs.microsoft.com/en-us/azure/availability-zones/az-overview>

- Resource failure
  - Region failure
- 

**Q52) You are required to evaluate the below text in the bracket and state whether it is correct or not.**

**An organization that hosts its infrastructure (in a private cloud) can decommission its data center.**

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

- In the public cloud

**Explanation:-**After a workload is promoted to production, the assets that previously hosted the production workload are no longer required to support business operations. At that point, the older assets are considered retired. Retired assets can then be decommissioned, reducing operational costs. Decommissioning a resource can be as simple as turning off the power to the asset and disposing of the asset responsibly. Unfortunately, decommissioning resources can sometimes have undesired consequences. The following guidance can aid in properly decommissioning retired resources, with minimal business interruptions. Reference: <https://docs.microsoft.com/en-us/azure/architecture/cloud-adoption/migrate/migration-considerations/optimize/decommission>

- In a hybrid cloud
  - No change is needed.
  - On a Hyper-V host
- 

**Q53) What are two characteristics of the public cloud?**

- Self-service management

**Explanation:-**Advantages of public clouds: 1. Lower costs—no need to purchase hardware or software, and you pay only for the service you use. 2. No maintenance—your service provider provides the maintenance. 3. Near-unlimited scalability—on-demand resources are available to meet your business needs. 4. High reliability—a vast network of servers ensures against failure. Refer: <https://azure.microsoft.com/en-us/overview/what-are-private-public-hybrid-clouds/>

- Metered pricing
  - Limited storage
  - Unsecured connections
  - Dedicated hardware
- 

**Q54) You are required to evaluate the below text in the bracket and state whether it is correct or not.**

**When planning to migrate a public website to Azure, you must (plan to pay monthly usage costs).**

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

- Deploy a VPN
- Pay to transfer all the website data to Azure
- No change is needed

**Explanation:-**The answer is correct, no change is needed. Since the inbound traffic to Azure is free, you don't pay for the transfer. Azure you only pay for outbound traffic which is charged in GB as you are entitled to 5GB in a month but afterwards you pay for data being transferred out. However, with inbound data traffic into your environment, this is free. Reference: <https://azure.microsoft.com/en-us/pricing/>

- Reduce the number of connections to the website
- 

**Q55)**

**Your company plans to migrate all its data and resources to Azure.**

**The company's migration plan states that only platform as a service (PaaS) solutions must be used in Azure. You need to deploy an Azure environment that supports the planned migration.**

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

**Does this meet the goal?**

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

- Incorrect

---

**Q56) A company wants to start using Azure. They want to make use of availability zones in Azure. If they deploy resources across all regions in Azure, can they make use of availability zones in all regions in Azure?**

- No

**Explanation:**-Currently availability zones are not available in all regions. You need to check first on the availability of zones in a region. Below is the snapshot from the Microsoft documentation. For more information on availability zones, please visit the below URL <https://docs.microsoft.com/en-us/azure/availability-zones/az-overview>

- Yes

---

**Q57) 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 ?**

- Virtual Network Gateway

**Explanation:**-The Microsoft documentation mentions this. For more information on the Virtual Private gateway, please visit the below URL <https://docs.microsoft.com/en-us/azure/vpn-gateway/vpn-gateway-about-vpngateways>

- Application Gateway

**Explanation:**-This option is incorrect since this is used to divert traffic to backend Virtual Machines

- Load Balancer

**Explanation:**-This option is incorrect since this is used to divert traffic to backend Virtual Machines

- Virtual Network

**Explanation:**-This option is incorrect since this is used to create a network in Azure

---

**Q58)**

**Your company plans to deploy an Artificial Intelligence (AI) solution in Azure.**

**What should the company use to build, test, and deploy predictive analytics solutions?**

- Azure Machine Learning Studio

**Explanation:**-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

- Azure Batch

- Azure Cosmos DB

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**Q59)**

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

**(Azure policies) provide a common platform for deploying objects to a cloud infrastructure and for implementing consistency across the Azure environment.**

**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 Resource Manager provides

**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 subscription. You use management features, like access control, locks, and tags, to secure and organize your resources after deployment. When a user sends a request from any of the Azure tools, APIs, or SDKs, Resource Manager receives the request. It authenticates and authorizes the request. Resource Manager sends the request to the Azure service, which takes the requested action. Because all requests are handled through the same API, you see consistent results and capabilities in all the different tools. Reference: <https://docs.microsoft.com/en-us/azure/azure-resource-manager/resource-group-overview>

- Resource groups provide

- No change is needed

- Management groups provide

**Q60**

**Your company has several business units.**

**Each business unit requires 20 different Azure resources for daily operation. All the business units require the same type of Azure resources.**

**You need to recommend a solution to automate the creation of the Azure resources.**

**What should you include in the recommendations?**

- virtual machine scale sets
- Azure Resource Manager templates

**Explanation:-**Azure Resource Manager Template defines the resources you need to deploy for your solution. First of all, you must know that an Azure Resource Manager Template is a just a simple JSON file. JSON is an open-standard file format derived from JavaScript. Note that a JSON file is a collection of name/value pairs. Reference: <https://azure.microsoft.com/en-us/resources/templates/>

- the Azure API Management service
- management groups

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**Q61)**

**Your company is planning on using the Azure App Service (PaaS) to host their set of web applications.**

**Does Azure provide the ability to scale the platform automatically?**

- No
- Yes

**Explanation:-**Scale apps on an enterprise grade platform 1. Achieve high availability with SLA-backed uptime of 99.95 percent. 2. Simplify operations with automatic platform maintenance and security patching. 3. Protect your applications with Web App Firewall and connect with virtual network integration. 4. Deploy isolated web app instances with a single-tenancy model. 5. Use Azure Active Directory and other popular identity providers to authenticate and authorize app access. 6. Scale globally across all Azure regions. Reference: <https://azure.microsoft.com/en-us/services/app-service/> Azure Web Apps have a lot of ways to scale their infrastructure based on the demand and load on the web app itself. The Microsoft documentation shows ways in which you can scale up and scale out. For more information on web app scaling, please visit the below URL <https://docs.microsoft.com/en-us/azure/app-service/web-sites-scale>

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**Q62)**

**A company need the list of planned maintenance events that can affect the availability of an Azure subscription.**

**Which of the following would help them achieve this requirement?**

- Help + Support

**Explanation:-**If you go to Help + Support and then go to Service Health, then you can view if there are any issues to the underlying Azure Infrastructure. The other services will not give you this view. For more information on Azure service health, please visit the below URL <https://azure.microsoft.com/en-us/features/service-health/>

- Virtual Machines
- Resource Groups
- App Services

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**Q63)**

**A company wants to deploy an Artificial Intelligence solution in Azure. The development team wants to have a tool in place that can be used to build, test, and deploy predictive analytics solutions.**

**Which of the following should they use for this purpose?**

- Azure App service

**Explanation:-**This option is incorrect since this is used to host Apps in Azure such as Web based applications

- Azure Batch

**Explanation:-**This option is incorrect since this is used for batch processing applications

- Azure Machine Learning Studio

**Explanation:-**This is clearly mentioned in Microsoft Documentation. For more information on Azure Machine Learning Studio, please visit the below URL <https://docs.microsoft.com/en-us/azure/machine-learning/studio/what-is-ml-studio>

- Azure Logic Apps

**Explanation:-**This option is incorrect since this is used to define workflows in Azure

---

**Q64)**

**A company has a set of IT engineers that are responsible for implementing and managing the resources in their Azure account. The IT engineers have a set of on-premise workstations that have the following flavours of operating systems:**

- Windows 10
- MacOS
- Ubuntu

**Which of the following tools can you use on the Windows 10 machines?**

- The Azure CLI, Azure Powershell and Azure Portal

**Explanation:-**The Azure portal can be viewed on any browser and hence can be viewed on almost all operating systems. The Azure CLI is available on all platforms. Azure Powershell is available on all platforms. For more information on Azure CLI and Azure powershell, please visit the below URL <https://docs.microsoft.com/en-us/cli/azure/install-azure-cli?view=azure-cli-latest> <https://docs.microsoft.com/en-us/powershell/azure/install-az-ps?view=azps-1.2.0>

- The Azure Portal and Powershell only
  - The Azure CLI and Powershell only
  - The Azure CLI and Azure Portal only
- 

#### **Q65)**

**A company has a set of IT engineers that are responsible for implementing and managing the resources in their Azure account. The IT engineers have a set of on-premise workstations that have the following favours of operating systems:**

- Windows 10
- MacOS
- Ubuntu

**Which of the following tools can you use on the MacOS machines?**

- The Azure Portal and Powershell only
- The Azure CLI, Azure Powershell and Azure Portal

**Explanation:-**The Azure portal can be viewed on any browser and hence can be viewed on almost all operating systems. The Azure CLI is available on all platforms. Azure Powershell is available on all platforms. For more information on Azure CLI and Azure powershell, please visit the below URL <https://docs.microsoft.com/en-us/cli/azure/install-azure-cli?view=azure-cli-latest> <https://docs.microsoft.com/en-us/powershell/azure/install-az-ps?view=azps-1.2.0>

- The Azure CLI and Powershell only
  - The Azure CLI and Azure Portal only
- 

#### **Q66)**

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

- Provides a platform for creating workflows

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

- Azure Application Insights
- Azure App Service
- Azure Logic Apps

**Explanation:-**This is mentioned in Microsoft Documentation. Since this is a clear feature on the tool, all other options are incorrect For more information on Azure Logic Apps, please visit the below URL <https://docs.microsoft.com/en-us/azure/logic-apps/logic-apps-overview>

- Azure Databricks
- 

#### **Q67)**

**A company is planning on setting up a Pay-as-you-go subscription in Azure.**

**Would they have access to MSDN support forums?**

- Yes

**Explanation:-**MSDN is a free support plan and has no linkage with the subscription. For more information on MSDN forums, please visit the below URL <https://social.msdn.microsoft.com/forums/en-us/home>

- No
- 

**Q68) A company is planning on migrating their public web site to Azure. Which of the following do they need to consider when it comes to hosting their public web site on Azure?**

- They would need to pay for the user data transfer onto the site

**Explanation:-**This option is incorrect since you don't need to pay for the data transfer

- They would have to consider paying a monthly cost for the solution

**Explanation:-**If you need to host a web application in Azure, there are a couple of options. But for each option, you have to pay a monthly fee. An example is the pricing model available for Azure Web apps. If you are planning on deploying a public web site, then you would need to consider using a Basic App service plan or higher.

- They would need to reduce the number of connections to the web site

**Explanation:-**This option is incorrect because Azure can support a high number of connections

- They would need to deploy a Virtual Private connection from their on-premise site to Azure

**Explanation:-**This option is incorrect since only if you need to connect your web application to a resource in your on-premise data center then maybe you need to consider this.

---

#### **Q69)**

**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 Basic Support plan.**

**Would this recommendation fulfill the requirement?**

- No

**Explanation:-**As per the Basic Support plan as shown below, this plan has no access to support engineers. For more information on the support plans, please visit the below URL <https://azure.microsoft.com/en-us/support/plans/>

- Yes
- 

#### **Q70)**

**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 Standard Support plan.**

**Would this recommendation fulfill the requirement?**

- No
- Yes

**Explanation:-**Yes, as per the documentation, the plan does have access to support engineers via phone and email. For more information on the support plans, please visit the below URL <https://azure.microsoft.com/en-us/support/plans/>

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**Q71) 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.

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**Q72) Correct or Incorrect: Microsoft Azure operated by 21Vianet (Azure China) is a physically separated instance of cloud services located in China.**

- Incorrect
- Correct

**Explanation:-**Microsoft Azure operated by 21Vianet (Azure China) is a physically separated instance of cloud services located in China. It is independently operated and transacted by Shanghai Blue Cloud Technology Co., Ltd., a wholly owned subsidiary of Beijing 21Vianet Broadband Data Center Co., Ltd.

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**Q73) 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.

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**Q74) 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

---

**Q75)**

**A company wants to host a set of tables in Azure. They want absolutely zero administration of the underlying infrastructure and low latency access to data. You recommend using the CosmosDB service**

**Would this suit the requirement?**

- No
- Yes

**Explanation:-**This service is a fully managed service and also provides low latency access to data. It also has a table API to work with Table like data. For more information on the Azure CosmosDB service – Table API, please visit the below URL <https://docs.microsoft.com/en-us/azure/cosmos-db/>

**Q76)****A company is planning on using Azure SQL Datawarehouse for hosting their sales historical data.****Which of the following is a feature of the Azure SQL Datawarehouse architecture?**

- Visualization
- Disaster Recovery
- Scalability

**Explanation:-**The Microsoft documentation mentions the following on the scalability of the compute architecture of the Azure SQL Datawarehouse architecture. The other options are incorrect because this is something that you have to ensure with the capabilities available in Azure. Also since you need to use other tools for handling the visualization of data in a SQL Datawarehouse

- High Availability

**Q77)****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 Azure Storage fulfill these requirements?**

- No
- Yes

**Explanation:-**If you look at the Microsoft documentation, Azure storage has a high limit on the amount that can be stored and no limit on the number of files. For more information on Azure storage capabilities, please visit the below URL <https://docs.microsoft.com/en-us/azure/storage/common/storage-scalability-targets>

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

- Replication of data to another region

**Does the Azure storage account automatically replicate data to another region?**

- No

**Explanation:-**The Azure storage account cannot automatically /or by default replicate data to another region. Zone-redundant storage (ZRS) copies your data synchronously across three Azure availability zones in the primary region. For applications requiring high availability, Microsoft recommends using ZRS in the primary region, and also replicating to a secondary region.

- Yes

**Explanation:-**This option is not correct. Since the default and the only replication type available for Storage accounts is LRS or Locally Redundant Storage. If you have a storage account and the replication scheme hasn't been changed yet, then you have LRS as your scheme. It ensures that the data is only replicated within the data center.

**Q79)****Your company plans to migrate all its data and resources to Azure.**

**The company's migration plan states that only platform as a service (PaaS) solutions must be used in Azure.  
You need to deploy an Azure environment that supports the planned migration.**

**Solution: You create an Azure App Service and Azure virtual machines that have Microsoft SQL Server installed.****Does this meet the goal?**

- Correct
- Incorrect

**Explanation:-**Virtual Machine is IaaS not PaaS. So the answer is incorrect. The company's migration plan states that only platform as a service (PaaS) solutions must be used in Azure.

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

Solution: You create an Azure App Service and Azure virtual machines that have Microsoft SQL Server installed. Refer:  
<https://azure.microsoft.com/en-us/overview/what-is-paas/>

**Q80) You have an on-premises network that contains 100 servers.**

**You need to recommend a solution that provides additional resources to your users. The solution must minimize capital and operational expenditure costs.**

**What should you include in the recommendation?**

- A complete migration to the public cloud
- An additional data center
- A private cloud

**Explanation:-**

Building a new private cloud, is so costly, as it is not just servers with a lot of extra hypervisors, controllers etc, with the operation and Capex costs.

- A hybrid cloud

**Explanation:-**

Firstly, the question is not asking to get rid of the already existing on-premise server. Secondly, we have been asked to optimize the service as well as cutting the cost. Therefore, using a bit of the cloud (cheaper) in addition to the physical servers we have. which is a Hybrid approach.

This is to say additional resources on top of existing infrastructure is Hybrid Cloud (Hybrid means, use your existing infrastructure and borrow additional resources from another cloud provider (public cloud).

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**Q81)**

**You plan to migrate several servers from an on-premises network to Azure.**

**You need to identify the primary benefit of using a public cloud service for the servers.**

**What should you identify?**

- The public cloud is a shared entity whereby multiple corporations each use a portion of the resources in the cloud

**Explanation:-**This option is correct because, "servers" are essentially compute, and compute is one such component which has to follow "shared responsibility model" under IaaS. Refer: <https://azure.microsoft.com/en-us/overview/what-is-a-public-cloud/>

- All public cloud resources can be freely accessed by every member of the public
- The public cloud is a crowd-sourcing solution that provides corporations with the ability to enhance the cloud
- The public cloud is owned by the public, NOT a private corporation

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**Q82)**

**You plan to deploy several Azure virtual machines.**

**You need to ensure that the services running on the virtual machines are available if a single data center fails.**

**Solution: You deploy the virtual machines to two or more scale sets.**

**Does this meet the goal?**

- Correct
- Incorrect

**Explanation:-**An availability set is a logical grouping of two or more VMs (on different racks inside the same Datacenter) that help keep your application available during planned or unplanned maintenance. ". However, they wouldn't be helpful neither in this scenario, you would need to deploy the VMs in 2 different AZs. An availability set is a logical grouping of VMs within a datacenter. You will have to use availability zones.

Reference: <https://docs.microsoft.com/en-us/azure/virtual-machine-scale-sets/virtual-machine-scale-sets-use-availability-zones> "To protect your virtual machine scale sets from datacenter-level failures, you can create a scale set across Availability Zones".

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**Q83)**

**You plan to deploy several Azure virtual machines.**

**You need to ensure that the services running on the virtual machines are available if a single data center fails.**

**Solution: You deploy the virtual machines to two or more availability zones.**

**Does this meet the goal?**

- Correct

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

Reference: <https://docs.microsoft.com/en-us/azure/site-recovery/move-azure-vms-avset-azone?toc=/azure/virtual-machines/windows/toc.json&bc=/azure/virtual-machines/windows/breadcrumb/toc.json>

- Incorrect

---

**Q84)**

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

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

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

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

**Explanation:-**This is clearly mentioned in Microsoft Documentation. Since this is a clear feature on the tool, all other options are incorrect For more information on Azure Virtual Machine Scale sets, please visit the below URL <https://docs.microsoft.com/en-us/azure/virtual-machine-scale-sets/overview>

- Azure Data Lake Analytics

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**Q85)**

**You plan to deploy several Azure virtual machines.**

**You need to ensure that the services running on the virtual machines are available if a single data center fails.**

**Solution: You deploy the virtual machines to two or more regions.**

## Does this meet the goal?

Incorrect

**Explanation:-**The solution is not correct because as per Microsoft "Use availability zones to protect from datacenter level failures" and not regions. The question here is specifically related to data center failure. Moreover, MS guarantees that VM's deployed in AZ's in the same regions are in different fault domains (trivial) AND in different update domains (Essential!). VM's deployed in different regions are in different fault domains (also trivial), but might be placed in the same update domain. So a necessary reboot might result in both VM's being unavailable. This will never happen if you place the VM's in 2 AZ's in the same region. Reference: <https://docs.microsoft.com/en-us/azure/virtual-machines/windows/regions-and-availability>

Correct

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## Q86)

**You have 1,000 virtual machines hosted on the Hyper-V hosts in a data center.**

**You plan to migrate all the virtual machines to an Azure pay-as-you-go subscription.**

**You need to identify which expenditure model to use for the planned Azure solution.**

**Which expenditure model should you identify?**

Operational

**Explanation:-**The expenditure models are either CapEx or OpEx (Capital or Operational). CapEx is what you pay upfront, on prem, for servers, racks, cooling, security, the Datacenter itself. OpEx is what you pay to keep your infrastructure operational, like IT staff. In this case, when you move to the Cloud, what you identify in this case is the OpEx or Operational model. This is because you actually don't have CapEx on the Cloud (or at least you look to minimize CapEx) as you pay for the resources you use and not for the underlying hardware, security, cooling, etc that you will pay for in an On-Prem solution. That is why the right answer is (A) Operational. Elastic and Scalable are not expenditure models. Reference: <https://docs.microsoft.com/en-us/azure/architecture/cloud-adoption/appendix/azure-scaffold>

Elastic  
 Capital  
 Scalable

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## Q87)

**A company is planning on deploying resources to Azure.**

**Which of the following in Azure provides a common platform for deploying objects to the Azure Cloud Infrastructure and also allows implementing consistency across the environment?**

Azure Resource Manager

**Explanation:-**For more information on Azure Resource Manager, please visit the below URL <https://docs.microsoft.com/en-us/azure/azure-resource-manager/resource-group-overview>

Azure Management Groups

**Explanation:-**This option is incorrect since this allows you to efficiently manage access, policies, and compliance for those subscriptions

Azure Policies

**Explanation:-**This option is incorrect since this allows you to govern Azure resources

Azure Resource Groups

**Explanation:-**This option is incorrect since this provides a means to categorize resources deployed to Azure. It's not a platform

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## Q88)

**A company is planning on setting up a solution in Azure. The solution would have the following key requirement**

**Provide a digital online assistant that provides speech support**

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

Azure IoT Hub

Azure AI Bot

**Explanation:-**The Microsoft documentation mentions the following. Since this is a clear feature on the tool, all other options are incorrect For more information on Azure AI Bot, please visit the below URL <https://docs.microsoft.com/en-us/azure/bot-service/bot-service-overview-introduction?view=azure-bot-service-4.0>

Azure Machine Learning

Azure Functions

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## Q89)

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

**- Uses past trainings to provide predictions that have high probability**

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

Azure Functions

Azure AI Bot

Azure IoT Hub

Azure Machine Learning

**Explanation:-**Since this is a clear feature on the tool, all other options are incorrect For more information on Azure Machine Learning service, please visit the below URL <https://docs.microsoft.com/en-us/azure/machine-learning/service/overview-what-is-azure-ml>

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## Q90)

**A company is planning on setting up a solution in 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:-**The Microsoft documentation mentions the following. Since this is a clear feature on the tool, all other options are incorrect For more information on Azure Functions, please visit the below URL <https://docs.microsoft.com/en-us/azure/azure-functions/functions-overview>

- Azure Machine Learning

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**Q91)**

**A company has a number of resources hosted in Azure. They want to push all the events from the various resources into a centralized repository so that the events could be correlated later on.**

**Which Azure service should you use to correlate events from multiple resources into a centralized repository in this case?**

- Azure Log Analytics

**Explanation:-**Azure Log Analytics Collect, analyze, and act on telemetry data from your Azure and on-premises environments. Azure Monitor helps you maximize performance and availability of your applications and proactively identify problems in seconds. Also it Store and analyze all your operational telemetry in a centralized, fully managed, scalable data store that's optimized for performance and cost. Reference: <https://docs.microsoft.com/en-us/azure/azure-monitor/overview> and <https://azure.microsoft.com/en-us/services/monitor/#product-overview>

- Azure Advisor

**Explanation:-**This option is incorrect since this is used as a recommendation's engine

- Azure Analysis Services

**Explanation:-**This option is incorrect since this is a fully managed platform as a service (PaaS) that provides enterprise-grade data models in the cloud.

- Azure Event Hubs

**Explanation:-**This option is incorrect since this service is a big data streaming platform and event ingestion service

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**Q92)**

**A company is planning on setting up a solution in Azure. The solution would have the following key requirement**

**Provide a data store that can be used to store and perform analytics on petabytes of data**

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

- Azure Load Balancer
- Azure SQL Datawarehouse

**Explanation:-**The Microsoft documentation mentions the following. Since this is a clear feature on the tool, all other options are incorrect For more information on Azure SQL Datawarehouse, please visit the below URL <https://docs.microsoft.com/en-us/azure/sql-data-warehouse/sql-data-warehouse-overview-what-is>

- Azure HD Insight

- Azure Content Delivery Network

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**Q93)**

**A company is planning on setting up a solution in 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 HD Insight
- Azure Content Delivery Network

**Explanation:-**The Microsoft documentation mentions the following. Since this is a clear feature on the tool, all other options are incorrect For more information on Azure Content Delivery, please visit the below URL <https://docs.microsoft.com/en-us/azure/cdn/cdn-overview>

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**Q94) What are the two advantages of Elastic Computing?**

- You can serve users better during peak traffic periods by automatically adding more capacity.

**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. Reference: <https://azure.microsoft.com/en-us/overview/what-is-elastic-computing/>

- You can save money.

- Servers have become a commodity and Microsoft doesn't even need to even fix servers that fail within Azure.

- You can do more regular backups and you won't lose as much when that backup gets restored

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**Q95) What is the name of the collective set of APIs that provide machine learning and artificial intelligence services to your**

own applications like voice recognition, image tagging, and chat bot?

- Azure Batch
- Cognitive Services

**Explanation:**-Cognitive Services bring AI within reach of every developer—without requiring machine-learning expertise. All it takes is an API call to embed the ability to see, hear, speak, search, understand, and accelerate decision-making into your apps. Reference:  
<https://azure.microsoft.com/en-us/services/cognitive-services/>

- Azure Machine Learning Studio
- Natural Language Service, LUIS

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**Q96) If you wanted to deploy a virtual machine to China, you would just choose the China region from the drop down.**

- Correct
- Incorrect

**Explanation:**-Reference: <https://docs.microsoft.com/en-us/azure/china/resources-faq>

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**Q97) Which Azure service can be enabled to enable Multi-Factor Authentication for administrators but not require it for regular users?**

- Azure Firewall
- Privileged Identity Management

**Explanation:**-Privileged Identity Management provides time-based and approval-based role activation to mitigate the risks of excessive, unnecessary, or misused access permissions on resources that you care about. Here are some of the key features of Privileged Identity Management: Provide just-in-time privileged access to Azure AD and Azure resources Assign time-bound access to resources using start and end dates 1. Require approval to activate privileged roles 2. Enforce multi-factor authentication to activate any role 3. Use justification to understand why users activate 4. Get notifications when privileged roles are activated 5. Conduct access reviews to ensure users still need roles 6. Download audit history for internal or external audit Reference: <https://docs.microsoft.com/en-us/azure/active-directory/privileged-identity-management/pim-configure>

- Advanced Threat Protection
- Azure AD B2B

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**Q98) Which of the following services would NOT be considered Infrastructure as a Service?**

- Azure Functions App

**Explanation:**-Azure Functions allows you to run small pieces of code (called "functions") without worrying about application infrastructure. With Azure Functions, the cloud infrastructure provides all the up-to-date servers you need to keep your application running at scale. Reference:  
<https://docs.microsoft.com/en-us/azure/azure-functions/functions-overview>

- Virtual Network
- Virtual Network Interface Card (NIC)
- Virtual Machine

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**Q99) What is the name of the open source project run by the Apache foundation that maps to the HDInsight tools within Azure?**

- Apache Jazz
- Apache Hadoop

**Explanation:**-HDInsight supports the latest open source projects from the Apache Hadoop and Spark ecosystems. HDInsight is one popular open source frameworks—including Apache Hadoop, Spark, and Kafka—using Azure HDInsight, a cost-effective, enterprise-grade service for open source analytics. Effortlessly process massive amounts of data and get all the benefits of the broad open source ecosystem with the global scale of Azure. Reference: <https://azure.microsoft.com/en-us/services/hdinsight/>

- Apache Jaguar
- Apache Cayenne