# Guidelines for Azure Cloud Services usage

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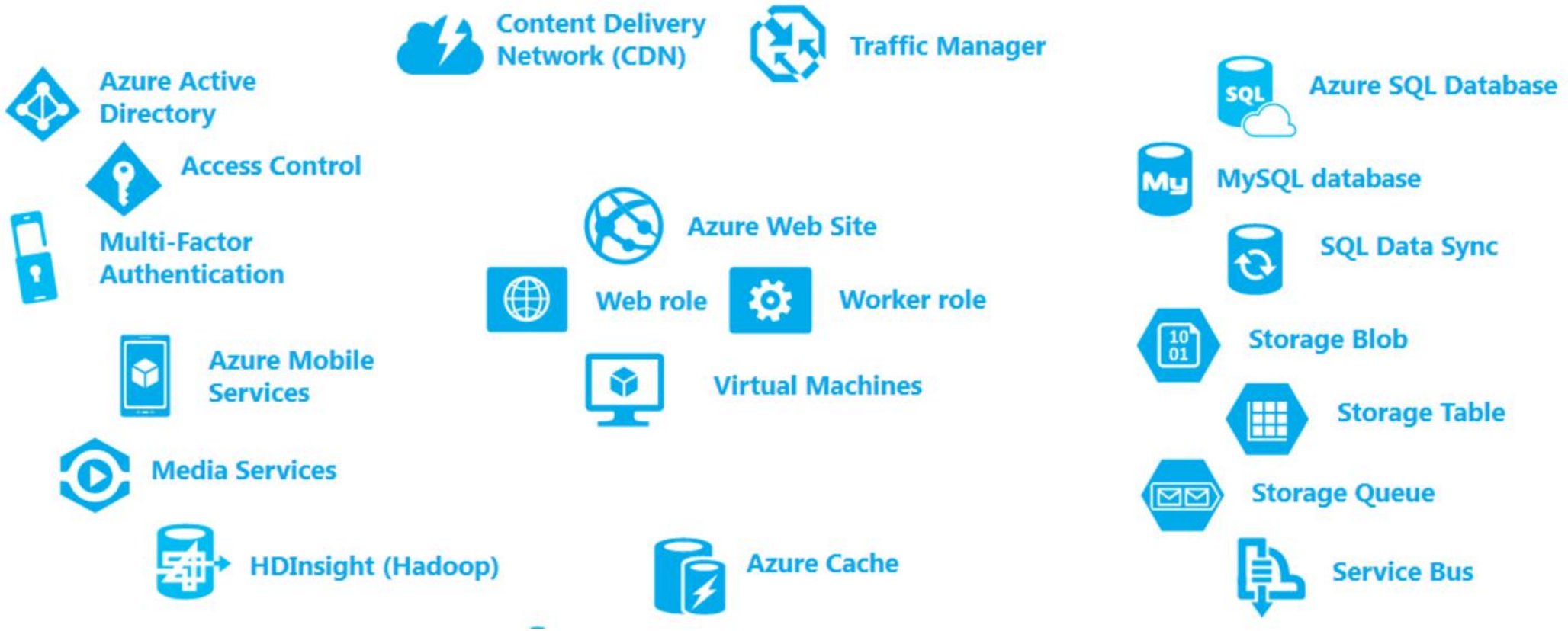
# Azure Cloud Platform



# Guidelines for Azure Cloud Services usage

- **Understand Azure Resource Hierarchy**
  - ✓ Before diving into Azure services, grasp the concept of resource hierarchy, which includes subscriptions, resource groups, and individual resources.
  - ✓ Organize resources logically to enhance management and cost tracking.

- **Leverage Azure Identity and Access Management (IAM)**
  - ✓ Implement the principle of least privilege using Azure IAM.
  - ✓ Assign roles based on job responsibilities to ensure that users and applications have only the necessary permissions, enhancing security.

- **Adopt Azure DevOps for CI/CD**
  - ✓ Embrace Azure DevOps for continuous integration and continuous deployment (CI/CD).
  - ✓ Automate the build and release processes to streamline development, improve code quality, and reduce deployment errors.

- **Implement Azure App Services for Web Apps**
  - ✓ Use Azure App Services for hosting web applications. It provides a fully managed platform, ensuring high availability, scalability, and easy deployment.
  - ✓ Utilize features like deployment slots for testing and staging.

# Guidelines for Azure Cloud Services usage

- **Explore Azure Functions for Serverless Computing**
  - ✓ Leverage Azure Functions for serverless computing to execute code in response to events without the need to manage infrastructure.
  - ✓ Optimize your utilization by using only the required resources for execution.

- **Utilize Azure SQL Database for Relational Data**
  - ✓ When dealing with relational data, prefer Azure SQL Database.
  - ✓ It offers a fully managed and scalable database service with built-in security features.

- **Implement Azure Storage for Scalable Data Solutions**
  - ✓ Choose Azure Storage for scalable and durable data solutions.
  - ✓ Utilize blob storage for large objects, table storage for NoSQL data, and queue storage for building scalable applications.

- **Enable Monitoring and Logging with Azure Monitor**
  - ✓ Implement Azure Monitor for comprehensive monitoring and logging.
  - ✓ Use Azure Monitor to track performance, set up alerts for critical metrics, and gain insights into the health of your applications and resources.

# Mandatory Services

- **Following services are mandatorily required to be in active state for the Sprint Implementation**

  - ✓ Azure App services
  - ✓ Azure SQL database
  - ✓ Azure Logic apps
  - ✓ Azure Storage accounts
  - ✓ Azure Resource groups
  - ✓ Azure Event triggers
  - ✓ Azure BLOB storages
  - ✓ Email Triggers
  - ✓ Azure Function apps
  - ✓ Event Grid
  - ✓ Azure Boards (for backlog management)
  - ✓ Azure DevOps (DevOps Services)

# Non-Mandatory Services

- **Following services are not mandatorily required to be in active state for the Sprint Implementation**

  - ✓ Azure Repos (Git)
  - ✓ Azure Portal
  - ✓ Azure Resource Manager (ARM)
  - ✓ Azure Active Directory (AAD)
  - ✓ Azure Cost Management
  - ✓ Azure Subscriptions
  - ✓ Azure Virtual Network
  - ✓ Azure Storage Accounts
  - ✓ Azure Virtual Machines (VMs)
  - ✓ Azure Load Balancer
  - ✓ Azure Application Gateway
  - ✓ Azure VPN Gateway
  - ✓ Azure ExpressRoute
  - ✓ Azure Cosmos DB
  - ✓ Azure DevTest Labs
  - ✓ Azure Repos (for version control)
  - ✓ Azure Pipelines (for CI/CD)
  - ✓ Azure Test Plans (for testing)
  - ✓ Azure Artifacts (for package management)


Thank You