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1. Why Did You Choose a Career in Cloud Computing?

An in-depth, truthful response is required for these Azure interview questions. You may ensure that your response will be accepted by your interviewer by planning it out in advance. Demonstrate your interest in the subject and passion for cloud computing and the issues it can help to resolve.

2. Why Did You Choose Microsoft Azure and Not Aws?

Your answer to this query will be influenced by your personal history and experiences. Perhaps you have a background in programming, which is why Azure appealed to you. Perhaps Azure just so happened to be the first company you worked for in the cloud. The same as with the last question, it's important to be prepared to respond to this one with a thoughtful response.

3. How Does Microsoft Azure Compare to Aws?

You may have an opinion on this, so respond however you feel fit. People generally agree that Azure is a better option because it's a Microsoft product, making the transition to the cloud for businesses currently utilising Windows Server, SQL Server, and Exchange easier. Additionally, Azure offers numerous alternatives for app deployment for developers, setting it apart from AWS because to Microsoft's extensive expertise of developer tools.

4. How Did You Learn Azure?

Did you obtain a certification to learn Azure? via means of work experience? Some of each? If you're new to the profession or however you learnt it, be sure to show the interviewer that you have real-world experience and that you are still learning.

5. Tell Me About a Problem You Solved at Your Prior Job.

Spend some time on this when you're getting ready to respond to potential Azure interview questions. As a cloud architect, you must demonstrate that you have strong listening and problem-solving skills in addition to excellent communication skills. Yes, you must be familiar with the technology, but cloud computing rarely involves solitary work in a cubicle. You'll have stakeholders to hear from, issues to resolve, and proposals to make. Try to demonstrate that you are a team player, effective at communicating, and an excellent Azure architect when responding to questions like these.

6. What are the instance types offered by Azure?

Based on the requirements each instance type serves, Azure offers a variety of them.

❖ General Purpose - Balanced CPU to RAM ratio. provides small to medium databases, low to medium traffic web servers, and is excellent for testing and development.

Standard D64 v3 has the largest instance size.

1600 GB SSD for temporary storage and 256 GB of RAM

❖ High CPU to memory ratio with compute optimization. Web servers, application servers, batch operations, and network appliances with medium traffic should use it the best

Standard F72s V2 has the largest instance size.

Memory of 144 GB and temporary storage of 576 GB

❖ High memory to CPU ratio; memory-optimized. Ideal for medium-sized to big caches, in-memory analytics, and relational database servers

Size of the largest instance: Standard M128m

14,336 GB of SSD temporary storage and 3892 GB of memory

❖ High disc IO and throughput are made possible via storage optimization. Fits Big Data, NoSQL, and SQL Databases the best

Standard L32s is the biggest instance size.

5630 GB SSD Temporary Storage with 256 GB of Memory

❖ Virtual machines known as GPUs are used for editing and rendering complex graphics. Additionally, deep learning facilitates model training and inferencing.

Standard ND24rs is the largest instance size.

2948 GB of SSD temporary storage and 448 GB of memory

96 GB of memory and 4 GPUs

❖ High-Performance Compute offers the fastest and most potent CPU virtual machines available on Azure, together with an optional high throughput connectivity.

Standard L32s is the biggest instance size.

2000 GB SSD Temporary Storage with 224 GB of Memory

7. What are the deployment environments offered by Azure?

You must be able to respond to one of the most typical Azure interview questions. Azure offers two settings for deployment:

Staging Environment:

❖ Before modifications to your application may be brought live in the production environment, it provides a platform for validating those changes.

❖ The Globally Unique Identifier (GUID) for Azure in URL form can be used to identify the app at this point (GUID.cloudapp.net)

Production Environment:

❖ The live application is stored in this environment.

❖ With a more DNS-friendly URL, it may be distinguished from the staging environment (servicename.cloudapp.net)

❖ Are you thinking about becoming a cloud architect? Join our Cloud Architect Master's Program to gain in-depth knowledge of AWS, Microsoft Azure, and Google Cloud Platform.

8. Which one amongst Microsoft Azure ML Studio and GCP Cloud AutoML is better?

Given that it contains Classification, Regression, Anomaly Detection, Clustering, Recommendation, and Ranking functions, Azure ML Studio prevails when we compare the two services.

On the other hand, Clustering, Regression, and Recommendation functionalities are available in GCP Cloud AutoML. Additionally, Azure offers drag and drop options that streamline the procedure.

CLOUD MACHINE LEARNING SERVICES COMPARISON

	Amazon	Microsoft	Google	IBM
Automated and semi-automated ML services				
	Amazon ML	Microsoft Azure ML Studio	Cloud AutoML	IBM Watson ML Model Builder
Classification	✓	✓	✓	✓
Regression	✓	✓	✓	✓
Clustering	✓	✓	✗	✗
Anomaly detection	✗	✓	✗	✗
Recommendation	✗	✓	✓	✗
Ranking	✗	✓	✗	✗
Platforms for custom modeling				
	Amazon SageMaker	Azure ML Services	Google ML Engine	IBM Watson ML Studio
Built-in algorithms	✓	✗	✓	✓
Supported frameworks	TensorFlow, MXNet, Keras, Gluon. Pytorch, Caffe2, Chainer, Torch	TensorFlow, scikit-learn, Microsoft Cognitive Toolkit, Spark ML	TensorFlow, scikit-learn, XGBoost, Keras	TensorFlow, Spark MLlib, scikit-learn, XGBoost, PyTorch, IBM SPSS, PMML

9. What are the advantages of Scaling in Azure?

Autoscaling, a function of Azure, is used to carry out scaling.

With the aid of autoscaling, it is possible to adapt to changing demands for websites, virtual machines, mobile services, and cloud services. Some of its benefits are listed below:

- ❖ Maximizes application performance

- ❖ Scale up or down based on demand

- ❖ Schedule scaling to particular time periods

- ❖ Highly cost-effective

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10. How is Windows Active Directory and Azure Active Directory different?

Azure provides two different queue types:

Storage Streams:

- ❖ It offers messaging both within and across services and is a component of Azure's storage infrastructure.

- ❖ It works well when customers need to keep queues with more than 80 GB of messages.

- ❖ The side logs of all transactions carried out against the user's queues are available.

Queues for service buses:

- ❖ It is a component of Azure's messaging system.

- ❖ It incorporates applications or components of applications that work across various network contexts, communication protocols, etc.

- ❖ It offers delivery in the FIFO fashion.

- ❖ The user's queue must not exceed 80 GB.

11. What are the advantages of the Azure Resource Manager?

Users may control how they use application resources with the help of Azure Resource Manager. A few benefits of Azure Resource Manager include:

- ❖ ARM aids in the deployment, management, and monitoring of all the resources for a solution, an application, or a group.

- ❖ Access to the resources users need can be provided

❖ It gathers thorough billing data for each resource in the group.

❖ Using templates makes provisioning resources much simpler.

12. Azure interview questions can also have MCQ's like follows: Which of the following web applications can be deployed with Azure?

A. ASP.NET

B. PHP

C. WCF

D. All of the mentioned

Answer: a) ASP.NET

13. How has integrating hybrid cloud been useful for Azure?

By utilising Azure and the Azure stack for the development and deployment of cloud-based and on-premises applications, the hybrid cloud increases productivity. Azure has benefited from integrating hybrid cloud in the following ways:

❖ By combining Azure services with DevOps practises and technologies, it achieves higher productivity.

❖ Users can benefit from regularly updated Azure services and other applications on the Azure Marketplace.

❖ It makes it possible to instal it anywhere—on-premises, in the cloud, etc.

❖ This makes it possible to produce applications more quickly.

14. What is the Federation in Azure SQL?

SQL Azure Federation provides tools that can enable developers to access or share databases among themselves in SQL Azure.

❖ It enables users to take advantage of resources within the cloud

❖ It allows users to have their own database or share databases amongst each other

❖ It reduces the possibility of a single point of failure

❖ It provides cost-effectiveness, by using cloud resources only when needed

15. What are the different types of storage offered by Azure?

During an Azure interview, storage-related issues are frequently asked. Azure offers four distinct storage options. As follows:

Blob Storage in Azure

Users can store unstructured material, such as images, audio files, video files, etc., together with its metadata, using blob storage.

- ❖ When an object is modified, the most recent version is confirmed.

- ❖ It offers the most flexibility possible to meet the user's storage requirements.

- ❖ Customers can access unstructured data through REST-based object storage.

- ❖ Storage Azure Table

Storage Azure Table

With a NoSQL key-value store and semi-structured datasets, users can deploy using Table Storage.

- ❖ Applications needing flexible data structure are made using it.

- ❖ It concentrates on businesses and adheres to a strong consistency model.

File Storage in Azure

- ❖ File Storage offers SMB (Server Message Block) protocol-compatible file-sharing features.

- ❖ SMB 3.0 and HTTPS are used to safeguard the data.

- ❖ Azure manages the deployment of hardware and operating systems.

- ❖ It enhances on-premises capabilities and performance.

Queue Storage in Azure

For heavy workloads, message queueing is provided by queue storage.

- ❖ It allows users to create adaptable applications and distinct functions.

- ❖ It makes ensuring the application is scalable and less vulnerable to failure single components.

- ❖ It offers queue monitoring which helps ensure client requests are satisfied

16. What is the Text Analysis API in Azure Machine Learning?

A collection of web services called Text Analysis API can be used for text analysis. It is applied to the unstructured text analysis process to extract keyphrases and analyse sentiment. It offers outcomes with a 0–1 scale in order to generate a pleasant or negative feeling.

Scores closer to 1, would be considered as a positive sentiment

Scores closer to 0, indicates a negative sentiment

Users only need to enter the data and call the service to acquire the sentiment analysis when a new model is established; it does not need to be constructed and trained.

17. What are the advantages of Azure Queue Storage?

Queue storage enables message queueing for large workloads in a simple, cost-effective, and durable manner. Few of its advantages are:

❖ It provides rich client libraries for Java, Android, C++, PHP, Ruby, etc.

❖ It enables users to build flexible apps and separate functions for greater durability

❖ It ensures users' applications are scalable and less prone to individual component failure

❖ It enables queue monitoring to ensure servers aren't overwhelmed by sudden traffic bursts

18. What are the two kinds of Azure Web Service roles?

A group of managed and load-balanced virtual machines that collaborate to carry out activities make up a cloud service role. There are two categories of Azure Web Service roles:

Online roles

❖ It is a cloud service role used to run online applications created in IIS (Internet Information Services) supported programming languages like ASP.NET, PHP, etc.

❖ Through the users, it automatically hosts and delivers apps. IIS

Employee Roles

❖ It performs operations and other activities that don't need IIS. Along with web roles, it provides supporting background tasks.

❖ It runs user applications independently of IIS.

19. What is Azure Service Fabric?

A platform called Service Fabric makes it simpler to create microservices and control the lifecycle of an application.

❖ It creates software with a quicker time to market.

❖ It works with Windows, Linux, and private clouds.

❖ It offers the capacity to scale up to 1,000 machines.

A client requests that the database of their application be hosted on-premises, but the front end of their application should be hosted

20. What is the Azure Traffic Manager?

By balancing traffic across all global Azure regions, Azure Traffic Manager is a traffic load balancer that enables users to offer high availability and responsiveness.

❖ It offers numerous automatic failover choices.

❖ It minimises interruptions to applications.

❖ It makes it possible to divide user traffic among various locations.

❖ It allows users to determine the country from which people are connecting.

21. How can Azure handle this situation?

You want to isolate network traffic across virtual machines in a subnet of a virtual network with the least amount of user impact and downtime possible.

Create a new Virtual Network

Move all the VMs in the subnet to the new VN

❖ The virtual computers would be kept separate as a result, eliminating the need for extra security measures like a Network Security Group.

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22 With respect to Azure, what is public, private, and hybrid cloud?

Public Cloud - The entire application that the user is utilising is only running on Azure

Private Cloud - Azure services are being used in an on-premises data centre, or the user hosts systems or applications in an on-premises data centre.
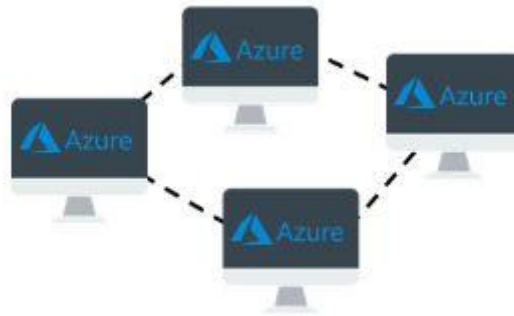
Hybrid Cloud-combines the advantages of both public and private clouds. Some of the user's components are running in an on-premises datacenter, while others are on Azure.

23. What kind of storage is best suited to handle unstructured data?

Blob Storage-related interview questions are included in the collection of Azure interview questions.

Blob Storage offers data storage space. Depending on how frequently they are accessed, data is organised into several layers.

- ❖ Unstructured data of any kind can be kept

- ❖ When an item is modified, data integrity is maintained.

- ❖ It improves the speed of apps and lowers bandwidth usage.

24. How do you set up an Azure Virtual Machine?

One of the most crucial Azure Interview Questions is setting up a VM.

The illustration below would make setting up an Azure virtual machine very clear:
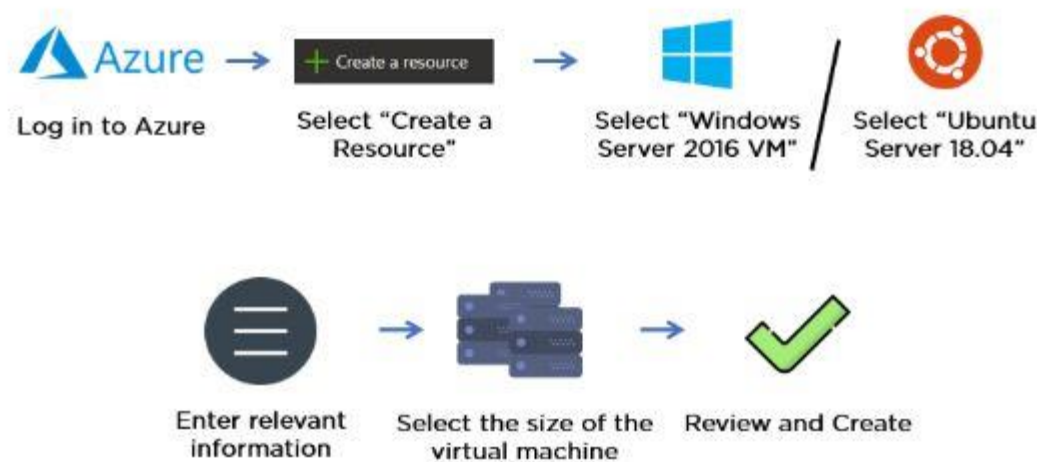
25. How do you handle this scenario?

To maintain security, you must ensure that your virtual machines can communicate securely with one another.

Solution - Azure Virtual Network enables on-premises networks, the internet, and Azure resources to securely connect with one another and with each other. Users may establish their own personal networks.

- ❖ It offers users a highly secure, segregated environment for apps.

- ❖ No traffic leaves the Azure network.

- ❖ Users can create their own networks using this tool.

26. How do you handle this scenario?

You must make sure that users are not required to enter their passwords again as part of the authentication process each time they log in.

To enable authentication with a Microsoft Account

Install ExpressRoute.

c. Establish a VPN between the location and the datacenter. Install a domain controller for AD in a virtual machine and use integrated Windows Authentication.

d. Set up single sign-on for Azure AD Sync.

Solution d) Setup single sign-on for Azure AD Sync

- ❖ A feature of access control for numerous connected but independent software systems is single sign-on (SSO). With this attribute, a user just needs to log in once to access all systems; they are not required to log in again at each one.

27.Azure Storage plays the same role in Azure that _____ plays in Amazon Web Services.

A. S3.

B. EC2

C. EC3

D. All of the mentioned

Answer: a) S3

28. Which service in Azure is used to manage resources in Azure?

A. Azure Resource Manager

B. Application Insights

C. Log Analytics

D. Azure Portal

Answer: a) Azure Resource Manager

29. How do you handle this scenario?

You need to ensure that virtual machines remain available while migrating to Azure. What would be the appropriate service to use?

A. Traffic Manager

B. Update Domains

C. Express Route

D. Cloud Services

Solution - c) Express Route

30. How do you handle this scenario?

A. You administer a website called web game. You're required to validate and deploy changes made to your website by your development team with minimum downtime

B. Create a new linked resource

C. Create a staging environment for the site

D. Enable remote debugging on the website

Solution - b) Create a staging environment for the site

31. How do you handle this scenario?

The scenarios on the list of Azure Interview Questions are crucial.

The Azure website standard tier is used by your standard tier application, which is accessed from all over the world. It makes use of a lot of image files. However, this slows down how quickly the application loads.

A. **a**.Create a custom domain for Azure blob storage

B. **b.** Set up Azure website Autoscaling to add instances when traffic is heavy.

C. **c**.Cache all responses from the application's web endpoint by configuring Azure CDN to do so.

D. **d.** Set up Azure CDN to cache site content and images that are kept in Azure blob storage
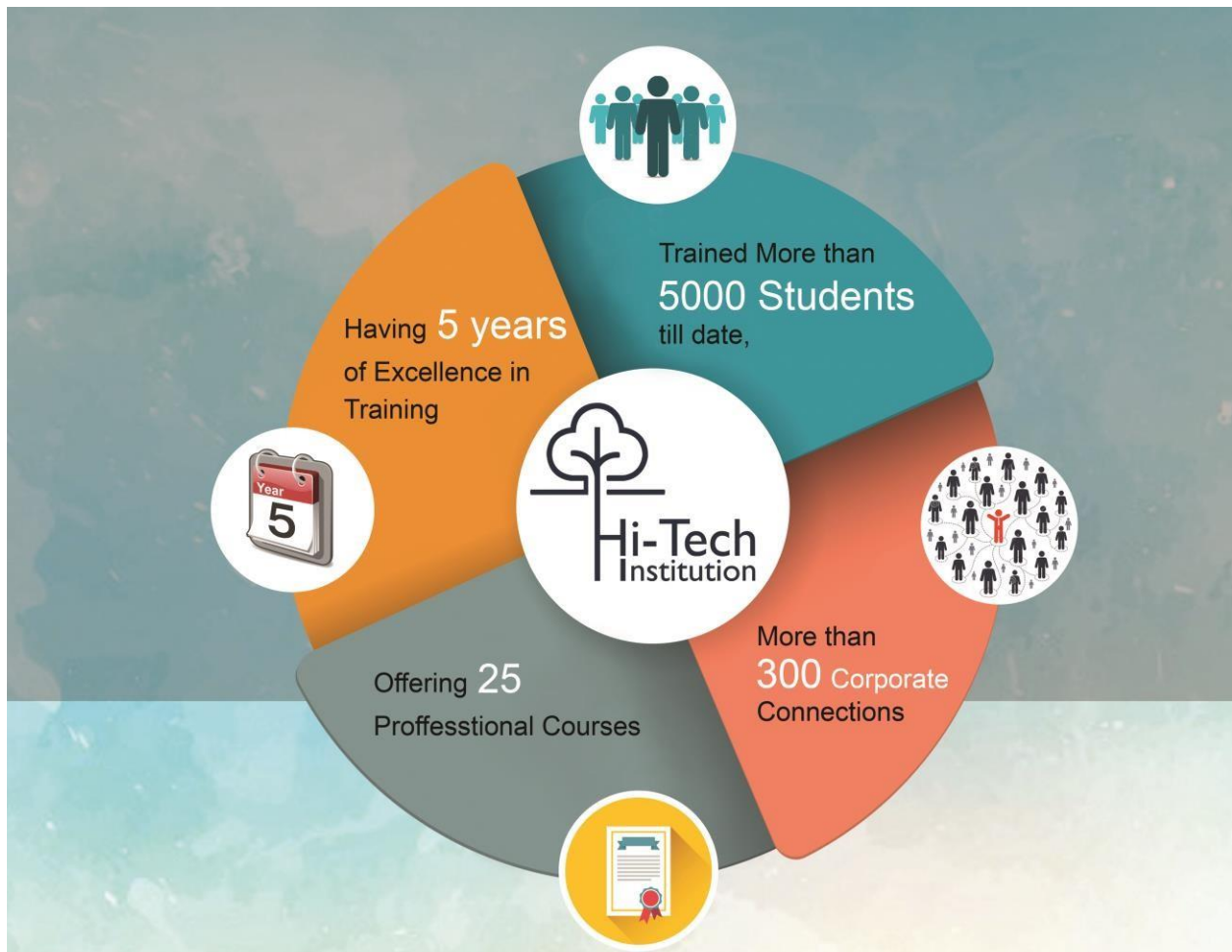
Solution - d) Set up Azure CDN to cache website material and images that are kept in Azure blob storage.

32. How can Azure handle this situation?

 on Azure.

On-premises   Azure VNET Point to Site   Front end

Use of an Azure VNET-based "Point to Site" is the best option in this situation. It works best in situations when only a small number of resources need to be connected.

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