



## Course Plan

# Azure Administrator (AZ-104)

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# COURSE HIGHLIGHTS

## **Guided Learning:**

Our mentor, Heartin Kanikathottu will personally lead the live sessions, ensuring you get top-notch training

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## **Exclusive Labs:**

Access over 150 custom labs beyond Microsoft's standard offerings

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## **Azure Access:**

Hands-on lab experience with actual Azure environments

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## **Support Team:**

A dedicated human team available 7 days a week to clear doubts and assist in labs over Zoom meetings

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## **24/7 Zoom Meetings:**

You get complimentary access to our KEWA WhatsApp group with old and new students and 24/7 always-on Zoom meetings to discuss topics with other students, trainers or even the Trainso team without any need for any scheduling

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## **Practice Questions:**

Our quizzes stand out, offering answers with detailed explanations and are linked to specific lab exercises for complete understanding

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## **Live Project & POCs:**

Apply your skills to real-world projects and POCs, solidifying your learning and experience

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## **Student Presentations:**

Students need to take lab walkthrough sessions in our Daily Azure Community (DAC) at least once a week. This is one of the most unique features of our course that will not just help you check your understanding but also improve your public speaking skills

# Session Plan

AZURE ADMINISTRATOR (AZ-104) DETAILED SESSION PLAN				
Modules	Topics	Recipes	Session	Sub Topics
Administer Identity	Configure Azure Active Directory	6	Session 1	Introduction
				Describe Azure Active Directory Benefits and Features
				Describe Azure AD Concepts
				Compare AD DS to Azure Active Directory
			Session 2	Select Azure Active Directory Editions
				Implement Azure AD Device Identities
				Implement Self Service Password Reset
				Knowledge Check
	Configure Users and Group Accounts	12	Session 3	Summary and Resources
				Introduction
				Create User Accounts
				Manage User Accounts
			Session 4	Create Bulk Accounts
				Create Group Accounts
				Assign Licenses to Users and Groups
				Create Administrative Units
Administer Governance and Compliance	Configure Subscriptions	3	Session 5	Demonstration (MS Learn) - Users and Groups
				Knowledge Check
				Summary and Resources
				Introduction
				Identify Regions
				Implement Azure Subscriptions
				Obtain a Subscription
				Create Resource Groups
				Determine Resource Limits
	Create an Azure Resource Hierarchy			
	Configure Azure Policy	8	Session 6	Apply Resource Tagging
				Manage Costs
				Knowledge Check
			Session 7	Introduction
				Implement Azure Policy
				Create Azure Policies
Create Policy Definitions				
Configure Role Based Access Control	5	Session 8	Create Initiative Definitions	
			Scope the Initiative Definition	
			Determine Compliance	
			Demonstration (MS Learn) - Azure Policy	
			Knowledge Check	
Configure Role Based Access Control	5	Session 8	Introduction	
			Compare Azure RBAC Roles to Azure AD Roles	
			Create a Role Definition	
			Create a Role Assignment	
			Apply RBAC Authentication	
			Determine Azure RBAC Roles	
			Demonstration (MS Learn) - Azure RBAC	



Administer Azure Resources	Configure Azure Resources with Tools	3	Session 9	Introduction
				Use the Azure Portal
				Demonstration (MS Learn) Azure Portal
				Use Azure Cloud Shell
				Demonstration (MS Learn) Cloud Shell
				Use Azure PowerShell
				Demonstration (MS Learn) - Working with PowerShell (optional)
				Use Azure CLI
				Demonstration (MS Learn) Working with Azure CLI (optional)
				Knowledge Check
Administer Azure Resources	Configure Resources with ARM Templates	1	Session 10	Introduction
				Review ARM Template Advantages
				Explore the ARM Template Schema
				Explore the ARM Template Parameters
				Consider Azure Bicep Templates
				Demonstration (MS Learn) - QuickStart Templates
				Demonstration (MS Learn) - Run Templates with PowerShell (optional)
Administer Virtual Networking	Configure Virtual Networks	10	Session 11	Introduction
				Plan Virtual Networks
				Create Subnets
			Session 12	Create Virtual Networks
				Plan IP Addressing
				Create Public IP Addresses
	Associate Public IP Addresses			
	Associate Private IP Addresses			
	Demonstration (MS Learn) - Create Virtual Networks			
	Configure Network Security Groups	4	Session 13	Introduction
				Implement Network Security Groups
				Determine NSG Rules
				Determine NSG Effective Rules
				Create NSG Rules
				Implement Application Security Groups (ASGs)
	Demonstration (MS Learn) - NSGs			
	Knowledge Check			
	Configure Azure DNS	3	Session 14	Introduction
Identify Domains and Custom Domains				
Verify Custom Domain Names (optional)				
Create Azure DNS Zones				
Delegate DNS Domains				
Add DNS Record Sets				
Plan for Private DNS Zones				
Determine Private Zone Scenarios				
Demonstration (MS Learn) - DNS Name Resolution				
Knowledge check				
Administer Intersite Connectivity	Configure VNet Peering	1	Session 15	Introduction
				Determine VNet Peering Uses
				Determine Gateway Transit and Connectivity Needs
				Create Vnet peering
				Determine Service Chaining Uses
	Demonstration (MS Learn) - VNet Peering			
	Configure Network Routing and Endpoint	3	Session 16	Introduction
				Review System Routes
				Identify User Defined Routes
				Examine a Routing Example
Demonstration (MS Learn) - Custom Routing Tables				
Determine Service Endpoint Uses and Services				
Identify Private Link Uses				
Knowledge check				

Administer Network Traffic	Configure Load Balancer	5	Session 17	Introduction
				Choose a Load Balancer Solution
				Implement a Public Load Balancer
				Implement an Internal Load Balancer
				Determine Load Balancer SKUs
				Create Backend Pools
				Create Load Balancer Rules
				Configure Session Persistence
				Create Health Probes
				Knowledge check
Configure Azure Application Gateway	2	Session 18	Introduction	
			Implement Application Gateway	
			Determine Application Gateway Routing	
			Setup Application Gateway Components	
			Knowledge Check	
Configure Network Watcher		Session 19	Introduction	
			Describe Network Watcher Features	
			Review IP Flow Verify Diagnostics	
			Review Next Hop Diagnostics	
			Visualize the Network Topology	
Administer Azure Storage	Configure Storage Accounts	4	Session 20	Introduction
				Implement Azure Storage
				Explore Azure Storage Services
				Determine Storage Account Kinds
				Determine Replication Strategies
				Access Storage
				Secure Storage Endpoints
				Demonstration (MS Learn) Secure Storage Endpoints
	Knowledge Check			
	Configure Blob Storage	9	Session 21	Introduction
				Implement Blob Storage
				Create Blob Containers
				Create Blob Access Tiers
			Add Blob Lifecycle Management Rules	
			Session 22	Determine Blob Object Replication
	Demonstration (MS Learn) - Blob Storage			
	Configure Storage Security	11	Session 23	Introduction
				Review Storage-Security Strategies
				Create Shared Access Signatures
				Identify URI and SAS Parameters
				Demonstration (MS Learn) - SAS in the Portal
				Determine Storage Service Encryption
				Create Customer Managed Keys
	Apply Storage Security Best Practices			
	Configure Azure Files and File Sync	5	Session 24	Introduction
				Compare Files to Blobs
				Manage File Shares
				Create File Share Snapshots
Demonstration (MS Learn) - File Shares				
Implement File Sync				
Identify File Sync Components				
Setup File Sync				
Configure Storage with Tools				
Knowledge Check				
Summary and Resources				

Administer Azure Virtual Machines	Configure Virtual Machines	8	Session 25	Introduction
				Review Cloud Services Responsibilities
				Plan Virtual Machines
				Determine Virtual Machine Sizing
				Determine Virtual Machine Storage
				Demonstration (MS Learn) – Create Virtual Machines
				Connect to Virtual Machines
				Connect to Windows Virtual Machines
				Connect to Linux Virtual Machines
				Demonstration (MS Learn) - Connect to Linux Virtual Machines (optional)
	Configure Virtual Machine Availability	16	Session 26	Introduction
				Plan for Maintenance and Downtime
				Setup Availability Sets
			Session 27	Review Update and Fault Domains
				Review Availability Zones
Session 28			Compare Vertical and Horizontal Scaling	
			Create Scale Sets	
			Configure Autoscale	
Configure Virtual Machine Extensions	5	Session 29	Introduction	
			Implement Virtual Machine Extensions	
			Implement Custom Script-Extensions	
			Implement Desired State Configuration	
			Demonstration (MS Learn) Custom Script Extensions	
Knowledge Check				
Administer PaaS Compute Options	Configure App Service Plans	3	Session 30	Introduction
				Implement Azure App Service Plans
				Determine App Service Plan Pricing
				Scale Up and Scale Out the App Service
				Configure App Service Plan Scaling
	Demonstration (MS Learn) - Create an App Service Plan			
	Configure App Service	9	Session 31	Introduction
				Implement Azure App Services
				Create an App Service
				Create Deployment Slots
				Add Deployment-Slots
			Session 32	Secure an App Service
				Create Custom Domain Names
				Backup an App Service
				Use Application Insights
				Demonstration (MS Learn) - Create an App Service
	Configure Azure Container Instances	8	Session 33	Introduction
				Compare Containers to Virtual Machines
				Explore Azure Container Instances Benefits
				Implement Container Groups
			Session 34	Implement Azure Container Apps
Understand the Docker Platform				
Demonstration (MS Learn) - Deploy Azure Container Instances				
Demonstration (MS Learn) – Deploy ACA				
Knowledge Check				

Administer Data Protection	Configure File and Folder Backups	5	Session 35	Introduction
				Describe Azure Backup Benefits
				Implement Azure Backup Center
				Setup Recovery Service Vault Backup Options
				Demonstration – Backup Azure File Shares
				Configure On-Premises File and Folder Backups
				Manage the Azure Recovery Services Agent
				Demonstration (MS Learn) – Backup Files and Folders
	Configure Virtual Machine Backups	6	Session 36	Introduction
				Protect Virtual Machine Data
				Create Virtual Machine Snapshots
				Setup Recovery Services Vault Backup Options
				Backup Virtual Machines
				Restore Virtual Machines
Session 37		Implement Azure Backup Server		
		Compare Backup Options		
		Manage Soft Delete		
		Implement Azure Site Recovery		
Demonstration (MS Learn) – Virtual Machine Backups				
Knowledge Check				
Administer Monitoring	Configure Azure Monitor		Session 38	Introduction
				Describe Azure Monitor Key Capabilities
				Describe Azure Monitor Components
				Define Metrics and Logs
				Identify Data Types
				Describe Activity Log Events
				Query the Activity Log
	Knowledge Check			
	Configure Azure Alerts	3	Session 39	Introduction
				Manage Azure Monitor Alerts
				Create Alert Rules
				Create Action Groups
Demonstration (MS Learn) - Alerts				
Knowledge Check				
Configure Log Analytics	3	Session 40	Introduction	
			Determine Log Analytics Uses	
			Create a Workspace	
			Visualize Log Analytics Data	
			Structure Log Analytics Queries	
			Demonstration (MS Learn) - Log Analytics	
			Knowledge Check	
Summary and Resources				

# Lab Recipe List

## Module 1: Administer Identity

### Topic: Configure Microsoft Entra ID

1. **Recipe Name:** Registering a Device to Microsoft Entra

**Subtopic covered:** Configure Device Identities

**Description:** This recipe provides step-by-step instructions on how to register a device to the Microsoft Entra domain, granting it access and management capabilities within your organization's Azure environment.

**Approximate Duration:** 1 hour

**Status:** Available

2. **Recipe Name:** Managing Device Identities Using Azure Portal

**Subtopic covered:** Configure Device Identities

**Description:** This recipe provides guidance on efficiently managing device identities in your organization through the Azure portal, ensuring secure and streamlined device access and management within your Azure environment.

**Approximate Duration:** 1 hour

**Status:** Available

3. **Recipe Name:** Implementing Self Service Password Reset

**Subtopic covered:** Implement Self Service Password Reset

**Description:** This recipe should show you how to enable Self Service Password Reset (SSPR) in Microsoft Entra, allowing users to reset their own passwords securely and efficiently.

**Approximate Duration:** 30 minutes

**Status:** Available

## Topic: Configure Users and Group Accounts

### 4. **Recipe Name:** Creating Users in Microsoft Entra

**Subtopic covered:** Create User Accounts

**Description:** This recipe demonstrates how to create new internal user accounts and invite external collaborators using the Azure Portal, facilitating secure access and collaboration within your organization and with external partners.

**Approximate Duration:** 1 hour

**Status:** Available

### 5. **Recipe Name:** Implementing Role Assignments in Microsoft Entra

**Subtopic covered:** Manage User Accounts

**Description:** This recipe should show how to assign user administrator role, Global admin to a user in Microsoft Entra.

**Approximate Duration:** 1 hour

**Status:** Available

### 6. **Recipe Name:** Configuring External Collaboration Settings in Microsoft Entra

**Subtopic covered:** Compare AD DS to Microsoft Entra

**Description:** This recipe shows how to modify the External collaboration settings to either invite or restrict external partners to sign into Azure portal.

**Approximate Duration:** 1 hour

**Status:** Available

### 7. **Recipe Name:** Creating Bulk Users in Microsoft Entra ID Using Azure Portal

**Subtopic covered:** Create Bulk Accounts

**Description:** This recipe demonstrates how to efficiently create multiple user accounts in Microsoft Entra using the Azure portal, streamlining the onboarding process for your organization's employees or users.

**Approximate Duration:** 1 hour

**Status:** Available



**8. Recipe Name:** Deleting Bulk Users in Microsoft Entra ID

**Subtopic covered:** Manage User Accounts

**Description:** This recipe outlines the procedure to efficiently delete multiple user accounts in Microsoft Entra, allowing you to manage user access and maintain your directory's data hygiene.

**Approximate Duration:** 1 hour

**Status:** Available

**9. Recipe Name:** Creating Groups with Assigned Membership Type in Microsoft Entra

**Subtopic covered:** Create Group Accounts

**Description:** This recipe outlines the steps for creating groups with assigned membership types in Microsoft Entra, enabling you to efficiently manage and control user access and permissions within your Azure environment based on defined membership criteria and roles.

**Approximate Duration:** 1 hour

**Status:** Available

**10. Recipe Name:** Adding Owner to the Microsoft Entra Groups

**Subtopic covered:** Create Group Accounts

**Description:** This recipe walks you through the process of creating Microsoft Entra groups and assigning an owner to each group, facilitating efficient access and permissions management within your organization's Azure environment.

**Approximate Duration:** 1 hour

**Status:** Available

**11. Recipe Name:** Configuring the Expiration Policy for Microsoft 365 Groups

**Subtopic covered:** Create Administrative Units

**Description:** This recipe explains how to configure the expiration policy for Microsoft 365 groups and manage security groups in Microsoft Entra, enabling you to control the lifecycle of groups, their membership, and access permissions within your organization's Azure environment effectively.

**Approximate Duration:** 1 hour

**Status:** Available

12. **Recipe Name:** Assigning a License to a User in Microsoft Entra

**Subtopic covered:** Assign Licenses to Users and Groups

**Description:** This recipe provides a step-by-step guide on how to assign a license to a user in Microsoft Entra, ensuring that they have access to the necessary Microsoft 365 or Azure services and applications.

**Approximate Duration:** 1 hour

**Status:** Available

13. **Recipe Name:** Creating and Adding Users to Administrative Units

**Subtopic covered:** Create Administrative Units

**Description:** This recipe should show how to logically group users based on specific organizational needs using administrative units.

**Approximate Duration:** 1 hour

**Status:** Available

## Topic: Additional Recipes

14. **Recipe Name:** Setting Up a Google Identity Provider in Microsoft Entra

**Subtopic covered:** Additional recipe

**Description:** This recipe guides you through the process of setting up the Google Identity Provider in Microsoft Entra, enabling seamless authentication and access control for users with Google accounts within your organization's Azure environment.

**Approximate Duration:** 1 hour 45 minutes

**Status:** Available

15. **Recipe Name:** Disabling Security Default

**Subtopic covered:** Additional recipe

**Description:** This recipe shows how to disable security defaults which is a requirement before you can do conditional access policy in Azure.

**Approximate Duration:** 1 hour

**Status:** Available

16. **Recipe Name:** Creating a Conditional Access Policy for MFA from Azure Portal

**Subtopic covered:** Additional recipe

**Description:** This recipe shows how to create an Microsoft Entra Conditional Access policy that requires Global Administrators to use Multi-Factor Authentication (MFA).

**Approximate Duration:** 1 hour

**Status:** Available

17. **Recipe Name:** Creating a Conditional Access Policy for MFA from Microsoft Entra Portal

**Subtopic covered:** Additional recipe

**Description:** This recipe shows how to create an Microsoft Entra Conditional Access policy that requires Global Administrators to use Multi-Factor Authentication (MFA).

**Approximate Duration:** 1 hour

**Status:** Available

18. **Recipe Name:** Creating Access Review in Azure Portal

**Subtopic covered:** Additional recipe

**Description:** This recipe shows how users can review members of the group with a scope of guests only and reviewers being group owners.

**Approximate Duration:** 1 hour

**Status:** Available

19. **Recipe Name:** Making a Role Eligible for Assignment Through PIM

**Subtopic covered:** Additional recipe

**Description:** This recipe involves configuring the role settings within the PIM (Privileged Identity Management) system, defining the appropriate permissions and access controls, and ensuring that the designated role aligns with the security and organizational requirements for privileged access.

**Approximate Duration:** 1.5 hours

**Status:** Available

## **20. Recipe Name:** Activating Roles through PIM

**Subtopic covered:** Additional recipe

**Description:** This recipe entails the process of enabling specific roles with privileged access by configuring and granting temporary permissions, typically following a request and approval workflow to ensure controlled and monitored usage of elevated privileges.

**Approximate Duration:** 1.5 hours

**Status:** Available

## Module 2: Administer Governance and Compliance

### Topic: Configure Subscriptions

1. **Recipe Name:** Creating a Free Tier Azure account

**Subtopic covered:** Obtain a Subscription

**Description:** This recipe will guide you through the process of creating an Azure account, enabling you to access Microsoft Azure's cloud services and resources for your organization's computing needs.

**Approximate Duration:** 1 hour

**Status:** Available

2. **Recipe Name:** Creating an Azure Resource Group

**Subtopic covered:** Create Resource Groups

**Description:** This recipe provides step-by-step instructions on how to create a resource group in Azure, allowing you to organize and manage Azure resources for your projects or applications effectively.

**Approximate Duration:** 30 minutes

**Status:** Available

3. **Recipe Name:** Adding Tags to a Resource Group

**Subtopic covered:** Apply Resource Tagging

**Description:** This recipe explains how to add tags to your Azure resources, enabling you to categorize, label, and organize them for improved resource management, cost tracking, and organization within your Azure environment.

**Approximate Duration:** 30 minutes

**Status:** Available

### Topic: Configure Azure Policy

4. **Recipe Name:** Azure Policy Application, and Resource Tagging

**Subtopic covered:** Implement Azure Policy

**Description:** This recipe illustrates how to apply Azure Policies and implement resource tagging practices, ensuring compliance, governance, and better resource management within your Azure environment.

**Approximate Duration:** 1 hour and 30 minutes

**Status:** Available

5. **Recipe Name:** Managing Resource Tags and Policy Enforcement in Azure

**Subtopic covered:** Create Azure Policies

**Description:** This recipe explains how to effectively manage resource tags and enforce policies in your Azure environment, ensuring organized resources, compliance, and governance alignment with your organization's objectives.

**Approximate Duration:** 1 hour and 30 minutes

**Status:** Available

6. **Recipe Name:** Assigning policy definition for tag compliance

**Subtopic covered:** Create Azure Policies

**Description:** This recipe outlines the process of assigning policy definitions for tag compliance in Azure, helping you ensure consistent tagging practices and compliance across your Azure resources.

**Approximate Duration:** 1 hour and 30 minutes

**Status:** Available

7. **Recipe Name:** Restricting Azure SQL Server Creation to a Specific Resource Group within a Subscription using Azure Policy

**Subtopic covered:** Create Azure Policies

**Description:** This recipe provides detailed steps on how to implement Azure Policy to restrict the creation of Azure SQL Servers to a specific resource group within a subscription, enhancing control and compliance in your Azure environment.

**Approximate Duration:** 1 hour and 30 minutes

**Status:** Available

8. **Recipe Name:** Azure Resource Governance with Policies: Restricting Virtual Network Creation



**Subtopic covered:** Create Azure Policies

**Description:** This recipe demonstrates how to enforce Azure Resource Governance using policies by restricting the creation of virtual networks, thereby enhancing control and compliance within your Azure environment.

**Approximate Duration:** 1 hour and 30 minutes

**Status:** Available

9. **Recipe Name:** Creating Azure Custom Policy

**Subtopic covered:** Create Azure Policies

**Description:** This recipe provides essential steps and guidance to begin using Azure custom policies, allowing you to tailor and enforce specific compliance and governance rules for your Azure resources in accordance with your organization's requirements.

**Approximate Duration:** 2 hours

**Status:** Available

10. **Recipe Name:** Creating a Policy Initiative Definition

**Subtopic covered:** Create Initiative Definitions

**Description:** This recipe provides instructions on creating a policy initiative definition in Azure, enabling you to group and manage multiple related policy definitions as a cohesive set for streamlined governance and compliance enforcement in your Azure environment.

**Approximate Duration:** 1 hour

**Status:** Available

11. **Recipe Name:** Retrieving Compliance data

**Subtopic covered:** Determine Compliance

**Description:** This recipe explains how to retrieve compliance data in Azure, offering insights and reports on the adherence of your resources to defined policies and governance standards within your Azure environment.

**Approximate Duration:** 1 hour

**Status:** Available

12. **Recipe Name:** Assigning Azure Policy for allowing Virtual Machine SKUs

**Subtopic covered:** Determine Compliance

**Description:** This recipe involves creating and applying a policy definition that specifies the allowed SKUs for virtual machines within your Azure environment. This policy helps enforce compliance by restricting the selection of virtual machine sizes to those explicitly defined in the policy, ensuring adherence to organizational standards and cost considerations.

**Approximate Duration:** 1 hour

**Status:** Available

13. **Recipe Name:** Enforcing Compliance with Azure Policy Assignments

**Subtopic covered:** Determine Compliance

**Description:** This recipe involves configuring and applying policy definitions to Azure resources, ensuring that the specified rules and constraints are met. This helps maintain governance and regulatory requirements, and violations trigger policy enforcement actions, such as denying non-compliant resources or initiating remediation processes to bring resources back into compliance.

**Approximate Duration:** 1 hour

**Status:** Available

14. **Recipe Name:** Remediate Non-Compliance Resources with Azure Policy

**Subtopic covered:** Determine Compliance

**Description:** This recipe involves configuring automated processes to correct violations identified by policy evaluations. The remediation process is essential for maintaining a consistent and secure Azure environment by automatically fixing issues that deviate from the established

**Approximate Duration:** 1 hour

**Status:** Available

## **Topic: Configure Role Based Access Control**

15. **Recipe Name:** Creating an Azure Custom Role

**Subtopic covered:** Create a Role Definition

**Description:** This recipe provides instructions on creating a custom role in Azure, allowing you to define fine-grained permissions and access control tailored to the specific needs of your organization's Azure resources and operations.

**Approximate Duration:** 30 minutes

**Status:** Available

16. **Recipe Name:** Managing Azure Role-Based Access Control (RBAC) in Virtual Networks

**Subtopic covered:** Create a Role Assignment

**Description:** This recipe covers the management of Azure Role-Based Access Control (RBAC) within virtual networks, ensuring precise and secure access control and governance for resources in your Azure environment.

**Approximate Duration:** 2 hours

**Status:** Available

17. **Recipe Name:** Assigning Contributor role to a user at Subscription level

**Subtopic covered:** Create a Role Assignment

**Description:** This recipe guides you through the process of assigning the 'Contributor' role to a user at the subscription level in Azure, granting them permissions to manage resources and make changes within the specified subscription.

**Approximate Duration:** 2 hours

**Status:** Available

18. **Recipe Name:** Configuring Azure Logic App Permissions

**Subtopic covered:** Create a Role Assignment

**Description:** This recipe provides instructions on configuring Azure Logic App permissions, ensuring that the right users and services have the necessary access to design, deploy, and manage Logic Apps within your Azure environment.

**Approximate Duration:** 1 hour

**Status:** Available

19. **Recipe Name:** Granting Owner and Reader Roles for Data Access

**Subtopic covered:** Create a Role Assignment

**Description:** This recipe explains how to grant the 'Owner' and 'Reader' roles to users or groups, ensuring appropriate data access permissions within your Azure environment. The 'Owner' role grants full control, while the 'Reader' role provides read-only access to resources.

**Approximate Duration:** 1 hour

**Status:** Available

## Module 3: Administer Azure Resources

### Topic: Configure Azure Resources with Tools

1. **Recipe Name:** Managing Azure Resources by Using Azure Portal

**Subtopic covered:** Demonstration Azure Portal

**Description:** This recipe provides guidance on managing Azure resources efficiently through the Azure Portal, offering a user-friendly interface for provisioning, monitoring, and configuring various cloud resources in your Azure environment.

**Approximate Duration:** 30 minutes

**Status:** Available

2. **Recipe Name:** Managing Azure Resources by Using Azure PowerShell

**Subtopic covered:** Use Azure PowerShell

**Description:** This recipe outlines the process of managing Azure resources using Azure PowerShell, to automate, deploy, and manage resources in your Azure environment with precision and efficiency.

**Approximate Duration:** 1 hour

**Status:** Available

3. **Recipe Name:** Managing Azure resources by Using Azure CLI

**Subtopic covered:** Use Azure CLI

**Description:** This recipe guides you through the management of Azure resources using Azure CLI (Command-Line Interface), enabling you to interact with and control your cloud resources seamlessly through command-line commands in your Azure environment.

**Approximate Duration:** 1 hour

**Status:** Available

## Topic: Configure Resources with ARM Templates

### 4. **Recipe Name:** Managing Azure Resources by using ARM Templates

**Subtopic covered:** Explore the ARM Template Parameters

**Description:** This recipe demonstrates how to manage Azure resources using Azure Resource Manager (ARM) templates, enabling infrastructure as code (IaC) for consistent, repeatable, and scalable resource deployment and management in your Azure environment.

**Approximate Duration:** 1 hour 30 minutes

**Status:** Available

### 5. **Recipe Name:** Creating a Resource Group by using Azure Bicep Templates

**Subtopic covered:** Consider Azure Bicep Templates

**Description:** This recipe involves defining the infrastructure as code in a Bicep file.

**Approximate Duration:** 1 hour 30 minutes

**Status:** Available

### 6. **Recipe Name:** Deploying Web App using Azure Bicep Templates

**Subtopic covered:** Consider Azure Bicep Templates

**Description:** This recipe involves defining the infrastructure for the web app in a Bicep file, specifying parameters such as resource group name and web app settings, and executing the deployment using Azure PowerShell or another deployment method, resulting in the creation of the specified web app within the Azure environment.

**Approximate Duration:** 1 hour 30 minutes

**Status:** Available



## Module 4: Administer Virtual Networking

### Topic: Configure Virtual Networks

1. **Recipe Name:** Creating an Azure Virtual Network

**Subtopic covered:** Create Virtual Networks

**Description:** This recipe outlines the steps to create an Azure Virtual Network, allowing you to establish a secure and isolated network environment for your Azure resources.

**Approximate Duration:** 30 minutes

**Status:** Available

2. **Recipe Name: Creating a VNet with AzureBastionSubnet**

**Subtopic covered:** Create Subnets

**Description:** This recipe covers the configuration of a Virtual Network (VNet) that includes an AzureBastionSubnet, providing a secure and managed way to access virtual machines within your Azure environment using Azure Bastion.

**Approximate Duration:** 1 hour

**Status:** Available

3. **Recipe Name:** Adding a Subnet

**Subtopic covered:** Create Public IP Addresses

**Description:** This recipe involves extending the configuration of an existing Azure Virtual Network by defining a subnet with a specified address prefix

**Approximate Duration:** 30 minutes

**Status:** Available

4. **Recipe Name:** Creating a Public IP address

**Subtopic covered:** Create Public IP Addresses

**Description:** This recipe explains how to create a Public IP address in Azure, enabling your resources to be accessible over the internet with a unique public IP.

**Approximate Duration:** 30 minutes

**Status:** Available

5. **Recipe Name:** Associating Public IP address to Network interface

**Subtopic covered:** Associate Public IP Addresses

**Description:** This recipe provides instructions on associating a Public IP address to a network interface in Azure, enabling resources connected to that interface to be publicly accessible over the internet.

**Approximate Duration:** 30 minutes

**Status:** Available

6. **Recipe Name:** Changing Private IP address to Static

**Subtopic covered:** Associate Private IP Addresses

**Description:** This recipe walks you through the process of changing a private IP address to a static IP in Azure, providing a consistent and predictable IP assignment for your Azure resources.

**Approximate Duration:** 30 minutes

**Status:** Available

## Topic: Configure Network Security Groups

7. **Recipe Name:** Creating an NSG and Associating with Subnet

**Subtopic covered:** Implement Network Security Groups

**Description:** This recipe involves defining the NSG rules for inbound and outbound traffic and then associating the NSG with the desired subnet to enforce network security policies. This can be accomplished using Azure Bicep templates or through the Azure Portal.

**Approximate Duration:** 2 hours

**Status:** Available

**8. Recipe Name:** Creating NSG Rules and Accessing VM

**Subtopic covered:** Implement Network Security Groups

**Description:** This recipe involves defining the NSG rules for inbound and outbound traffic and then associating the NSG with the desired VM

**Approximate Duration:** 2 hours

**Status:** Available

**9. Recipe Name:** Creating Application Security Groups

**Subtopic covered:** Implement Application Security Groups (ASGs)

**Description:** This recipe outlines the steps for creating Application Security Groups (ASGs) in Azure, providing a way to logically group and manage network security policies for your Azure resources based on their roles and functions.

**Approximate Duration:** 30 minutes

**Status:** Available

## Topic: Configure Azure DNS

**10. Recipe Name:** Creating a DNS Zone and Adding Record set

**Subtopic covered:** Create Azure DNS Zones

**Description:** This recipe guides you through the process of creating a DNS zone in Azure, enabling you to manage and resolve domain names for your applications and services within your Azure environment.

**Approximate Duration:** 1 hour

**Status:** Available

**11. Recipe Name:** Configuring Private DNS Zone

**Subtopic covered:** Create Azure DNS Zones

**Description:** This recipe involves creating a DNS zone within Azure DNS that is privately scoped to a specific virtual network.

**Approximate Duration:** 1 hour

**Status:** Available

## Topic: Additional Recipes

### 12. **Recipe Name:** Creating a Virtual Network Gateway

**Subtopic covered:** Plan Virtual Networks

**Description:** This recipe provides step-by-step instructions for creating a Virtual Network Gateway in Azure, allowing you to establish secure and reliable connections between on-premises networks and Azure virtual networks.

**Approximate Duration:** 1 hour

**Status:** Available

### 13. **Recipe Name:** Comparing Priority of Allow Rule on Subnet NSG and Deny Rule on VM NIC NSG

**Subtopic covered:** Determine NSG Effective Rules

**Description:** This comparison explores the priority between an 'Allow' rule defined in a subnet-level Network Security Group (NSG) and a 'Deny' rule configured in a Virtual Machine's Network Interface Card (NIC) NSG within the same Azure environment, helping to clarify the order of precedence in access control.

**Approximate Duration:** 1 hour

**Status:** Available

### 14. **Recipe Name:** Adding a Resource Lock to VNET

**Subtopic covered:** Create Virtual Networks

**Description:** This recipe explains how to add a resource lock to a Virtual Network (VNET) in Azure, providing an extra layer of protection to prevent accidental deletion or modification of critical network resources, ensuring network stability and compliance within your Azure environment.

**Approximate Duration:** 30 minutes

**Status:** Available

### 15. **Recipe Name:** Generating Certificates for Point to Site in a Windows Machine

**Subtopic covered:** Plan IP Addressing

**Description:** This recipe provides instructions on generating certificates in a Windows machine for Point-to-Site (P2S) configuration in Azure, facilitating secure and authenticated remote access to your Azure resources through VPN connections.

**Approximate Duration:** 1 hour

**Status:** Available

16. **Recipe Name:** Setting up Point to Site VPN in Entra ID

**Subtopic covered:** Plan Virtual Networks

**Description:** This recipe guides you through setting up a Point-to-Site (P2S) VPN connection in Microsoft Entra, providing secure remote access for individual users to Azure resources while ensuring data privacy and network security within your Azure environment.

**Approximate Duration:** 2 hours

**Status:** Available

## Module 5: Administer Intersite Connectivity

### Topic: Configure VNet Peering

1. **Recipe Name:** Creating a VNET peering

**Subtopic covered:** Create Vnet peering

**Description:** This recipe details the steps to create a Virtual Network (VNet) peering connection in Azure, enabling secure and private communication between two virtual networks within your Azure environment.

**Approximate Duration:** 30 minutes

**Status:** To be made available soon

### Topic: Configure Network Routing and Endpoint

2. **Recipe Name:** Configuring Azure CNI and Kubenet Networking for Azure Kubernetes Service (AKS)

**Subtopic covered:** Introduction

**Description:** This recipe guides you through the configuration of Azure CNI (Container Networking Interface) and Kubenet networking for Azure Kubernetes Service (AKS), allowing you to choose the network model that best suits your AKS cluster's requirements and networking capabilities within your Azure environment.

**Approximate Duration:** 2 hours

**Status:** To be made available soon

3. **Recipe Name:** Creating a Routing table

**Subtopic covered:** Demonstration - Custom Routing Tables

**Description:** This recipe explains how to create a Routing Table in Azure, allowing you to define custom routing rules for directing traffic between subnets or virtual networks within your Azure environment.

**Approximate Duration:** 1 hour

**Status:** To be made available soon



4. **Recipe Name:** Configuring and Testing Private Endpoints for Azure storage accounts

**Subtopic covered:** Determine Service Endpoint Uses and Services

**Description:** This recipe provides step-by-step instructions on configuring and testing Private Endpoints for Azure storage accounts, ensuring that your storage resources are accessed securely within your private network in the Azure environment.

**Approximate Duration:** 1 hour

**Status:** Available

## Module 6: Administer Network Traffic

### Topic: Configure Load Balancer

1. **Recipe Name:** Creating an Azure load balancer for VM load balancing via the Azure portal

**Subtopic covered:** Implement a Public Load Balancer

**Description:** This recipe guides you through the process of creating an Azure Load Balancer in the Azure portal, allowing you to efficiently distribute incoming network traffic across multiple virtual machines (VMs) for load balancing and high availability in your Azure environment.

**Approximate Duration:** 2 hours

**Status:** Available

2. **Recipe Name:** Creating an internal Load balancer

**Subtopic covered:** Implement an Internal Load Balancer

**Description:** This recipe demonstrates how to create an internal load balancer in Azure, enabling the distribution of network traffic to backend resources within your virtual network, enhancing the availability and scalability of your internal services.

**Approximate Duration:** 1 hour 30 minutes

**Status:** To be made available soon

3. **Recipe Name:** Configuring backend pool by IP address and virtual network

**Subtopic covered:** Create Backend Pools

**Description:** This recipe explains how to configure a backend pool by IP address and virtual network in Azure, allowing you to specify specific IP addresses and virtual network resources as part of the pool for load balancing and traffic distribution.

**Approximate Duration:** 30 minutes

**Status:** To be made available soon

#### 4. **Recipe Name:** Adding a load-balancing rule

**Subtopic covered:** Create Load Balancer Rules

**Description:** This recipe provides instructions on adding a load-balancing rule in Azure, enabling you to define how network traffic should be distributed to backend resources based on various criteria, optimizing the performance and availability of your services.

**Approximate Duration:** 30 minutes

**Status:** To be made available soon

#### 5. **Recipe Name:** Creating and verify the Health Probe

**Subtopic covered:** Create Health Probes

**Description:** This recipe guides you through the process of creating and verifying a Health Probe in Azure, allowing you to monitor the health and availability of backend resources, ensuring efficient load balancing and fault tolerance in your network.

**Approximate Duration:** 30 minutes

**Status:** To be made available soon

### **Topic: Configure Azure Application Gateway**

#### 6. **Recipe Name:** Creating an Application Gateway

**Subtopic covered:** Implement Application Gateway

**Description:** This recipe explains how to create an Application Gateway in Azure, providing a scalable and secure way to route and load balance incoming traffic to your web applications, improving their performance and availability.

**Approximate Duration:** 45 minutes

**Status:** To be made available soon

#### 7. **Recipe Name:** Enabling Traffic Analytics in Azure Subscription using Network Contributor Role

**Subtopic covered:** Determine Application Gateway Routing

**Description:** This recipe explains how to enable Traffic Analytics in an Azure subscription using the Network Contributor role, allowing you to gain insights into

network traffic patterns and monitor traffic flows within your Azure environment for improved visibility and security.

**Approximate Duration:** 2 hours

**Status:** To be made available soon

## Module 7: Administer Azure Storage

### Topic: Configure Storage Accounts

#### 1. **Recipe Name:** Creating an Azure Storage Account

**Subtopic covered:** Implement Azure Storage

**Description:** This recipe provides step-by-step instructions on creating an Azure Storage Account, enabling you to store and manage your data in a highly scalable and secure cloud storage environment within Azure.

**Approximate Duration:** 30 minutes

**Status:** Available

#### 2. **Recipe Name:** Deploying a Storage Account Using ARM Templates

**Subtopic covered:** Implement Azure Storage

**Description:** This recipe guides you through the deployment of an Azure Storage Account using Azure Resource Manager (ARM) templates, allowing for automated and consistent provisioning of storage resources within your Azure environment.

**Approximate Duration:** 1 hour

**Status:** To be made available soon

#### 3. **Recipe Name:** Setting up an Azure Storage Account Setup with Read-Only Geo-Redundant Storage (RA-GRS)

**Subtopic covered:** Determine Replication Strategies

**Description:** This recipe outlines the steps to set up an Azure Storage Account with Read-Only Geo-Redundant Storage (RA-GRS), providing robust data redundancy and disaster recovery capabilities for your Azure storage resources.

**Approximate Duration:** 2 hours

**Status:** On hold (There is a similar recipe: "Creating an Azure Storage account" where we have selected LRS as Redundancy.)

#### 4. **Recipe Name:** Accessing Azure Storage File Share Using UNC Path

**Subtopic covered:** Access Storage

**Description:** This recipe explains how to access an Azure Storage File Share using a UNC (Universal Naming Convention) path, enabling seamless and secure file sharing and storage access from Windows-based systems within your Azure environment.

**Approximate Duration:** 1 hour

**Status:** To be made available soon

## Topic: Configure Blob Storage

### 5. **Recipe Name:** Using the Blob service to store data

**Subtopic covered:** Create Blob Containers

**Description:** This recipe demonstrates how to utilize Azure's Blob service for storing data, offering a scalable and cost-effective solution to store unstructured data such as documents, images, videos, and backups within your Azure environment.

**Approximate Duration:** 30 minutes

**Status:** Available

### 6. **Recipe Name:** Exploring Azure blob storage Access tiers

**Subtopic covered:** Create Blob Access Tiers

**Description:** This recipe explores Azure Blob Storage access tiers, providing insights into the different storage classes available and helping you choose the right tier for your data based on access patterns, cost considerations, and performance requirements within your Azure environment.

**Approximate Duration:** 1 hour

**Status:** Available

### 7. **Recipe Name:** Configuring Persistent Storage for Azure Container Instance with Microsoft SQL Server using Azure Files

**Subtopic covered:** Create Blob Access Tiers

**Description:** This recipe outlines the steps to configure persistent storage for Azure Container Instances (ACI) running Microsoft SQL Server by using Azure Files, ensuring data durability and availability for your SQL Server workloads within the Azure environment.

**Approximate Duration:** 2 hours

**Status:** To be made available soon

8. **Recipe Name:** Creating an Azure Storage Account with Fault Tolerance for Hot, Cool, and Archive Blob Tiers

**Subtopic covered:** Create Blob Access Tiers

**Description:** This recipe guides you through creating an Azure Storage Account that incorporates fault tolerance, making it capable of efficiently managing data in the Hot, Cool, and Archive Blob Tiers. This approach ensures data resilience and accessibility across diverse storage requirements within your Azure environment.

**Approximate Duration:** 2 hours

**Status:** To be made available soon

9. **Recipe Name:** Configuring a lifecycle management policy - Azure Storage

**Subtopic covered:** Add Blob Lifecycle Management Rules

**Description:** This recipe provides instructions on configuring a lifecycle management policy for Azure Storage, allowing you to automate the management of your data's lifecycle, including transitions between storage tiers and deletion of obsolete data, optimizing storage costs and efficiency in your Azure environment.

**Approximate Duration:** 30 minutes

**Status:** To be made available soon

10. **Recipe Name:** Using Azure import/Export to Export Blob Data from Azure Storage Account

**Subtopic covered:** Add Blob Lifecycle Management Rules

**Description:** This recipe provides instructions on using Azure Import/Export to export Blob data from an Azure Storage Account, allowing you to efficiently transfer large volumes of data between your on-premises infrastructure and Azure storage, enhancing data migration and backup capabilities within your Azure environment.

**Approximate Duration:** 1 hour

**Status:** To be made available soon

11. **Recipe Name:** Azure Storage Accounts - Object Replication

**Subtopic covered:** Determine Blob Object Replication

**Description:** This recipe explains how to configure object replication in Azure Storage Accounts, enabling data redundancy and ensuring data availability across Azure regions for enhanced disaster recovery and high availability in your cloud storage infrastructure.

**Approximate Duration:** 1 hour

**Status:** Available

12. **Recipe Name:** Assigning Storage File Data SMB Share Contributor Role to a User in Azure Storage Account

**Subtopic covered:** Determine Blob Object Replication

**Description:** This recipe guides you through the process of assigning the 'Storage File Data SMB Share Contributor' role to a user in an Azure Storage Account, granting them permissions to manage SMB shares and associated data within the storage account for efficient file sharing and access management.

**Approximate Duration:** 1 hour

**Status:** To be made available soon

13. **Recipe Name:** Accessing Storage Accounts via Keys in Storage Explorer

**Subtopic covered:** Demonstration - Blob Storage

**Description:** This recipe explains how to access Azure Storage Accounts using access keys in Azure Storage Explorer, enabling secure and direct access to your storage resources for management and data operations within your Azure environment.

**Approximate Duration:** 1 hour

**Status:** To be made available soon

## Topic: Configure Storage Security

14. **Recipe Name:** Configuring Access Policy for Azure storage Accounts

**Subtopic covered:** Introduction

**Description:** This recipe provides instructions on configuring access policies for Azure Storage Accounts, allowing you to define fine-grained permissions and shared access to your storage resources, facilitating secure and controlled data access and sharing within your Azure environment.



**Approximate Duration:** 2 hours

**Status:** To be made available soon

15. **Recipe Name:** Controlling Storage account level using Shared Access Signature

**Subtopic covered:** Create Shared Access Signatures

**Description:** This recipe demonstrates how to create and manage a Shared Access Signature (SAS) at the Storage account level in Azure, allowing you to grant temporary and controlled access to your Azure Storage resources, enhancing security and data sharing capabilities.

**Approximate Duration:** 1 hour

**Status:** To be made available soon

16. **Recipe Name:** Configuring Service Endpoints for Azure Storage Accounts

**Subtopic covered:** Create Shared Access Signatures

**Description:** This recipe details the steps for configuring Service Endpoints for Azure Storage Accounts, enhancing security by allowing access to the storage resources only from within your Azure Virtual Network, thereby protecting data and ensuring network isolation within your Azure environment.

**Approximate Duration:** 1 hour 30 minutes

**Status:** To be made available soon

17. **Recipe Name:** Configuring firewall and virtual network settings for Azure storage accounts

**Subtopic covered:** Create Shared Access Signatures

**Description:** This recipe guides you through the configuration of firewall and virtual network settings for Azure Storage Accounts, enabling you to control access to your storage resources by specifying trusted IP addresses and allowing secure network communication within your Azure environment

**Approximate Duration:** 1 hour

**Status:** Available

18. **Recipe Name:** Using Access keys and Shared Access Signature in Azure storage accounts

**Subtopic covered:** Identify URI and SAS Parameters

**Description:** This recipe explains how to use Access Keys and Shared Access Signatures (SAS) in Azure Storage Accounts, providing authentication and authorization methods for secure access to your storage resources, offering flexibility and control over data sharing and management within your Azure environment.

**Approximate Duration:** 2 hours

**Status:** To be made available soon

19. **Recipe Name:** Exploring Azure blob storage Access Tiers

**Subtopic covered:** Identify URI and SAS Parameters

**Description:** This guide explores Azure Blob Storage Access Tiers, which offer a flexible and cost-effective way to store and manage data with varying access patterns and performance requirements within your Azure environment, providing options for optimizing storage costs and performance.

**Approximate Duration:** 1 hour

**Status:** To be made available soon

20. **Recipe Name:** Using shared access signature-blob level

**Subtopic covered:** Demonstration - SAS in the Portal

**Description:** This recipe demonstrates how to use Shared Access Signatures (SAS) at the blob level in Azure Blob Storage, allowing you to grant time-limited and granular access permissions to specific blobs, enhancing security and control over data sharing within your Azure environment.

**Approximate Duration:** 1 hour

**Status:** To be made available soon

21. **Recipe Name:** Enforcing Stored Access Policies

**Subtopic covered:** Determine Storage Service Encryption

**Description:** This recipe explains how to enforce Stored Access Policies in Azure Blob Storage, enabling you to apply predefined access policies to shared access signatures (SAS) for enhanced access control and security when sharing resources within your Azure environment.

**Approximate Duration:** 1 hour

**Status:** To be made available soon

22. **Recipe Name:** Creating Customer Managed Keys

**Subtopic covered:** Create Customer Managed Keys

**Description:** This recipe provides instructions on creating Customer Managed Keys (CMKs) in Azure, enabling you to take control of the encryption keys used to protect your data, providing enhanced security and compliance for your Azure resources.

**Approximate Duration:** 45 minutes

**Status:** To be made available soon

23. **Recipe Name:** Using Access keys for Azure storage Accounts

**Subtopic covered:** Create Customer Managed Keys

**Description:** This recipe provides instructions on using Access Keys for Azure Storage Accounts, offering secure authentication to access and manage your storage resources, ensuring data integrity and privacy within your Azure environment.

**Approximate Duration:** 1 hour

**Status:** To be made available soon

24. **Recipe Name:** Accessing Storage Accounts Using Azure Storage Explorer

**Subtopic covered:** Apply Storage Security Best Practices

**Description:** This recipe explains how to access Azure Storage Accounts using Azure Storage Explorer, a user-friendly graphical tool that allows you to manage and interact with your storage resources, facilitating efficient data management and operations within your Azure environment.

**Approximate Duration:** 1 hour

**Status:** Available

## **Topic: Configure Azure Files and File Sync**

25. **Recipe Name:** Azure File Share Configuration

**Subtopic covered:** Manage File Shares

**Description:** This recipe guides you through the configuration of Azure File Share, enabling you to create, manage, and share file storage within the Azure cloud environment, facilitating seamless data sharing and access across your applications and virtual machines.

**Approximate Duration:** 1 hour

**Status:** Available

26. **Recipe Name:** Creating an Azure file share

**Subtopic covered:** Create File Share Snapshots

**Description:** This recipe outlines the steps to create an Azure File Share, allowing you to provision a scalable and secure network file share in the Azure cloud, providing efficient file storage for your applications and services.

**Approximate Duration:** 30 minutes

**Status:** To be made available soon

27. **Recipe Name:** Azure File Sync - Server Registration

**Subtopic covered:** Create File Share Snapshots

**Description:** This recipe guides you through the process of registering a server with Azure File Sync, enabling seamless synchronization and data management between on-premises servers and Azure File Shares, ensuring data availability and consistency within your hybrid cloud environment.

**Approximate Duration:** 1 hour

**Status:** Available

28. **Recipe Name:** Adding an Azure File Share with Existing Files to a Sync Group using Azure File Sync

**Subtopic covered:** Setup File Sync

**Description:** This recipe explains how to add an existing Azure File Share, along with its files, to a Sync Group using Azure File Sync. This process ensures synchronized access to your files across multiple locations for improved data redundancy and availability within your Azure environment.

**Approximate Duration:** 1 hour

**Status:** To be made available soon

29. **Recipe Name:** Using Azure Storage Explorer

**Subtopic covered:** Configure Storage with Tools

**Description:** This recipe provides guidance on using Azure Storage Explorer, a versatile tool that simplifies the management and interaction with Azure Storage resources, offering an intuitive graphical user interface for various storage-related tasks in your Azure environment.

**Approximate Duration:** 1 hour

**Status:** To be made available soon

## Module 8: Administer Azure Virtual Machines

### Topic: Configure Virtual Machines

1. **Recipe Name:** Using a custom image to create a new virtual machine

**Subtopic covered:** Determine Virtual Machine Sizing

**Description:** This recipe outlines the steps to use a custom image to create a new virtual machine in Azure, enabling you to deploy VM instances based on a customized image that includes specific configurations, software, and settings within your Azure environment.

**Approximate Duration:** 2 hours

**Status:** Available

2. **Recipe Name:** Creating an Azure Virtual machine

**Subtopic covered:** Demonstration –Create Virtual Machines

**Description:** This recipe walks you through the process of creating an Azure Virtual Machine (VM), enabling you to deploy and manage virtualized computing resources in the Azure cloud for your applications and workloads.

**Approximate Duration:** 1 hour

**Status:** Available

3. **Recipe Name:** Creating and using the Bastion service for accessing a Windows VM

**Subtopic covered:** Connect to Virtual Machines

**Description:** This recipe explains how to create and utilize the Azure Bastion service, which provides secure and seamless access to a Windows Virtual Machine (VM) within your Azure environment without the need for a public IP address or VPN, enhancing remote management and security.

**Approximate Duration:** 1 hour

**Status:** Available

4. **Recipe Name:** Connect to an Azure Virtual machine using RDP

**Subtopic covered:** Connect to Windows Virtual Machines

**Description:** This recipe details how to connect to an Azure Virtual Machine (VM) using Remote Desktop Protocol (RDP), allowing you to access and manage your Windows-based VM in the Azure cloud securely and efficiently.

**Approximate Duration:** 1 hour

**Status:** Available

5. **Recipe Name:** Setting up the Linux Diagnostic Extension (LAD) on an Azure virtual machine

**Subtopic covered:** Connect to Windows Virtual Machines

**Description:** This recipe provides instructions on setting up the Linux Diagnostic Extension (LAD) on an Azure virtual machine, allowing you to collect and monitor performance and diagnostic data from your Linux-based VMs within the Azure environment.

**Approximate Duration:** 1 hour 45 minutes

**Status:** To be made available soon

6. **Recipe Name:** Connecting to a Linux Virtual machine through PuTTY

**Subtopic covered:** Connect to Linux VirtualMachines

**Description:** This recipe provides instructions on how to connect to a Linux Virtual Machine (VM) in Azure using the PuTTY SSH client, enabling secure and remote access to your Linux-based Azure VM for management and configuration.

**Approximate Duration:** 1 hour

**Status:** To be made available soon

7. **Recipe Name:** How to Connect, Initialize, and Access the iSCSI Target Disk from a Domain controller

**Subtopic covered:** Connect to Linux VirtualMachines

**Description:** This recipe explains how to connect, initialize, and access an iSCSI target disk from a domain controller, enabling you to establish storage resources for your domain controller within your network environment.

**Approximate Duration:** 1 hour

**Status:** Available

8. **Recipe Name:** Assign a user-assigned managed identity to an existing VM

**Subtopic covered:** Demonstration -Connect to Linux Virtual Machines (optional)

**Description:** This recipe guides you through the process of assigning a user-assigned managed identity to an existing virtual machine (VM) in Azure, enabling the VM to authenticate and access Azure resources securely without the need for explicit credentials or secrets.

**Approximate Duration:** 1 hour

**Status:** Available

## Topic: Configure Virtual Machine Availability

9. **Recipe Name:** Creating a Managed Identity

**Subtopic covered:** Introduction

**Description:** This recipe outlines the steps for creating a Managed Identity in Azure, allowing you to establish a secure identity for your applications and services, facilitating seamless authentication and access to Azure resources without exposing credentials.

**Approximate Duration:** 1 hour

**Status:** To be made available soon

10. **Recipe Name:** Enable and disable the system-assigned managed identity for VM

**Subtopic covered:** Introduction

**Description:** This recipe explains how to enable and disable the system-assigned managed identity for a virtual machine (VM) in Azure, providing control over the VM's ability to authenticate and access Azure resources using its managed identity without the need for explicit credentials or secrets.

**Approximate Duration:** 45 minutes

**Status:** Available

11. **Recipe Name:** Attaching a disk to a VM

**Subtopic covered:** Plan for Maintenance and Downtime



**Description:** This recipe provides instructions on attaching a disk to a virtual machine (VM) in Azure, allowing you to expand storage capacity and provide additional data storage for your VM within the Azure environment.

**Approximate Duration:** 1 hour

**Status:** Available

12. **Recipe Name:** Increasing vCPU Quota of a subscription in Azure

**Subtopic covered:** Plan for Maintenance and Downtime

**Description:** This recipe guides you through the process of increasing the vCPU quota for a subscription in Azure, enabling you to allocate more virtual CPU resources for your virtual machines and workloads within your Azure environment.

**Approximate Duration:** 45 minutes

**Status:** To be made available soon

13. **Recipe Name:** How to add VMS to an availability set

**Subtopic covered:** Setup Availability Sets

**Description:** This recipe guides you through the process of adding Virtual Machines (VMs) to an Availability Set in Azure, ensuring high availability and resilience for your applications by distributing VM instances across different physical hardware within a datacenter.

**Approximate Duration:** 2 hours

**Status:** Available

14. **Recipe Name:** Redeploy Windows Virtual machine to a new Azure node

**Subtopic covered:** Setup Availability Sets

**Description:** This recipe explains how to redeploy a Windows virtual machine (VM) to a new Azure node, helping you resolve potential underlying infrastructure issues and improve VM performance and reliability within your Azure environment.

**Approximate Duration:** 45 minutes

**Status:** Available

15. **Recipe Name:** Using ARM Templates for fault and Update Domain Configuration

**Subtopic covered:** Review Update and Fault Domains

**Description:** This recipe demonstrates how to use Azure Resource Manager (ARM) templates to configure fault and update domain settings for Virtual Machines (VMs), allowing you to control the distribution and availability of your VM instances across different hardware and update domains within an Availability Set for improved resiliency in your Azure environment.

**Approximate Duration:** 1 hour

**Status:** Available

16. **Recipe Name:** Transferring a disk from one VM to another VM

**Subtopic covered:** Review Update and Fault Domains

**Description:** This recipe outlines the steps for transferring a disk from one virtual machine (VM) to another VM in Azure, allowing you to reuse or migrate data disks between VMs within your Azure environment.

**Approximate Duration:** 1 hour

**Status:** Available

17. **Recipe Name:** Resizing Virtual Machines in an Availability Set on Azure

**Subtopic covered:** Review Update and Fault Domains

**Description:** This recipe provides instructions on resizing virtual machines (VMs) that are part of an Availability Set in Azure, allowing you to adjust the VM size and capacity while maintaining high availability and fault tolerance within your Azure environment.

**Approximate Duration:** 1 hour

**Status:** Available

18. **Recipe Name:** Configuring a load balancer & availability group listener (SQL Server on Azure VMs)

**Subtopic covered:** Review Availability Zones

**Description:** This recipe explains how to configure a load balancer and an availability group listener for SQL Server on Azure Virtual Machines (VMs), ensuring high availability, load distribution, and seamless database connectivity for your SQL Server workloads within your Azure environment.

**Approximate Duration:** 3 hours

**Status:** To be made available soon

19. **Recipe Name:** How to setup a Domain controller in Azure

**Subtopic covered:** Review Availability Zones

**Description:** This recipe guides you through the process of setting up a Domain Controller in Azure, enabling you to establish an Active Directory domain in the cloud for centralized user and resource management within your Azure environment.

**Approximate Duration:** 1 hour 45 minutes

**Status:** Available

20. **Recipe Name:** Configuring iSCSI Storage Server on a Windows Virtual Machine

**Subtopic covered:** Review Availability Zones

**Description:** This recipe provides instructions on configuring an iSCSI Storage Server on a Windows Virtual Machine (VM) in Azure, allowing you to create and manage iSCSI targets and storage resources within your Azure environment.

**Approximate Duration:** 1 hour

**Status:** Available

21. **Recipe Name:** Creating a Virtual machine scale set

**Subtopic covered:** Create Scale Sets

**Description:** This recipe explains how to create a Virtual Machine Scale Set (VMSS) in Azure, allowing you to easily deploy and manage a group of identical virtual machines to handle increased workloads and ensure high availability and scalability for your applications.

**Approximate Duration:** 45 minutes

**Status:** Available

22. **Recipe Name:** Moving Between Virtual Networks with Disk Retention

**Subtopic covered:** Create Scale Sets

**Description:** This recipe explains how to move virtual machines (VMs) between virtual networks in Azure while retaining their associated disks, facilitating network adjustments without data loss or the need for data migration within your Azure environment.

**Approximate Duration:** 1 hour

**Status:** To be made available soon

23. **Recipe Name:** Integrating a Windows server virtual machine with a Managed Domain in Microsoft Entra Service

**Subtopic covered:** Configure Autoscale

**Description:** This recipe outlines the steps to integrate a Windows Server virtual machine with a Managed Domain in Microsoft Entra Domain Services (Microsoft Entra DS), enabling centralized domain management and authentication for your VM within your Azure environment.

**Approximate Duration:** 1 hour 45 minutes

**Status:** Available

24. **Recipe Name:** Provision VM with ARM templates from Powershell

**Subtopic covered:** Demonstration – Virtual Machine Scaling

**Description:** This recipe demonstrates how to provision a virtual machine (VM) using Azure Resource Manager (ARM) templates from PowerShell, streamlining the deployment and configuration of VM resources within your Azure environment.

**Approximate Duration:** 45 minutes

**Status:** Available

## Topic: Configure Virtual Machine Extensions

25. **Recipe Name:** Configuring Virtual Machine Extensions

**Subtopic covered:** Implement Virtual Machine Extensions

**Description:** This recipe provides instructions on configuring Virtual Machine Extensions in Azure, enabling you to customize and enhance the functionality of your virtual machines by adding specific software, scripts, or configurations to meet your application's requirements.

**Approximate Duration:** 30 minutes

**Status:** To be made available soon

26. **Recipe Name:** Setting up self-signed SSL certificate to IIS web server

**Subtopic covered:** Implement Virtual Machine Extensions

**Description:** This recipe provides instructions on setting up a self-signed SSL certificate for an IIS web server, allowing you to enable secure HTTPS communication for your website or application without obtaining a certificate from a trusted certificate authority.

**Approximate Duration:** 1 hour

**Status:** Available

27. **Recipe Name:** Configuring Custom Script-Extensions

**Subtopic covered:** Implement Custom Script-Extensions

**Description:** This recipe explains how to configure Custom Script Extensions in Azure, enabling you to run custom scripts on virtual machines during deployment or after creation, facilitating advanced configuration and automation tasks within your Azure environment.

**Approximate Duration:** 30 minutes

**Status:** To be made available soon

28. **Recipe Name:** Setting up IIS server on a Windows VM on Azure

**Subtopic covered:** Implement Custom Script-Extensions

**Description:** This recipe explains how to set up an Internet Information Services (IIS) server on a Windows Virtual Machine (VM) running in Azure, allowing you to host and manage web applications and websites within your Azure environment.

**Approximate Duration:** 1 hour

**Status:** Available

29. **Recipe Name:** Implementing Desired State Configuration

**Subtopic covered:** Implement Desired State Configuration

**Description:** This recipe guides you through the implementation of Desired State Configuration (DSC) in Azure, allowing you to define and enforce the desired configuration state of your virtual machines, ensuring consistency and compliance across your Azure infrastructure.

**Approximate Duration:** 30 minutes

**Status:** To be made available soon

## Module 9: Administer PaaS Compute Options

### Topic: Configure App Service Plans

#### 1. **Recipe Name:** Creating App Service Plans for Web Apps

**Subtopic covered:** Implement Azure App Service Plans

**Description:** This recipe outlines the steps to create App Service Plans in Azure, which serve as the hosting infrastructure for Azure Web Apps. App Service Plans provide scalability, performance, and cost options for hosting your web applications in the Azure cloud environment.

**Approximate Duration:** 1 hour and 30 minutes

**Status:** To be made available soon

#### 2. **Recipe Name:** Configuring App service Scaling

**Subtopic covered:** Configure App Service Plan Scaling

**Description:** This recipe explains how to configure scaling for Azure App Service, enabling you to automatically adjust the number of instances or scale your web applications based on demand, ensuring optimal performance and resource utilization within your Azure environment.

**Approximate Duration:** 30 minutes

**Status:** To be made available soon

#### 3. **Recipe Name:** Enabling Staging Slot Creation for an Azure Web App

**Subtopic covered:** Demonstration -Create an App Service Plan

**Description:** This recipe guides you through enabling staging slot creation for an Azure Web App, facilitating the deployment and testing of application changes in separate, isolated environments before promoting them to the production slot, ensuring a controlled and reliable release process within your Azure environment.

**Approximate Duration:** 1 hour

**Status:** To be made available soon

## Topic: Configure App Service

### 4. **Recipe Name:** Creating a web app on Azure portal

**Subtopic covered:** Implement Azure App Services

**Description:** This recipe walks you through the process of creating a web app in the Azure portal, enabling you to deploy and host web applications in Azure, providing a scalable and reliable platform for your web-based projects.

**Approximate Duration:** 1 hour

**Status:** To be made available soon

### 5. **Recipe Name:** Create an app service and deploy a web app from VS code

**Subtopic covered:** Create an App Service

**Description:** This recipe guides you through the process of creating an Azure App Service and deploying a web application from Visual Studio Code (VS Code), streamlining the development and deployment workflow for your web apps in Azure.

**Approximate Duration:** 1 hour and 30 minutes

**Status:** Available

### 6. **Recipe Name:** Using Azure App Service Staging Slots

**Subtopic covered:** Create Deployment Slots

**Description:** This recipe explores the utilization of Azure App Service Staging Slots, allowing you to deploy and test application changes in a separate, isolated environment before promoting them to the production slot, ensuring a controlled and seamless release process for your web applications in Azure.

**Approximate Duration:** 1 hour and 30 minutes

**Status:** To be made available soon

### 7. **Recipe Name:** Setting up Logs for Azure Web Application

**Subtopic covered:** Create Deployment Slots

**Description:** This recipe explains how to set up logs for an Azure Web Application, enabling you to capture and analyze log data related to your web application's



activity, performance, and errors, facilitating monitoring and troubleshooting within your Azure environment.

**Approximate Duration:** 1 hour

**Status:** To be made available soon

8. **Recipe Name:** Creating a logic App in Azure

**Subtopic covered:** Add Deployment-Slots

**Description:** This recipe provides instructions on creating a Logic App in Azure, allowing you to design and automate workflows that connect various Azure and non-Azure services, streamlining business processes and integrations within your Azure environment.

**Approximate Duration:** 1 hour

**Status:** To be made available soon

9. **Recipe Name:** Explore the authentication provider for app services

**Subtopic covered:** Secure an App Service

**Description:** This recipe delves into exploring authentication providers for Azure App Services, offering insights into various authentication methods and providers available to secure access to your web applications, APIs, and resources within the Azure environment.

**Approximate Duration:** 1 hour and 30 minutes

**Status:** Available

10. **Recipe Name:** Publishing a Dotnet project using Visual studio 2022

**Subtopic covered:** Secure an App Service

**Description:** This recipe outlines the steps for publishing a .NET project using Visual Studio 2022, enabling you to deploy your .NET application to a hosting environment or platform, such as Azure, for public access and use.

**Approximate Duration:** 1 hour

**Status:** To be made available soon

11. **Recipe Name:** Creating a Custom domain name

**Subtopic covered:** Create Custom Domain Names

**Description:** This recipe guides you through the process of creating a custom domain name in Azure, enabling you to personalize and brand your web applications or services with a custom web address for a more professional and user-friendly experience.

**Approximate Duration:** 30 minutes

**Status:** To be made available soon

12. **Recipe Name:** Backing up an App Service

**Subtopic covered:** Backup an App Service

**Description:** This recipe explains how to backup an Azure App Service, ensuring that your web applications and associated data are protected and recoverable in the event of data loss or service interruptions within the Azure environment.

**Approximate Duration:** 30 minutes

**Status:** To be made available soon

## Topic: Configure Azure Container Instances

13. **Recipe Name:** Moving an App to Another App Service Plan in Azure

**Subtopic covered:** Introduction

**Description:** This recipe explains how to move an app to another App Service Plan in Azure, allowing you to adjust the resources, capacity, and pricing tier for your web app to meet changing requirements or optimize costs within your Azure environment.

**Approximate Duration:** 1 hour

**Status:** To be made available soon

14. **Recipe Name:** Configuring Azure VMs with the specified static internal IP addresses

**Subtopic covered:** Explore Azure Container Instances Benefits

**Description:** This recipe guides you through configuring Azure Virtual Machines (VMs) with specified static internal IP addresses, ensuring network stability and predictability for your VMs within your Azure environment.

**Approximate Duration:** 1 hour 45 minutes

**Status:** To be made available soon

15. **Recipe Name:** Creating Azure container groups

**Subtopic covered:** Implement Container Groups

**Description:** This recipe outlines the steps for creating Azure container groups, allowing you to deploy and manage collections of containers as a single unit in Azure, streamlining the deployment and scaling of containerized applications.

**Approximate Duration:** 30 minutes

**Status:** To be made available soon

16. **Recipe Name:** Creating Azure Container Apps

**Subtopic covered:** Implement Azure Container Apps

**Description:** This recipe provides instructions for creating Azure Container Apps, allowing you to build and deploy containerized applications in Azure, providing a scalable and reliable platform for running your container workloads in the cloud.

**Approximate Duration:** 30 minutes

**Status:** To be made available soon

17. **Recipe Name:** Set up a sample dot net application on local using VS code

**Subtopic covered:** Implement Azure Container Apps

**Description:** This recipe walks you through setting up a sample .NET application on your local machine using Visual Studio Code, providing a lightweight and efficient development environment for building .NET applications.

**Approximate Duration:** 1 hour 30 minutes

**Status:** Available

18. **Recipe Name:** Deploying an Azure container instance using Azure Resource Manager template

**Subtopic covered:** Demonstration - Deploy Azure Container Instances

**Description:** This recipe guides you through the deployment of an Azure container instance using an Azure Resource Manager (ARM) template, enabling automated provisioning and management of container workloads within your Azure environment.

**Approximate Duration:** 1 hour

**Status:** To be made available soon

19. **Recipe Name:** Deploying a YAML File to an Azure Kubernetes Service (AKS) Cluster

**Subtopic covered:** Demonstration - Deploy Azure Container Instances

**Description:** This recipe explains how to deploy a YAML file to an Azure Kubernetes Service (AKS) cluster, facilitating the deployment of containerized applications and configurations to your AKS environment using Kubernetes manifests.

**Approximate Duration:** 1 hour

**Status:** To be made available soon

20. **Recipe Name:** Deploying an Azure container instance using the Azure portal

**Subtopic covered:** Demonstration – Deploy ACA • Knowledge Check

**Description:** This recipe walks you through deploying an Azure Container Instance (ACI) using the Azure portal, offering a user-friendly and intuitive interface for the quick and efficient deployment of container workloads within your Azure environment.

**Approximate Duration:** 30 minutes

**Status:** To be made available soon

## Module 10: Administer Data Protection

### Topic: Configure File and Folder Backups

#### 1. **Recipe Name:** Implementing Azure Backup Center

**Subtopic covered:** Implement Azure Backup Center

**Description:** This recipe provides guidance on implementing Azure Backup Center, allowing you to centrally manage and monitor backup and recovery operations for your Azure resources, enhancing data protection and compliance within your Azure environment.

**Approximate Duration:** 30 minutes

**Status:** To be made available soon

#### 2. **Recipe Name:** Backing up Azure File shares

**Subtopic covered:** Demonstration – Backup Azure File Shares

**Description:** This recipe explains how to back up Azure File shares, ensuring data protection and disaster recovery capabilities for your file-based storage resources within the Azure environment, using Azure Backup or other appropriate methods.

**Approximate Duration:** 30 minutes

**Status:** To be made available soon

#### 3. **Recipe Name:** Configuring On-Premises File and Folder Backups

**Subtopic covered:** Configure On-Premises File and Folder Backups

**Description:** This recipe details the configuration of on-premises file and folder backups, enabling you to safeguard critical data residing on local servers or devices by using Azure Backup, providing an efficient and secure data protection solution within your hybrid environment.

**Approximate Duration:** 30 minutes

**Status:** To be made available soon

#### 4. **Recipe Name:** Configuring a file backup

**Subtopic covered:** Demonstration – Backup Files and Folders

**Description:** This recipe provides instructions on configuring a file backup, allowing you to protect and secure your critical files and data by creating backup copies using Azure Backup or other suitable backup solutions.

**Approximate Duration:** 30 minutes

**Status:** To be made available soon

#### 5. **Recipe Name:** Moving Azure VM and Associated Resources Across Subscriptions

**Subtopic covered:** Knowledge Check

**Description:** This recipe outlines the steps for moving an Azure Virtual Machine (VM) and its associated resources across subscriptions, enabling you to reorganize your Azure resources, change billing structures, or optimize your resource management within your Azure environment.

**Approximate Duration:** 1 hour

**Status:** To be made available soon

### Topic: Configure Virtual Machine Backups

#### 6. **Recipe Name:** Export Blob Containers using Azure Import/Export

**Subtopic covered:** Protect Virtual Machine Data

**Description:** This recipe provides instructions on exporting Blob containers using Azure Import/Export, allowing you to efficiently transfer large volumes of Blob data from your Azure Storage to physical drives for offline data transfer and migration.

**Approximate Duration:** 1 hour

**Status:** To be made available soon

#### 7. **Recipe Name:** Backing Up Resources to an Azure Recovery Services Vault

**Subtopic covered:** Setup Recovery Services Vault Backup Options

**Description:** This recipe explains how to back up resources, such as virtual machines, databases, and more, to an Azure Recovery Services Vault, enabling data protection and disaster recovery capabilities within your Azure environment.

**Approximate Duration:** 1 hour

**Status:** To be made available soon

8. **Recipe Name:** Migrating Azure VM Backup to a Different Recovery Services Vault

**Subtopic covered:** Backup Virtual Machines

**Description:** This recipe guides you through the process of migrating Azure VM backups from one Recovery Services Vault to another, providing flexibility in managing and centralizing your data protection and recovery strategies within your Azure environment.

**Approximate Duration:** 1 hour

**Status:** To be made available soon

9. **Recipe Name:** Restoring Virtual Machines

**Subtopic covered:** Restore Virtual Machines

**Description:** This recipe outlines the steps for restoring virtual machines in Azure, providing guidance on recovering and reinstating your virtual machine instances to a previous state or backup point, ensuring data continuity and minimizing downtime in your Azure environment.

**Approximate Duration:** 30 minutes

**Status:** To be made available soon

10. **Recipe Name:** Using Azure Recovery Services Vault Deletion Restrictions and Considerations

**Subtopic covered:** Manage Soft Delete

**Description:** This recipe discusses the use of Azure Recovery Services Vault deletion restrictions and considerations, helping you understand the implications and best practices for managing the lifecycle and retention of backup data within your Azure environment.

**Approximate Duration:** 1 hour

**Status:** To be made available soon

11. **Recipe Name:** Implementing Azure site Recovery

**Subtopic covered:** Implement Azure Site Recovery

**Description:** This recipe provides instructions for implementing Azure Site Recovery, a disaster recovery solution that enables you to replicate and protect your on-premises and Azure workloads, ensuring business continuity and data resilience in the event of a disruption or disaster.

**Approximate Duration:** 30 minutes

**Status:** To be made available soon



## Module 11: Administer Monitoring

### Topic: Configure Azure Alerts

#### 1. **Recipe Name:** Getting started with Azure Monitor

**Subtopic covered:** Manage Azure Monitor Alerts

**Description:** This recipe guides you through getting started with Azure Monitor, allowing you to set up monitoring and gain insights into the performance, health, and activities of your Azure resources, enhancing the management and optimization of your cloud environment.

**Approximate Duration:** 1 hour

**Status:** To be made available soon

#### 2. **Recipe Name:** Creating an Action group in Azure portal

**Subtopic covered:** Create Action Groups

**Description:** This recipe explains how to create an Action Group in the Azure portal, enabling you to define a set of actions and notifications that can be triggered based on Azure Monitor alerts, facilitating proactive response and management of issues within your Azure environment.

**Approximate Duration:** 1 hour

**Status:** To be made available soon

#### 3. **Recipe Name:** Creating an Alert for Error Events in Azure Monitor Using Log Analytics

**Subtopic covered:** Demonstration - Alerts

**Description:** This recipe walks you through creating an alert for error events in Azure Monitor using Log Analytics, allowing you to proactively detect and respond to error conditions within your Azure resources, ensuring operational efficiency and minimizing disruptions.

**Approximate Duration:** 1 hour 30 minutes

**Status:** To be made available soon

## Topic: Configure Log Analytics

### 4. **Recipe Name:** Installing kubectI Client on Windows 10 Using Azure CLI

**Subtopic covered:** Introduction

**Description:** This recipe provides instructions on installing the kubectI client on Windows 10 using Azure CLI, enabling you to interact with Kubernetes clusters from your Windows machine and manage containerized applications within your Azure environment.

**Approximate Duration:** 1 hour

**Status:** To be made available soon

### 5. **Recipe Name:** Creating a Workspace

**Subtopic covered:** Create a Workspace

**Description:** This recipe provides instructions on creating a Workspace in Azure Monitor, which serves as a centralized hub for collecting, analysing, and visualizing telemetry data from various sources, enabling comprehensive monitoring and insights across your Azure resources.

**Approximate Duration:** 30 minutes

**Status:** To be made available soon

### 6. **Recipe Name:** Configuring log Analytics

**Subtopic covered:** Demonstration - Log Analytics

**Description:** This recipe explains how to configure Log Analytics in Azure, enabling centralized log collection, analysis, and monitoring to gain insights and ensure operational efficiency across your Azure environment.

**Approximate Duration:** 1 hour

**Status:** To be made available soon

## Summary

<b>Module</b>	<b>Number of Recipes</b>
Module 1	20
Module 2	19
Module 3	6
Module 4	16
Module 5	4
Module 6	7
Module 7	29
Module 8	29
Module 9	20
Module 10	11
Module 11	6
<b>Total</b>	<b>167</b>

# Course Schedule

AZURE ADMINISTRATOR (AZ-104) SESSION DATES				
Week	Day	Start Time	Duration (Approx)	Session Covered
Week 1	Day 1	7.30 PM	2 hours	Topic 1: Configure Azure Active Directory
	Day 2	7.30 AM	2 hours	Topic 1: Configure Azure Active Directory
	Day 3	7.30 PM	2 hours	Topic 2: Configure Users and Group Accounts
	Day 4	7.30 AM	2 hours	Topic 2: Configure Users and Group Accounts
	Day 5	Buffer Day		
	Day 6	9.00 AM	9 hours	Office Hours (Project/Lab Walkthrough/Doubts Clearing)
	Day 7	4.30 PM	2 hours	Doubts Clearing/Lab Walkthrough
Week 2	Day 8	7.30 PM	2 hours	Topic 3: Configure Subscriptions Topic 4: Configure Role Based Access Control
	Day 9	7.30 AM	2 hours	Topic 3: Configure Subscriptions Topic 4: Configure Role Based Access Control
	Day 10	7.30 PM	2 hours	Topic 5: Configure Azure Policy
	Day 11	7.30 AM	2 hours	Topic 5: Configure Azure Policy
	Day 12	Buffer Day		
	Day 13	9.00 AM	9 hours	Office Hours (Project/Lab Walkthrough/Doubts Clearing)
	Day 14	4.30 PM	2 hours	Doubts Clearing/Lab Walkthrough
Week 3	Day 15	7.30 PM	2 hours	Topic 6: Configure Azure Resources with Tools Topic 7: Configure Resources with ARM Templates
	Day 16	7.30 AM	2 hours	Topic 6: Configure Azure Resources with Tools Topic 7: Configure Resources with ARM Templates
	Day 17	7.30 PM	2 hours	Topic 8: Configure Virtual Networks
	Day 18	7.30 AM	2 hours	Topic 8: Configure Virtual Networks
	Day 19	Buffer Day		
	Day 20	9.00 AM	9 hours	Office Hours (Project/Lab Walkthrough/Doubts Clearing)
	Day 21	4.30 PM	2 hours	Doubts Clearing/Lab Walkthrough
Week 4	Day 22	7.30 PM	1 hours	Project/Vacation
	Day 23	7.30 AM	1 hours	Project/Vacation
	Day 24	7.30 PM	1 hours	Project/Vacation
	Day 25	7.30 AM	1 hours	Project/Vacation
	Day 26	Buffer Day		
	Day 27	Vacation / Special classes		
	Day 28			
Week 5	Day 29	7.30 PM	2 hours	Topic 9: Configure Network Security Groups Topic 10: Configure Azure DNS
	Day 30	7.30 AM	2 hours	Topic 9: Configure Network Security Groups Topic 10: Configure Azure DNS
	Day 31	7.30 PM	2 hours	Topic 11: Configure VNet Peering Topic 12: Configure Network Routing and Endpoint
	Day 32	7.30 AM	2 hours	Topic 11: Configure VNet Peering Topic 12: Configure Network Routing and Endpoint
	Day 33	Buffer Day		
	Day 34	9.00 AM	9 hours	Office Hours (Project/Lab Walkthrough/Doubts Clearing)
	Day 35	4.30 PM	2 hours	Doubts Clearing/Lab Walkthrough

Week 6	Day 36	7.30 PM	2 hours	Topic 13: Configure Load Balancer Topic 14: Configure Azure Application Gateway
	Day 37	7.30 AM	2 hours	Topic 13: Configure Load Balancer Topic 14: Configure Azure Application Gateway
	Day 38	7.30 PM	2 hours	Topic 15: Configure Network Watcher
	Day 39	7.30 AM	2 hours	Topic 15: Configure Network Watcher
	Day 40	Buffer Day		
	Day 41	9.00 AM	9 hours	Office Hours (Project/Lab Walkthrough/Doubts Clearing)
	Day 42	4.30 PM	2 hours	Doubts Clearing/Lab Walkthrough
Week 7	Day 43	7.30 PM	2 hours	Topic 16: Configure Storage Accounts Topic 17: Configure Blob Storage
	Day 44	7.30 AM	2 hours	Topic 16: Configure Storage Accounts Topic 17: Configure Blob Storage
	Day 45	7.30 PM	2 hours	Topic 18: Configure Storage Security Topic 19: Configure Azure Files and File Sync
	Day 46	7.30 AM	2 hours	Topic 18: Configure Storage Security Topic 19: Configure Azure Files and File Sync
	Day 47	Buffer Day		
	Day 48	9.00 AM	9 hours	Office Hours (Project/Lab Walkthrough/Doubts Clearing)
	Day 49	4.30 PM	2 hours	Doubts Clearing/Lab Walkthrough
Week 8	Day 50	7.30 PM	1 hour	Project/Vacation
	Day 51	7.30 AM	1 hour	Project/Vacation
	Day 52	7.30 PM	1 hour	Project/Vacation
	Day 53	7.30 AM	1 hour	Project/Vacation
	Day 54	Buffer Day		
	Day 55	Vacation / Special classes		
	Day 56	Vacation / Special classes		
Week 9	Day 57	7.30 PM	2 hours	Topic 20: Configure Virtual Machines
	Day 58	7.30 AM	2 hours	Topic 20: Configure Virtual Machines
	Day 59	7.30 PM	2 hours	Topic 21: Configure Virtual Machine Availability
	Day 60	7.30 AM	2 hours	Topic 21: Configure Virtual Machine Availability
	Day 61	Buffer Day		
	Day 62	9.00 AM	9 hours	Office Hours (Project/Lab Walkthrough/Doubts Clearing)
	Day 63	4.30 PM	2 hours	Doubts Clearing/Lab Walkthrough
Week 10	Day 64	7.30 PM	2 hours	Topic 22: Configure Virtual Machine Extensions
	Day 65	7.30 AM	2 hours	Topic 22: Configure Virtual Machine Extensions
	Day 66	7.30 PM	2 hours	Topic 23: Configure App Service Plans Topic 24: Configure App Service
	Day 67	7.30 AM	2 hours	Topic 23: Configure App Service Plans Topic 24: Configure App Service
	Day 68	Buffer Day		
	Day 69	9.00 AM	9 hours	Office Hours (Project/Lab Walkthrough/Doubts Clearing)
	Day 70	4.30 PM	2 hours	Doubts Clearing/Lab Walkthrough

Week 11	Day 71	7.30 PM	2 hours	Topic 25: Configure Azure Container Instances
	Day 72	7.30 AM	2 hours	Topic 25: Configure Azure Container Instances
	Day 73	7.30 PM	2 hours	Topic 26: Configure File and Folder Backups
	Day 74	7.30 AM	2 hours	Topic 26: Configure File and Folder Backups
	Day 75	Buffer Day		
	Day 76	9.00 AM	9 hours	Office Hours (Project/Lab Walkthrough/Doubts Clearing)
	Day 77	4.30 PM	2 hours	Doubts Clearing/Lab Walkthrough
Week 12	Day 78	7.30 PM	1 hour	Project/Vacation
	Day 79	7.30 AM	1 hour	Project/Vacation
	Day 80	7.30 PM	1 hour	Project/Vacation
	Day 81	7.30 AM	1 hour	Project/Vacation
	Day 82	Buffer Day		
	Day 83	Vacation / Special classes		
	Day 84	Vacation / Special classes		
Week 13	Day 85	7.30 PM	2 hours	Topic 27: Configure Virtual Machine Backups
	Day 86	7.30 AM	2 hours	Topic 27: Configure Virtual Machine Backups
	Day 87	7.30 PM	2 hours	Topic 28: Configure Azure Monitor Topic 29: Configure Azure Alerts Topic 30: Configure Log Analytics
	Day 88	7.30 AM	2 hours	Topic 28: Configure Azure Monitor Topic 29: Configure Azure Alerts Topic 30: Configure Log Analytics
	Day 89	Buffer Day		
	Day 90	9.00 AM	9 hours	Office Hours (Project/Lab Walkthrough/Doubts Clearing)
	Day 91	4.30 PM	2 hours	Doubts Clearing/Lab Walkthrough
Week 14	Day 92	7.30 PM	1 hour	Office Hours (Project/Lab Walkthrough/Vacation)
	Day 93	7.30 AM	1 hour	Office Hours (Project/Lab Walkthrough/Vacation)
	Day 94	7.30 PM	1 hour	Office Hours (Project/Lab Walkthrough/Vacation)
	Day 95	7.30 AM	1 hour	Office Hours (Project/Lab Walkthrough/Vacation)
	Day 96	No session		
	Day 97	9.00 AM	9 hours	Office Hours (Project/Lab Walkthrough/Vacation)
	Day 98	4.30 PM	4 hours	Office Hours (Project/Lab Walkthrough/Vacation)
Week 15	Day 99	7.30 PM	1 hour	Office Hours (Project/Lab Walkthrough/Vacation)
	Day 100	7.30 AM	1 hour	Office Hours (Project/Lab Walkthrough/Vacation)
	Day 101	7.30 PM	1 hour	Office Hours (Project/Lab Walkthrough/Vacation)
	Day 102	7.30 AM	1 hour	Office Hours (Project/Lab Walkthrough/Vacation)
	Day 103	No session		
	Day 104	9.00 AM	9 hours	Office Hours (Project/Lab Walkthrough/Vacation)
	Day 105	4.30 PM	4 hours	Office Hours (Project/Lab Walkthrough/Vacation)
Week 16	Day 106	7.30 PM	1 hour	Office Hours (Project/Lab Walkthrough/Vacation)
	Day 107	7.30 AM	1 hour	Office Hours (Project/Lab Walkthrough/Vacation)
	Day 108	7.30 PM	1 hour	Office Hours (Project/Lab Walkthrough/Vacation)
	Day 109	7.30 AM	1 hour	Office Hours (Project/Lab Walkthrough/Vacation)
	Day 110	No session		
	Day 111	9.00 AM	9 hours	Office Hours (Project/Lab Walkthrough/Vacation)
	Day 112	4.30 PM	4 hours	Office Hours (Project/Lab Walkthrough/Vacation)

# Enrolment Options

## Option 1: AZ-104 Course Enrolment

### Inclusions:

- 1-year access to all live classes, recordings and course materials.
- Access to 150+ lab recipes and practice questions of AZ-104.
- Complementary KEWA access with live lab support and Azure access\*.

**Objective:** Ideal for those aiming for a targeted approach in mastering AZ-104 content.

**Fee:** Rs. 4999 (or \$59.99)

**More Information:** Read more at [Cloudericks.com/az104](https://cloudericks.com/az104)

## Option 2: Cloudericks Ultimate Membership

### Inclusions:

- Access to the AZ-104 course, alongside AZ-400, AZ-305, and a myriad of live classes across Azure, AWS, Kubernetes, Terraform, Java, Angular, etc.
- Get most benefits of courses including live classes, lab recipes, and quizzes.
- Can opt for live lab support with Azure access\*\*.

**Objective:** This membership is designed for those who are looking to not only excel in Azure Admin but also in various IT domains and cloud platforms.

**Fee:** Starting from effective ₹849 (\$10.49) per month

**More Information:** Read more at [Cloudericks.com/membership](https://cloudericks.com/membership)

## Option 3: 4MCEA Internship Program

### Inclusions:

- A full-time internship opportunity for people seeking jobs.
- You can enrol for free with a deposit or a nominal fee of Rs. 500 (\$6).

**Objective:** Crafted for individuals ready to dedicate their full attention to mastering Azure, offering an intense, interactive, and comprehensive learning journey.

**Fee:** Free with deposit / Rs. 500

**More Information:** Read more at [Cloudericks.com/4mcea](https://cloudericks.com/4mcea)

### Notes:

- (\*) Cloudericks ultimate members or KEWA members can get live lab support with complementary Azure access for a monthly fee of Rs. 499 or Rs. 999 for 3 months. The same applies to AZ-104 enrolled students who want to extend complimentary access beyond the three months.

## Important Notes!

1. Our live batches usually last for approximately 90 days (3 months). However, you will get access to all live classes for 1 whole year. That means you can attend missed sessions from further batches also during this 1 year.
2. We follow a continuous running batch approach for AZ-104. If you know Azure Fundamentals, you can join the course anytime. If you start with module 4, you will end with module 3 in the next round. If you don't have knowledge of Azure Fundamentals, we will provide a free bridge course.
3. We conduct regular sessions during weekdays at two convenient times to suit participants in various time zones. In case you are unable to attend these sessions, you have the option to watch the recordings and further ask doubts at a special weekend class.
4. In fact, as long as you are part of the KEWA group, you can ask doubts any day of the week to a dedicated support team who will join on zoom and help you. You will get three months of complimentary access to the KEWA group.
5. Complimentary KEWA access with live lab support and Azure is given for three months. You can extend your KEWA membership if you find value. To activate the complimentary KEWA access, read KEWA group policies and FAQ at [Cloudericks.com/wa](https://cloudericks.com/wa) and then WhatsApp the course purchase screenshot along with your email and full name at +91 90944 03333.



## ABOUT US

Trainso Training Solutions is an IT company that focuses on software development and technology consulting with a special focus on training.

Trainso also has a Cloud and IT training division, Cloudericks, and aims to make quality education matching real-world IT requirements affordable along with internships and placements at Trainso.



## GET IN TOUCH

Unlike many companies that spend a lot in marketing and pre sales, we spend more time and effort in post-sales support for our clients and students.

Please use the below contacts to contact us mentioning what you need and we will get back as soon as possible with answers. Once you join a course or membership, you can ask questions 24/7 in our WhatsApp study group.

WhatsApp: +91 90944 03333  
Email: [help@cloudericks.com](mailto:help@cloudericks.com)

Escalation  
WhatsApp: +91 90944 08888  
Email: [courses@trainso.com](mailto:courses@trainso.com)

## OUR MENTOR

Our mentor for cloud training, **Heartin Kanikathottu** is an internationally published author with 16+ years of industry experience and has worked on roles including Principal Architect and Vice President in MNCs including TCS, VMware, Societe Generale, & Morgan Stanley.

His books has won many awards including best 8th cloud computing book in the world. He has dual masters degrees. He is also a Microsoft Certified Trainer and has got and 15+ professional IT certifications including Azure Admin , Azure DevOps Expert and Azure Architect Expert.

