Implement and Monitor an Azure Infrastructure (50-55%)

Week 1 23/08	Implement cloud infrastructure monitoring	• monitor security	
		• monitor performance	
		• monitor health and availability	
		• monitor cost	
		• Design for cost optimization	
		• configure advanced logging	
		• configure logging for workloads	
		• configure and manage advanced alerts	
		•	
Week 2 30/08	Implement storage accounts	• select storage use case	

		• itdatabase Azbre	
		• actessdtonetwork	
		• Arokerosmnabaree's	
		• AticstonaentAzuen	
		• manage access keys	
		• stormenent Azaren	
		• tardosbennceAzute	
		• aeconotmate Storage	
Week 3 06/09	**Implement VMs for Windows and Linux**	• Aovaltabourfe)y High	
		• tonVilyslre storage	
		• reatcl ver suze	
		• Uepplicatedt Azuse	
		• ceproyue scale sets	
		• coskfigoceyp Azue	
		• Design a compute solution	
			• Aostvausals OKLO a aictrione
	Automate deployment and configuration of resources	• sexepalcdeDlaymaget	
		• tterspbytAzMranager	
		• enal urateso Lore'son of	
		• cosktreune la vrtual	
		• tem to latefrom a	
		• hmannage a template	
		• aeradockmatexecute	
	Implement virtual networking	• VmNjetecommentCtNeto	
		• peprtengent VNet	

		• Design a network solution	
			• private endpoints • Firewalls • Gateways
Week 4 **13/09**	**Implement Azure Active Directory**	• add custom domains	
		• configure Azure AD Identity	
		• manage a self-service password reset	
		• implement Conditional Access	
		• configure user accounts for MFA	
		• configure fraud alerts	
		• configure bypass options	
		• configure Trusted IPs	
		• configure verification methods	
		• configure guest accounts	
		• manage multiple directories	
	Implement and manage hybrid identities	• install and configure Azure AD Connect	
		• identity synchronization options	
		• configure and manage password sync and password writeback	
		• configure single sign-on	
		• use Azure AD Connect Health	

Implement Management and Security Solutions (25-30%)

Week 5 **20/09**	**Manage workloads in Azure**	• migrate workloads using Azure Migrate	
			• select a migration method

		• implement Azure Backup for VMs	
		• implement disaster recovery	
		• implement Azure Update Management	
		• Design migrations	
			• the storage migration, setup,
		• Design a solution for backup and recovery	
			• recommend a site recovery • recommend a solution for site failover and failback • recommend a network solution for the site
			• recommend storage types and methodology for data archiving • identify business data and archiving requirements for data • identify SLA(s) for data archiving • recommend a data retention
		• Design for high availability	
Week 6 27/09	**Implement load balancing and network security**	• implement Azure Load Balancer	
		• implement an application gateway	
		• implement a Web Application Firewall	

Week			
		• implement Azure Firewall	
		• implement the Azure Front Door Service	
		• implement Azure Traffic Manager	
		• implement Network Security Groups and Application Security Groups	
		• implement Bastion	
	Implement and manage Azure governance solutions	• create management groups, subscriptions	
		• assign RBAC roles	
		• create a custom RBAC role	
		• configure access to Azure resources by assigning roles	
		• configure management access to Azure	
		• interpret effective permissions	
		• set up and perform an access review	
		• configure a management group	
		• configure an Azure	
Week 7 04/10	**Manage security for applications**	• implement and configure KeyVault	
		• implement and configure Azure AD Managed Identities	
		• register and manage applications in Azure AD	
		• Design authentication	
		• Design authorization	

		• Design governance	
		• Design security for applications	• what can be stored in KeyVault • KeyVault operations • KeyVault regions

Implement Solutions for Apps (10-15%)

Week 8 11/10	Implement an application infrastructure	• create and configure Azure App Service	
		• create an App Service Web App for Containers	
		• create and configure an App Service plan	
		• configure an App Service	
		• Design an application architecture	
			• select an automation method • recommend a solution for using automated resources/ infrastructure consistency with other • design an API gateway strategy • recommend a caching structure for internal access when and how to • recommend external access to APIs and keys
	Implement container-based applications	• create a container image	
		• configure Azure Kubernetes Service	
		• publish and automate deployment of an image to the Azure Container Registry	
		• publish a solution on an Azure Container Instance	

Implement and Manage Data Platforms (10-15%)

Week 9 17/10	Implement NoSQL databases	• configure storage account tables	
		• select appropriate CosmosDB APIs	

		• set up replicas in CosmosDB	
	Implement Azure SQL databases	• configure Azure SQL database settings	
		• implement Azure SQL Database managed instances	
		• configure HA for an Azure SQL database	
		• publish an Azure SQL database	
		• Design a solution for databases	
		• Design data integration	