**Q1. WhAT IS AZURE ?**

**ANS:** Microsoft Azure is a cloud computing platform and service provided by Microsoft.

**Q2. Explain different service model of azure ?**

**ANS:**

These service models (IaaS, PaaS, SaaS) in Azure cater to different levels of abstraction and management, allowing organizations to choose the right level of control and responsibility based on their specific needs and resources.

AZURE different service models given below:

1. \*\*IaaS (Infrastructure as a Service)\*\*:

- \*\*Definition\*\*: IaaS provides virtualized computing resources over the internet. It includes virtual machines, storage, and networking infrastructure that can be managed and scaled as needed.

- \*\*Azure Example\*\*: Azure Virtual Machines (VMs) allow you to create and manage virtual servers in the cloud, giving you flexibility and control over the operating system and applications running on them.

2. \*\*PaaS (Platform as a Service)\*\*:

- \*\*Definition\*\*: PaaS delivers a platform allowing customers to develop, run, and manage applications without dealing with the underlying infrastructure. It abstracts hardware and provides a framework for building, testing, and deploying applications.

- \*\*Azure Example\*\*: Azure App Service is a fully managed platform that allows you to build, deploy, and scale web apps, APIs, and mobile backends. It abstracts the underlying infrastructure and provides built-in features like automatic scaling and continuous integration.

3. \*\*SaaS (Software as a Service)\*\*:

- \*\*Definition\*\*: SaaS delivers software applications over the internet on a subscription basis. It eliminates the need for organizations to install and maintain software locally, as the applications are hosted and managed by the service provider.

- \*\*Azure Example\*\*: While Azure itself primarily provides IaaS and PaaS, Microsoft offers various SaaS applications like Microsoft 365 (formerly Office 365), which includes software such as Word, Excel, and Outlook, delivered as a service over the internet.

**ALL AZURE SERVICES LIST :**

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Analytics (23)

Compute (36)

Containers (11)

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DevOps (22)

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Azure OpenAI

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Intelligent Recommendations Accounts

Azure Synapse Analytics

**Analytics**

(23)

Analysis Services

Apache Airflow™ on Astro - An Azure Native ISV Service

PARTNER

Data factories

Data Lake Analytics

Data Lake Storage Gen1

Azure Databricks

HDInsight clusters

Azure HDInsight on AKS clusters (preview)

PREVIEW

Informatica Intelligent Data Management Cloud - An Azure Native ISV Service

PARTNER

Microsoft Graph Data Connect

PREVIEW

Data Catalog

Azure Data Explorer Clusters

Data Share Invitations

Data Shares

Power BI Embedded

Apache Kafka® & Apache Flink® on Confluent Cloud™ - An Azure Native ISV Service

PARTNER

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Log Analytics workspaces

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Datadog - An Azure Native ISV Service

PARTNER

Elastic Cloud (Elasticsearch) – An Azure Native ISV Service

PARTNER

Monitor

Azure Native Dynatrace Service

PARTNER

Azure Native New Relic Service

PARTNER

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Apache Kafka® & Apache Flink® on Confluent Cloud™ - An Azure Native ISV Service

PARTNER

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Elastic Cloud (Elasticsearch) – An Azure Native ISV Service

PARTNER

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Microsoft Entra ID Security

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Email Communication Services

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SignalR

Virtual Appointments Builder

Web PubSub for Socket.IO

Web PubSub Service

Community Training

**Q3. GIVE DEFINATION FOR EACH SERVICE AND EXAMPLE ?**

**ANS:**

Here are short definitions and brief explanations for each term along with the number of characters for each explanation:

1. \*\*AI + Machine Learning (22)\*\*

- \*\*Definition\*\*: AI (Artificial Intelligence) and machine learning involve creating systems that can learn and adapt without explicit programming. In Azure, this includes services for predictive analytics, natural language processing, and computer vision.

- \*\*Example\*\*: Azure Machine Learning enables developers and data scientists to build, train, and deploy machine learning models using Azure's cloud infrastructure.

2. \*\*Analytics (23)\*\*

- \*\*Definition\*\*: Analytics involves extracting insights from data to support decision-making. Azure Analytics includes tools for data exploration, visualization, and advanced analytics.

- \*\*Example\*\*: Azure Synapse Analytics integrates data warehousing and big data analytics, allowing organizations to analyze large datasets for actionable insights.

3. \*\*Compute (36)\*\*

- \*\*Definition\*\*: Compute refers to the processing power required to run applications and perform tasks in the cloud. Azure Compute services provide scalable virtual machines and serverless computing options.

- \*\*Example\*\*: Azure Virtual Machines (VMs) allow businesses to run Windows or Linux virtual machines in the cloud, providing flexibility and control over computing resources.

4. \*\*Containers (11)\*\*

- \*\*Definition\*\*: Containers are lightweight, portable environments that package application code and dependencies together. Azure Container Instances and Azure Kubernetes Service (AKS) provide container orchestration and management.

- \*\*Example\*\*: Azure Kubernetes Service (AKS) helps deploy and manage containerized applications using Kubernetes, simplifying container orchestration and scaling.

5. \*\*Databases (19)\*\*

- \*\*Definition\*\*: Databases store and manage structured data efficiently. Azure offers various database services including relational, NoSQL, and data warehousing options.

- \*\*Example\*\*: Azure SQL Database provides a fully managed relational database service based on Microsoft SQL Server, offering built-in intelligence and advanced security features.

6. \*\*DevOps (22)\*\*

- \*\*Definition\*\*: DevOps is a set of practices that combine software development (Dev) and IT operations (Ops) to shorten the software development lifecycle. Azure DevOps provides tools for collaboration, continuous integration, and continuous delivery.

- \*\*Example\*\*: Azure DevOps Services includes Azure Repos for version control, Azure Pipelines for CI/CD automation, and Azure Boards for Agile project management.

7. \*\*General (23)\*\*

- \*\*Definition\*\*: General refers to Azure's wide range of services and capabilities that cater to diverse business needs, including computing, networking, storage, and more.

- \*\*Example\*\*: Azure's general-purpose virtual machines (VMs) are designed for a wide range of workloads, offering a balance of CPU, memory, and storage resources.

8. \*\*Hybrid + Multi-cloud (26)\*\*

- \*\*Definition\*\*: Hybrid and multi-cloud strategies combine on-premises infrastructure with cloud services or utilize multiple cloud providers. Azure Hybrid and Multi-cloud solutions provide flexibility, scalability, and data sovereignty options.

- \*\*Example\*\*: Azure Arc extends Azure management to any infrastructure, enabling centralized management of resources across on-premises, multi-cloud, and edge environments.

9. \*\*Identity (17)\*\*

- \*\*Definition\*\*: Identity management involves securely managing user identities and permissions. Azure Active Directory (Azure AD) provides identity and access management services for cloud applications.

- \*\*Example\*\*: Azure AD enables single sign-on (SSO) and multi-factor authentication (MFA) to protect access to Azure services and third-party SaaS applications.

10. \*\*Integration (17)\*\*

- \*\*Definition\*\*: Integration refers to connecting disparate systems and applications to streamline data flow and business processes. Azure Integration Services provides tools for cloud-based integration and workflow automation.

- \*\*Example\*\*: Azure Logic Apps enables users to automate workflows and integrate applications, services, and data across cloud and on-premises environments.

11. \*\*Internet of Things (20)\*\*

- \*\*Definition\*\*: IoT involves connecting devices and sensors to the internet to collect and exchange data. Azure IoT services provide capabilities for device management, data analytics, and integration with other Azure services.

- \*\*Example\*\*: Azure IoT Hub enables bi-directional communication between IoT applications and devices, securely connecting millions of devices to the cloud.

12. \*\*Management and Governance (41)\*\*

- \*\*Definition\*\*: Management and governance in Azure involve controlling and monitoring resources to ensure compliance, security, and cost management. Azure Management and Governance services provide tools for centralized management, policy enforcement, and monitoring.

- \*\*Example\*\*: Azure Policy allows organizations to enforce policies and ensure compliance across Azure resources, defining rules and assessing resource configurations.

13. \*\*Migration (5)\*\*

- \*\*Definition\*\*: Migration involves moving applications, data, and workloads from on-premises environments to the cloud. Azure Migration services provide tools and guidance to streamline the migration process.

- \*\*Example\*\*: Azure Migrate assesses on-premises workloads, provides migration recommendations, and performs server migrations to Azure VMs or Azure Kubernetes Service (AKS).

14. \*\*Mixed Reality (3)\*\*

- \*\*Definition\*\*: Mixed Reality combines elements of virtual reality (VR) and augmented reality (AR) to create immersive experiences. Azure Mixed Reality services enable developers to build, deploy, and manage mixed reality applications.

- \*\*Example\*\*: Azure Spatial Anchors allow developers to create mixed reality experiences that persistently map digital content to physical locations, enhancing AR applications with spatial awareness.

15. \*\*Monitor (24)\*\*

- \*\*Definition\*\*: Monitoring involves tracking the performance, health, and availability of applications and infrastructure. Azure Monitor provides comprehensive monitoring and diagnostics for Azure resources and applications.

- \*\*Example\*\*: Azure Monitor collects and analyzes telemetry data from applications and infrastructure, offering insights into performance trends, resource utilization, and operational efficiency.

16. \*\*Networking (38)\*\*

- \*\*Definition\*\*: Networking in Azure includes services and capabilities for connecting virtual machines, applications, and users securely and efficiently. Azure Networking services provide virtual networks, load balancing, and VPN connectivity.

- \*\*Example\*\*: Azure Virtual Network (VNet) allows users to create isolated networks within Azure, controlling IP address ranges, subnets, and routing tables to securely connect Azure resources.

17. \*\*Security (21)\*\*

- \*\*Definition\*\*: Security in Azure involves protecting data, applications, and infrastructure from cyber threats and unauthorized access. Azure Security services provide built-in security controls and threat intelligence.

- \*\*Example\*\*: Azure Security Center offers centralized security management and advanced threat protection across Azure workloads, providing continuous security monitoring, threat detection, and remediation recommendations.

18. \*\*Storage (18)\*\*

- \*\*Definition\*\*: Storage in Azure involves durable and scalable cloud storage solutions for various data types. Azure Storage services include blob storage, file storage, and disk storage options.

- \*\*Example\*\*: Azure Blob Storage provides scalable object storage for unstructured data, supporting applications that require high throughput and low latency access to data.

19. \*\*Web & Mobile (26)\*\*

- \*\*Definition\*\*: Web & Mobile services in Azure provide platforms and tools for developing, deploying, and managing web and mobile applications. Azure App Service, Azure Functions, and Azure Mobile Apps are examples of services that support web and mobile development.

- \*\*Example\*\*: Azure App Service allows developers to build and host web applications and APIs in various programming languages, supporting continuous deployment and scaling based on demand.

**Azure setup guide overview :**

**Organize resources**: Set up a management hierarchy to consistently apply access control, policy, and compliance to groups of resources and use tagging to track related resources.

**Manage access**: Use Azure role-based access control to make sure that users only have the permissions they need.

**Manage costs and billing:** Identify your subscription type, understand how billing works, and learn how to control costs.

**Plan for governance, security, and compliance:** Enforce and automate policies and security settings that help you follow applicable legal requirements.

**Use monitoring and reporting:** Get visibility across resources to find and fix problems, optimize performance, and gain insight into customer behavior.

**Stay current with Azure:** Track product updates to enable a proactive approach to change management.

**Organize resources**

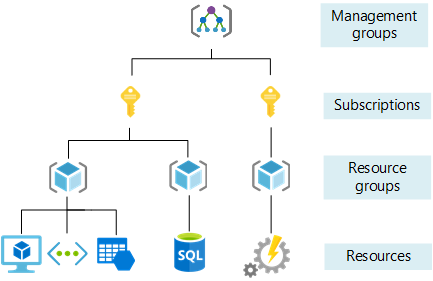
**Management levels and hierarchy :**

**Management groups** help you manage access, policy, and compliance for multiple subscriptions. All subscriptions in a management group automatically inherit the conditions that are applied to the management group.

**Subscriptions** logically associate user accounts with the resources that they create. Each subscription has limits or quotas on the amount of resources that it can create and use. Organizations can use subscriptions to manage costs and the resources that are created by users, teams, and projects.

**Resource groups** are logical containers where you can deploy and manage Azure resources like virtual machines, web apps, databases, and storage accounts.

**Resources** are instances of services that you can create in a resource group, such as virtual machines, storage, and SQL databases.



**Manage access to your Azure environment with Azure role-based access control ( RBAC )**

Managing who can access your Azure resources and subscriptions. Assigning group-based access rights and privileges. Dealing with groups instead of individual users simplifies maintenance of access policies, provides consistent access management across teams, and reduces configuration errors.

**Actions**

**Grant resource group access:**

**To grant a user access to a resource group:**

Go to Resource groups.

Select a resource group.

Select Access control (IAM).

Select + Add > Add role assignment.

Select a role, and then assign access to a user, group, or service principal.

Grant subscription access:

**To grant a user access to a subscription:**

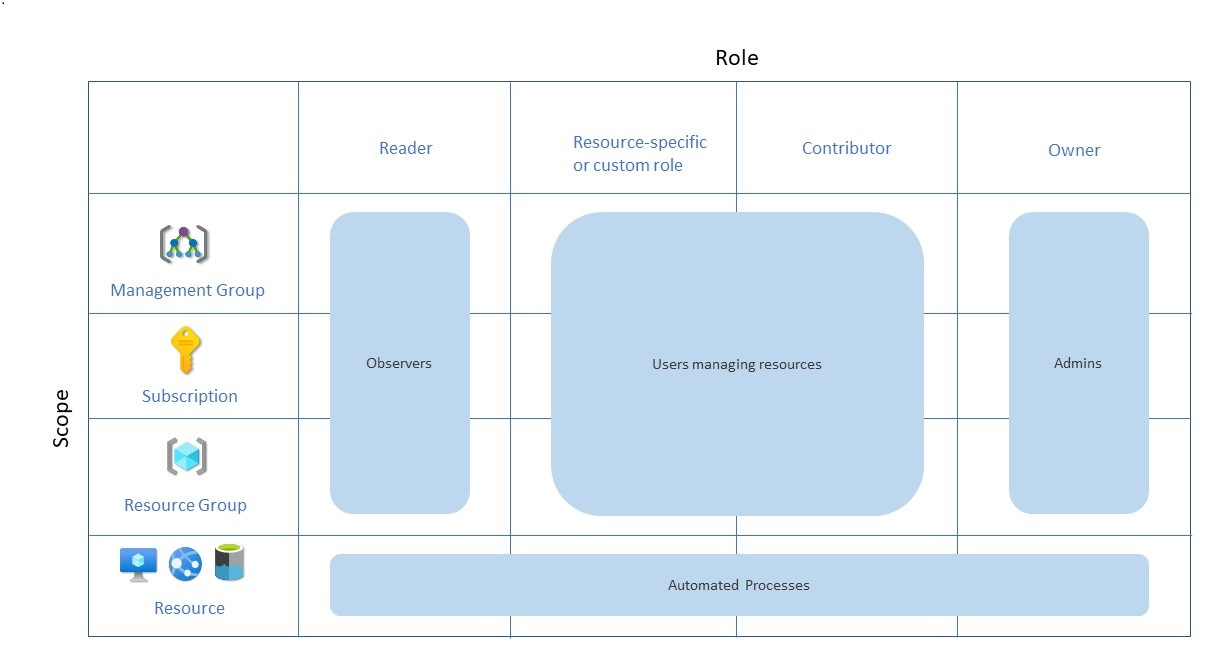
Go to Subscriptions.

Select a subscription.

Select Access control (IAM).

Select + Add > Add role assignment.

Select a role, and then assign access to a user, group, or service principal.



Learn about popular Azure services and create your first Azure project.

.

**Create a web app**

Build and host a web app with Azure Web Apps

Azure App Service lets you build and run web apps using .NET, NodeJS, PHP, Java, Python, .NET Core, HTML5, or Ruby without managing infrastructure

Build and host a web app with Azure Web Apps with a database

Azure App Service lets you build and run web apps using .NET, NodeJS, PHP, Java, Python, .NET Core, HTML5, or Ruby without managing infrastructure.

**Deploy a virtual machine**

Run your workloads in the cloud and reduce the redundancy and maintenance of physical hardware

Create a Windows virtual machine

Provision on-demand, high-scale, secure, virtualized infrastructure using Windows Server

Create a Linux virtual machine

Provision on-demand, high-scale, secure, virtualized infrastructure using Red Hat, Ubuntu, or the Linux distribution of your choice

**Deploy and run a container-based app**

Build and run your container-based applications

Deploy and run a container-based app with Azure Container Instances

Use Azure Container Instances to run serverless Docker containers in Azure with simplicity and speed. Deploy an application to a container instance on-demand when you don't need a full container orchestration platform like Azure Kubernetes Service.

Learn more

Deploy and manage a container-based app with Azure Kubernetes Service (AKS)

Migrate existing applications to containers and run them within the Azure Kubernetes Service (AKS). Control access via integration with Azure Active Directory and connect to SLA-backed Azure Services, such as Azure Database for MySQL using OSBA (Open Service Broker for Azure) for your data needs.

Learn more

Deploy and run a container-based web app with App Service

Bring your own Docker-formatted images to easily deploy and run your containerized web apps with App Service, using its fully-managed platform and integrated CI/CD capabilities

**Set up a database**

Explore options for managing relational or nonrelational databases in the cloud

Develop breakthrough applications with Azure Database for PostgreSQL - Flexible Server

Azure Database for PostgreSQL - Flexible Server is a fully managed database solution that helps build scalable applications, real-time operational analytics, and high throughput transactional applications

Develop web and gaming applications with Azure Database for MySQL - Flexible Server

Azure Database for MySQL - Flexible Server is a fully managed database solution that allows you to focus on application development, not database management

Experience a new class of analytics with Azure Synapse Analytics

Azure Synapse is a limitless analytics service that brings together data integration, enterprise data warehousing, and big data analytics

Build transactional apps with Azure SQL Database

Azure SQL Database is a general-purpose relational database service in Azure that supports structures such as relational data, JSON, spatial, and XML

Create real-time experiences with Azure Cosmos DB

Azure Cosmos DB is a globally-distributed, multi-model database for building highly responsive and highly available applications

**Get started with data analytics, machine learning, and intelligence**

Put machine learning and artificial intelligence to work on your apps

Build and deploy models rapidly with Azure Machine Learning

Azure Machine Learning empowers developers and data scientists with a wide range of productive experiences for building, training, and deploying machine learning models

Add human-like intelligence with Cognitive Services

Azure Cognitive Services helps developers build intelligent applications without having direct AI or data science skills

**Store, back up, or archive data**

Extend data storage to the cloud and leverage it for disaster recovery

Create an Azure Storage account

A general-purpose Azure Storage account supports all your Azure Storage data objects: blobs, files, tables, and queues

Get Started with Azure Blob Storage

Azure Blob Storage provides scalable, durable, and secure object storage for a wide range of scenarios. Create a blob container in your Azure Storage account to get started.

Get Started with Azure Files

Azure Files lets you deploy secure, scalable, and globally accessible cloud file shares that are easy to manage. Create a file share in your Azure Storage account to get started.

**Build, deploy, and operate a serverless app**

Focus on coding within an event-driven architecture, while Azure handles infrastructure-related requirements

Publish APIs across all environments with Azure API Management

Abstract, protect, accelerate, and make all your cloud and on-premises APIs discoverable and consumable by internal and external developers

Serverless event processing using Azure Functions

Build event-driven architectures with Azure Functions to process events or streams of data using .NET, Node.js, Python, PowerShell, or Java

Powerful low-code integration solutions with Azure Logic Apps

Connect your applications and services with Azure Logic Apps, automating your workflows without writing a single line of code

**Deliver virtual desktops and stream remote applications**

Deploy virtual desktop infrastructure in the cloud with

Get started quickly with Azure Virtual Desktop

Quickly deploy a sample environment to evaluate and become familiar with Azure Virtual Desktop. Creates a pooled host pool with a single Win11 multi-session host.

Landing Zone Accelerator

The Azure Virtual Desktop Landing Zone Accelerator(LZA) is a collection of architectural guidance and reference implementation to accelerate the deployment of Azure Virtual Desktop at scale.

Host Pools

Deploy a production deployment using our default host pool creation wizard for Azure Virtual Desktop.