



# AZ-104: MICROSOFT AZURE ADMINISTRATOR

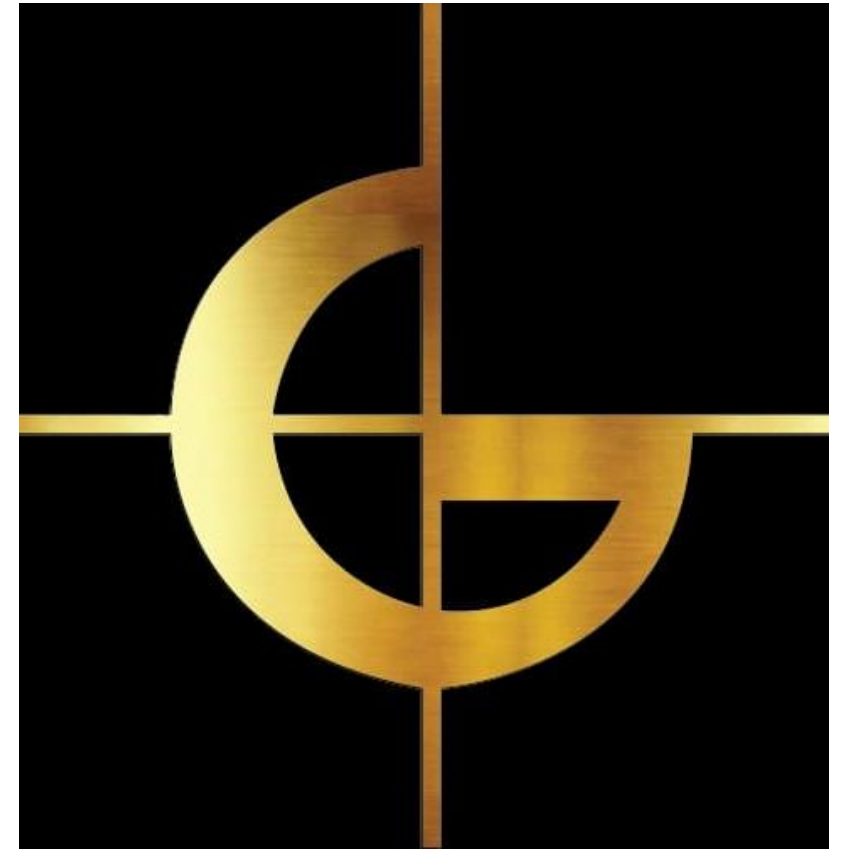
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# GREENS TECHNOLOGIES

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- ✓ Greens Technologies is the name that signifies the best training institute with placement in the field of software testing and programming in the IT sector. We are recognized as the best institute for software and languages course with the most advanced and high-quality trainers. We are always being a channel for many students as well as IT professionals where we take them to the next level and as a result, they get placed in good MNC companies. Apart from the regular learning and training courses we offer language training by good experts to make you as a good masterpiece.
- ✓ Our core competency lies with the advanced and real time experience we have with the current real time experience we have with the current trends in the IT industry. We not only train, but also transform you into a perfect sculpture with our IT development courses for delivering a world class best proven technical solution for various companies.
- ✓ Greens Technologies is One – Stop – Solution for all those who are looking for training and learning programs of all types with placements.

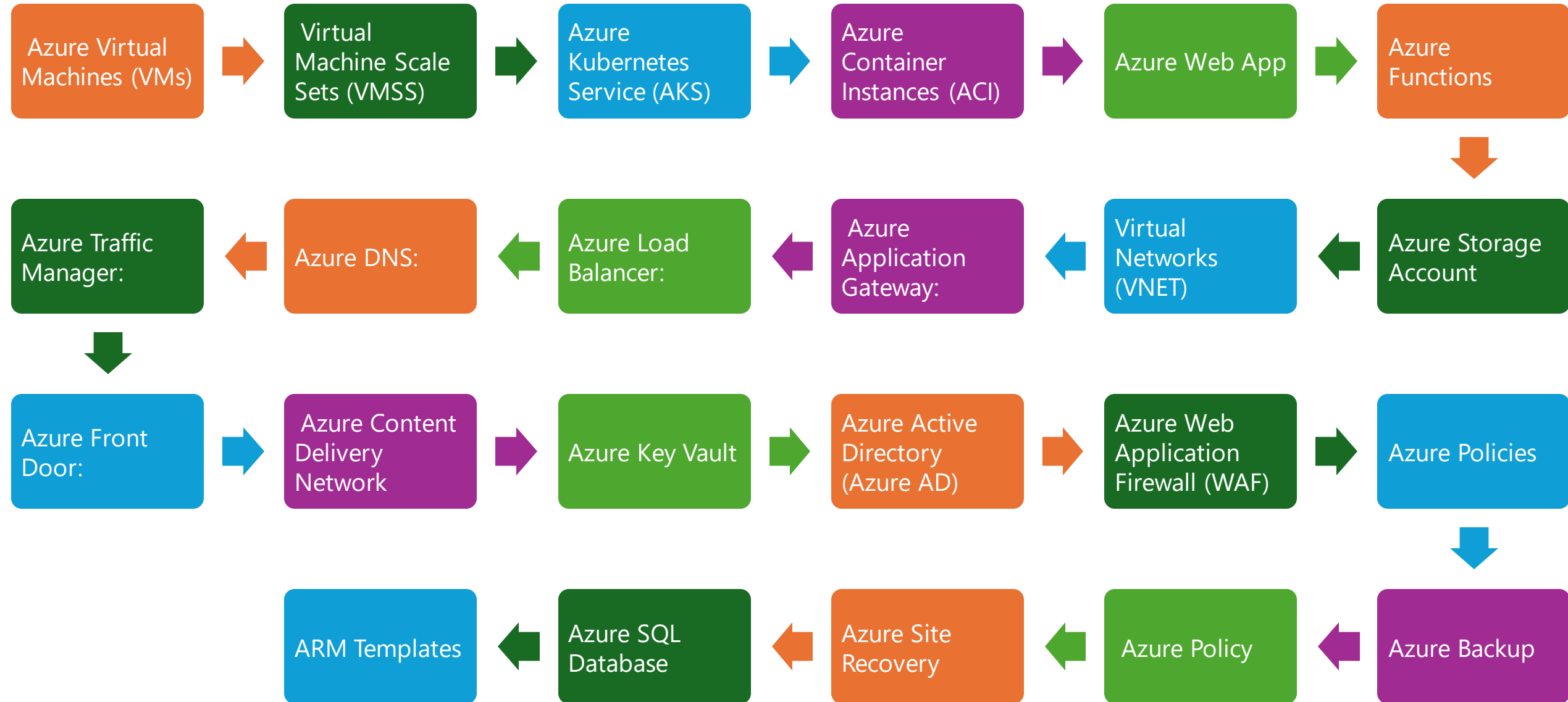


# Why Should You Go for Microsoft Azure Certification Training?

- ❑ Getting a Microsoft Azure Certification will enhance your Career growth and get you more job opportunities as organizations now seek candidates with additional added values in their profile.
- ❑ By getting a Microsoft Azure Certification you earn career flexibility. Yes, on learning Azure and becoming skilled in that particular course, you can become a solution architect, developer or a cloud architect.
- ❑ On choosing Azure training in an accredited institution you get almost every topic and concept that is corned with Azure covered, the curriculum we follow is structured and efficient.
- ❑ Microsoft Azure Certification will get you a high pay scale and opportunities in industries worldwide so that your career options are wide and not restricted.
- ❑ This Certificate will be an advantage. Most of the recent projects come with this technology and so pursuing this training will get you more recognition.

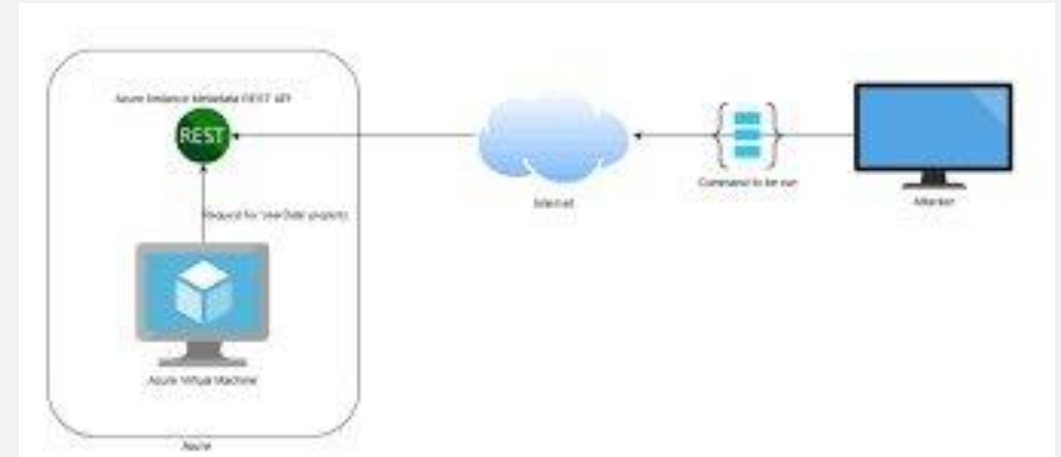


# Content Over View



# 1. Azure Virtual Machines (VMs)

- Azure Portal Overview
- Azure Regions
- Introduction to Azure VMs
- Creating and configuring Azure VMs
- Azure Disk encryption
- Fault domain & Update Domain
- Proximity group
- General Purpose Volume types
- Best practices for Azure VMs



## 2. Virtual Machine Scale Sets (VMSS)

- Overview of VMSS
- Creating and configuring VMSS
- Autoscaling in VMSS
- Integrating VMSS with Azure Load Balancer



## 3. Azure Kubernetes Service (AKS)

- Introduction to AKS
- Creating and managing AKS clusters
- Kubernetes Overview - pods, Containers, Services, deployment, replicaset.
- kubernetes Architecture
- Deploying and managing containerized applications
- Integrating AKS with Azure Container Registry

## 4. Azure Container Instances (ACI)

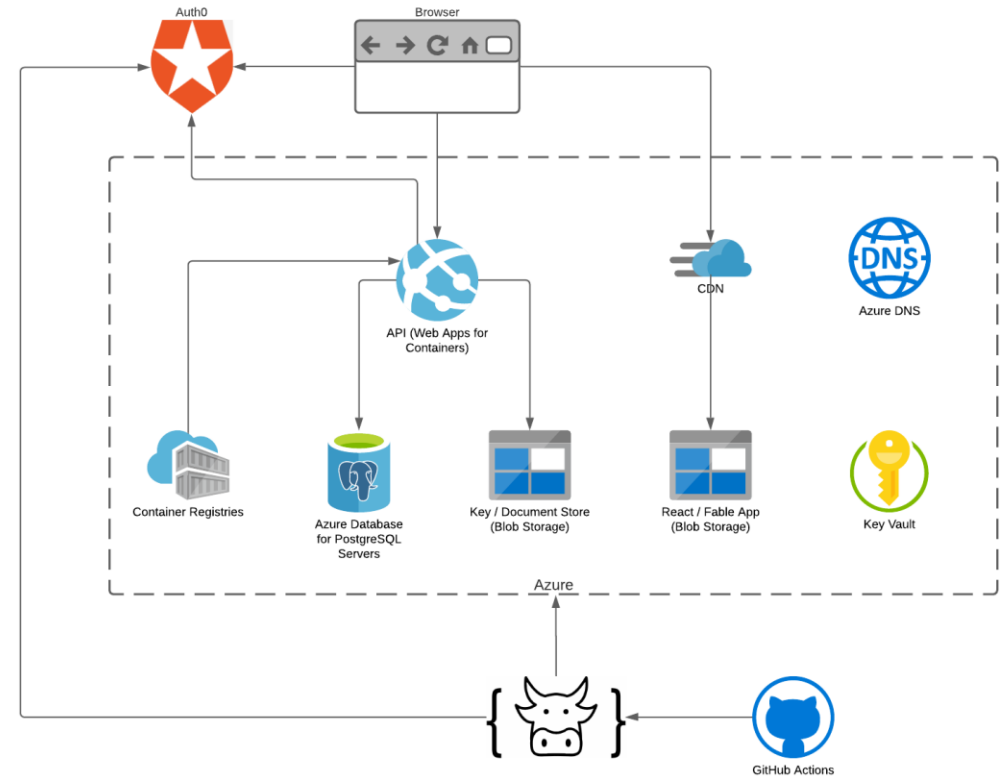
- Overview of Azure Container Instances
- Creating and deploying containers in ACI
- Best practices for Azure Container Instance.

## 5. Azure Web App

- Introduction to Azure Web Apps
- Creating and configuring web apps
- Deployment slots in Azure
- Azure Web App security best practices

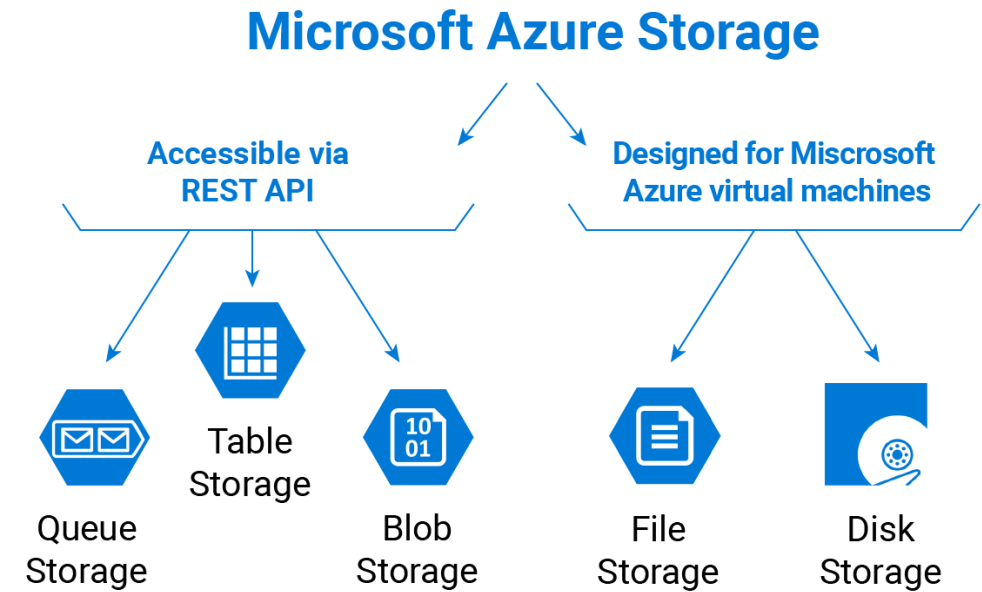
## 6. Azure Functions

- Serverless computing overview
- Creating and deploying Azure Functions
- Trigger types and bindings



# 7. Azure Storage Account

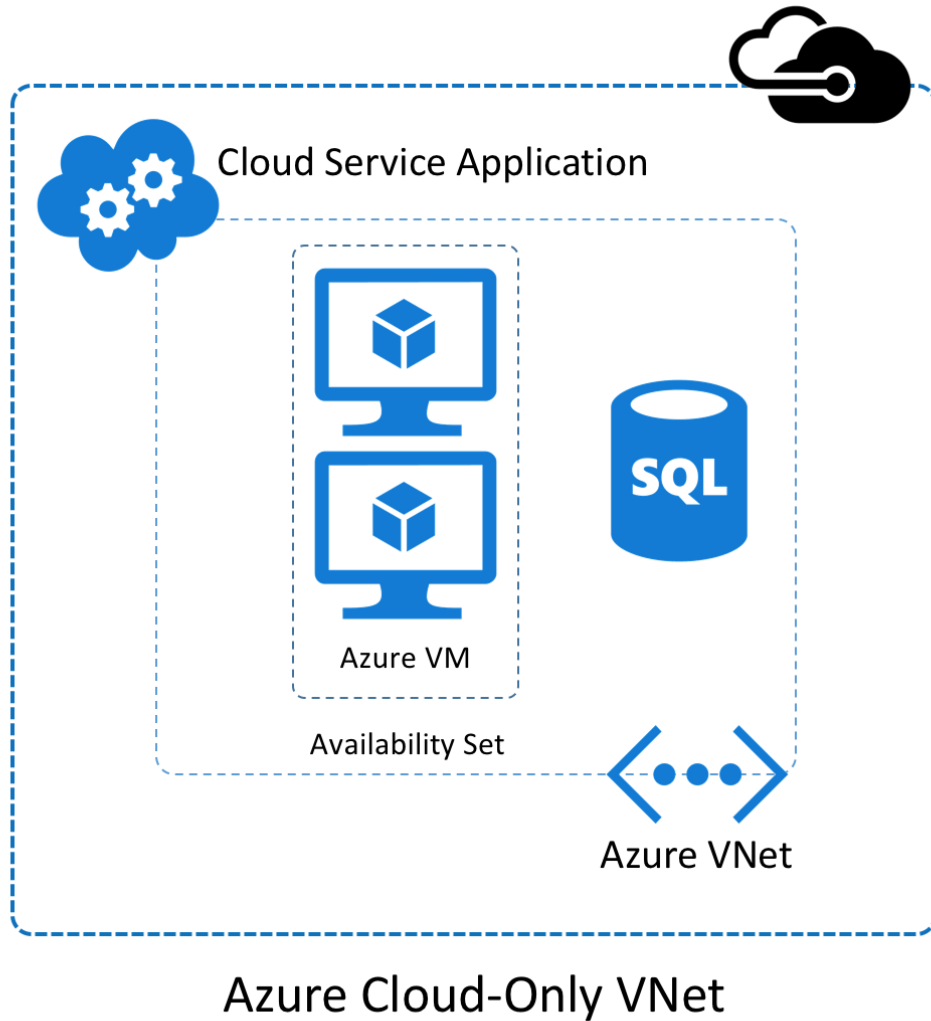
- Key benefits of using Azure Storage
- Overview of storage account types (General Purpose v1, General Purpose v2, Blob Storage)
- Azure Blob Storage
- Blob Storage concepts (Containers, Blobs)
- Blob Types (Block Blobs, Append Blobs, Page Blobs)
- Blob Storage security (Shared Access Signatures)
- Blob Storage lifecycle management
- Blob Storage versioning and soft delete
- Azure Queue Storage
- Queue Storage concepts (Queues, Messages)
- How to create and manage queues
- Azure Table Storage
- Introduction to Table Storage
- Table Storage concepts (Tables, Entities, Properties)
- How to create and manage tables
- Configuring Azure Files and Azure Blob Storage





## 8. Virtual Networks (VNET)

- Introduction to Microsoft Azure Networking
- Basics of networking concepts in Azure
- Creating and configuring Virtual Networks
- Subnetting and address spaces
- Network Security Groups (NSG)
- Introduction to Network Security Groups
- Creating and configuring NSGs
- Implementing security rules and restrictions
- Best practices for NSG usage
- Introduction to (ASG)



- Creating and configuring ASG
- Implementing security rules and restrictions
- Best practices for ASG usage
- Introduction to VNET Peering:
- Understanding Virtual Network Peering
- Establishing VNET peering connections
- Azure Network Watcher Overview
- Monitoring and diagnosing network performance
- Troubleshooting network connectivity issues
- Implementing security recommendations and best practices



## 9. Azure Application Gateway

- Overview of Azure Application Gateway
- Azure Application Gateway features
- Configuration and deployment of Application Gateway
- Load balancing techniques and routing methods
- SSL termination and web application firewall (WAF) integration
- Backend Pools and health probes
- Integrating WAF with application Gateway



Load Balancers



Application Gateway



Front Doors



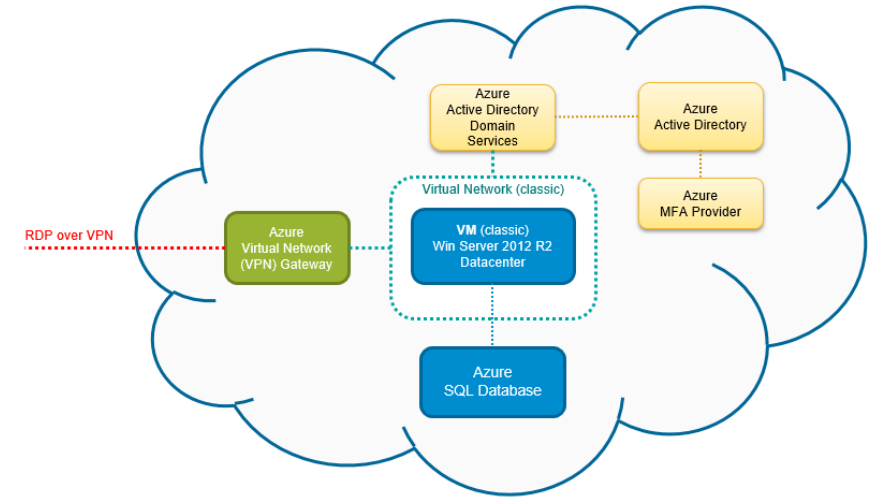
Traffic Manager

## 10. Azure Load Balancer

- Understanding Azure Load Balancer
- Configuring Load Balancer for high availability
- Types of Load Balancing (Internal and External)
- Health probes and traffic distribution methods

## 11. Azure DNS

- Introduction to Azure DNS
- Public hosted zone & Private hosted zone.
- Configuring DNS zones and records
- DNS resolution



## 12. Azure Traffic Manager

- Implementing DNS-based traffic routing
- Traffic routing methods (Priority, Weighted, Geographic, Performance)

## 13. Azure Front Door

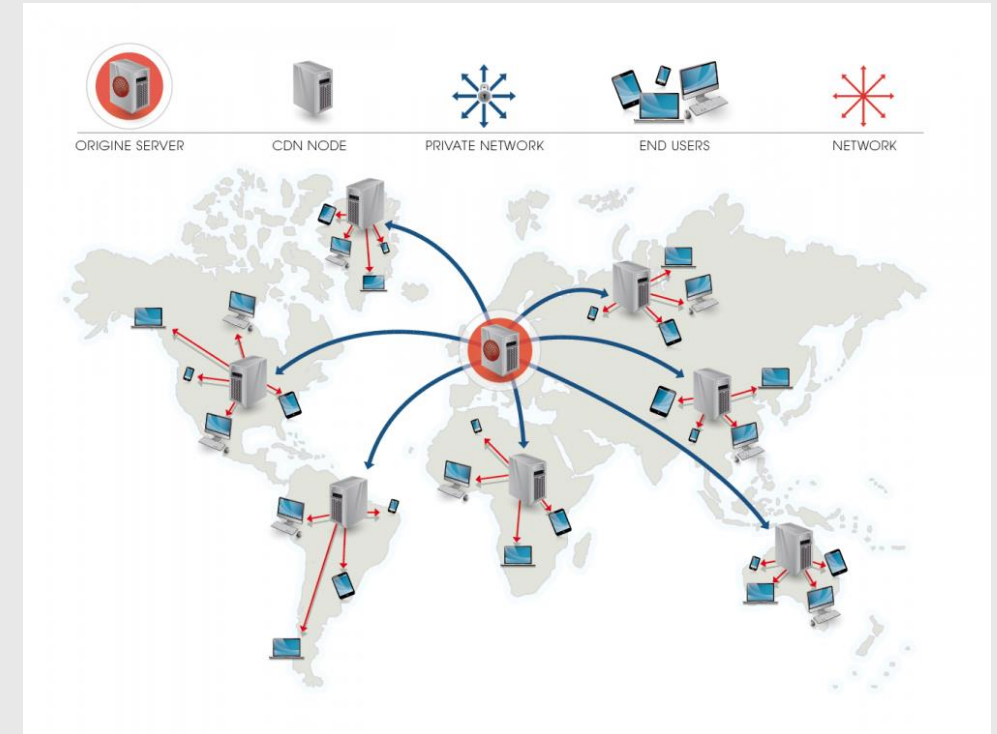
- Introduction to Azure Front Door service
- Configuring and managing Front Door for global load balancing
- Security features and routing policies

## 14. Azure Content Delivery Network

- Understanding Content Delivery Networks
- Configuring Azure CDN endpoint
- Content caching and delivery optimizations
- Monitoring and analytics for CDN performance

## 15. Azure Key Vault

- Importance of Security and Compliance in Cloud
- Introduction to Azure Key Vault
- Key Vault Architecture and Components
- Key Vault Access Control
- Key Vault Secrets



## 16. Azure Active Directory (Azure AD)

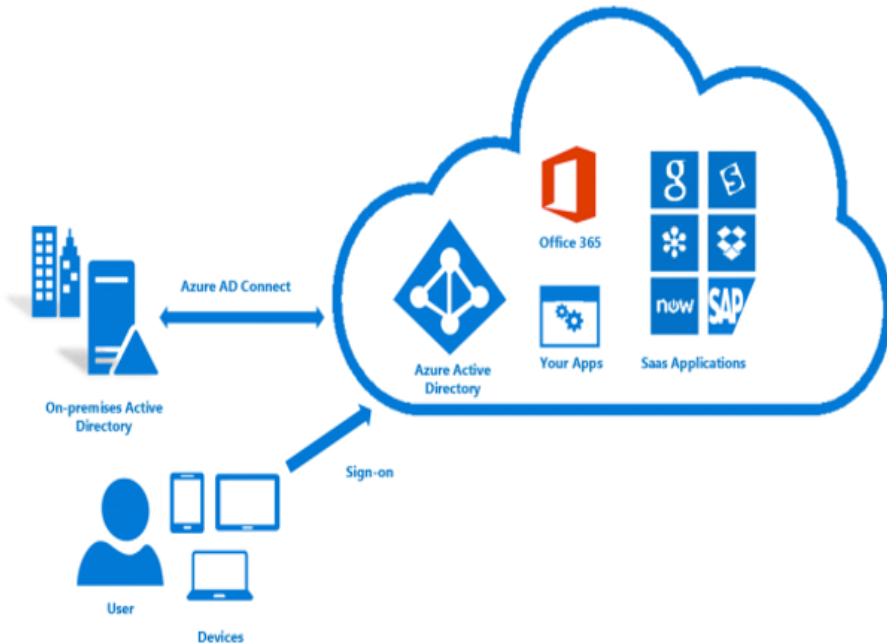
- Overview of Azure AD
- Azure AD Identity and Access Management
- Azure AD Multi-Factor Authentication

## 17. Azure Web Application Firewall (WAF)

- Introduction to Azure WAF
- WAF Policies and Rules
- Configuring WAF for Application Security

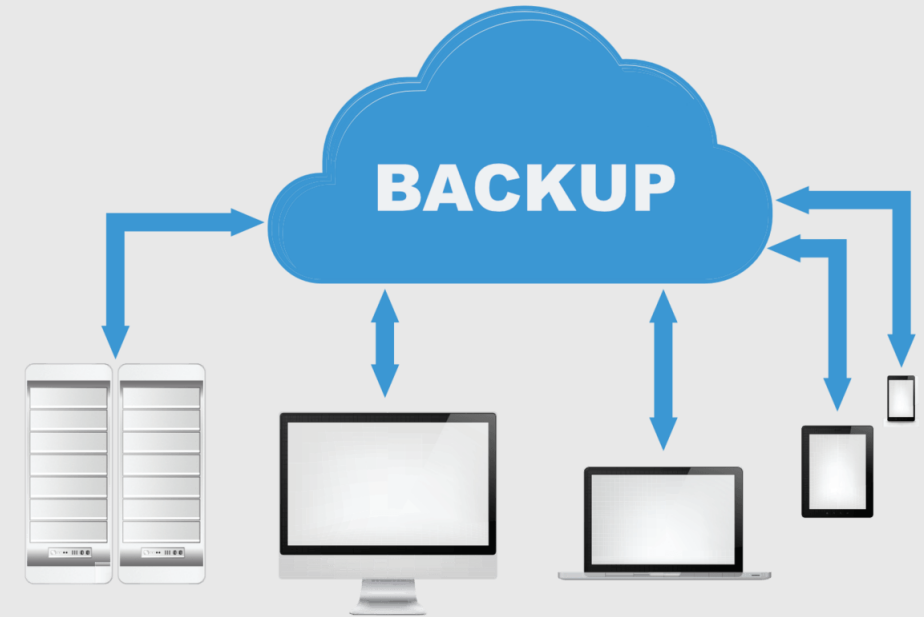
## 18. Azure Policies

- Introduction to Azure Policies
- Defining and Assigning Azure Policies
- Custom Policy Definitions
- Remediation Actions with Azure Policies



## 19. Azure Backup

- Creating and configuring backup policies
- Configuring backup for Azure Virtual Machines
- Configuring backup for Azure Files
- Managing backup data retention
- Reviewing backup reports
- Implementing encryption for backup data



## 20. Azure Policy

- Creating custom policies
- Assigning policies to resources and resource groups
- Understanding built-in policies
- Understanding policy enforcement and remediation
- Configuring policy effects such as deny, audit, and deploy If Not Exists

## 21. Azure Site Recovery

- RTO & RPO
- Planning for Azure Site Recovery deployment
- Initiating failover and failback operations
- Azure Site Recovery integration with Azure Virtual Machines
- Configuring recovery plans





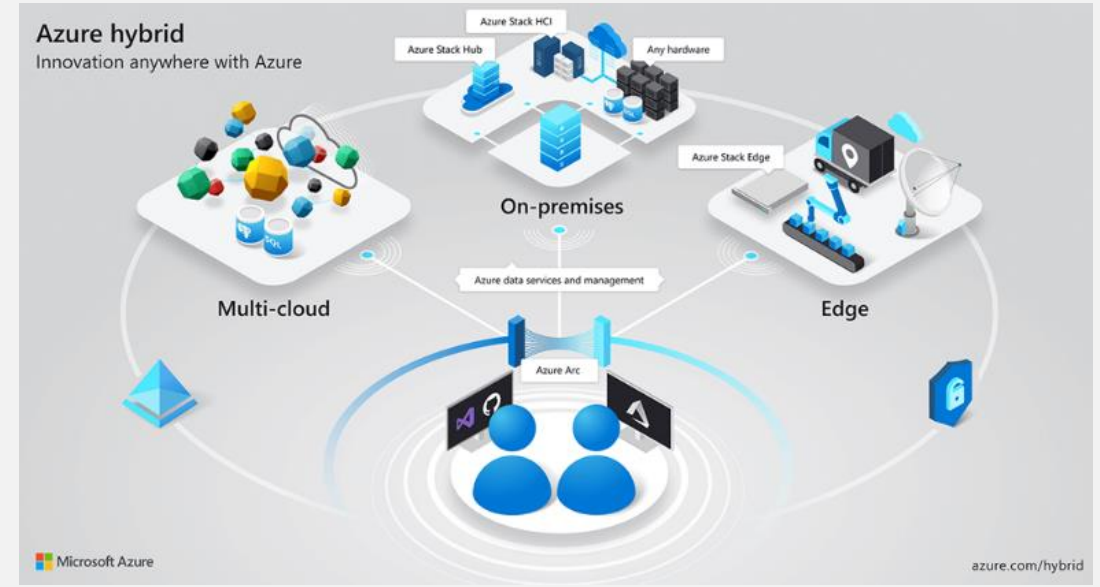
## 22. Azure SQL Database

- Understanding the Basics of Databases
- Types of Databases: SQL vs. NoSQL
- Overview of SQL Database and Cosmos DB
- Relational Databases and SQL Basics
- Introduction to Relational Databases
- Overview of NoSQL databases
- Introduction to Azure Cosmos DB
- SQL Language Fundamentals
- Data Types, Operators, and Expressions
- Basic SQL Queries: SELECT, INSERT, UPDATE, DELETE



## 23. ARM Templates

- What are ARM templates?
- Why use ARM templates for Azure resource deployment?
- Template structure and syntax
- Key components of an ARM template
- Best practices for collaboration and versioning
- Overview of ARM template functions
- Single resource deployments





**Thank You**

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