

SQL School TM

Quality Training Assured

Complete Practical; Real-time Job Oriented Training

Azure Administrator

Applicable for AZ-104 Certification

Azure Admin Training	
Modules Includes	Training Details
1. Azure Fundamentals, Cloud Implementations	100% Real-time and Practical
2. SaaS, IaaS & PaaS Implementation Concepts	Duration : 4 Weeks
3. Azure Storage Components and Tools	Concept wise Examples: Included
4. Azure Virtual Machines and Virtual Networks	Concept wise Tasks: Included
5. Azure Security Compliance Concepts	Concept wise FAQs: Included
6. Backups, Recovery, HA-DR & Troubleshooting	End to End Implementation: Included

Trainer: Mr. Sai Phanindra T [15+ Yrs of Real-time Exp]. Profile @ [linkedin.com/in/saiphanindra](https://www.linkedin.com/in/saiphanindra)

Module 1: Azure Fundamentals [AZ 900]

Chapter 1 : Describe the benefits and considerations of using cloud services

Describe terms such as High Availability, Scalability, Elasticity, Agility, Fault Tolerance, Disaster Recovery; describe the principles of economies of scale; describe the differences between Capital Expenditure (CapEx) and Operational Expenditure (OpEx); describe the consumption-based model

Chapter 2 : Describe the differences

Between Infrastructure-as-a-Service (IaaS), Platform-as-a-Service (PaaS) and Software-as-a-Service (SaaS); describe Infrastructure-as-a-Service (IaaS); describe Platform-as-a-Service (PaaS); describe Software-as-a-Service (SaaS); compare and contrast the three different service types

Chapter 3 : Describe the differences between Public, Private and Hybrid cloud models

Describe Public cloud; describe Private cloud; describe Hybrid cloud; compare & contrast three different cloud models

Chapter 4 : Describe the core Azure architectural components

Describe Regions; describe Availability Zones; describe Resource Groups; describe Azure Resource Manager;

describe the benefits and usage of core Azure architectural components

Chapter 5 : Describe some of the core products available in Azure

Describe products available for Compute such as Virtual Machines, Virtual Machine Scale Sets, App Services, Azure Container Instances (ACI) and Azure Kubernetes Service (AKS); describe products available for Networking such as Virtual Network, Load Balancer, VPN Gateway, Application Gateway and Content Delivery Network; describe products available for Storage such as Blob Storage, Disk Storage, File Storage, and Archive Storage; describe products available for Databases such as Cosmos DB, Azure SQL Database, Azure Database for MySQL, Azure Database for PostgreSQL, Azure Database Migration service; describe the Azure Marketplace & scenarios;

Chapter 6 : Describe some of the solutions available on Azure

Describe Internet of Things (IoT) and products that are available for IoT on Azure such as IoT Hub and IoT Central; describe Big Data and Analytics and products that are available for Big Data and Analytics such as Azure Synapse Analytics, HDInsight, and Azure Databricks; describe Artificial Intelligence (AI) and products that are available for AI such as Azure Machine Learning Service and Studio; describe Serverless computing and Azure products that are available for serverless computing such as Azure Functions, Logic Apps, and Event Grid; describe DevOps solutions available on Azure such as Azure DevOps and Azure DevTestLabs; describe the benefits and outcomes of using Azure solutions;

Chapter 7 : Describe Azure Management Tools

Describe Azure tools such as Azure Portal, Azure PowerShell, Azure CLI and Cloud Shell; Azure Advisor

Chapter 8 : Describe securing network connectivity in Azure

Describe Network Security Groups (NSG); describe Application Security Groups (ASG); describe User Defined Rules (UDR); describe Azure Firewall; describe Azure DDoS Protection; choose an appropriate Azure security solution;

Chapter 9 : Describe core Azure Identity services

Describe the difference between authentication and authorization; describe Azure Active Directory; describe Azure Multi-Factor Authentication;

Chapter 10 : Describe security tools and Features of Azure

Describe Azure Security Center; describe Azure Security Center usage scenarios; describe Key Vault; describe Azure Information Protection (AIP); describe Azure Advanced Threat Protection (ATP);

Chapter 11 : Describe Azure Governance Methodologies

Describe policies and initiatives with Azure Policy; describe Role-Based Access Control (RBAC); describe Locks; describe Azure Advisor security assistance; describe Azure Blueprints;

Chapter 12 : Describe monitoring and reporting options in Azure

Describe Azure Monitor; describe Azure Service Health; describe the use cases and benefits of Azure Monitor and Azure Service Health;

Chapter 13 : Describe Privacy, Compliance and Data Protection Standards in Azure

Describe industry compliance terms such as GDPR, ISO and NIST; describe the Microsoft Privacy Statement; describe the Trust center; describe the Service Trust Portal; describe Compliance Manager; determine if Azure is compliant for a business need; describe Azure Government cloud services; describe Azure China cloud services;

Chapter 14 : Describe Azure Subscriptions

Describe an Azure Subscription; describe the uses and options with Azure subscriptions such access control and offer types; describe subscription management using Management groups;

Chapter 15 : Describe Planning and Management of Costs

Describe options for purchasing Azure products and services; describe options around Azure Free account; describe the factors affecting costs such as resource types, services, locations, ingress and egress traffic; describe Zones for billing purposes; describe the Pricing calculator; describe the Total Cost of Ownership (TCO) calculator; describe best practices for minimizing Azure costs such as performing cost analysis, creating spending limits and quotas, using tags to identify cost owners, using Azure reservations and using Azure Advisor recommendations; describe Azure Cost Management;

Chapter 16 : Describe Azure Service Level Agreements (SLAs)

Describe a Service Level Agreement (SLA); describe Composite SLAs; describe how to determine an appropriate SLA for an application;

Chapter 17 : Describe Service Lifecycle in Azure

Describe Public and Private Preview features; describe the term General Availability (GA); describe how to monitor feature updates and product changes;

Module 2: Azure Admin [AZ 104]

Chapter 1: Manage Azure AD Objects

Create users and groups; manage user and group properties; manage device settings; perform bulk user updates; manage guest accounts; configure Azure AD Join; configure self-service password reset;

Chapter 2: Manage Role-Based Access Control (RBAC)

Create a custom role; provide access to Azure resources by assigning roles; subscriptions; resource groups; resources (VM, disk, etc.); interpret access assignments; manage multiple directories;

Chapter 3: Manage Subscriptions and Governance

Configure Azure policies; configure resource locks; apply tags; create and manage resource groups; remove resources; remove RGs; manage subscriptions; configure Cost Management; configure management groups;

Chapter 4: Manage Storage Accounts

Configure network access to storage accounts; create and configure storage accounts; generate shared access signature; manage access keys; implement Azure storage replication; configure Azure AD Authentication for a storage account

Chapter 5: Manage data in Azure Storage

Export from Azure job; import into Azure job; install and use Azure Storage Explorer; copy data by using AZCopy;

Chapter 6: Configure Azure files and Azure Blob sStorage

Create an Azure file share; create and configure Azure File Sync service; configure Azure blob storage;

configure storage tiers for Azure blobs;
<p>Chapter 7: Configure VMs for High Availability and Scalability configure high availability; deploy and configure scale sets;</p>
<p>Chapter 8: Automate Deployment and configuration of VMs Modify Azure Resource Manager (ARM) template; onfigure VHD template; deploy from template; save a deployment as an ARM template; automate configuration management by using custom script extensions;</p>
<p>Chapter 9: Create and configure VMs Configure Azure Disk Encryption; move VMs from one resource group to another; manage VM sizes; add data discs; configure networking; redeploy VMs;</p>
<p>Chapter 10: Create and configure Containers Create and configure Azure Kubernetes Service (AKS);create and configure Azure Container Instances (ACI); container registry settings;</p>
<p>Chapter 11: Create and configure Web Apps Create and configure App Service; create and configure App Service Plans;</p>
<p>Chapter 12: Implement and Manage Virtual Networking Create and configure VNET peering; configure private and public IP addresses, network routes, network interface, subnets, and virtual network;</p>
<p>Chapter 13: Configure Name Resolution Configure Azure DNS; configure custom DNS settings; configure a private or public DNS zone;</p>
<p>Chapter 14: Secure access to Virtual Networks Create security rules; associate an NSG to a subnet or network interface; evaluate effective security rules; deploy and configure Azure Firewall; deploy and configure Azure Bastion Service; DDoS;</p>
<p>Chapter 15: Configure Load Balancing Configure Application Gateway; configure an internal load balancer; configure load balancing rules; configure a public load balancer; troubleshoot load balancing;</p>
<p>Chapter 16: Monitor and Troubleshoot Virtual Networking Monitor on-premises connectivity; use Network Performance Monitor; use Network Watcher; troubleshoot external networking; troubleshoot virtual network connectivity;</p>
<p>Chapter 17: Integrate an On-Premises Network with an Azure Virtual Network Create and configure Azure VPN Gateway; create and configure VPNs; configure ExpressRoute; configure Azure Virtual WAN;</p>
<p>Chapter 18: Monitor Resources by using Azure Monitor Configure and interpret metrics; analyze metrics across subscriptions; configure Log Analytics; implement a Log Analytics workspace; configure diagnostic settings; query and analyze logs; create a</p>

query; save a query to the dashboard; interpret graphs; set up alerts and actions; create and test alerts; create action groups; view alerts in Azure Monitor; analyze alerts across subscriptions; onfigure Application Insights;

Chapter 19: Implement Backup and Recovery

Configure and review backup reports; perform backup and restore operations by using Azure Backup Service; create a Recovery Services Vault; use soft delete to recover Azure VMs; create and configure backup policy; perform site-to-site recovery by using Azure Site Recovery;

AZ 900 & AZ 104 - Certification Guidance

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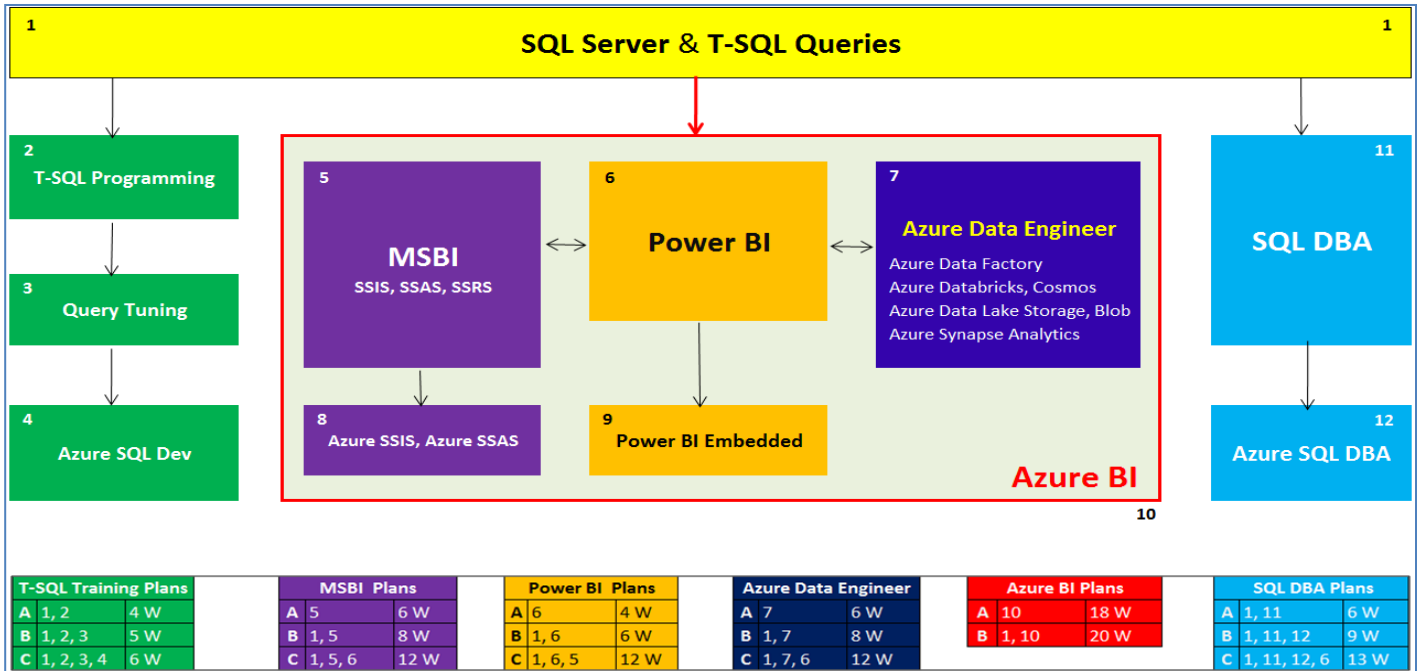
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