

# AZ-500

## Microsoft Azure Security Technologies

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TRAINING & CERTIFICATION



Join Microsoft AZ-500 Training course at InfoSecTrain to get a better insight into Azure security core services and capabilities. This training is based on the certification curriculum. AZ-500 online training will help you to learn the efficient way to implement secure infrastructure solutions in the Microsoft Azure platform Which will further prepare you thoroughly for Microsoft AZ-500 Certification exam.

# OVERVIEW

AZ 500- Microsoft Azure Security Technologies training course aims to enhance the latest knowledge and skillset of Microsoft Azure security engineers who are involved in the :

- Implementation of security controls,
- Maintenance of the security posture,
- Managing identity and access, and
- Protection of data, applications, and networks.

After the successful completion of AZ 500- Microsoft Azure Security Technologies course, candidates will be able to

- identify and repair vulnerabilities by using a variety of security tools,
- implement threat protection, and
- respond to security incident escalations

This training is based on the certification curriculum. AZ-500 online training will help you to learn the efficient way to implement secure infrastructure solutions in the Microsoft Azure platform Which will further prepare you thoroughly for Microsoft AZ-500 Certification exam. It offers a complete learning path for you by including all the four subject areas on which the exam is based. During this training, you will also have to solve multiple practice papers. Thus, AZ-500 exam preparation through this training will help you to learn:

- Managing Azure identity and access
- Implementing Azure platform protection
- Managing Azure security operations
- Securing data and applications on Azure

## Target Audience

- IT professionals looking forward to become Azure Security Engineers
- IT professionals preparing for Microsoft 's AZ-500 exam

## Pre-Requirement

- Suggested to have knowledge of Microsoft Azure administrator associate
- Understanding of basic IT security principles





## Exam Information

The candidates need to pass the following certification exam get recognized as Microsoft Azure Security Technologies:

Certification Name	Microsoft Azure Security Technologies Exam AZ-500
Number of Questions	40 to 60
Test Duration	180 minutes
Passing score	700 out of 1000

# Why Infosec Train?



Certified &  
Experienced Instructor



Flexible Schedule



Access to the  
recorded  
sessions



Post Training  
Support



Tailor Made Training



4 hrs/day in  
Weekend/  
Weekday

## Our Expert Instructors



Krish is a senior technical consultant and passionate trainer. He has more than 15 years of experience in various IT domains including Cloud Computing, Security, Linux & Infrastructure Design. He has trained almost 400+ professionals worldwide on various IT domains.

### KRISH

CCSP | CCSK | AWS-Sec | AWS CSA-P | MCT | Azure Sec | CEH | MCTS



Rishabh served as a corporate trainer & Consultant with nearly 8+ years of experience across the diverse industry. Good hands-on experience in vulnerability assessment, Penetration Testing.

### RISHABH KOTIYAL

AZ 104 | AZ 500 | AZ 303 | AZ 304 | CEH | ECIH | ECSA | CND | CEI | securitY+ | CSA

# HAPPY LEARNERS FROM THE WORLD



**Shankar Tirumala**

Azure 500 | USA

Very much satisfied with the course and it's been a good opportunity to learn something new and informative. Thanks to the entire team involved in facilitating the course you have been very professional throughout the training.



**Saptarshi Chatterjee**

Azure 500 | India

I love this course, the explanation is great, the assignments are very good. I learned many things from this course.



**Sachin Chaudhari**

Azure 500 | India

It was a good session and an even good interaction with Trainer and All participants. while I am mainly from Governance background, I was able to grasp the Cloud concepts well. Lets Hope I am also able to use them to clear exams . Will be helpful in my current role and future career. Keep it up InfosecTrain!!!



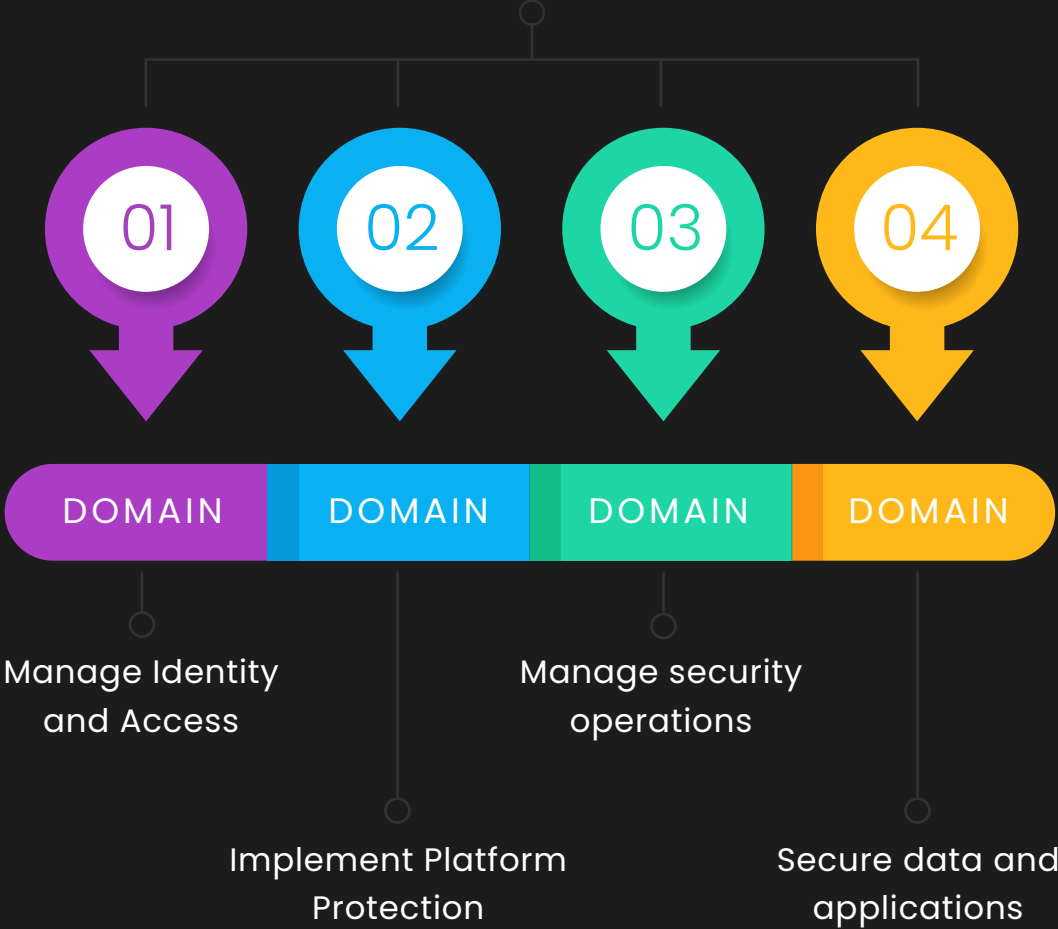
**Faisal Kidwai**

Azure 500 | India

Thank you for providing such a wonderful course. The trainer was excellent in delivering the course and provided opportunities to ask questions and talk about real life examples. Even the trainer committed to support our queries going forward even after the course completion which is really appreciated.

# DOMAIN WISE AGENDA

## Azure Security Engineer (AZ-500)



# Azure Security Engineer (AZ-500)

## Domain 1: Manage Identity and Access

### Manage Azure Active Directory identities

- Configure security for service principals
- Manage Azure AD directory groups
- Manage Azure AD users
- Configure password writeback
- Configure authentication methods including password hash and Pass Through Authentication (PTA), OAuth, and passwordless
- Transfer Azure subscriptions between Azure AD tenants

### Configure secure access by using Azure AD

- Monitor privileged access for Azure AD Privileged Identity Management (PIM)
- Configure Access Reviews
- Activate and configure PIM
- Implement Conditional Access policies including Multi-Factor Authentication
- Configure Azure AD identity protection

### Manage application access

- Create App Registration
- Configure App Registration permission scopes
- Manage App Registration permission consent
- Manage API access to Azure subscriptions and resources

### Manage application access

- Configure subscription and resource permissions
- Configure resource group permissions
- Configure custom RBAC roles
- Identify the appropriate role
- Apply principle of least privilege
- Interpret permissions
- Check access



## Domain 2: Implement Platform Protection

### Implement advanced network security

- Secure the connectivity of virtual networks (VPN authentication, Express Route encryption)
- Configure Network Security Groups (NSGs) and Application Security Groups (ASGs)
- Create and configure Azure Firewall
- Configure Azure Front Door service as an Application Gateway
- Configure a Web Application Firewall (WAF) on Azure Application Gateway
- Configure Azure Bastion
- Configure a firewall on a storage account, Azure SQL, KeyVault, or App Service
- Implement Service Endpoints
- Implement DDoS

### Configure advanced security for compute

- Configure endpoint protection
- Configure and monitor system updates for VMs
- Configure authentication for Azure Container Registry
- Implement vulnerability management
- Configure isolation for AKS
- Configure security for container registry
- Implement Azure Disk Encryption
- Configure authentication and security for Azure App Service
- Configure authentication for Azure Kubernetes Service
- Configure automatic updates

## Domain 3: Manage security operations

### Monitor security by using Azure Monitor

- Create and customize alerts
- Monitor logs by using Azure Monitor
- Configure diagnostic logging and log retention

### Monitor security by using Azure Security Center

- Create and customize alerts
- Evaluate vulnerability scans from Azure Security Center
- Configure Just in Time VM access by using Azure Security Center
- Configure centralized policy management by using Azure Security Center
- Configure compliance policies and evaluate for compliance by using Azure Security Center

### Monitor security by using Azure Sentinel

- Create and customize alerts
- Configure data sources to Azure Sentinel
- Evaluate results from Azure Sentinel
- Configure a playbook for a security event by using Azure Sentinel

### Configure security policies

- Configure security settings by using Azure Policy
- Configure security settings by using Azure Blueprint

## Domain 4: Secure data and applications

### Configure security for storage

- Configure access control for storage accounts
- Configure key management for storage accounts
- Configure Azure AD authentication for Azure Storage
- Configure Azure AD Domain Services authentication for Azure Files
- Create and manage Shared Access Signatures (SAS)
- Create a shared access policy for a blob or blob container
- Configure Storage Service Encryption

### Configure security for databases

- Enable database authentication
- Enable database auditing
- Configure Azure SQL Database Advanced Threat Protection
- Implement database encryption
- Implement Azure SQL Database Always Encrypted

### Configure and manage Key Vault

- Manage access to Key Vault
- Manage permissions to secrets, certificates, and keys
- Configure RBAC usage in Azure Key Vault
- Manage certificates
- Manage secrets
- Configure key rotation
- Backup and restore of Key Vault items



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