

AZ-104T00: Microsoft Azure Administrator

1-Day Accelerated Workshop

Table of Contents and Agenda

Workshop Scope and Expectations

The official AZ-104T00 course runs for 4 days. This workshop delivers the same content areas in a single day, so it is designed as a fast-paced, breadth-first program. Please review the scope below so that expectations are aligned before the session.

What this workshop covers

- A structured overview of all five AZ-104 exam domains: identity and governance, networking, storage, compute, and data protection and monitoring
- Core concepts, architecture views and key administrative tasks for each Azure service, explained with whiteboard diagrams.
- Four guided hands-on labs in class (about 30% of the course labs), one for each major area
- A clear path for further learning: self-paced labs, Microsoft Learn modules and exam guidance

What this workshop does not cover

- It does not replace the full 4-day instructor-led course or guarantee readiness for the AZ-104 exam
- Deep-dive topics such as advanced troubleshooting, scripting or automation at scale, and architecture design for the client's own environment
- Completing all course labs in class. Only 4 of the 14 labs are done in class.

Workshop Overview

Item	Details
Duration	1 day (09:00 – 17:20), about 7 hours 15 minutes of instruction
Theory	About 5 hours 15 minutes (11 modules with whiteboard sessions, plus intro and wrap-up)
Hands-on labs	About 2 hours (4 guided labs in class, about 30% of the 14 course labs); 10 labs self-paced
Breaks	Lunch 45 minutes + two 10-minute tea/coffee breaks
Delivery	Whiteboard-led concepts with selected slides and followed by guided hands-on labs
Audience	IT administrators and engineers who manage Azure environments
Certification alignment	Exam AZ-104: Microsoft Azure Administrator

The standard 4-day course is condensed into one day, so each module is covered at the concept and key-task level. Labs are shortened to their core tasks. The remaining labs are listed as self-paced so participants can complete them after the workshop.

Agenda at a Glance

Time	Session	Type	Duration
09:00 – 09:15	Welcome, course overview & lab environment check	Intro	15 min

Time	Session	Type	Duration
09:15 – 09:40	Module 1: Administer Identity (Microsoft Entra ID)	Theory	25 min
09:40 – 10:10	Module 2: Administer Governance and Compliance	Theory	30 min
10:10 – 10:25	Module 3: Administer Azure Resources (Tools, ARM & Bicep)	Theory	15 min
10:25 – 10:35	Tea/coffee break	Break	10 min
10:35 – 11:00	Lab 01: Manage Microsoft Entra ID identities	Lab	25 min
11:00 – 11:35	Module 4: Administer Virtual Networking	Theory	35 min
11:35 – 12:05	Module 5: Administer Intersite Connectivity	Theory	30 min
12:05 – 12:30	Module 6: Administer Network Traffic	Theory	25 min
12:30 – 13:15	Lunch	Break	45 min
13:15 – 13:50	Lab 04: Implement virtual networking	Lab	35 min
13:50 – 14:25	Module 7: Administer Azure Storage	Theory	35 min
14:25 – 14:55	Lab 07: Manage Azure Storage	Lab	30 min
14:55 – 15:05	Tea/coffee break	Break	10 min
15:05 – 15:30	Module 8: Administer Azure Virtual Machines	Theory	25 min
15:30 – 15:55	Module 9: Administer PaaS Compute Options	Theory	25 min
15:55 – 16:15	Module 10: Administer Data Protection	Theory	20 min
16:15 – 16:35	Module 11: Administer Monitoring	Theory	20 min
16:35 – 17:05	Lab 11: Implement monitoring	Lab	30 min
17:05 – 17:20	Wrap-up, certification guidance & Q&A	Close	15 min

Summary	Time
Theory (Modules 1–11)	4 h 45 min
Intro + wrap-up	30 min
Hands-on labs (4 labs in class)	2 h 00 min
Lunch + tea/coffee breaks	1 h 05 min
Total	8 h 20 min

Detailed Table of Contents

Introduction (15 min)

- Introductions and workshop objectives
- Course schedule and lab environment check
- Microsoft Learn profile and course materials

Module 1: Administer Identity (25 min)

- Microsoft Entra ID: core concepts and terminology
- Microsoft Entra ID vs Active Directory Domain Services
- Microsoft Entra ID plans and licensing (Free, P1, P2)
- Self-service password reset (SSPR)
- Create and manage user accounts (cloud and guest users)
- Create group accounts (security vs Microsoft 365, assigned vs dynamic)
- Assign licenses to users and groups
- Overview: bulk user operations and administrative units

Hands-on: Lab 01: Manage Microsoft Entra ID identities (in class)

Module 2: Administer Governance and Compliance (30 min)

- Azure regions, subscriptions and subscription usage
- Resource groups and the resource hierarchy (management groups → subscriptions → resource groups → resources)
- Service limits and quotas
- Resource tagging and cost management
- Azure Policy: definitions, initiatives, assignment and remediation
- Azure RBAC vs Microsoft Entra ID roles
- Role definitions, role assignments and scope
- Resource Manager locks (CanNotDelete, ReadOnly)

Hands-on: Lab 02a (RBAC) and Lab 02b (Azure Policy) are self-paced.

Module 3: Administer Azure Resources (15 min)

- Administration tools: Azure portal, Cloud Shell, Azure PowerShell, Azure CLI
- ARM template advantages and JSON template structure (schema, parameters, resources)
- Introduction to Azure Bicep
- Azure Quickstart templates (demo)

Hands-on: Lab 03 (ARM templates) is self-paced.

Module 4: Administer Virtual Networking (35 min)

- Plan and create virtual networks and subnets
- IP addressing: public IP addresses, private IP allocation (static/dynamic)
- Network security groups (NSGs): rules, priorities and effective rules
- Application security groups (ASGs)
- Azure DNS: public zones, domain delegation, alias records
- Private DNS zones and name resolution scenarios

Hands-on: Lab 04: Implement virtual networking (in class)

Module 5: Administer Intersite Connectivity (30 min)

- Virtual network peering: uses, regional and global peering
- Gateway transit and service chaining
- System routes and user-defined routes (route tables)
- Service endpoints vs Private Link / private endpoints

Hands-on: Lab 05 (VNet peering and routing) is self-paced.

Module 6: Administer Network Traffic (25 min)

- Choosing a load-balancing solution
- Azure Load Balancer: public vs internal, SKUs, rules, health probes, session persistence
- Azure Application Gateway: components and path-based / multi-site routing
- Network Watcher: IP flow verify, next hop, topology

Hands-on: Lab 06 (Traffic management) is self-paced; architecture walkthrough in class

Module 7: Administer Azure Storage (35 min)

- Azure Storage services and storage account kinds
- Replication strategies: LRS, ZRS, GRS, RA-GRS, GZRS, RA-GZRS
- Storage endpoints and network access (firewall, service/private endpoints)
- Blob storage: containers, access tiers (Hot, Cool, Cold, Archive)
- Blob lifecycle management rules and object replication
- Storage security: shared access signatures (SAS), encryption, customer-managed keys
- Azure Files: file shares, snapshots, soft delete
- Azure Storage Explorer and AzCopy (overview)

Hands-on: Lab 07: Manage Azure Storage (in class)

Module 8: Administer Azure Virtual Machines (25 min)

- Shared responsibility for IaaS
- Planning virtual machines: sizing and disk storage
- Connecting to Windows and Linux VMs (RDP, SSH, Azure Bastion)
- Availability: maintenance, availability sets, fault and update domains, availability zones
- Vertical vs horizontal scaling
- Virtual Machine Scale Sets and autoscale

Hands-on: Lab 08 (Virtual machines and scale sets) is self-paced;

Module 9: Administer PaaS Compute Options (25 min)

- App Service plans: pricing tiers, scale up and scale out, autoscale
- Azure App Service: create, deployment slots, security, custom domains, backup
- Containers vs virtual machines; container images and Azure Container Registry
- Azure Container Instances and container groups
- Azure Container Apps and comparison of container options (ACI, ACA, AKS)

Hands-on: Labs 09a/09b/09c are self-paced; Web App deployment slots;

Module 10: Administer Data Protection (20 min)

- Azure Backup overview: Recovery Services vault, Backup vault, backup policies
- Azure Business Continuity Center
- Backing up Azure file shares
- VM protection: snapshots, VM backup and restore
- Soft delete for backups
- Azure Site Recovery overview

Hands-on: Lab 10 (Backup and restore) is self-paced;

Module 11: Administer Monitoring (20 min)

- Azure Monitor capabilities and components
- Metrics vs logs; Activity Log events and queries
- Alert rules and action groups
- Log Analytics workspace
- Kusto Query Language (KQL) basics for querying logs

Hands-on: Lab 11: Implement monitoring (in class)

Wrap-up (15 min)

- Recap of the AZ-104 exam domains and skills measured
- Exam preparation: practice assessment, exam sandbox, Microsoft Learn paths
- Next steps in the learning journey, open Q&A and feedback

Hands-on Lab Plan

In class: 4 of the 14 course labs (about 30%), one for each major area:

Lab	Area	Key tasks	Time
Lab 01: Manage Microsoft Entra ID identities	Identity	Create users and groups, invite a guest user, manage group membership	25 min
Lab 04: Implement virtual networking	Networking	VNets and subnets, NSG and ASG rules, public and private DNS zones	35 min
Lab 07: Manage Azure Storage	Storage	Storage account, blob container and lifecycle rule, SAS access, file share	30 min
Lab 11: Implement monitoring	Monitoring	Alert rule, action group, trigger an alert, Log Analytics query	30 min

Self-paced labs (after the workshop)

The remaining 10 labs (about 70%) are completed by participants after the workshop:

Lab	Related module	
Lab 02a: Manage subscriptions and RBAC	Module 2	Self-paced
Lab 02b: Manage governance via Azure Policy	Module 2	Self-paced
Lab 03: Manage Azure resources by using ARM templates	Module 3	Self-paced
Lab 05: Implement intersite connectivity	Module 5	Self-paced
Lab 06: Implement traffic management (Load Balancer, Application Gateway)	Module 6	Self-paced
Lab 08: Manage virtual machines	Module 8	Self-paced
Lab 09a: Implement Web Apps	Module 9	Self-paced

Lab	Related module	
Lab 09b: Implement Azure Container Instances	Module 9	Self-paced
Lab 09c: Implement Azure Container Apps	Module 9	Self-paced
Lab 10: Implement data protection	Module 10	Self-paced

Exam Domain Mapping

AZ-104 exam domain	Weight	Workshop modules
Manage Azure identities and governance	20–25%	Modules 1, 2
Implement and manage storage	15–20%	Module 7
Deploy and manage Azure compute resources	20–25%	Modules 3, 8, 9
Implement and manage virtual networking	15–20%	Modules 4, 5, 6
Monitor and maintain Azure resources	10–15%	Modules 10, 11

Participant Prerequisites

- Basic understanding of operating systems, networking (IP addressing, DNS, routing), virtualization and basic of cloud.
- Familiarity with the Azure portal; basic PowerShell or Azure CLI is helpful but not mandatory
- Some prior hands-on exposure to Azure is recommended, given the pace of the workshop
- Lab environment and access requirements are listed under "What We Need from the Client"