


<b>Course Name</b>	<b>AZ-204 Microsoft Azure Developer Associate</b>	
<b>About the Course</b>	Build end-to-end solutions in Microsoft Azure to create Azure Functions, implement and manage web apps, develop solutions utilizing Azure storage, and more	
<b>Key Skills You Will Learn</b>	Develop Azure compute solutions, Develop for Azure storage, Implement Azure security, Monitor, troubleshoot, and optimize Azure solutions, Connect to and consume Azure services and third-party services	
<b>Course Pre-Requisite</b>	At least two years of programming experience, Proficiency in programming with Azure SDKs, Proficiency using Azure CLI, Azure PowerShell, and other tools	
<b>Target Audience</b>	This course is suitable for Software developers, Cloud solution architects, Azure developers, DevOps engineers, Technical team leads, Application engineers, IT professionals who want to build, manage, and deploy Azure applications, Professionals seeking Azure Developer Associate certification, Experienced programmers transitioning to Azure cloud development etc	
<b>Job prospects with this role</b>	Cloud architect, Solutions architect, Software architect, Cloud engineer, IT consultant	
<b>Course Duration</b>	~ 60 Hrs	
<b>Course Customisation</b>	Not applicable	
<b>Certification</b>	READYBELL AZ-204 Microsoft Azure Developer Associate Certificate	
<b>Mode of Training</b>	Instructor-led 100% Online or 100% Classroom (Salt Lake, Kolkata - India) or hybrid mode (Online + Classroom) as suitable for the learner	
<b>Course Fees</b>	Please contact us	
<b>Refund Policy</b>	Get a 3-hours free trial during which you can cancel at no penalty. After that, we don't give refunds	
<b>Job Assistance</b>	Will assist candidate in securing a suitable job	
<b>Contact</b>	<b>READYBELL SOFTWARE SERVICES PVT. LIMITED</b> <b>AH 12, SALT LAKE SECTOR 2, KOLKATA (INDIA) - 700 091</b> <b>E-MAIL: <a href="mailto:contact@readybellsoftware.com">contact@readybellsoftware.com</a></b> <b>PH: +91 - 9147708045/9674552097, +91 - 33-79642872</b>	 Software Services Pvt. Ltd.

CURRICULUM		
Topic	Sub-Topic	Duration (Hrs)
<p style="text-align: center;"><b>AZ-204</b> <b>Microsoft Azure</b> <b>Developer Associate</b></p>	<b>AZ-204: Implement Azure App Service web apps</b>	60 Hrs
	Module 1: Explore Azure App Service	
	Introduction	
	Examine Azure App Service	
	Examine Azure App Service plans	
	Deploy to App Service	
	Explore authentication and authorization in App Service	
	Discover App Service networking features	
	Exercise: Create a static HTML web app by using Azure Cloud Shell	
	Module 2: Configure web app settings	
	Introduction	
	Configure application settings	
	Configure general settings	
	Configure path mappings	
	Enable diagnostic logging	
	Configure security certificates	
	Module 3: Scale apps in Azure App Service	
	Introduction	
	Examine scale out options	
	Identify autoscale factors	
	Enable autoscale in App Service	
	Explore autoscale best practices	
	Module 4: Explore Azure App Service deployment slots	
	Introduction	
	Explore staging environments	
	Examine slot swapping	
	Swap deployment slots	
	Route traffic in App Service	
	<b>AZ-204: Implement Azure Functions</b>	
	Module 5: Explore Azure Functions	
	Introduction	
	Discover Azure Functions	
Compare Azure Functions hosting options		
Scale Azure Functions		
Module 6: Develop Azure Functions		
Introduction		
Explore Azure Functions development		

	Create triggers and bindings	
	Connect functions to Azure services	
	Exercise: Create an Azure Function by using Visual Studio Code	
	<b>AZ-204: Develop solutions that use Blob storage</b>	
	Module 7: Explore Azure Blob storage	
	Introduction	
	Explore Azure Blob storage	
	Discover Azure Blob storage resource types	
	Explore Azure Storage security features	
	Module 8: Manage the Azure Blob storage lifecycle	
	Introduction	
	Explore the Azure Blob storage lifecycle	
	Discover Blob storage lifecycle policies	
	Implement Blob storage lifecycle policies	
	Rehydrate blob data from the archive tier	
	Module 9: Work with Azure Blob storage	
	Introduction	
	Explore Azure Blob storage client library	
	Create a client object	
	Exercise: Create Blob storage resources by using the .NET client library	
	Manage container properties and metadata by using .NET	
	Set and retrieve properties and metadata for blob resources by using REST	
	<b>AZ-204: Develop solutions that use Azure Cosmos DB</b>	
	Module 10: AZ-204: Develop solutions that use Azure Cosmos DB	
	Introduction	
	Identify key benefits of Azure Cosmos DB	
	Explore the resource hierarchy	
	Explore consistency levels	
	Choose the right consistency level	
	Explore supported APIs	
	Discover request units	
	Exercise: Create Azure Cosmos DB resources by using the Azure portal	
	Module 11: Work with Azure Cosmos DB	
	Introduction	
	Explore Microsoft .NET SDK v3 for Azure Cosmos DB	
	Exercise: Create resources by using the Microsoft .NET SDK v3	
	Create stored procedures	
	Create triggers and user-defined functions	
	Explore change feed in Azure Cosmos DB	

<b>AZ-204: Implement containerized solutions</b>
Module 12: Manage container images in Azure Container Registry
Introduction
Discover the Azure Container Registry
Explore storage capabilities
Build and manage containers with tasks
Explore elements of a Dockerfile
Exercise: Build and run a container image by using Azure Container Registry Tasks
Module 13: Run container images in Azure Container Instances
Introduction
Explore Azure Container Instances
Exercise - Deploy a container instance by using the Azure CLI
Run containerized tasks with restart policies
Set environment variables in container instances
Mount an Azure file share in Azure Container Instances
Module 14: Implement Azure Container Apps
Introduction
Explore Azure Container Apps
Exercise - Deploy a container app
Explore containers in Azure Container Apps
Implement authentication and authorization in Azure Container Apps
Manage revisions and secrets in Azure Container Apps
Explore Dapr integration with Azure Container Apps
<b>AZ-204: Implement user authentication and authorization</b>
Module 15: Explore the Microsoft identity platform
Introduction
Explore the Microsoft identity platform
Explore service principals
Discover permissions and consent
Discover conditional access
Module 16: Implement authentication by using the Microsoft Authentication Library
Introduction
Explore the Microsoft Authentication Library
Initialize client applications
Exercise - Implement interactive authentication by using MSAL.NET
Module 17: Implement shared access signatures
Introduction

	Discover shared access signatures	
	Choose when to use shared access signatures	
	Explore stored access policies	
	<b>Module 18: Explore Microsoft Graph</b>	
	Introduction	
	Discover Microsoft Graph	
	Query Microsoft Graph by using REST	
	Query Microsoft Graph by using SDKs	
	Apply best practices to Microsoft Graph	
	<b>AZ-204: Implement secure Azure solutions</b>	
	<b>Module 19: Implement Azure Key Vault</b>	
	Introduction	
	Explore Azure Key Vault	
	Discover Azure Key Vault best practices	
	Authenticate to Azure Key Vault	
	Exercise: Set and retrieve a secret from Azure Key Vault by using Azure CLI	
	<b>Module 20: Implement managed identities</b>	
	Introduction	
	Explore managed identities	
	Discover the managed identities authentication flow	
	Configure managed identities	
	Acquire an access token	
	<b>Module 21: Implement Azure App Configuration</b>	
	Introduction	
	Explore the Azure App Configuration service	
	Create paired keys and values	
	Manage application features	
	Secure app configuration data	
	<b>AZ-204: Implement API Management</b>	
	<b>Module 22: Explore API Management</b>	
	Introduction	
	Discover the API Management service	
	Explore API gateways	
	Explore API Management policies	
	Create advanced policies	
	Secure APIs by using subscriptions	
	Secure APIs by using certificates	
	Exercise - Create a backend API	

<b>AZ-204: Develop event-based solutions</b>	
Module 23: Explore Azure Event Grid	
Introduction	
Explore Azure Event Grid	
Discover event schemas	
Explore event delivery durability	
Control access to events	
Receive events by using webhooks	
Filter events	
Exercise - Route custom events to web endpoint by using Azure CLI	
Module 24: Explore Azure Event Hubs	
Introduction	
Discover Azure Event Hubs	
Explore Event Hubs Capture	
Scale your processing application	
Control access to events	
Perform common operations with the Event Hubs client library	
<b>AZ-204: Develop message-based solutions</b>	
Module 25: Discover Azure message queues	
Introduction	
Choose a message queue solution	
Explore Azure Service Bus	
Discover Service Bus queues, topics, and subscriptions	
Explore Service Bus message payloads and serialization	
Exercise: Send and receive message from a Service Bus queue by using .NET.	
Explore Azure Queue Storage	
Create and manage Azure Queue Storage and messages by using .NET	
<b>AZ-204: Troubleshoot solutions by using Application Insights</b>	
Module 26: Monitor app performance	
Introduction	
Explore Application Insights	
Discover log-based metrics	
Instrument an app for monitoring	
Select an availability test	
Troubleshoot app performance by using Application Map	
<b>AZ-204: Implement caching for solutions</b>	
Module 27: Develop for Azure Cache for Redis	
Introduction	

	Explore Azure Cache for Redis	
	Configure Azure Cache for Redis	
	Interact with Azure Cache for Redis by using .NET	
	Exercise - Connect an app to Azure Cache for Redis by using .NET Core	
	Module 28: Develop for storage on CDNs	
	Introduction	
	Explore Azure Content Delivery Networks	
	Control cache behavior on Azure Content Delivery Networks	
	Interact with Azure Content Delivery Networks by using .NET	
<b>To register for this course please e-mail/call us</b>		