Microsoft Azure
Fundamentals & Administrator

Azure Fundamentals certification is an opportunity to prove knowledge of cloud concepts, core Azure services, Azure pricing, SLA, and lifecycle, and the fundamentals of cloud security, privacy, compliance, and trust.This AZ-900 training is the ideal entry point into the Microsoft certification program for IT professionals, and can even be used as user training for Azure migrations. The AZ-900 exam tests your knowledge of four subject areas. Here's how IP Rulers will cover the course in this Learning Path. We'll start by going over general cloud concepts, so you don't need to have any previous cloud experience. Next, we'll dive into the specifics of Microsoft Azure, starting with the core Azure services, including compute, networking, storage, and databases. Then, we'll cover security, privacy, compliance, and trust. Finally, we'll go over Azure pricing and support.

Azure Administrator Associate is one of the flagship courses in cloud administrator roadmap in IP Rulers cloud portfolio. This course will provide a deep understanding of each service across its full IT lifecycle allowing Azure Administrators to take requests for infrastructure services, applications and environments. After completing the course, Azure Administrators will also be able to make recommendations on services to use for optimal performance and scale, as well as provision, size, monitor, and adjust resources as appropriate. From Expert trainers of IP Rulers you will acquire a thorough knowledge in deep understanding of the entire administrative lifecycle in Azure environments. This course teaches IT Professionals how to secure identities, manage their Azure subscriptions, administer the infrastructure, configure virtual networking, connect Azure and on-premises sites, manage network traffic, implement storage solutions, create and scale virtual machines, implement web apps and containers, back up and share data, and monitor your solution.

COURSE DETAILS
MICROSOFT AZURE FUNDAMENTALS TRAINING

Required exam – Microsoft Certified : Azure Fundamentals – AZ-900

This Microsoft Certified Azure Fundamentals training covers the AZ-900 exam objectives, and topics such as:

▸ Describe cloud concepts
▸ Describe core Azure services
▸ Describe security, privacy, compliance, and trust
▸ Describe Azure pricing Service Level Agreements, and Lifecycles

- IT Engineers attempting the AZ:900 Microsoft Azure Fundamentals exam
- This certification is intended for people beginning to work with cloud-based solutions and services.
- Candidates who are looking to validate their foundational level knowledge of the cloud.
- Individuals involved in selling or purchasing cloud-based solutions and services.
- Business managers, program managers and technical sales, with a general IT background
- It is also useful for individuals in technical, managerial, sales, purchasing, or financial roles who work with the Azure Cloud.

PREREQUISITES

- No technical IT experience is required for this exam, but some general IT knowledge would certainly be beneficial.

COURSE OUTLINE

1.0 DESCRIBE CLOUD CONCEPTS (15-20%)

- Describe the benefits and considerations of using cloud services
- Describe the differences between Infrastructure-as-a-Service (IaaS), Platform-as-a-Service (PaaS) and Software-as-a-Service (SaaS)
- Describe the differences between Public, Private and Hybrid cloud models

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2.0 DESCRIBE CORE AZURE SERVICES (30-35%)

- Describe the core Azure architectural componentst
- Describe some of the core products available in Azure
- Describe some of the solutions available on Azure
- Describe Azure management tools

3.0 DESCRIBE SECURITY, PRIVACY, COMPLIANCE, AND TRUST (25-30%)

- Describe securing network connectivity in Azure
- Describe core Azure Identity services
- Describe security tools and features of Azure
- Describe Azure governance methodologies
- Describe monitoring and reporting options in Azure
- Describe privacy, compliance and data protection standards in Azure

4.0 DESCRIBE AZURE PRICING, SERVICE LEVEL AGREEMENTS, AND LIFECYCLES (20- 25%)

- Describe Azure subscriptions
- Describe planning and management of costs
- Describe Azure Service Level Agreements (SLAs)
- Describe service lifecycle in Azure

Required exam – AZ:104 (Microsoft Azure Administrator)

The AZ-104 exam replaces the AZ-103 exam, which will be retired on August 31, 2020. This exam is part of Microsoft's role-based certification program. Candidates who pass the AZ-104 exam will earn the Microsoft Certified: Azure Administrator Associate certification.This exam measures your ability to accomplish the following technical tasks: manage Azure identities and governance; implement and manage storage; deploy and manage Azure compute resources; configure and manage virtual networking; and monitor and back up Azure resources.Candidates for this exam should have subject matter expertise implementing, managing, and monitoring an organization's Microsoft Azure environment.

TARGET AUDIENCE

- ▶ IT Engineers who aims to become Azure administrators
- ▶ Candidates preparing for Microsoft's AZ-104 exam
- ▶ IT professionals who works for organizations that are planning to locate some or all of their infrastructure services on Azure
- ▶ Also intended for people who works with cloud-based solutions and services.
- ▶ Candidates who are looking to validate their knowledge level in cloud Administration.
- ▶ Individuals involved in selling or purchasing cloud-based solutions and services.
- ▶ IT managers, Program managers, IT Administrator or System Administrators, who likes to enhance their knowledge in Cloud Technology.

There are no pre-requisites for AZ:104 Azure Administrator Associate training sessions as such. But recommends the candidates to grasp basic knowledge through IP Rulers course – "Microsoft Azure fundamentals" or candidate with minimum 6months of hands-on experience administering Azure.

COURSE OUTLINE

1.0 MANAGE AZURE IDENTITIES AND GOVERNANCE (15-20%)

- ▸ Manage Azure AD objects
- ▸ Manage role-based access control (RBAC)
- ▸ Manage subscriptions and governance

2.0 IMPLEMENT AND MANAGE STORAGE (10-15%)

- ▸ Manage storage accounts
- ▸ Manage data in Azure Storage
- ▸ Configure Azure files and Azure blob storage

3.0 DEPLOY AND MANAGE AZURE COMPUTE RESOURCES (25-30%)

- ▸ Configure VMs for high availability and scalability
- ▸ Automate deployment and configuration of VMs
- ▸ Create and configure VMs
- ▸ Create and configure containers
- ▸ Create and configure Web Apps

4.0 CONFIGURE AND MANAGE VIRTUAL NETWORKING (30-35%)

- ▸ Implement and manage virtual networking
- ▸ Configure name resolution
- ▸ Secure access to virtual networks
- ▸ Configure load balancing
- ▸ Monitor and troubleshoot virtual networking
- ▸ Integrate an on-premises network with an Azure virtual network

5.0 MONITOR AND BACK UP AZURE RESOURCES (10-15%)

- ▸ Monitor resources by using Azure Monitor
- ▸ Implement backup and recovery

TRAINER'S PROFILE

- ▸ IP Rulers is managed by an expert team of trainers with over 15 years' experience in the industry and in hands-on training.
- ▸ All the trainers have multiple CCIEs in their respective areas of interest.
- ▸ Individual trainers' profiles can be provided upon request by email, along with demos and LinkedIn profiles.
- ▸ Online and classroom demos are also available upon request

BENEFITS

After completing this training;

- ▸ Essential skills in cloud computing concepts in the fast changing world of technology cloud computing concepts
- ▸ Ability to recognize customer requirements and support proposed solutions of Cloud.
- ▸ Enhanced job opportunities related with core services available with Microsoft Azure
- ▸ You will be able to demonstrate a fundamental knowledge of cloud concepts, as well as Azure services, workloads, security, privacy, pricing, and support.
- ▸ Training will give the non-technical professional a basic understanding of Azure cloud services and how to make the most of them
- ▸ More appropriate for technical students who need to create services in the Azure portal, and may go on to role-based courses and certifications, such as Azure Administrator.

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