CertKit: Microsoft AZ-304: Microsoft Azure Architect Design

This CertKit teaches Solutions Architects how to translate business requirements into secure, scalable, and reliable solutions. Lessons include design considerations related to logging, cost analysis, authentication and authorization, governance, security, storage, high availability, and migration. This role requires decisions in multiple areas that affect an overall design solution.

Prerequisites:
Successful Azure Solution Architects start this role with experience on operating systems, virtualization, cloud infrastructure, storage structures, and networking.
- Understanding of on-premises virtualization technologies, incl.: VMs, virtual networking, and hard disks.
- Understanding of network configuration, including TCP/IP, Domain Name System (DNS), virtual private networks (VPNs), firewalls, and encryption technologies.
- Understanding of Active Directory concepts, including domains, forests, domain controllers, replication, Kerberos protocol, and Lightweight Directory Access Protocol (LDAP).
- Understanding of resilience and disaster recovery, including backup and restore operations.

Course outcome:
- Recommend solutions to minimize costs
- Recommend a solution for Conditional Access, including multi-factor authentication
- Recommend a solution for a hybrid identity including Azure AD Connect and Azure AD Connect
- Recommend a solution that includes KeyVault and Azure AD Managed Identities
- Recommend a storage access solution
- Design an Azure Site Recovery solution
- Recommend a solution for: autoscaling, containers, network security, migrating applications

Who should attend:
This course is for IT Professionals with expertise in designing and implementing solutions running on Microsoft Azure. They should have broad knowledge of IT operations, including networking, virtualization, identity, security, business continuity, disaster recovery, data platform, budgeting, and governance. Azure Solution Architects use the Azure Portal and as they become more adept, they use the Command Line Interface. Candidates must have expert-level skills in Azure administration and have experience with Azure development processes and DevOps processes.

CertKit content:
- E-learning courses:
    - AZ-304: Microsoft Azure Architect Design: VNet Design & Implementation
    - AZ-304: Microsoft Azure Architect Design: Azure Network Connectivity & Security
    - AZ-304: Microsoft Azure Architect Design: Storage Account & Key Vault Design
    - AZ-304: Microsoft Azure Architect Design: Storage Account Blob Management
    - AZ-304: Microsoft Azure Architect Design: Storage Account Security Planning
    - AZ-304: Microsoft Azure Architect Design: Azure Files Planning
    - AZ-304: Microsoft Azure Architect Design: Azure Database Solution Design
    - AZ-304: Microsoft Azure Architect Design: Virtual Machine Design & Deployment
    - AZ-304: Microsoft Azure Architect Design: Azure AD & User Implementation
    - AZ-304: Microsoft Azure Architect Design: Azure AD Groups, Apps, & Devices
    - AZ-304: Microsoft Azure Architect Design: Security Management
    - AZ-304: Microsoft Azure Architect Design: Azure Security Governance
    - AZ-304: Microsoft Azure Architect Design: Windows Virtual Desktop & Containers
    - AZ-304: Microsoft Azure Architect Design: Azure DevOps
    - AZ-304: Microsoft Azure Architect Design: Windows Virtual Desktop & Containers
    - AZ-304: Microsoft Azure Architect Design: Azure Application High Availability
    - AZ-304: Microsoft Azure Architect Design: Reducing Azure Costs
    - AZ-304: Microsoft Azure Architect Design: Azure Data and Service Migration Planning
    - AZ-304: Microsoft Azure Architect Design: Azure Monitoring
- MeasureUp Exam simulation
    - 160+ questions
- Tips & Tricks
- Challenge Labs (option)
    - This collection is comprised of over 50 challenges and contains over 28 hours of hands-on practice and supports the Exam AZ-304: Microsoft Azure Architect Design competencies and is mapped to the skills measured of the exam. (see detailed PDF).