



VERSION

27

SR. CODE

EAPL/CRASH/CRTC25

COURSE CODE

EACAA

SUB CATEGORY

NETWORKING & SECURITY



TOTAL DURATION
45
HOURS



THEORY TAKEN
10
HOURS



PRACTICAL TAKEN
35
HOURS

ELYSIUM
ACADEMY
MICROSOFT
AZURE
ADMINISTRATORS
(AZ-104)
**ELYSIUM
ACADEMY
MICROSOFT
AZURE
ADMINISTRATORS
(AZ-104)**
ELYSIUM
ACADEMY
MICROSOFT
AZURE

COURSE DESCRIPTION



Microsoft azure administrators (az-104) Implement, manage and secure Azure storage accounts, blob storage, and Azure files with File Sync. Configure intersite connectivity solutions like VNet Peering, virtual network gateways, and Site-to-Site VPN connections. Configure virtual networks including planning, IP addressing, Azure DNS, Network Security Groups, and Azure Firewall. Manage network traffic using network routing and service endpoints, Azure load balancer, and Azure Application Gateway.

COURSE GOALS



This course teaches how to manage their Azure subscriptions, secure identities, 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.

FUTURE SCOPE



Given the widespread adoption of cloud-based solutions by businesses and the fact that Microsoft Azure is one of the top cloud providers, the future career prospects for Azure administrators are highly positive. Because they will be in charge of managing and maintaining cloud-based infrastructure, maximizing performance and cost, guaranteeing security, and offering assistance to end users, qualified Azure Administrators are anticipated to be in greater demand in the years to come.

01

CHAPTER

MANAGE AZURE IDENTITIES AND GOVERNANCE

1. Azure Ad Objects

1. Create users and groups
2. Manage licenses in Azure AD
3. Create administrative units
4. Manage user and group properties

2. Azure Identity

1. Manage device settings and device identity
2. Perform bulk updates
3. Manage guest accounts
4. Configure self-service password reset

3. Access Control

1. Create custom role-based access control (RBAC) and Azure AD roles
2. Provide access to Azure resources by assigning roles at different scopes
3. Interpret access assignments



02
HRS



05
HRS

02

CHAPTER

MANAGE AZURE SUBSCRIPTIONS AND GOVERNANCE

1. Azure Subscriptions And Governance

1. Configure and manage



02
HRS



05
HRS

2. Configure resource locks
3. Apply and manage tags on resources
4. Manage resource groups
5. Manage subscriptions
6. Manage costs by using alerts, budgets, and recommendations
7. Configure management groups

03

CHAPTER

IMPLEMENT AND MANAGE STORAGE

1. Configure Access To Storage

1. Configure network access to storage accounts
2. Create and configure storage accounts
3. Generate shared access signature tokens
4. Configure stored access policies
5. Manage access keys
6. Configure Azure AD authentication for a storage account
7. Configure storage encryption

2. Manage Data In Azure Storage Accounts

1. Create import and export jobs
2. Manage data by using Azure Storage Explorer and AZ Copy



3. Implement Azure Storage redundancy
4. Configure object replication

3. Configure Azure Files And Azure Blob Storage

1. Create an Azure file share
2. Configure Azure Blob Storage
3. Configure storage tiers
4. Configure blob lifecycle management

04

CHAPTER

DEPLOY AND MANAGE AZURE COMPUTE RESOURCES

1. Automate Deployment Of Resources By Using Templates

1. Modify an ARM template
2. Deploy a template
3. Save a deployment as an ARM template
4. Deploy virtual machine (VM) extensions

2. Create And Configure Vms

1. Create a VM
2. Manage images by using the Azure Compute Gallery
3. Configure Azure Disk Encryption
4. Move VMs from one resource group to another
5. Manage VM sizes



6. Add data disks
7. Configure VM network settings
8. Configure VM availability options
9. Deploy and configure VM scale sets

05

CHAPTER

CREATE AND CONFIGURE CONTAINERS

1. Configure Containers

1. Configure sizing and scaling for Azure Container Instances
2. Configure container groups for Azure Container Instances
3. Create and configure Azure Container Apps
4. Configure storage for Azure Kubernetes Service (AKS)
5. Configure scaling for AKS
6. Configure network connections for AKS
7. Upgrade an AKS cluster

2. Create And Configure An Azure App Service

1. Create an App Service plan
2. Configure scaling settings in an App Service plan
3. Create an App Service
4. Secure an App Service
5. Configure custom domain names
6. Configure backup for an App Service



7. Configure networking settings
8. Configure deployment settings

06

CHAPTER

CONFIGURE AND MANAGE VIRTUAL NETWORKING

1. Configure Virtual Networks

1. Create and configure virtual networks and subnets
2. Create and configure virtual network peering
3. Configure private and public IP addresses
4. Configure user-defined network routes
5. Configure Azure DNS

2. Configure Secure Access to Virtual Networks

1. Create and configure network security groups (NSGs) and application security groups (ASGs)
2. Evaluate effective security rules
3. Implement Azure Bastion
4. Configure service endpoints
5. Configure private endpoints

3. Configure Load Balancing

1. Configure Azure Application Gateway
2. Configure an internal or public load balancer
3. Troubleshoot load balancing



4. Monitor Virtual Networking

1. Monitor on-premises connectivity
2. Configure And Use Azure Monitor For Networks
3. Use Azure Network Watcher
4. Troubleshoot external networking
5. Troubleshoot virtual network connectivity

07

CHAPTER

MONITOR AND MAINTAIN AZURE RESOURCES

1. Monitor Resources By Using Azure Monitor

1. Configure and interpret metrics
2. Configure Azure Monitor Logs
3. Query and analyze logs
4. Set up alerts and actions
5. Configure monitoring of VMs, storage accounts, and networks by using VM insights

2. Implement Backup And Recovery

1. Create an Azure Recovery Services vault
2. Create an Azure Backup vault
3. Create and configure backup policy
4. Perform backup and restore operations by using Azure Backup
5. Configure Azure Site Recovery for Azure resources
6. Perform failover to a secondary region by using Azure Site Recovery
7. Configure and review backup reports



01
HRS



04
HRS

Placement Assistance

100%

135+ Professional Courses

Practical Sessions

90%

67+ Global Pacts

Corporate Placements

65%

170+ IT Companies Tie-Up

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