

AZ-104: Microsoft Azure Administrator, Part 1 of 5: Deploy and Manage Azure Compute Resources

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Prerequisites: Azure Fundamentals AZ-900

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Course description: This Certification (AZ-104) Validates how Azure Administrators implement, manage, and monitor an organization's Microsoft Azure environment. This Domain encompasses approximately 25-30% of the exam. This course covers: Creating and Configuring of VMs, Automating Deployment, Containers and Web Apps.

Course outline:

How to Complete Lab.

- Introduction
- How to complete a Lab
- Example Lab
- Summary

Azure Portal and Azure Cloud Shell

- Introduction
- Azure Portal and Azure Cloud Shell
- Azure Mobile App
- Demo: Azure Portal
- Azure Cloud Shell
- Demo: Cloud Shell
- Summary

Azure Powershell and CLI

- Introduction
- Azure Powershell and CLI
- Azure PowerShell
- Demo: PowerShell
- Azure CLI
- Demo: Working with CLI
- Summary

Azure Resource Manager

- Introduction
- Azure Resource Manager
- Terminology
- Resource Groups and Deployments
- Resource Manager Locks
- Demo: Resource Groups
- Summary

ARM Templates

- Introduction
- ARM Templates
- Demo: Quick Start

- Summary

Virtual Machine Planning

- Introduction
- Virtual Machine Planning
- Planning Checklist
- Virtual Machine Sizing
- Storage Options
- Summary

Creating Virtual Machines

- Introduction
- Creating Virtual Machines
- Windows Virtual Machines
- Windows VM Connections
- Demo: Create a VM in the Portal
- Linux Virtual Machines
- Demo: Connect to Linux VM
- Summary

Virtual Machine Availability

- Introduction
- Virtual Machine Availability
- Maintenance VS Downtime
- Availability Sets
- Update and Fault Domains
- Implementing Scale Sets
- Implement Autoscale
- Summary

Virtual Machines Extensions

- Introduction
- Virtual Machines Extensions
- Custom Script Extensions
- Desired State Config
- Demo: Custom Script Extension
- Summary

Azure App Service Plans

- Introduction

- Azure App Service Plans
- Pricing Tiers
- Plan Scaling
- Demo: App Service
- Summary

Azure App Services

- Introduction
- Create an App Service
- Continuous Deployment
- Deployment Slots
- Secure an App Service
- Custom Domain Names
- Application Insights
- Demo: App Insights
- Summary

Container Services

- Introduction
- Container Services
- Azure Container Instances
- Docker
- Demo: Containers
- Summary

Azure Kubernetes Service

- Introduction
- Azure Kubernetes Service
- AKS Terminology
- AKS Networking
- AKS Storage
- AKS Service Security
- AKS and Azure AD
- AKS Scaling
- Scaling to ACI

- Demo: Kubernetes
- Summary