

AZURE COMPLETE ROADMAP FOR CLOUD STUDENTS

STAGE 0: SETUP & FOUNDATION (DAY 01)

Learn the basics of Azure. Create your free account, explore the Azure Portal, and understand Resource Groups, Regions, and SKUs. This forms the base for all cloud work.

STAGE 1: CORE IAAS VMS & NETWORKING (DAY 25)

Deploy Linux and Windows virtual machines. Learn how to connect via SSH/RDP, attach data disks, open ports, use Network Security Groups (NSGs), and manage IP addresses. Understand snapshots and auto-shutdown features.

STAGE 2: STORAGE BLOBS, FILES, QUEUES (DAY 68)

Work with Blob storage for file uploads, configure access levels, and use File Storage for network mounts. Explore redundancy options like LRS, GRS, and storage tiers (Hot, Cool, Archive).

STAGE 3: IDENTITY & ACCESS MANAGEMENT (IAM) (DAY 910)

Dive into Azure AD, create users/groups, apply Role-Based Access Control (RBAC), and secure secrets using Key Vault. Learn about least privilege principles and managed identities.

STAGE 4: MONITORING, ALERTS & AUTOMATION (DAY 1113)

Enable monitoring on VMs and resources. Track metrics (CPU, Disk, Network), configure alerts, enable diagnostics, and schedule auto start/shutdown. Learn to use Automation Accounts.

STAGE 5: PLATFORM SERVICES (PAAS) (DAY 1417)

Host applications using App Services, use Azure SQL for database needs, create serverless APIs using Azure Functions, and build workflows with Logic Apps. Learn to scale and manage apps without servers.

STAGE 6: AZURE CLI + ARM TEMPLATES + BICEP (DAY 1820)

Use the Azure CLI for scripting and deployments. Learn ARM Templates (JSON) and the Bicep language for Infrastructure as Code (IaC) to automate and standardize resource creation.

STAGE 7: DEVOPS + GITHUB INTEGRATION (DAY 2124)

Create CI/CD pipelines using Azure DevOps and GitHub Actions. Set up automated deployments, approvals, testing workflows, and multi-stage pipelines (Dev QA Prod).

AZURE COMPLETE ROADMAP FOR CLOUD STUDENTS

STAGE 8: AI/ML + CONTAINERS (OPTIONAL)

Use Azure ML Studio to run ML training jobs. Deploy Docker containers using ACI or AKS. Deploy and scale AI/ML models on the cloud using various container strategies.

FINAL PROJECTS

Build real-world projects: Deploy portfolio websites, run RAG chatbots, deploy ML models, automate VM recovery, and build full CI/CD pipelines from GitHub.

CERTIFICATIONS

Earn AZ-900 after Stage 2, AZ-104 after Stage 5. Choose AZ-204, AI-900, or DP-100 depending on your interest in development, AI, or data science.