55372: Microsoft® Azure® Advanced Administration

Duration: 5 Days
Method: Instructor-Led Training (ILT) | Live Online Training

Course Description

This course will give participants a more in-depth knowledge of Azure services. Participants will learn how to administer and architect a solution. Other lessons include virtualisation, automation, networking, storage, identity, security, data platform, and application infrastructure. This course outlines how decisions in each of these areas affect an overall solution.

Target Audience

This course is intended for:

- IT Professionals with expertise in designing and implementing solutions running on Microsoft Azure
- Azure Administrators who have some experience with Azure.

Prerequisites

To attend this course, candidates must have:

- Broad knowledge of IT operations, including networking, virtualisation, identity, security, business continuity, disaster recovery, data platform, budgeting, and governance.
- Basic skills and knowledge of Azure administration.

Course Objectives

Upon successful completion of this course, attendees will be able to:

- Administer Azure services with deep knowledge and understanding.

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Tel: 876-978-1107 / 876-978-1486
WhatsApp: 876-978-9353
E-Mail: training@RWTTS.com | **Website:** www.RWTTS.com

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Course Topics

Module 1: Implement Azure Active Directory®
- Overview of Azure Active Directory
- Users and Groups
- Administrative Units
- Domains and Custom Domains
- Azure AD Identity Protection
- Implement Conditional Access
- Configure Guest Users (B2B) in Azure AD
- Manage Multiple Directories
- Azure AD Identity Governance
- Access Reviews
- Access Packages
- Privileged Identity Management

Module 2: Implement and Manage Hybrid Identities
- Install and Configure Azure AD Connect
- Configure Password Sync and Password Writeback
- Configure Azure AD Connect Health
- Configure Cloud Sync

Module 3: Implement Virtual Networking
- Virtual Networking
- Virtual Network Peering
- VPNs
- Advanced Virtual Networking

Module 4: Implement VMs for Windows and Linux
- Select Virtual Machine Size
- Configure High Availability

- Proximity Placement Groups
- Implement Azure Dedicated Hosts
- Deploy and Configure Scale Sets
- Configure Azure Disk Encryption
- Other Features
- Auto Manage
- Configuration Management
- Change Tracking
- Inventory

Module 5: Implement Load Balancing and Network Security
- Implement Azure Load Balancer
- Implement an Application Gateway
- Understand Web Application Firewall
- Implement Azure Firewall
- Implement Azure Front Door
- Implementing Azure Traffic Manager
- Implement Network Security Groups and Application Security Groups
- Implement Azure Bastion

Module 6: Implement Storage Accounts
- Storage Accounts
- Blob Storage
- Storage Security
- Managing Storage
- Accessing Blobs and Queues Using AAD

Module 7: Implement NoSQL Databases
- Configure Storage Account Tables
- Select Appropriate CosmosDB APIs

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Module 8: Implement Azure SQL Databases

- Configure Azure SQL Database Settings
- Implement Azure SQL Database Managed Instances
- High-Availability and Azure SQL Database

Module 9: Automate Deployment and Configuration of Resources

- Azure Resource Manager Templates
- Save a Template for a VM
- Evaluate the Location of New Resources
- Configure a Virtual Hard Disk Template
- Deploy From a Template
- Create and Deploy Bicep Templates
- Create and Execute an Automation Runbook

Module 10: Implement and Manage Azure Governance

- Create Management Groups, Subscriptions, and Resource Groups
- Overview of Role-Based Access Control (RBAC)
- Role-Based Access Control (RBAC) Roles
- Implement and Configure an Azure Policy
- Azure Blueprints

Module 11: Manage Security for Applications

- Azure Key Vault
- Azure Managed Identity

Module 12: Manage Workloads in Azure

- Migrate Workloads Using Azure Migrate
- VMware - Agentless Migration
- VMware - Agent-Based Migration
- Implement Azure Backup
- Azure to Azure Site Recovery
- Implement Azure Update Management

Course Topics *Continued*

Module 13: Implement Container-Based Applications
- Azure Container Instances
- Configure Azure Kubernetes Service
- Networking
- Node Pools Types and usages
- Upgrading Clusters
- Upgrading Nodes

Module 14: Implement an Application Infrastructure
- Create and Configure Azure App Service
- Create an App Service Web App for Containers
- Create and Configure an App Service Plan
- Configure Networking for an App Service
- Create and Manage Deployment Slots
- Implement Logic Apps
- Implement Azure Functions

Module 15: Implement Cloud Infrastructure Monitoring
- Azure Infrastructure Security Monitoring
- Azure Monitor
- Azure Workbooks
- Azure Alerts
- Log Analytics
- Defender for Cloud
- Network Watcher
- Azure Service Health
- Monitor Azure Costs
- Azure Application Insights
- Unified Monitoring in Azure

LABS INCLUDED

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