AZURE SECURITY

Complete Course Content + Quiz

INT RODUCTI ON

- AzureSecurityfocuses on protecting cloud resources, data, identities, networks, and applications hostedon Microsoft Azure.This course covers core Azure security concepts, tools, and best practices required for Cloud Security Engineer, SOC Analyst, and Azure Security roles.Azure security follows the Shared Responsibility Model, where Microsoft and customers both play important roles.

OBJECTI VES

- Aftercompleting this course, learners will be able to:Understand Azure security architectureImplement identity and access securitySecure networks and dataMonitor and respond to security incidentsUnderstand compliance and governance in AzurePrepare for Azure Security (AZ-500) level roles

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WHO SHOULD LEARN AZURE SECURITY

- CloudComputinglearnersCyber Security studentsSOC / Blue Team professionalsAzure AdministratorsCloud Security Engineer a spi ran t s
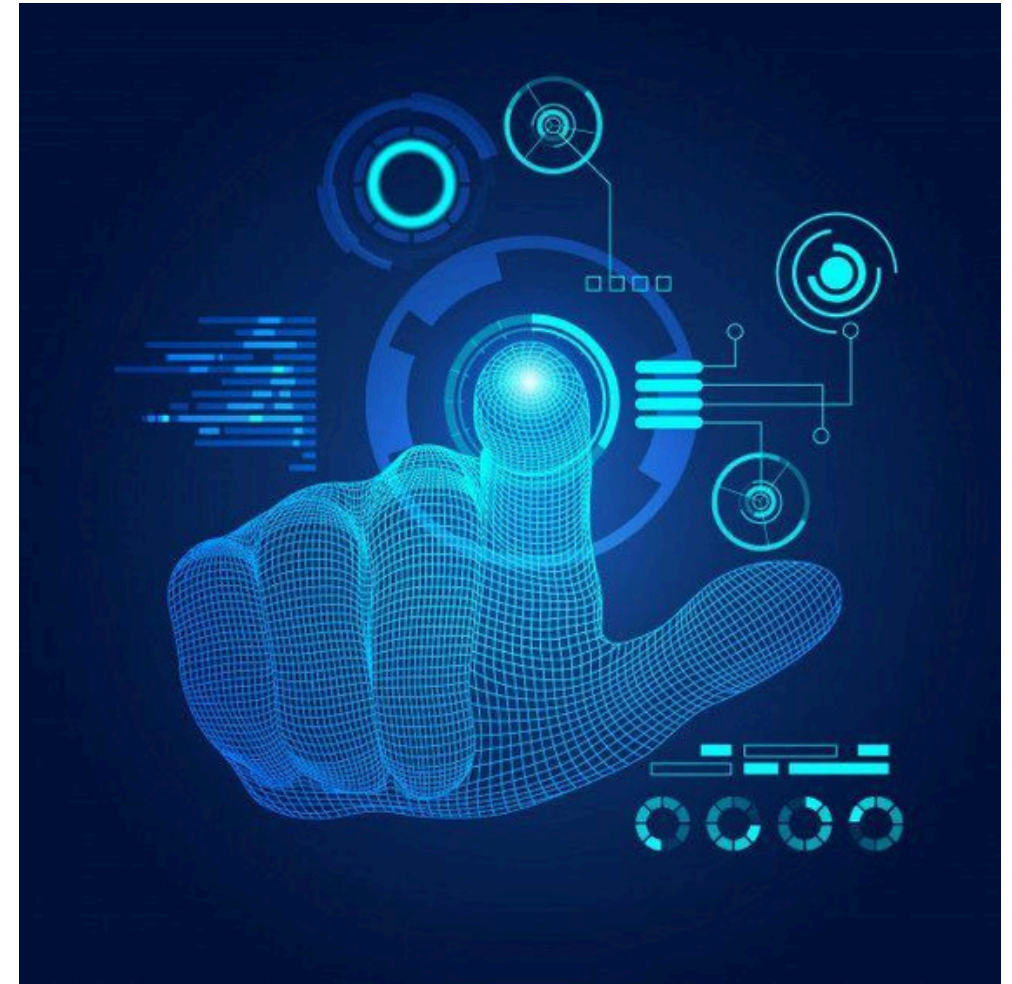
MODULE 1 AZURE SHAREDRESPONSIBILITY M ODE L

WhatisShared Responsibility Model?Microsoft (Security OF the Cloud):Physical data centersNetwork infrastructureHypervisorCustomer (Security IN the Cloud):Data protectionIdentity and accessNetwork configurationsApplication security
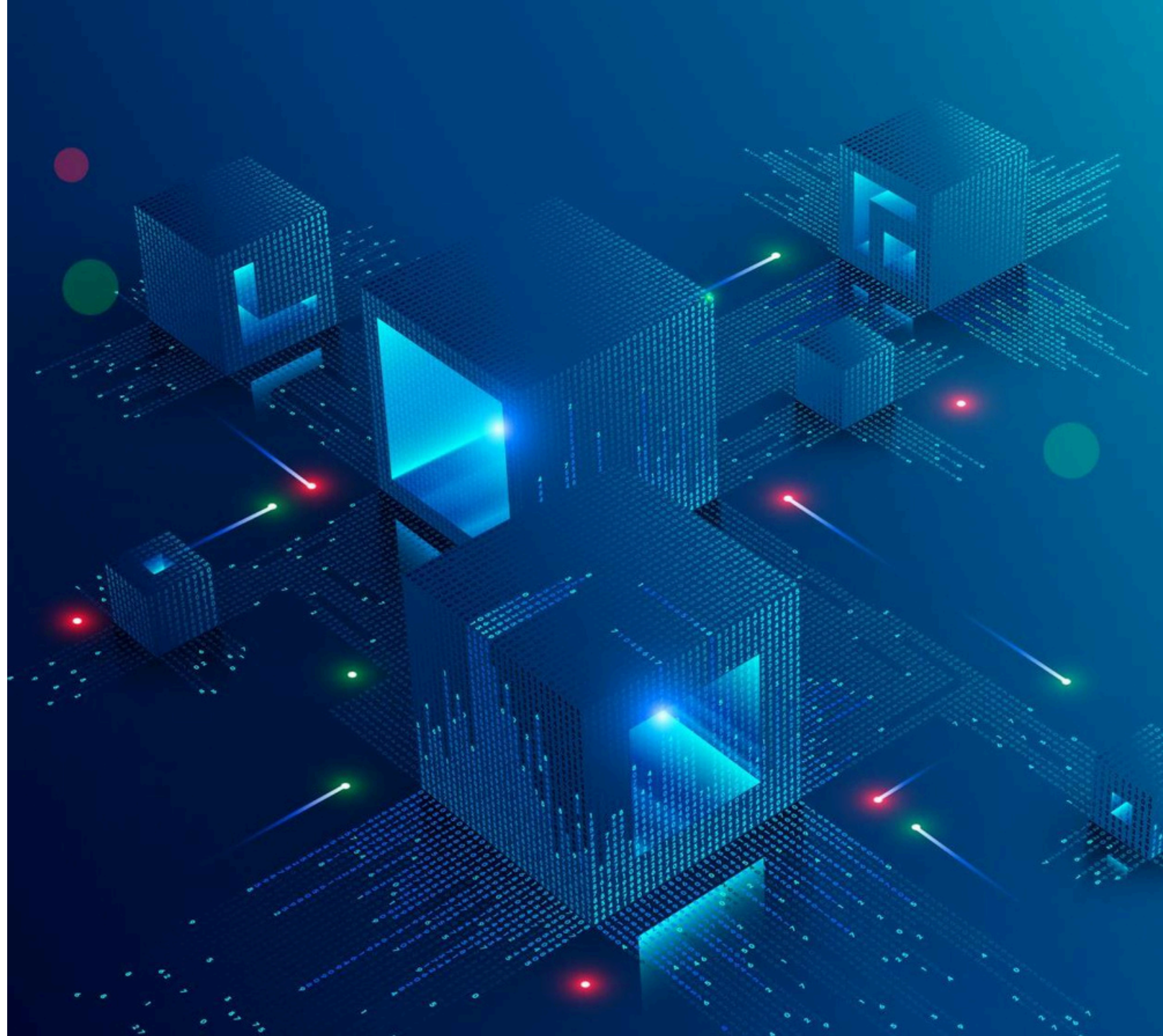
MODULE 2AZURE IDENTITY & ACCESS MANA GE MENT

- AzureActiveDirectory(AzureAD)Azure AD manages:User identitiesAuthenticationAuthorizationKey Identity ConceptsUsers and GroupsRolesRole-Based Access Control (RBAC)Least privilegeIdentity Security Best PracticesEnable Multi-Factor Authentication (MFA)Use RBACMonitor sign-in a ct ivit y

MODULE 3AZURE NETWORK SECURITY

- Azure VirtualNetwork (Vnet)A private network for Azure resources.Network Security ComponentsNetwork Security Groups (NSGs)Azure FirewallApplication Security GroupsAzure DDoS ProtectionNetwork Security Best PracticesRestrict inbound accessUse private endpointsSegment networks

MODULE 4AZURE DATA SECURITY

- DataStatesDataatRestData in TransitData Protection TechniquesEncryptionAzure Key VaultSecure access policiesAzure Storage SecurityPrivate storage accountsEncryption enabledAccess keys protection

MODULE 5AZURE KEY VAULT

- Whatis AzureKey Vault?Azure Key Vault securely
s tor es :Sec rets Key sCert ifi ca t esBenefitsCentralized secret managementSecure accessAudit logging

MODULE 6AZURE SECURITY MANAGEMENT TOOLS

- **MicrosoftDefender for**

CloudSecurity posture managementThreat protectionSecurity recommendationsAzure Security Center (Concept)Continuous assessmentSecure score
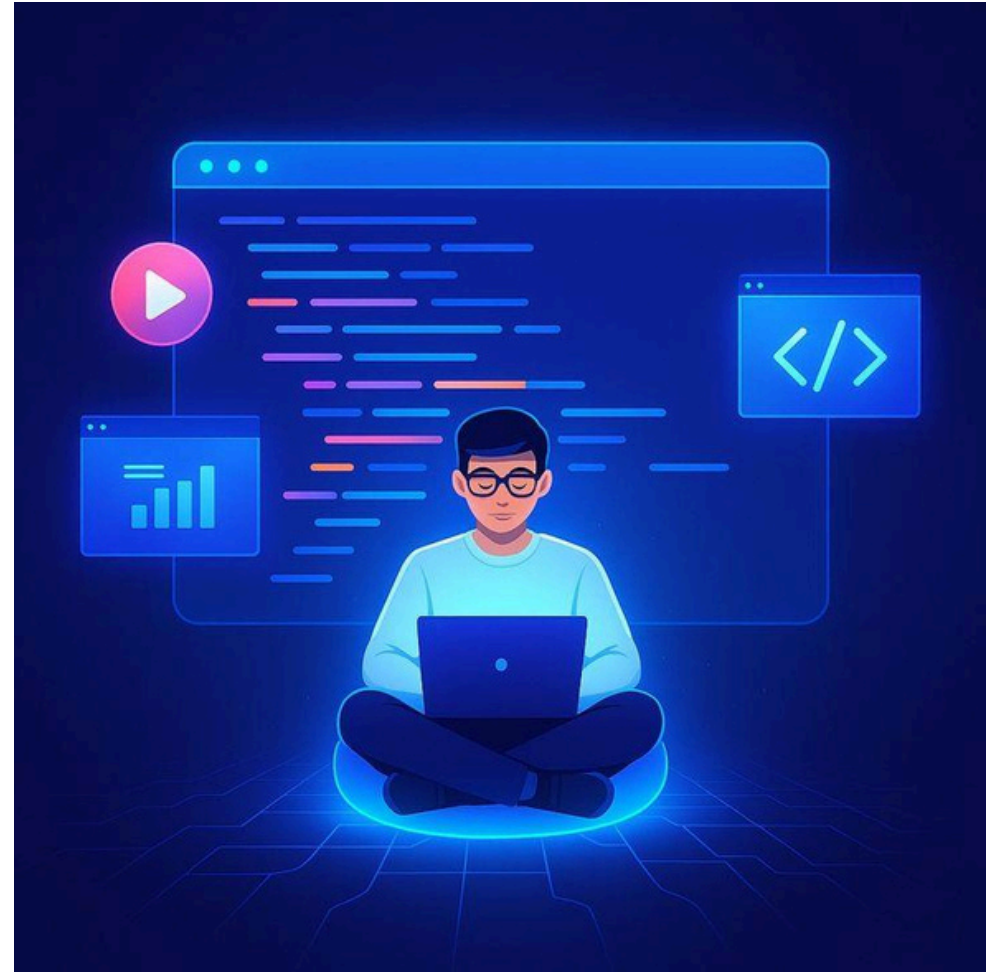
MODULE 7LOGGING, MONITORING & THREAT DET ECT ION

- AzureMonitorCollectslogs andmetricsAzure Sentinel (SIEM)Cloud-native SIEMThreat detection and responseUse CasesAlert monitoringIncident investigationSOC operations

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MODULE 8INCIDENT RESPONSE IN AZURE

- IncidentResponse StepsDetectionAnalysisContainmentEr adicationRecoveryDocumentationAzur e Tools for Incident ResponseAzure MonitorAzure SentinelActivity logs

MODULE 9AZURE GOVERNANCE & COMPLIANCE

- GovernanceToolsAzure PolicyManagement GroupsResource LocksCompliance ConceptsData privacyRegulatory standardsAuditing

MODULE 10APPLICATION SECURITY IN AZURE

- ApplicationSecurityMeasuresSecure APIsManaged identitiesSecret managementWeb Application ProtectionAzure Web Application Firewall (WAF)HTTPS enforcement

MODULE 11AZURE SECURITY BEST PRACTICES

EnableMFAforallusersUse least privilege accessEncrypt sensitive dataContinuous monitoringRegular security reviews

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MODULE 12CAREER PATH IN AZURE SECURITY

- JobRolesAzure Security EngineerCloud Security AnalystSOC AnalystDevSecOps EngineerSkills RequiredAzure fundamentalsNetworking knowledgeSecurity conceptsIncident handling

FINAL NOTE

- AzureSecurityisessentialfor protecting modern cloud infrastructure.Strong security practices ensure confidentiality, integrity, availability, and compliance.

AZURE SECURITYQUIZ QUESTIONS (MCQs)

•Q1. Azure Security mainly focuses on:

•A. Microsoft only

•B. Customer only

•C. Both Microsoft and customer

•D. Government

   Answer: B

Q2. In Azure shared responsibility model, who secures customer data?

A. Microsoft only

B. Customer only

C. Both Microsoft and customer

D. Government
Answer: C

AZURE SECURITYQUIZ QUESTIONS (MCQs)

Q3. RBAC is used for: A. Backup B. Monitoring

C. Access control

D. Networking

Answer: C

Q4. Which service provides secret management in Azure?

A. Azure Monitor B. Azure Firewall C. Azure Key Vault D. Azure

Policy

Answer: C

AZURE SECURITYQUIZ QUESTIONS (MCQs)

Q5. NSG is used to: A. Store data B.

Control network traffic C. Manage users

D. Monitor costs

Answer: B

Q6. Azure Sentinel is:

A. Antivirus

B. Firewall

C. SIEM solution

D. Load balancer

Answer: C

Q7. Which tool provides security recommendations in Azure?

Answer: Microsoft Defender for Cloud

AZURE SECURITYQUIZ QUESTIONS (MCQs)

Q8. Data encrypted while moving over

network is called:

Answer: Data in transit

Q9. Azure WAF protects against:

Answer: Web attacks

Q10. AZ-500 is related to:

Answer: Azure Security