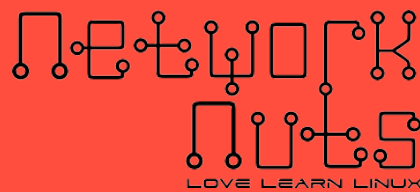




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AZURE AZ-301

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Program Overview - AZ-301

in this course, you'll:

- Determine Workload Requirements
- Design Identity Management
- Design a Data Solution
- Establish Business Continuity
- Design Deployment and Migrations
- Design an Infrastructure Strategy
- Example Designs

We will help you to gain an in-depth understanding of how to determine workload requirements, as well as how to design for identity, security, deployment, and migration. By the end of this course, you will be able to successfully design data platform solutions, and strategies for business continuity and infrastructure – everything you need to pass your AZ-301 exam.

Course Content

Module 1: Design Identity Management

- Domain Services
- Azure AD Overview
- Azure AD Pricing
- AD Connect Overview
- Authentication Options
- Role Based Access Control
- Demo: RBAC
- Privileged Identity Management
- Demo: PIM Setup
- Demo: PIM RBAC
- Demo: PIM Role Activation

Course Content

Module 2: Data Services

- Azure Data Services Overview
- Azure SQL Services
- Azure SQL Pricing
- Demo: Azure SQL
- SQL Auditing
- SQL Caching
- Demo: SQL Long Term Retention
- Cosmos
- Cosmos Consistency Levels
- IoT
- Big Data
- SQL DW Architecture
- Azure Data Factory and Analysis
- Database Choices

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Course Content

Module 3: Design A Platform Solution

- Azure Storage Services
- Storage Account Overview
- Demo: Storage Account Portal
- Demo: Azure Storage Explorer
- Manage Permissions
- Demo: SAS
- Storage Keys
- Custom Domains

Course Content

Module 4: Establish Business Continuity

- Business Continuity and Recovery Overview
- Azure Site Recovery
- Demo: Prepare Azure for ASR
- Demo: Prepare VMware
- Azure Backup Overview
- Recovery Options Review
- Demo: Azure Backup
- Demo: Azure MARS Backup

Course Content

Module 5: Design Deployments & Migrations

- Deployment and Automation Architecture
- ARM Templates Overview
- Demo: ARM Templates
- Linking ARM Templates Plus Functions
- Demo: ARM Count Loops
- Demo: Save Deployment as ARM Template
- Powershell DSC Overview
- Demo: Azure Automation
- Demo: Azure Automation DSC
- Migration Strategies
- Azure Migrate Assessment
- Demo: Azure Migrate
- Import/Export Service

Course Content

Module 6: Design Compute

- Compute Options and Decisions
- VM Overview
- VM Storage
- VM Availability
- Availability Zones
- Demo: VMs Availability
- VMs Scaling Overview
- Demo: VM Scale Sets

Course Content

Module 7: Design Virtual Machine Security

- VM Security Best Practices
- Azure Disk Encryption
- Demo: Create Key Vault for Disk Encryption
- Demo: Configure Disk Encryption on Windows
- Demo: Security Center and VM Management
- Demo: VM Hardening in Security Center (Endpoint Protection)

Course Content

Module 8: Design Containers

- Containers
- Demo: Install Docker
- Demo: Prepare App for AKS
- Demo: Create Azure Container Registry
- Demo: Create Kubernetes Cluster
- Demo: AKS Run App and Scale
- Container Security: AKS
- Container Scanning

Course Content

Module 9: Design App Services

- App Services Overview
- Demo: Create and App Service Plan in the Azure Portal
- App Service Monitoring
- App Service Settings Overview

Course Content

Module 10: Design Networking

- Network Overview
- Routing and Peering
- Network Security Groups
- Load Balancers
- Hybrid Connectivity Options

Course Content

Module 11: Design Monitoring

- Monitoring Overview
- Demo: Azure Monitoring and Alerts
- Log Analytics
- Demo: Billing Alerts
- Demo: Network Watcher
- Demo: Quotas Cost Tagging
- AZ Policy
- Demo: Subscription Policies
- Resource Locks
- Demo: Resource Locks