

Azure Administrator Syllabus 2024

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(P) Practical & LAB

Day-1

Cloud Computing Concepts

About cloud computing
Shared responsibilities Models
Cloud Deployment Models
Infrastructure-as-a-Service (IaaS)
Platform-as-a-Service (PaaS)
Software-as-a-Service (SaaS)
Public cloud
Private Cloud
Hybrid Cloud
Azure regions, region pairs, and sovereign regions
Availability Zones
Azure datacenters

Day-2

Azure Subscription & Resource Management

Azure Portal Overview (P)
Azure Subscription Plans
Azure Subscription management
Azure Resource Groups overview
Azure Resource Locks (P)
Azure Billing monitoring (P)
Azure cost analyze and budget forecast (P)

Day-3

Design Compute Infrastructure Part-1

Azure Virtual machines sizes and usage (P)
Azure Virtual machine spec resize (P)
Data Disk remapping & resize methods (P)
Design solutions using virtual machines windows and Ubuntu (P)
Azure VM Windows & Linux troubleshooting (P)

Azure VM password reset and user creation from console (P)

Day-4

Design Compute Infrastructure Part-2

Azure VM image gallery overview (P)

Azure VM create from custom image (P)

Azure Key vault management (P)

Configure Azure Disk Encryption (P)

Day-5

Design Security and Identity Solutions

RBAC(Role Based Access Control) (P)

Azure resource access permission apply using RBAC (P)

Microsoft Entra (AAD) administration discuss about license types

Microsoft Entra (AAD) users and guest user create and apply administrative roles (P)

Install and configure Azure AD Connect (P)

Day-6

Design Networking Implementation Part-1

Design Azure virtual networks (P)

Create and configure Network Security Groups (P)

Create and configure IP Address (P)

Network Troubleshooting (P)

Virtual Network Local & Global Peering (P)

Azure VPN Gateway

Day-7

Design Networking Implementation Part-2

Azure Load balancer Types

Design for load balancing using Azure Load Balancer (P)

Azure Availability Zones (P)

Microsoft Defender (P)

Azure Advisor Recommendation Service (P)

Day-8

Azure Monitoring

Tagging, Activity Log analysis (P)
Azure Resource Monitoring (P)
Describe Azure Monitor Components
Analyze the metric log and export the log (P)
Azure insight implementation (P)
Azure resources performance reports generate (P)
Create alerts for email and SMS notification (P)

Day-9

Design Data Implementation Part-1

Azure Storage Account Replication LRS, ZRS , GRS (P)
Azure Blob Storage, blob tiers, Azure Files, disks, Table and queues
Configure the Azure Blob (P)
Blob Life Cycle Management
Configure and mount the Azure File (P)
Design for Azure Storage solutions, Permissions

Day-10

Design Data Implementation Part-2

Blob snapshot and Soft delete management (P)
Azure Blob, Storage account recovery (P)
Shared Access Signature and Storage Keys (P)
Manage access keys (P)
Azure Storage Explorer (P)

Day-11

Azure PowerShell

Azure PowerShell & CLI overview (P)
Azure resource deployment using Cloud shell
Azure resource deployment using PowerShell script (P)
Azure resource administration using script (P)

Day-12

Azure Web App (PAAS)

Create and manage Azure web application

Azure Application Service plans

Azure Web app Deployment (P)

App scale up and Scale Out plan (P)

Azure app deployment methods (P)

Day-13

Azure Data Protection Part-1

Azure Disk snapshot Management (P)

Create Azure Disk Snapshot (P)

Azure Recovery service Vault (P)

Azure Backup Center

Azure Backup Vaults

Azure Backup types

Day-14

Azure Data Protection Part-2

Azure Backup VM backup & Restore (P)

Azure File Share backup & Restore (P)

Azure Backup Job monitoring (P)

Azure Backup log analysis (P)

Azure Migrate Service

Azure Migration Concepts

Day-15

Azure Help & Support and Interview tips

Azure ticket creation (P)

Azure support plans (P)

Azure calculator (P)