

## Azure Governance Course Details

### 1. Azure Management Groups

- ✓ Subscriptions
- ✓ Resource Groups
- ✓ Resources
- ✓ Naming Conventions
- ✓ Azure Tags

### 2. Azure Policy

- ✓ Built-in policies
- ✓ Policies for regulatory compliance, security, cost, and management
- ✓ Policy initiative(policySet)
- ✓ Policy exclusion(RG)
- ✓ Remediating non-compliant resources

### 3. Azure Resource Graph Explorer

### 4. Azure Blueprint

### 5. Azure Cost Management

- ✓ Azure Reservations
- ✓ Azure Spot Virtual Machines
- ✓ Azure Hybrid Benefit
- ✓ Size your VMs properly
- ✓ Azure Reserve Capacity for Log Analytic
- ✓ Azure Pricing Calculator
- ✓ Azure Advisor
- ✓ Azure Tags for Cost Management
- ✓ Set up Billing for EA/CSP Customers
- ✓ Cost Analysis
- ✓ Budgets Alerts

### 6. Azure Automation

- ✓ Automation runbooks
- ✓ Azure Logic Apps
- ✓ Azure Power Automate
- ✓ Azure Desired State Configuration
- ✓ Azure Policy integration with Azure DevOps

### 7. Azure Monitor

- ✓ Application Insights
- ✓ VM insights
- ✓ Container insights
- ✓ Log Analytics
- ✓ Azure Dashboards and Workbooks
- ✓ Change Analysis

### 8. Azure Backup and Storage Services

## Azure Security Course Details

### 1. Shared Responsibility Model

### 2. Cloud Control Frameworks

- ✓ National Institute of Standards and Technologies: Cyber Security Framework.
- ✓ Center for Internet Security's Microsoft Azure Foundations Benchmark
- ✓ Cloud Security Alliance's Cloud Controls Matrix (CCM)
- ✓ Microsoft Azure Security Benchmark

### 3. Identity and Access Management

- ✓ Introduction to Azure AD
- ✓ Azure AD Authentication Option
- ✓ Azure AD Identity Governance
- ✓ Conditional Access and MFA
- ✓ Azure Role-Based Access Control
- ✓ Locks
- ✓ Policy
- ✓ Managed Identities and Service Principals

### 4. Logging and Monitoring

- ✓ Activity Logs
- ✓ Service Health
- ✓ Azure AD Monitoring
- ✓ Log Analytics Agent for VM Monitoring
- ✓ Azure Monitor Agent for VM Monitoring
- ✓ SQL audit logging, such as password resets and security logs
- ✓ Virtual networks access configuration
- ✓ Microsoft Defender for Cloud
- ✓ Microsoft Sentinel
- ✓ Azure Security Benchmark.
- ✓ Nested Security Policy Initiative Structure

### 5. Network Security

- ✓ Azure Virtual Network
- ✓ IP Addresses in Azure
- ✓ Network Security Groups
- ✓ Azure Monitor Network Isolation
- ✓ Azure Web Application Firewall
- ✓ Azure Firewalls
- ✓ Azure Network Watcher
- ✓ NSG Flow Logs

### 6. Storage Security

- ✓ Azure Key Vault
- ✓ Shared Key Access for Storage
- ✓ Shared Access Signature (SAS)
- ✓ Public Anonymous Access
- ✓ Encryption of data in transit
- ✓ Blob Storage Logs
- ✓ Backup and Disaster Recovery
- ✓ Azure SQL Database Access Control

### 7. Virtual Machine Security

- ✓ Azure Role-Based Access Control
- ✓ Azure virtual machine guest operating system configuration management
- ✓ Virtual Machine Login Access
- ✓ Network Controls
- ✓ Self-Managed Virtual Machines
- ✓ Azure Bastion
- ✓ Just-in-Time Access(JIT)
- ✓ Web Application Access
- ✓ Monitoring and Detection
- ✓ Vulnerability Management
- ✓ Endpoint Protection
- ✓ Azure Defender Alerts

- ✓ Backup and Disaster Recovery
- ✓ Guest Operating System Management
- ✓ Operating System Image Management
- ✓ Self-Managed Patching
- ✓ Centrally Managed Patching

## **8. PaaS Service Security**

- ✓ Azure App Service; Access Control
- ✓ Storage Access
- ✓ API Access
- ✓ Key Vault access
- ✓ Controlling Inbound Traffic to App Service
- ✓ Controlling Outbound Traffic

## **9. Container Security**

- ✓ Build Security
- ✓ Registry Security
- ✓ Runtime Security
- ✓ Azure Container Registry
- ✓ Access to container registry
- ✓ Network access to Azure Container Registry
- ✓ Azure Container Registry Logs

## **10. Kubernetes Security**

- ✓ Administrative access to Azure Kubernetes Service(AKS)
- ✓ Kubernetes RBAC
- ✓ Kubernetes Network Controls
- ✓ Application Network Controls
- ✓ AKS Logging