Learning path for Azure Administrator

An Azure Administrator is responsible for implementing, monitoring, and maintaining Microsoft Azure solutions, including major services related to compute, storage, network, and security.

**Azure fundamentals**

9H 35M - 12 Modules

1. Principles of cloud computing
2. Introduction to Azure
3. Azure architecture and service guarantees
4. Create an Azure account
5. Manage services with the Azure portal
6. Azure compute options
7. Azure data storage options
8. Azure networking options
9. Security, responsibility and trust in Azure
10. Apply and monitor infrastructure standards with Azure Policy
11. Control and organize Azure resources with Azure Resource Manager
12. Predict costs and optimize spending for Azure

**Manage resources in Azure**

4H 15M - 5 Modules

1. Align requirements with cloud types and service models in Azure
2. Control Azure services with the CLI
3. Automate Azure tasks using scripts with PowerShell
4. Predict costs and optimize spending for Azure
5. Control and organize Azure resources with Azure Resource Manager

**Secure your cloud data**

6H 45M - 8 Modules

1. Design for security in Azure
2. Top 5 security items to consider before pushing to production
3. Secure your Azure Storage account
4. Manage secrets in your server apps with Azure Key Vault
5. Authenticate browser-based apps with Azure App Services
6. Secure your Azure resources with role-based access control (RBAC)
7. Secure your Azure SQL Database
8. Secure your Azure virtual machine disks

**Administer infrastructure resources in Azure**

9H 22M - 10 Modules

1. Introduction to Azure virtual machines
2. Create a Linux virtual machine in Azure
3. Create a Windows virtual machine in Azure
4. Manage virtual machines with the Azure CLI
5. Keep your virtual machines updated
6. Configure the network for your virtual machines
7. Build Azure Resource Manager templates
8. Add and size disks in Azure virtual machines
9. Caching and performance in Azure storage disks
10. Secure your Azure virtual machine disks

**Administer containers in Azure**

3H 45M - 5 Modules

1. Build a containerized web application with Docker
2. Build and store container images with Azure Container Registry
3. Run Docker containers with Azure Container Instances
4. Deploy and run a containerized web app with Azure App Service
5. Introduction to Azure Kubernetes Service

**Build applications with Azure DevOps**

6H 10M - 7 Modules

1. Create a build pipeline with Azure Pipelines
2. Implement a code workflow in your build pipeline by using Git and GitHub
3. Run quality tests in your build pipeline by using Azure Pipelines
4. Scan code for vulnerabilities in Azure Pipelines
5. Scan open source components for vulnerabilities and license ratings in Azure Pipelines
6. Manage build dependencies with Azure Artifacts
7. Host your own build agent in Azure Pipelines

**Evolve your DevOps practices**

1H 17M - 3 Modules

1. Assess your existing software development process
2. Get started with Azure DevOps
3. Choose an Agile approach to software development

**Become a Microsoft Certified Professional**

Certification helps establish your credentials with current and future employers.

Pass certification exam AZ-103 to become a Microsoft Certified: Azure Administrator Associate.