ExamLabs

Microsoft Azure Fundamentals

Study Guide

Exam AZ-900

ExamLabs

Contents at a glance

Introduction

Preparing for the exam

CHAPTER 1 Understand cloud concepts

CHAPTER 2 Understand core Azure services

CHAPTER 3 Understand security, privacy, compliance, and trust

CHAPTER 4 Understand Azure pricing and support

Index

Contents

Introduction

Understand cloud concepts

Skill 1.1: Describe the benefits and considerations of using cloud services

- High Availability
- Scalability, elasticity, and agility
- Fault tolerance and disaster recovery
- Economic benefits of the cloud

Skill 1.2: Describe the differences between Infrastructure-as-a-Service (IaaS), Platform-as-a-Service (PaaS), and Software-as-a-Service (SaaS)

- Infrastructure-as-a-Service (IaaS)
- Platform-as-a-Service (PaaS)
- Software-as-a-Service (SaaS)
- Comparing service types

Skill 1.3: Describe the differences between public, private, and hybrid cloud models

- The public cloud
- The private cloud

The hybrid cloud
Thought experiment
Thought experiment answers
Chapter summary

Understand core Azure services

Skill 2.1: Understand the core Azure architectural components
Azure regions
Availability zones
Azure Resource Manager (ARM)
Resource groups
Skill 2.2: Describe some of the core products available in Azure
Azure compute products
Azure networking products
Azure storage products
Azure database products
The Azure Marketplace and its usage scenarios
Skill 2.3: Describe some of the solutions available on Azure
Internet of Things (IoT)
Big Data and analytics
Artificial Intelligence
Serverless computing
Skill 2.4: Understand Azure management tools
The Azure portal
Azure and PowerShell
Azure CLI
Azure Advisor
Thought experiment

Thought experiment answers

Chapter summary

Understand security, privacy, compliance, and trust

Skill 3.1: Understand securing network connectivity in Azure

Azure Firewall

DDoS Protection

Network Security Groups

Choosing an appropriate Azure security solution

Skill 3.2: Describe core Azure Identity services

Azure Active Directory

Multi-factor authentication

Skill 3.3: Describe security tools and features of Azure

Azure Security Center

Azure Key Vault

Azure Information Protection

Azure Advanced Threat Protection

Skill 3.4: Describe Azure governance methodologies

Azure Policy

Role-based access control

Locks

Azure Advisor

Skill 3.5: Understand monitoring and reporting options in Azure

Azure Monitor

Azure Service Health

Skill 3.6: Understand privacy, compliance, and data protection standards in Azure

Microsoft Privacy Statement

Trust Center
Service Trust Portal
Compliance Manager
Azure Government
Azure Germany
Thought experiment
Thought experiment answers
Chapter summary

Understand Azure pricing and support

Skill 4.1: Understand Azure subscriptions
Azure subscription
Uses and options with Azure subscriptions
Skill 4.2: Understand planning and management of costs
Options for purchasing Azure products and services
Options around Azure free account
Factors affecting costs
Zones
The pricing calculator
The total cost of ownership (TCO) calculator
Best practices for minimizing Azure costs
Azure Cost Management
Skill 4.3: Understand the support options available in Azure
Support plans
How to open a support case
Available support channels outside of support plans
Knowledge Center
Skill 4.4: Describe Azure service level agreements

ExamLabs

Service level agreement (SLA)

Determine the SLA for a particular Azure product or service

Skill 4.5: Understand service lifecycle in Azure

Public and private preview features

How to access preview features

General availability

Monitoring feature updates

Thought experiment

Thought experiment answers

Chapter summary

Index