Azure Learning Material – Advance

Learning Plan

This is a 3-week plan with 2 weeks dedicated to learning and 3rd week for assignment.

Topic	Subtopic	Duration (in Days)	Duration (in hours)	Total Duration
Core Services	Advanced Compute Advanced Networking Advanced Storage Advanced Databases	5 Days	40 Hours	3 weeks
Azure Administration	Advanced Identity and Security Advanced Monitoring and Management Advanced Governance and Compliance			
Azure AI and Big Data	AI and Machine Learning Big Data and Analytics Advanced Integration Services	5 Days	40 Hours	
Azure Compliance	Azure Pricing and Support Azure Security and Compliance			
Azure DevOps	Azure DevOps Terraform Backup and Disaster Recovery			
Assignment + LevelUp		5 Days	40 Hours	

Introduction

This learning material will guide to references and material necessary to learn Azure Cloud at L2 level

Prerequisites

Following prerequisites should be met before starting learning are:

- Azure Account (Trial account will work)
- Basics of Linux Commands
- Networking basics (IP, DNS, routing, etc)
- Basic Programming (any language)
- Web concepts (Web servers, database, HTTP/HTTPS)

Usage

There are sections divided each providing links to learning material. It is expected that after going through the material mentioned topics will be understood.

Links to Microsoft Learn, YouTube, LinkedIn Learning and other material is mentioned.

Learning Expectations

After going though, the learning material it is expected that you will understand cloud terminologies (IaaS, PaaS, SaaS) and have a hands-on experience in using various Microsoft services. You should also be able to give beginner level certification (AZ-900) as well as immediate level certifications (AZ-204, AZ-104, AZ-500, AZ700) conducted by Microsoft.

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Course Material

Azure Advanced

Topic	Subtopics
Advanced Compute	Azure Virtual Machine Scale Sets, Azure Batch, Azure Service Fabric, Azure Dedicated Hosts
Advanced Networking	Azure Virtual WAN, ExpressRoute, Network Watcher, Traffic Manager, DNS Zones, Application Gateway Advanced Configurations
Advanced Storage	Azure Managed Disks, Azure NetApp Files, Azure Blob Storage Advanced Features (Immutable Blobs, Blob Tiering), Azure Data Lake Storage Gen2
Advanced Databases	Azure SQL Managed Instance, Cosmos DB Advanced Features (Global Distribution, Multi-model Capabilities), Azure Synapse Analytics (formerly SQL Data Warehouse)
Advanced Identity and Security	Azure AD B2C/B2B, Privileged Identity Management (PIM), Azure Sentinel, Azure Security Center Advanced Threat Protection, Conditional Access Policies
Advanced Monitoring and Management	Azure Monitor Advanced Features (Custom Logs, Alerts), Azure Log Analytics Advanced Queries, Azure Policy Advanced Configurations, Azure Blueprints
DevOps and Automation	Advanced CI/CD with Azure DevOps, GitHub Actions, Infrastructure as Code with Terraform and Bicep, Azure DevTest Labs, Azure Automation Runbooks
Advanced Governance and Compliance	Azure Policy and Initiative Definitions, Azure Blueprints for Governance, Compliance Management with Azure Security Center, Resource Graph Explorer
AI and Machine Learning	Azure Machine Learning, Cognitive Services, Bot Services, Azure Databricks, Azure AI Services Integration
Big Data and Analytics	Azure HDInsight, Azure Data Factory, Stream Analytics, Data Lake Analytics, Event Hubs, Azure Synapse Analytics
Advanced Integration Services	Azure Logic Apps Advanced Workflows, API Management, Azure Functions Advanced Features, Azure Service Bus, Event Grid
Advanced Backup and Disaster Recovery	Azure Site Recovery, Azure Backup Advanced Scenarios, Cross-Region Replication, Geo-Redundancy, DR Drills and Failover Strategies

Links

- [Course AZ-204T00-A: Developing Solutions for Microsoft Azure - Training | Microsoft Learn](#)
- [Course AZ-104T00-A: Microsoft Azure Administrator - Training | Microsoft Learn](#)
- [Course AZ-500T00-A: Microsoft Azure Security Technologies - Training | Microsoft Learn](#)
- [AZ-700 Designing and Implementing Microsoft Azure Networking Solutions - Training | Microsoft Learn](#)
- [Course AI-900T00-A: Microsoft Azure AI Fundamentals - Training | Microsoft Learn](#)
- [Microsoft - EdX](#)
- [Azure Well-Architected Framework - Microsoft Azure Well-Architected Framework | Microsoft Learn](#)

YouTube

- [AZ-104 Azure Administrator Study List - YouTube](#)
- [AZ-500 Study Playlist - YouTube](#)
- [AZ-700 Study Playlist - YouTube](#)
- [John Savill's Technical Training - YouTube](#)
- [Adam Marczak - Azure for Everyone - YouTube](#)
- [Refactored - YouTube](#)
- [Automation Step by Step - YouTube](#)