

Course Name	AZ-305 Designing Microsoft Azure Infrastructure Solutions		
About the Course	This course will prepare you to prove your skills in designing, governing, and migrating to reliable, scalable, secure, and performant solutions within Azure. Throughout the course, we'll learn about the services, features, pricing, and licensing and also how you can apply the knowledge you gain when architecting Azure solutions in the real world.		
Key Skills You Will Learn	Design identity, governance, and monitoring solutions, Design data storage solutions, Design business continuity solutions, Design infrastructure solutions		
Course Pre-Requisite	Conceptual knowledge of compute, applications, networking and migration solutions. Working experience with architecting compute and network solutions.		
Target Audience	This course is suitable for IT professionals with experience in Azure who want to become Azure solution architects, Solution architects, Cloud engineers, Azure infrastructure specialists, DevOps engineers, Technical decision makers, Systems administrators, Enterprise architects, Technology managers, Developers, and Data engineers		
Job prospects with this role	Cloud architect, Solutions architect, Software architect, Cloud engineer, IT consultant		
Course Duration	~ 40 Hrs		
Course Customisation	Not applicable		
Certification	READYBELL AZ-305 Designing Microsoft Azure Infrastructure Solutions Certificate		
Mode of Training	Instructor-led 100% Online or 100% Classroom (Salt Lake, Kolkata - India) or hybrid mode (Online + Classroom) as suitable for the learner		
Course Fees	Please contact us		
Refund Policy	Get a 3-hours free trial during which you can cancel at no penalty. After that, we don't give refunds		
Job Assistance	Will assist candidate in securing a suitable job		
Contact	READYBELL SOFTWARE SERVICES PVT. LIMITED AH 12, SALT LAKE SECTOR 2, KOLKATA (INDIA) - 700 091 E-MAIL: contact@readybellsoftware.com PH: +91 - 9147708045/9674552097, +91 - 33-79642872	Ready Bell Software Services Pvt. Ltd.	

	CURRICULUM			
Topic	Sub-Topic Sub-Topic	Duration (Hrs)		
AZ-305 Designing Microsoft Azure Infrastructure Solutions		Duration (Hrs)		

Describe Zero Trust model
Describe defense in depth
Describe defense-in-depth
Describe Microsoft Defender for Cloud
Module 5: Microsoft Cloud Adoption Framework for Azure
Introduction
Overview
Define strategy
Plan
Ready
Adopt
Govern and manage
Module 6: Introduction to the Microsoft Azure Well-Architected Framework
Introduction
Azure Well-Architected Framework pillars
Cost optimization
Operational excellence
Performance efficiency
Reliability
Security
AZ-305: Design identity, governance, and monitor solutions
Module 7: Design governance
Introduction
Design for governance
Design for management groups
Design for subscriptions
Design for resource groups
Design for resource tags
Design for Azure Policy
Design for role-based access control (RBAC)
Design for Azure landing zones
Module 8: Design authentication and authorization solutions
Introduction
Design for identity and access management (IAM)
Design for Microsoft Entra ID
Design for Microsoft Entra business-to-business (B2B)
Design for Azure Active Directory B2C (business-to-customer)
Design for conditional access
Design for identity protection
Design for access reviews
Design service principals for applications

Design managed identities	
Design managed identities	
Design for Azure Key Vault	
Module 9: Design a solution to log and monitor Azure resources	
Introduction	
Design for Azure Monitor data sources	
Design for Azure Monitor Logs (Log Analytics) workspaces	
Design for Azure Workbooks and Azure insights	
Design for Azure Data Explorer	
AZ-305: Design business continuity solutions	
Module 10: Describe high availability and disaster recovery strategies	
Introduction	
Describe recovery time objective and recovery point objective	
Explore high availability and disaster recovery options	
Describe Azure high availability and disaster recovery features for Azure Virtual	
Machines	
Describe high availability and disaster recovery options for PaaS deployments	
Explore an laaS high availability and disaster recovery solution	
Describe hybrid solutions	
Module 11: Design a solution for backup and disaster recovery	
Introduction	
Design for backup and recovery	
Design for Azure Backup	
Design for Azure blob backup and recovery	
Design for Azure files backup and recovery	
Design for Azure virtual machine backup and recovery	
Design for Azure SQL backup and recovery	
Design for Azure Site Recovery	
AZ-305: Design data storage solutions	
Module 12: Design a data storage solution for non-relational data	
Introduction	
Design for data storage	
Design for Azure storage accounts	
Design for data redundancy	
Design for Azure Blob Storage	
Design for Azure Files	
Design for Azure managed disks	
Design for storage security	
Module 13: Design a data storage solution for relational data	
Introduction	
Design for Azure SQL Database	

Design for Azure SQL Managed Instance
Design for SQL Server on Azure Virtual Machines
Recommend a solution for database scalability
Recommend a solution for database availability
Design security for data at rest, data in motion, and data in use
Design for Azure SQL Edge
Design for Azure Cosmos DB and Table Storage
Module 14: Design data integration
Introduction
Design a data integration solution with Azure Data Factory
Design a data integration solution with Azure Data Lake
Design a data integration and analytic solution with Azure Databricks
Design a data integration and analytic solution with Azure Synapse Analytics
Design strategies for hot, warm, and cold data paths
Design an Azure Stream Analytics solution for data analysis
AZ-305: Design infrastructure solutions
Module 15: Design an Azure compute solution
Introduction
Choose an Azure compute service
Design for Azure Virtual Machines solutions
Design for Azure Batch solutions
Design for Azure App Service solutions
Design for Azure Container Instances solutions
Design for Azure Kubernetes Service solutions
Design for Azure Functions solutions
Design for Azure Logic Apps solutions
Module 16: Design an application architecture
Introduction
Describe message and event scenarios
Design a messaging solution
Design an Azure Event Hubs messaging solution
Design an event-driven solution
Design a caching solution
Design API integration
Design an automated app deployment solution
Design an app configuration management solution
Module 17: Design network solutions
Introduction
Recommend a network architecture solution based on workload requirements
Design patterns for Azure network connectivity services

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	and connectivity and routing
	premises connectivity to Azure Virtual Network
	plication delivery service
	lication delivery services
	lication protection services
Module 18: Des	ign migrations
Introduction	
	ation with the Cloud Adoption Framework
	zure migration framework
Assess your or	n-premises workloads
Select a migra	tion tool
Migrate your s	tructured data in databases
Select an onlin	ne storage migration tool for unstructured data
Migrate offline	data
Build great sol	utions with the Microsoft Azure Well-Architected Framework
Module 19: Intro	duction to the Microsoft Azure Well-Architected Framework
Introduction	
Azure Well-Ard	chitected Framework pillars
Cost optimizat	ion
Operational ex	cellence
Performance e	efficiency
Reliability	
Security	
Module 20: Micr	osoft Azure Well-Architected Framework - Cost Optimization
Introduction	
Develop cost-r	management discipline
Design with a	cost-efficiency mindset
Design for usa	ge optimization
Design for rate	optimization
Monitor and op	otimize over time
Module 21: Micr	osoft Azure Well-Architected Framework - Operational excellence
Introduction	
	Inc culture
Embrace Dev0	ops culture
	elopment standards
Establish deve	
Establish deve	ons with observability
Establish deve	elopment standards ons with observability onfidence

Module 22: Microsoft Azure Well-Architected Framework - Performance efficient	ncy
Introduction	
Negotiate realistic performance targets	
Design to meet capacity requirements	
Achieve and sustain performance	
Improve efficiency through optimization	
Module 23: Microsoft Azure Well-Architected Framework - Reliability	
Introduction	
Design for business requirements	
Design for resilience	
Design for recovery	
Design for operations	
Keep it simple	
Module 24: Microsoft Azure Well-Architected Framework - Security	
Introduction	
Plan your security readiness	
Design to protect confidentiality	
Design to protect confidentiality Design to protect integrity	
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Design to protect integrity Design to protect availability Sustain and evolve your security posture	
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Design to protect integrity Design to protect availability Sustain and evolve your security posture	for
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	Exercise - Deploy your first cloud adoption plan
	Exercise - Customize your cloud adoption plan
Ī	Module 28: Choose the best Azure landing zone to support your requirements for
d	cloud operations
	Introduction
	Customer narrative
	Common operating models
	Design areas for Azure landing zones
Γ	Design principles for Azure landing zones
- [Journey to the target architecture
- [Choose an Azure landing zone option
	Deploy the Azure landing zone accelerator
	Enhance your landing zone
Ī	Module 29: Use the Cloud Adoption Framework Migrate methodology to migrate your
١	workload to the cloud
Γ	Introduction
Γ	Prepare for your migration
ſ	Assess your workload
	Deploy your assets
	Release your workload
	Module 30: Address tangible risks with the Govern methodology of the Cloud
/	Adoption Framework for Azure
	Introduction
	Customer narrative
	Govern methodology
L	Assess cloud governance risks
	Document cloud governance policies
	Enforce cloud governance policies
	Monitor cloud governance
	Module 31: Ensure stable operations and optimization across all supported
<u>\</u>	workloads deployed to the cloud
L	Introduction
L	Establish business commitments
	Deploy an operations baseline
	Protect and recover
	Enhance an operations baseline
	Manage platform and workload specialization
Ī	Module 32: Innovate applications by using Azure cloud technologies
	Introduction

Follow the innovation lifecycle	
Azure technologies for the build process	
Infuse your applications with Al	
Azure technologies for measuring business impact	
Azure technologies for the learn process	
Module 33: Prepare for cloud security by using the Microsoft Cloud Adoption	
Framework for Azure	
Introduction	
Customer narrative	
Methodology	
Security roles and responsibilities	
Simplify compliance and security	
Simplify security implementation	
Security tools and policies	
To register for this course please e-mail/call us	