



# AZ -900 : Microsoft Azure Fundamentals

## Module 1: Cloud Concepts Learning Objectives

### Why cloud services?

### Types of cloud models

- define cloud computing
- describe Public cloud
- describe Private cloud
- describe Hybrid cloud
- compare and contrast the three types of cloud computing

### Types of cloud services

- describe the shared responsibility model
- describe Infrastructure-as-a-Service (IaaS),
- describe Platform-as-a-Service (PaaS)
- describe server less computing
- describe Software-as-a-Service (SaaS)
- identify a service type based on a use case

## Module 1 review questions

## Module 2: Core Azure services

### Core Azure Architectural components

- describe the benefits and usage of Regions and Region Pairs
- describe the benefits and usage of Availability Zones
- describe the benefits and usage of Resource Groups
- describe the benefits and usage of Subscriptions
- describe the benefits and usage of Management Groups
- describe the benefits and usage of Azure Resource Manager
- explain Azure resources

### Core Azure Resource Available

- describe the benefits and usage of Virtual Machines.
- Azure App Services, Azure Container Instances (ACI), Azure Kubernetes Service (AKS), and Windows Virtual Desktop.



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describe the benefits and usage of Virtual Networks, VPN Gateway, Virtual Network peering, and ExpressRoute.

describe the benefits and usage of Container (Blob) Storage, Disk Storage, File Storage, and storage tiers.

describe the benefits and usage of Cosmos DB, Azure SQL Database, Azure Database

MySQL, Azure Database for PostgreSQL, and SQL Managed Instance

describe the benefits and usage of Azure Marketplace

## **Azure solutions Available in Azure:**

describe the benefits and usage of Internet of Things (IoT) Hub, IoT Central, and Azure Sphere

describe the benefits and usage of Azure Synapse Analytics, HDInsight, and Azure Databricks

describe the benefits and usage of Azure Machine Learning, Cognitive Services and Azure Bot Service

describe the benefits and usage of serverless computing solutions that include Azure Functions and Logic Apps

describe the benefits and usage of Azure DevOps, GitHub, GitHub Actions, and Azure DevTest Labs

## **Azure management tools:**

describe the functionality and usage of the Azure Portal, Azure PowerShell, Azure CLI, Cloud Shell, and Azure Mobile App

describe the functionality and usage of Azure Advisor

describe the functionality and usage of Azure Resource Manager (ARM) templates

describe the functionality and usage of Azure Monitor

describe the functionality and usage of Azure Service Health

## **Module 2 review questions:**

## **Module 3: Security, Privacy, Compliance and Trust**

### **Learning objectives:**

#### **Azure Network Security:**

describe the concept of defense in depth

describe the functionality and usage of Network Security Groups (NSG)

describe the functionality and usage of Azure Firewall



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describe the functionality and usage of Azure DDoS protection

## Core Azure identity services

explain the difference between authentication and authorization

define Azure Active Directory

describe the functionality and usage of Azure Active Directory

describe the functionality and usage of Conditional Access, Multi-Factor Authentication (MFA), and Single Sign-On (SSO)

## Azure Governance methodologies

describe the functionality and usage of Role-Based Access Control (RBAC)

describe the functionality and usage of resource locks

describe the functionality and usage of tags

describe the functionality and usage of Azure Policy

describe the functionality and usage of Azure Blueprints

describe the Cloud Adoption Framework for Azure

## Monitoring and reporting

### Privacy, compliance, and data protection standards

describe the Microsoft core tenets of Security, Privacy, and Compliance

describe the purpose of the Microsoft Privacy Statement, Online Services Terms (OST) and Data Protection Amendment (DPA)

describe the purpose of the Trust Center

describe the purpose of the Azure compliance documentation

describe the purpose of Azure Sovereign Regions (Azure Government cloud services and Azure China cloud services)

## Azure Pricing and Support

### Azure subscriptions

### Planning and managing costs

1. identify factors that can affect costs (resource types, services, locations, ingress and egress traffic)
2. identify factors that can reduce costs (reserved instances, reserved capacity, hybrid use benefit, spot pricing)
3. describe the functionality and usage of the Pricing calculator and the Total Cost of Ownership (TCO) calculator
4. describe the functionality and usage of Azure Cost Management





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## Azure support options

### Azure Service Level Agreements (SLAs)

Describe the purpose of an Azure Service Level Agreement (SLA)  
Identify actions that can impact an SLA (i.e. Availability Zones)

### Service Lifecycle in Azure

Describe the service lifecycle in Azure (Public Preview and General Availability)

How will I execute practicals in this Microsoft Azure AZ-900 course?

You have to create an Azure Free Tier account to execute all the practicals.

### Teaching Contact Hours

Total duration- 1 month, 6 days/week and 1 hours/day. Theory and Particles

### Entry Requirements

This course can be taken only by Technical and NON Technical Graduates.

### How will this course enhance my career Growth?

This course will help you become either one of the following,

- Azure Fundamentals
- Azure Administrator Associate
- Azure Developer Associate
- Azure Solutions Architect Expert
- Azure DevOps Engineer Expert
- Azure Security Engineer Associate

### Students Benefits from SNIT

Training by Industry Experts on Real time scenarios

### The steps to gets placed

1. Complete the Course
2. Resume preparation
3. Mock Interviews
4. Attend Interviews
5. Get Selection & Appointment letter

The Institute offers placement free of cost to those students who complete the entire Curriculum successfully. As per the placement policies.

The Student shall only Pay the Institution fee for learning Subject not for Job



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1. Depending on vacancies, a student may be offered a job at any location.
2. Students will be supported for vacancies, once he is selected cannot refuse placement.
3. Student will be placed at salaries which will be depends on their performance

Q. Does SNIT guarantee a job through its job assistance program?

Ans. SNIT does not guarantee any job through the job assistance program. However, we will definitely offer you full assistance by circulating your resume among different companies.