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Top 50 Microsoft Azure Interview Questions And Answers

By Naveen   3.3 K Views   28 min read   Updated on August 23, 2021

In this Microsoft Azure interview questions and answers blog, you will learn how to clear an Azure job interview. You will also find roles implemented in Azure, principal segments of Windows Azure Platform, Azure AppFabric, autoscaling, Azure Table Storage, and more. Learn Azure from Intellipaat **Azure Certification Training** and excel in your career!

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Top Answers to Microsoft Azure Interview Questions

Numerous companies are looking for professionals certified in Microsoft Azure, especially after Gartner mentioned it as the second-highest profession in demand today. In this blog on Microsoft Azure interview questions and answers for freshers and experienced, we have combined a few of the most commonly asked questions in job interviews for different job profiles. Below is the list of the most popular Microsoft Azure Interview questions that are generally asked during job interviews:

These Azure interview questions are taken from the roles of Azure Architect, Azure Administrator/Admin, Azure Developer, Azure Cloud Solution Architect and more.
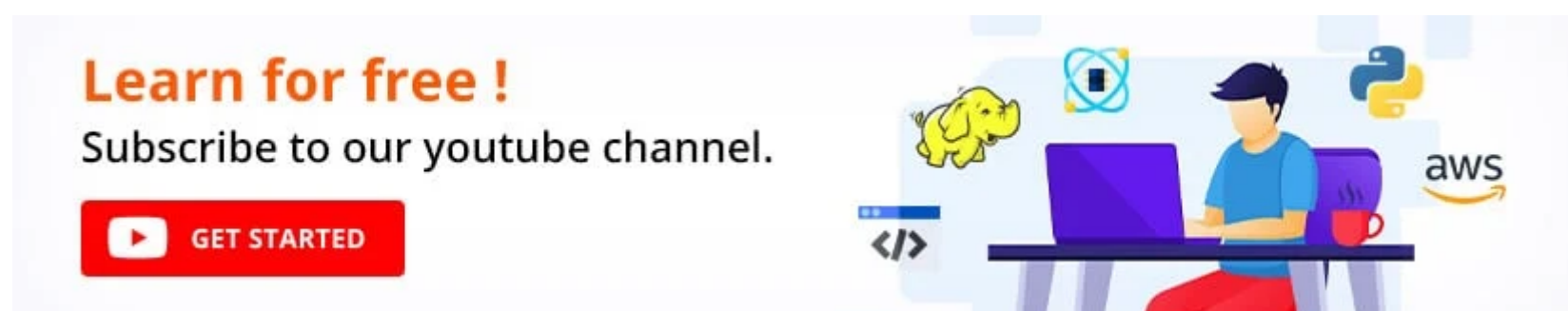
Following are the three main categories into which this blog on Microsoft Azure Interview Questions is divided:

1. Basic Azure Interview Questions

2. Intermediate Azure Interview Questions

3. Advanced Azure Interview Questions

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Basic Azure Interview Questions

1. What is Azure Cloud Service?

Cloud service can convey multiple web applications in Azure, characterizing a number of parts to disseminate handling and permit adaptable scaling of your application. A cloud service comprises a minimum of one web part, as well as specialist parts, each with its own particular application documents and design. The fundamental favorable position of cloud service is the capacity to help more complex multilevel structures.

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2. Differentiate between Microsoft Azure and AWS.

Features	Microsoft Azure	Amazon Web Services (AWS)
Analytics	Azure Stream Analytics	Amazon Kinesis
Backup Options	Azure Backup	Amazon Glacier
Compliance	Azure Trust Center	AWS CLoudHSM
Content Delivery Network (CDN)	Azure CDN	Amazon CloudFront
Data Orchestration	Azure Data Factory	AWS Data Pipeline
Hybrid Cloud Storage	StorSimple	AWS Storage Gateway
Monitoring	Azure Operational Insights	Amazon CloudTrail
NoSQL Database Options	Azure DocumentDB	Amazon DynamoDB

3. What is Azure DevOps?

Azure DevOps is a SaaS platform that provides development services for creating work plans, working together on code, developing applications, and deploying them. It offers an end-to-end DevOps toolchain for the development and deployment of software. It is able to integrate with a number of popular tools in the market and is a great way for setting up a DevOps toolchain.

4. What is Azure Active Directory (Azure AD)?

Azure AD is a cloud-based IAM solution and directory by Microsoft. It brings together application access management, core directory services, and identity protection and turns them into a single solution. It helps employees of an organization sign in and access resources such as:

- External resources, including Microsoft 365, the Azure portal, and a big number of SaaS applications
- Internal resources, such as apps on a corporate network and intranet, as well as any cloud-based apps built by that organization

Azure AD is intended for use by:

- IT Admins
- App Developers
- Azure, Office 365, Microsoft 365, or Dynamics CRM online subscribers

5. What is Azure Data Factory?

Azure Data Factory is a serverless and cloud-based data integration service and platform used for the creation of ETL and ELT pipelines. It helps in the creation of data-driven workflows for the planning and execution of data movements and data transformation at scale.

6. What is Azure Databricks?

Azure Databricks is a Data Analytics platform that offers two environments for the development of data-intensive applications:

- Azure Databricks SQL Analytics
- Azure Databricks Workspace

Azure Databricks' integration with the security, compute, analytics, storage, and AI services that are natively provided by cloud providers facilitates the unification of data and AI workloads.

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7. What is Azure Data Lake?

Azure Data Lake is a cloud platform that supports Big Data Analytics through its unlimited storage for structured, semi-structured, or unstructured data of all types and sizes.

8. What are Azure resources?

Any entity managed by Azure can be referred to as an Azure resource. The following are some examples of Azure resources: Storage accounts, virtual networks, virtual machines, etc.

9. What are the roles implemented in Windows Azure?

- Web Role
- Worker Role
- Virtual Machine Role
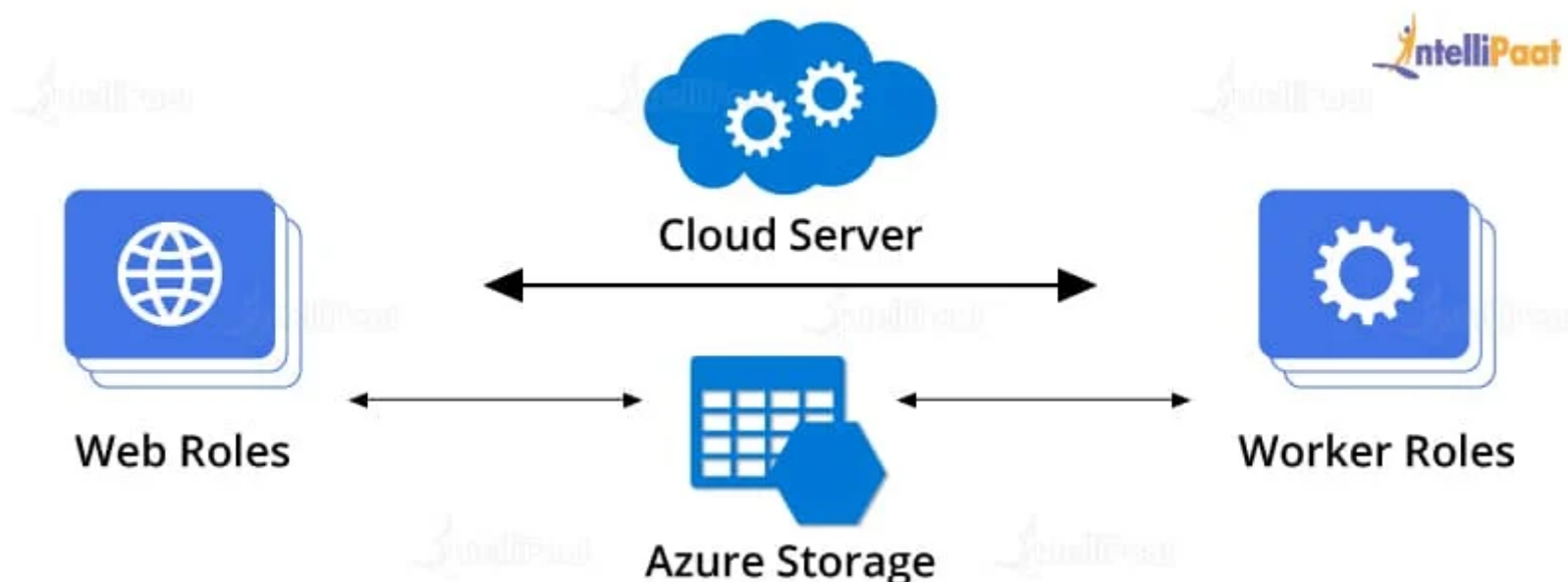
Web Role: It gives a web solution that is front-end. This is like an ASP.NET application. While under facilitating, Azure gives IIS and required services.

Worker Role: It gives solutions for background service. It can run long activities.

Virtual Machine Role: The roles of both web and worker are executed on virtual machines. The Virtual Machine Roles give the client the capacity to modify the virtual machine on which the web and worker roles are running.

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10. What are the three principal segments of the Windows Azure platform?

Windows Azure has three principal segments: Compute, Storage, and Fabric.

A. Windows Azure Compute

Windows Azure gives a code that can be managed by the hosting environment. It gives the calculation benefit through parts. Windows Azure backs three types of roles:

- Web roles utilized for web application programming and upheld by IIS7
- Worker roles utilized for foundation handling of web roles
- Virtual machine (VM) roles utilized for moving windows server applications to Windows Azure in a simple way

B. Windows Azure Storage

It gives four types of storage services:

- Queues for informing between web parts and worker roles
- Tables for storing structural data
- BLOBs (Binary Large Objects) to store contents, records, or vast information
- Windows Azure Drives (VHD) to mount a page BLOB. These can be transferred and downloaded by means of BLOBs

C. Windows Azure AppFabric

AppFabric provides five services:

- Service bus
- Access
- Caching
- Integration
- Composite

11. Define Windows Azure AppFabric.

Windows Azure Diagnostics empowers you to gather diagnostic data from an application running in Windows Azure. Diagnostic data is used for capacity planning and evaluation.

12. What is the distinction between Windows Azure Queues and Windows Azure Service Bus Queues?

Azure Queues give a solid, diligent messaging between and within the services. They also highlight a very straightforward rest-based get/put/peek interface.

Bus Queues are part of a more extensive Windows Azure messaging framework that supports queuing.

Career Transition

13. What is table storage in Windows Azure?

Windows Azure Table storage service stores a lot of organized information. Windows Azure tables are perfect for putting away organized, non-relational data.
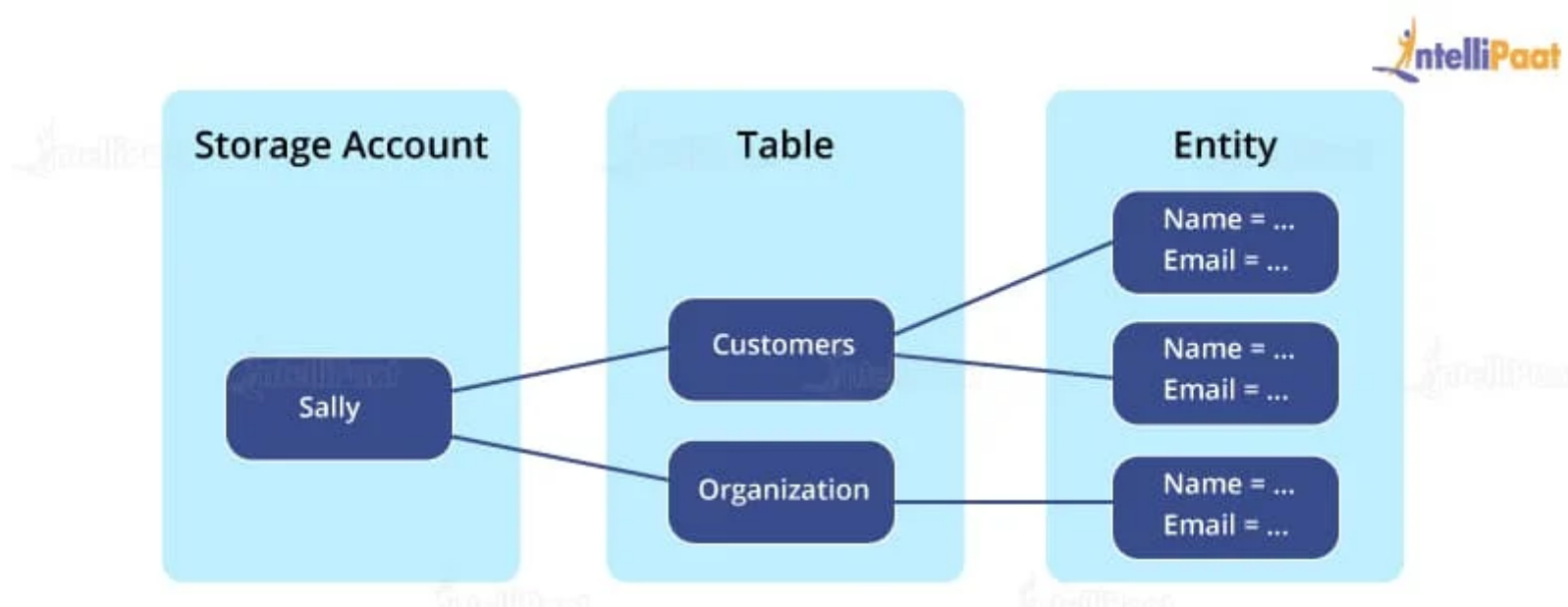

Table: A table is a collection of entities. Tables don't uphold a blueprint on elements, which implies that a solitary table can contain substances that have distinctive arrangements of properties. A record can contain numerous tables.

Entity: An entity is an arrangement of properties, like a database row. An entity can be up to 1 MB in size.

Properties: A property is a name–value pair. Every entity can incorporate up to 252 properties to store data. Every entity likewise has three system properties that determine a segment key, a row key, and a timestamp.

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14. What is autoscaling in Azure?

Scaling by including extra instances is frequently referred to as scaling out. Windows Azure likewise supports scaling up by utilizing bigger roles rather than more role instances.

By adding and expelling role instances to our Windows Azure application while it is running, we can adjust the execution of the application against its running costs.

An autoscaling solution reduces the amount of manual work engaged in dynamically scaling an application.

15. What are the features of Windows Azure?

Windows Azure runs and stores the information on Microsoft data centers.

The main features are as follows:

- Websites enable the designers to assemble the sites utilizing ASP.NET, PHP, etc., and send these websites utilizing FTP, Git, etc.
- SQL database, formally known as Azure database, makes, broadens, and scales the application into the cloud utilizing Microsoft SQL Server.
- This is Microsoft's Platform as a Service that supports multilevel applications and automated deployment.

16. What are the differences between a public cloud and a private cloud?

Private clouds are those that are constructed solely for an individual enterprise. They enable a firm to have applications in the cloud while tending to concerns with respect to data security and control that is frequently ailing in a public cloud environment.

Private cloud is otherwise called an internal cloud or enterprise cloud and dwells on the organization's Intranet or hosted data center where the data is protected.

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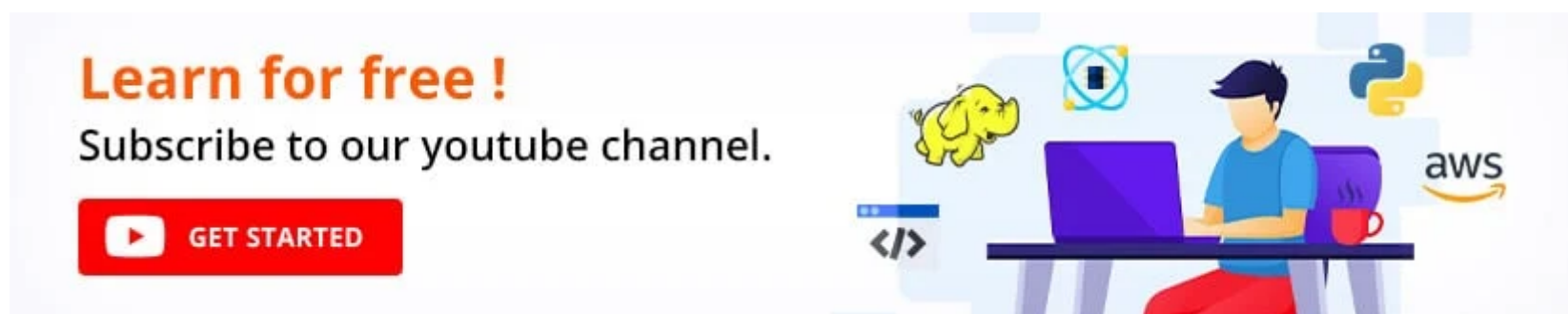
That's it for our basic Azure Architect interview questions. Let's move onto the next section on Intermediate Azure Administrator interview questions.

Intermediate Azure Interview Questions

17. What is Windows Azure Portal?

To run an application, a designer gets to the Windows Azure Portal through his/her web program by logging in with a Windows Live ID. The user at that point chooses whether to create a host account for running applications, a storage account for storing data, or both.

Once the designer has a host account, he/she can utilize a Windows Azure Portal to submit applications to Windows Azure.

18. Explain Azure Fabric.

Azure Fabric is the principal core concept. It gives a service called Azure Fabric Controller. It is called the OS for Azure since it handles/oversees:

- All roles (processing) and resources
- Sending and activating services
- Monitoring the health of all services
- Releasing and allocating resources
- Provisioning VM, terminating, etc.
- Patches get updated for the installed OS on VM in the most automated form

19. What do you comprehend about Hybrid Cloud?

A hybrid cloud is a blend of internal and external cloud services, a mix of a private cloud joined with the utilization of public cloud services. This kind of cloud is most appropriate when you need to keep the classified information in your vicinity (private cloud) and consume alternate services from a public cloud.
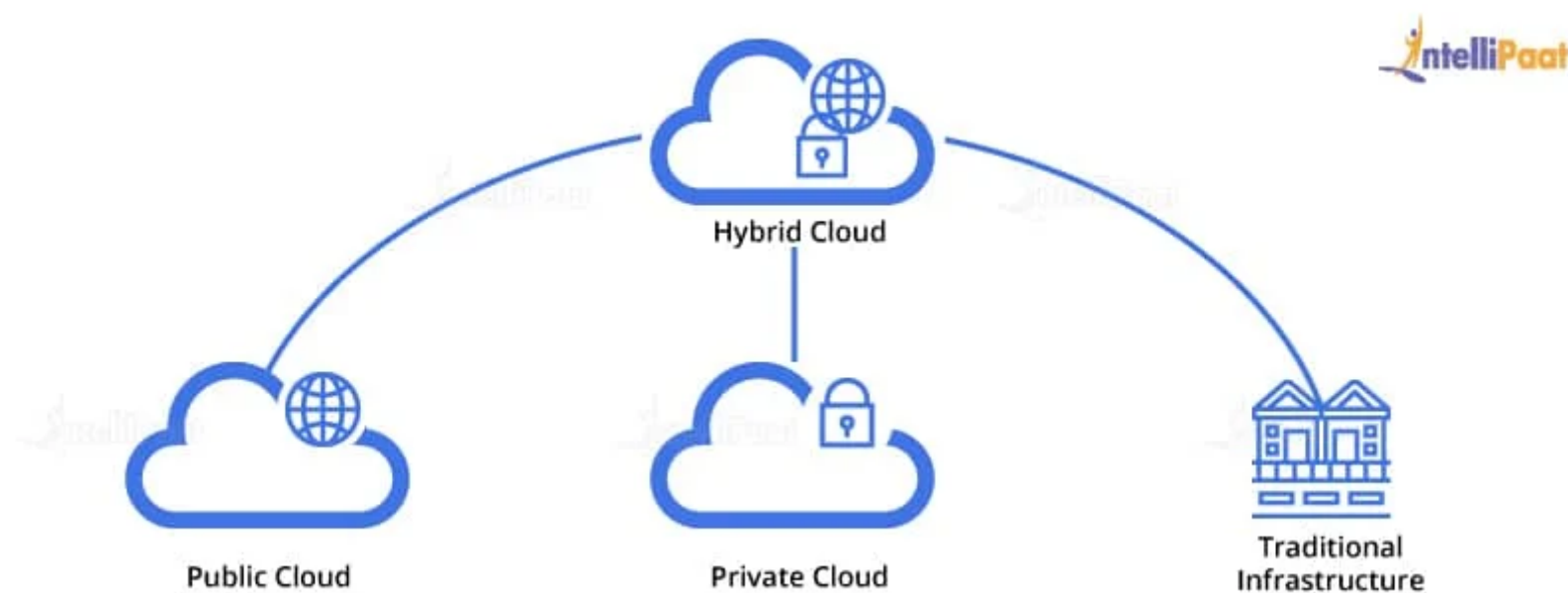
20. What is a storage key?

Storage keys or access keys are utilized as a validation mode for accessing the storage services account to control data based on our prerequisites. In Windows Azure, we have an alternative to give a primary access key and a secondary access key, despite the fact that we will utilize a solitary access key to confirm our application to the storage. The primary reason to give the secondary access key is to avoid downtime to the application.

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21. What is Windows Azure Traffic Manager?

It enables users to control the distribution of user traffic of installed Azure cloud services. There are three distinctive load-balancing strategies provided by Azure. The Manager who works on traffic applies a routing policy to the Domain Name Service (DNS) questions on your domain names and maps the DNS courses to the apt instances of your

applications.

22. What is federation in SQL Azure?

Organization in SQL Azure is introduced for scalability. Federation helps both managers and developers scale information. It helps managers by making repartitioning and redistributing of information in a simpler manner. It enables developers in the layer of routing and sharing of information. It helps in routing without application downtime.

23. What is SQL Azure database?

SQL Azure database is just an approach to get associated with cloud services where you can store your database into the cloud. Microsoft Azure is the most ideal approach to utilize PaaS where you can have different databases on a similar account.

Microsoft SQL Azure has a similar component of SQL Server, i.e., high accessibility, versatility, and security in the core.

Microsoft Azure SQL database has an element; it makes backups of each active database automatically. Consistently a backup is taken and geo-repeated to empower the 1-hour recuperation point objective (RPO) for Geo-Restore.

24. What are the different types of Storage areas in Windows Azure?

BLOB: BLOBs offer a component for storing a lot of content or binary data, for example, pictures, audio, and visual documents. They can scale up to 200 terabytes and can be acquired by utilizing REST APIs.

Table: Tables represent storage areas across machines for information that is in the form of properties on the cloud.

Line: The sole target of a queue is to empower communication among Web and Worker Role instances. They help in storing messages that may be accessed by a customer.

25. What is the concept of the table in Windows Azure?

A table is a kind of Azure Storage where you can store your information. BLOBs are put in a compartment and an entity in a table.

Following are the key concepts in a table:

- Tables allow structured data storage.
- There can be 0 to n number of tables in a storage account.
- Tables store information as an accumulation of elements.
- An element has an essential key and properties as a key–value pair.

26. How to secure Azure functions?

One can secure Azure functions through the following:

- Security Center
- Log and monitor
- HTTPS
- Function access keys
- Authentication/authorization
- Permissions
- Secret management
- Set up usage quotas
- Data validation
- Error handling
- Disabled remote debugging
- Restricted CORS access
- Store the data encrypted
- Secure deployment

- Deployment credentials
- Disabled FTP
- Secure scm endpoint
- Continuous security validation
- Network security

27. What is Conditional Access in Azure?

Conditional Access is used by Azure AD as a tool to make decisions, bring signals together, and impose organizational policies.

Through Conditional Access policies, one can implement the right access controls whenever required to keep the organization secure and stay out of the users' way when not needed.

28. When should you use a static IP address in Azure?

In Azure, a static IP address is used when the address connected to the device is not to be changed.

29. How does Azure Site Recovery work?

Site Recovery orchestrates and automates the replication of Azure VMs in different locations—on-premises machines to a secondary data center, and on-premises VMs and physical servers to Azure.

It contributes to business continuity and disaster recovery (BCDR) by enabling access to apps from the secondary location in case of an outage at the primary site.

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30. Why should you use Azure CDN?

Azure CDN reduces the bandwidth and load time. It also helps speed up the responsiveness.

31. Explain the benefits of Traffic Manager.

Azure Traffic Manager has the following benefits:

- Optimized performance
- No downtime during the update or maintenance process
- Easily configurable on the Windows Azure portal

32. What is the difference between a library and a list?

A library is an interface that enables the management and storage of a document created in Word, Excel, or PowerPoint. A list, on the other hand, is the representation of an item in a tabular format (with columns and rows). It can be attached with documents.

33. How many services are there in Azure?

Azure has over 6,000 flexible offerings, and it utilizes the data capacity offered by Microsoft for Software, Platform, and Infrastructure as a Service (SaaS, PaaS, and IaaS).

34. How many types of backups are there in Azure?

Azure Backup includes three types of replications that keep both storage and data highly available.

- **Geo-redundant storage (GRS):** The default and recommended option that replicates data to a secondary region far from the primary location
- **Locally redundant storage (LRS):** Creates three copies of the data in a storage scale unit within a data center
- **Zone-redundant storage (ZRS):** Replicates the data in availability zones with data residency and resiliency in the same region and has no downtime

That's it for Intermediate Azure Interview questions and answers. Now, we will move onto advanced Azure Interview questions.

Advanced Azure Interview Questions

35. What is the TFS build system in Azure?

A build is the solution of an output. In Azure projects, you get the record with a .cspkg extension, that is, a Cloud Service Package is utilized for the deployment of your cloud administration.

Build Servers: In general terms, a build server is a machine where you put your deployment packages.

To utilize Team Foundation Build, you should have no less than one build machine. This machine can be a physical machine or a virtual machine.

Build Controllers: Manufacture Controllers are the component in the build system that accepts the build requests from any task inside the group project. Each build controller is dedicated to a solitary team project collection. So, there is a balanced relationship between a team project and a build controller.

Build Agents: Build Agents are components in the build system that accomplishes more processor-concentrated work.

36. What is Azure App Service?

Azure App Service is a completely managed Platform-as-a-Service (PaaS) offering for proficient developers that conveys a rich arrangement of abilities to web, mobile, and integration scenarios. Mobile apps in Azure App Service offer a very adaptable, universally accessible mobile application development platform for Enterprise Developers and System Integrators that conveys a rich set of capacities to mobile engineers.
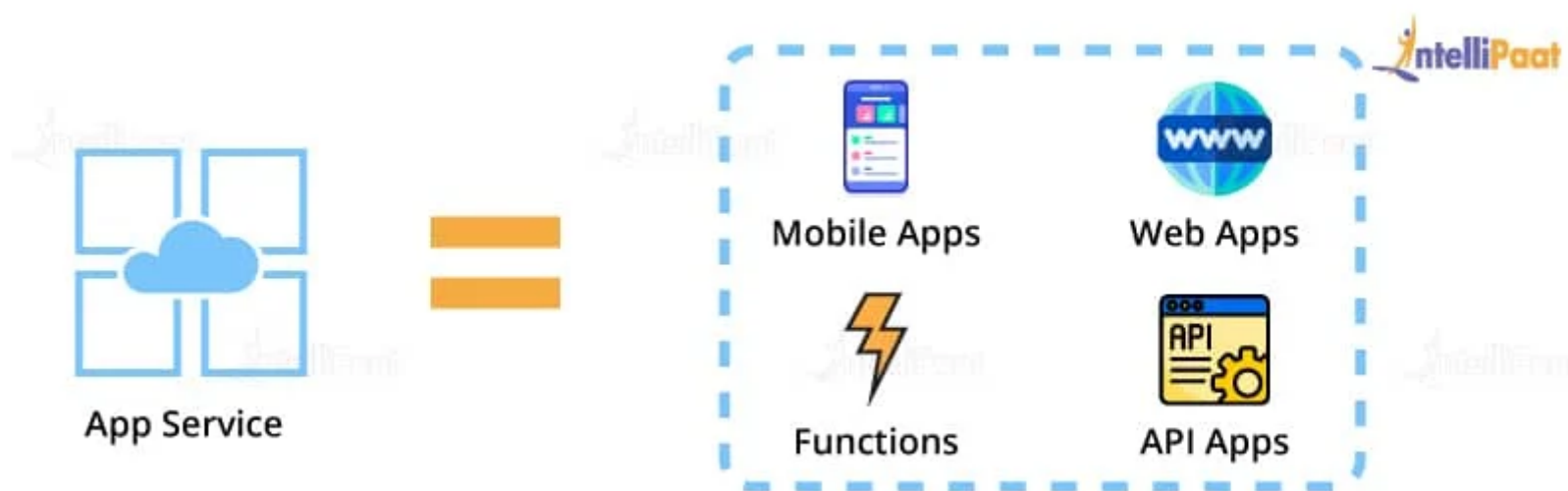
37. What is profiling in Azure?

Profiling is only a procedure for measuring the performance analysis of an application. It is normally done to guarantee that the application is sufficiently steady and can maintain overwhelming traffic.

Visual Studio gives us different tools to do it by gathering the performance information from the application that likewise helps in troubleshooting issues.

Once the profiling wizard is run, it sets up the execution session and collects the data of the sample.

The profiling reports help in:

- Deciding the longest running strategies inside the application
- Measuring the execution time of every strategy in the call stack
- Assessing memory allocation

38. What is cmdlet in Azure?

A cmdlet is a lightweight command that is utilized as a part of the Microsoft PowerShell environment. The cmdlets are summoned by the Windows PowerShell to automate the scripts which are in the command line. Windows PowerShell runtime additionally invokes them automatically through Windows PowerShell APIs.

39. What is Windows Azure Scheduler?

Windows Azure Scheduler enables you to invoke activities, for example, calling HTTP/S endpoints or presenting a message on a storage queue on any schedule.

With Scheduler, you make jobs in the cloud that dependably call services both inside and outside of Windows Azure and execute those jobs on demand, on a routinely repeating schedule, or assign them for a future date.
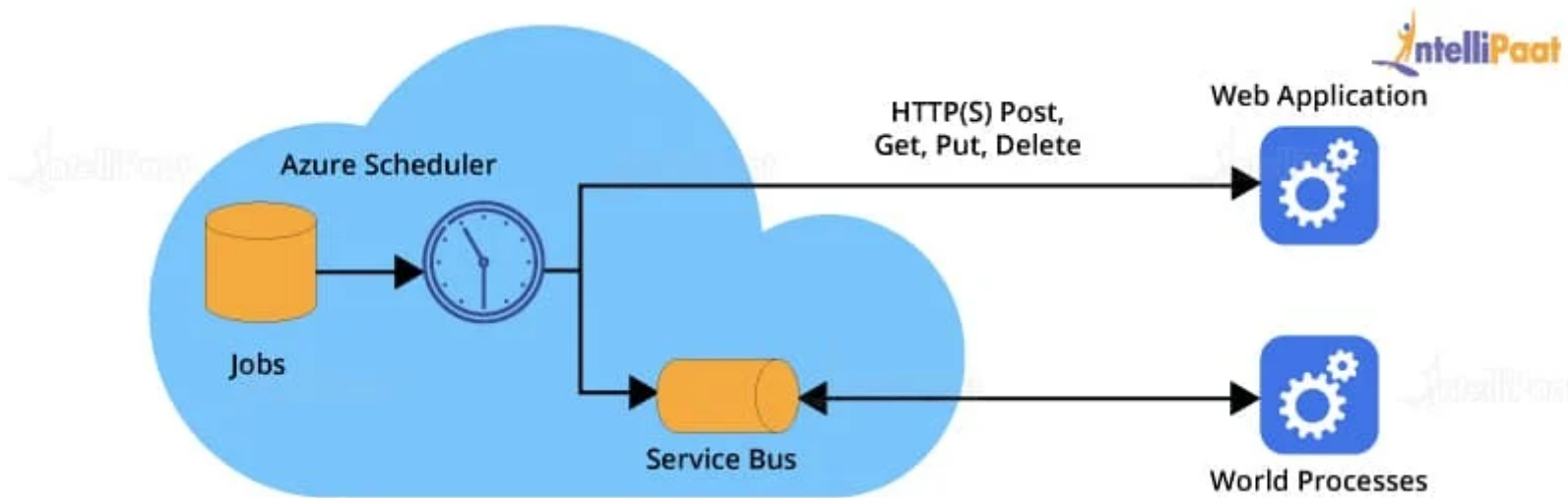
40. How can you create an HDInsight Cluster in Azure?

To make an Azure HDInsight Cluster, open the Azure portal > click on New > select Data Services > click on HDInsight.

Hadoop is the default and native execution of Apache Hadoop.

HBase is an Apache open-source NoSQL database based on Hadoop that gives random access and solid consistency for a lot of unstructured data.

Apache Storm is a distributed, fault-tolerant, open-source computation system that enables you to process data in real time.

41. What is Text Analytics API in Azure Machine?

Content Analytics API is a part of content examination web administrations worked with Azure Machine Learning. The API can be utilized to analyze unstructured content for tasks such as sentiment analysis and key-phrase extraction.

The API restores a numeric score between 0 and 1. Scores near 1 show positive sentiment, while scores near 0 demonstrate negative sentiment.

The upside of this API is that another new model need not be planned and prepared; the user just needs to bring the data and call the service to get the sentiment results.

42. What is the Migration Assistant tool in Azure Websites?

Migration Assistant tool will examine our IIS installation and recognize the sites that can be migrated to the cloud, featuring any components which can't be migrated or are unsupported on the platform.

Once broken down, this tool will likewise create sites and databases provided under the given Azure membership.

43. What is the distinction between Public Cloud and Private Cloud?

A public cloud is utilized as a service through the Internet by users, while a private cloud is deployed within specific limits like firewall settings and is totally overseen and checked by the users dealing with it in an organization.

44. What is Azure Service Level Agreement (SLA)?

The SLA ensures that, when you send two or more role instances for each role, access to your cloud service will be maintained not less than 99.95 percent of the time. Additionally, identification and re-correction activities will be started 99.9 percent of the time when a role instance's procedure isn't running.

45. How to add an administrator to the Azure portal?

To add an administrator to the Azure portal, it has to be given the owner role. It will be able to manage only those resources in the subscription that are assigned to it. To add an administrator, follow these steps:

1. Sign in to the Azure portal
2. Go to the Hub menu and then to **Subscription** and select the subscription that the administrator will need access to
3. Select **Access control (IAM)** in the subscription blade, and then click on **Add**
4. Go to **Select a role**, and click on **Owner**
5. Here, provide the email address of the user to be assigned as the owner
6. Click on the user, and then click on **Select**
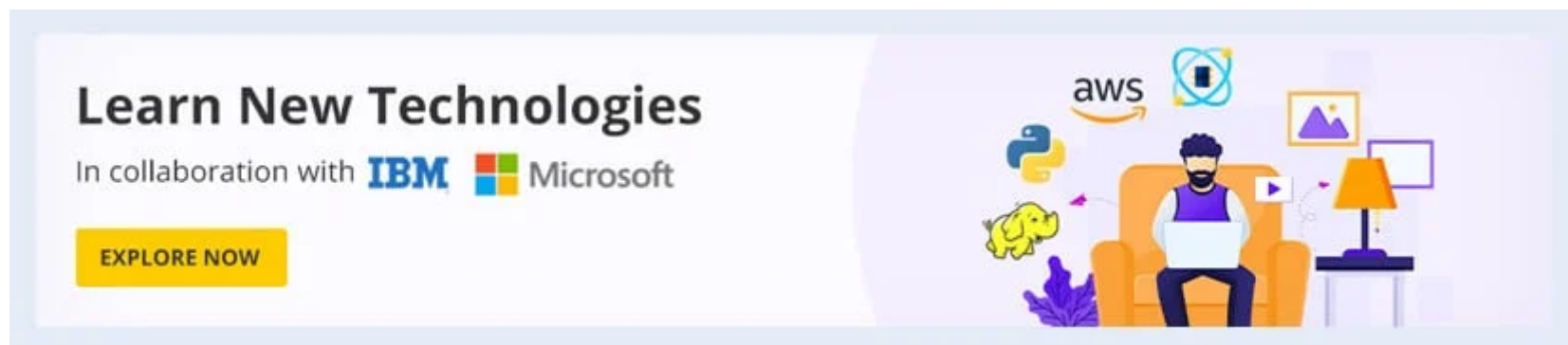
46. How to connect to Azure Database from SQL Management Studio?

1. The first time you start the SQL Server Management Studio, the **Connect to Server** dialog box opens up automatically. You can also open it manually by going to **Object Explorer** > **Connect** > **Database Engine**.
2. Then, enter the following information in the **Connect to Server** window:
   Server Type Database Engine
   Server Name Enter the name of your Azure SQL Database or Azure Managed Instance
   Authentication SQL Server Authentication
   Login Enter the server account user ID
   Password Enter the server account passwordYou can also choose to change the additional connection options by going to **Options**.
3. Click on **Connect** after completing all the required fields

   If the firewall settings are not set up, a prompt appears to configure the same. Once signed in, provide the Azure account login information, and set the firewall rule. Then, click on **OK**.
4. To verify if your Azure Database connection is successful, expand and explore **Object Explorer** for the server name, the SQL Server version, and the username.

47. How to create a virtual machine on Azure?

To create a VM on Azure, you need to follow the below steps:

1. Sign in to Azure
2. Sign in to the Azure portal
3. Search for virtual machines in the search box
4. Under **Services**, select **Virtual machines**
5. Click on **Add** in the **Virtual machines** page
6. In the **Basics** tab, under **Project details**, select the correct subscription, and choose **Create new resource group**
7. Type **myResourceGroup** for the name
8. Under Instance details, the **Virtual machine name** should be **myVM**
9. Choose your **Region** [e.g., (US) East US]
10. Choose **Windows Server 2019 Datacenter** for the **Image**
11. Leave the rest as default
12. Under **Administrator account**, enter a username and a password
13. Under **Inbound port rules**, click on **Allow selected ports,** and then select HTTP (80) and RDP (3389) for **Select inbound ports**
14. The rest will remain as default here
15. Finally, click on the **Review + create** button

48. How to deploy SQL Database in Azure?

1. Authenticate to the Azure portal
2. Click on **SQL Databases**
3. Click on **Servers**
4. Click on a server name to connect to

5. Press **Configure**
6. Open SQL Server Management Studio
7. Connect to Database services (usually, this happens by default)
8. Finally, click on **Connect**

49. How to export users from Azure Active Directory?

You can export users from Azure AD by following the below-mentioned steps:

1. Install the Azure PowerShell module using the following cmdlet:

```
install-module az
```

2. To connect to Azure AD and Azure, run:

```
Connect-azaccount
```

3. To export, all users to a CSV file, run:

```
Get-AzADUser | export-csv file.csv
```

4. If you only need to export the first 10 users, then you can use:

```
Get-AzADUser -First 10 |  export-csv file.csv
```

5. To export all users after the first 2 users, you can use:

```
Get-AzADUser -Skip 2 | ft
```

50. How to create a resource group in Azure?

To create a resource group in Azure:

1. Log in to the Azure portal
2. In the menu on the left, select **Resource groups**
3. In the Resource groups page, click on **Add**

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Resource details region: Select a location
5. Click on **Review + create**
6. Once validation is passed, click on **Create** to create your resource group

That's it in our blog on MS Azure interview questions and answers. Hope these Azure questions help you in your Azure Interview job preparation.

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