

About the Program

This Azure Developer certification training course is designed to clear the Azure Developer Certified Associate exam (AZ-204 = AZ-200 + AZ-201). Through this training, you will master how to develop and implement Azure cloud technology solutions using Azure services, such as cloud storage services, cloud security services, Platform as a Service, and Azure Cognitive Services. As part of this online training, you will also receive official course material issued by Microsoft for 'Developing Microsoft Azure and Web Services.'

Aligned with Microsoft Certification

Microsoft is one of the largest organizations in terms of inventing creative tools for various purposes. Industry recognized certification offers better employability.

Program Curriculum

Azure Developer AZ-204 Course Content

1. MANAGING AZURE SUBSCRIPTION & RESOURCES

Managing Azure subscriptions, assigning administrator permissions, configuring Azure subscriptions, utilizing and consuming Azure resources, analyzing alerts and metrics, configuring diagnostic settings, monitoring unused resources, utilizing Log Search query functions, viewing alerts in Log Analytics, managing resource groups, configuring resource locks and policies, moving resources across resource groups, and managed role-based access control (RBAC)

2. IMPLEMENT IAAS SOLUTIONS

Provision virtual machines (VMs)
Configure, validate, and deploy ARM templates
Configure container images for solutions
Publish an image to the Azure Container Registry
Run containers by using Azure Container Instance

3. IMPLEMENTING & MANAGING STORAGE

Creating and configuring storage accounts, installing Azure Storage Explorer, monitoring activity using Log Analytics, deploying Azure storage replication, exporting from and importing into Azure job, Azure Data Box, configuring Blob Storage, Azure Content Delivery Network (CDN), creating Azure file share and file sync, implementing Azure backup, creating Recovery Services Vault, and configuring the backup policy

4. DEPLOYING & MANAGING VIRTUAL MACHINES

Configuring VM for Windows and Linux, configuring monitoring, networking, storage, deploying, and configuring scale sets, modifying Azure Resource Manager (ARM), configuring VHD template, deploying Windows and Linux VMs, managing Azure VM, automating configuration management with PowerShell Desired State Configuration (DSC), managing VM sizes, moving VMs from one resource to another, managing VM backups, configuring VM backups, performing VM restore, and Azure Site Recovery

5. CONFIGURING & MANAGING VIRTUAL NETWORKS

Creating connectivity between virtual networks, creating and configuring VNet peering, virtual network connectivity, creating virtual network gateway, implementing and managing virtual networking, configuring private and public IP addresses, network routes and network interfaces, configuring name resolution, configuring Azure DNS, configuring private and public DNS zones, configuring Network Security Groups (NSGs), creating security rule,; associating NSG to a subnet or network interface, implementing Azure Load Balancer, monitoring and troubleshooting virtual networking, and integrating an on-premises network with Azure virtual network

6. DEVELOPING AZURE IAAS SOLUTIONS

Implementing solutions with virtual machines (VM), provisioning VMs, creating ARM templates, configuring Azure Disk Encryption for VMs, deploying Azure batch jobs with Azure Batch Services, Batch Service API, running batch job with Azure CLI, Azure portals, Azure Batch Services batch job coding, creating

containerized solutions, creating Azure Managed Kubernetes Service (AKS) cluster, container images for solutions, publishing images to Azure Container Registry, and running containers with Azure Container Instance

7. DEVELOPING AZURE PAAS SOLUTIONS

Creating Azure App Service web apps, creating background task with WebJobs, enabling diagnostic logging, creating Azure App Service mobile apps, enabling mobile app offline sync, deploying mobile device remote instrumentation, Azure App service API apps, API documentation with open-source tools, Azure function implementation, function input and output binding, function trigger with timer, webhooks and data operations, Azure durable functions, and creating Azure Function apps with Visual Studio

8. DEVELOPING FOR AZURE STORAGE

Developing solutions with storage tables, table policy implementation, using code to query table storage, deploying partitioning schemes, using Cosmo DB storage for solution development, data creation, reading, updating, and deleting with the right API, operations consistency level, developing solutions for relational databases, relational database configuration and provisioning, Azure SQL database elastic pool configuration, using code to create, read, update, and delete data tables, developing solutions for blob storage, moving an item between containers and storage accounts, deploying blob leasing, and data archiving and retention

9. IMPLEMENTING AZURE SECURITY

Deploying authentication, using forms-based authentication, tokens, certificates, using Azure AD for Windows authentication, OAuth2 authentication, managed service identity, service principle authentication, role-based and claims-based authorization, shared access signature, secure data solutions, decrypting and encrypting data in transit and rest, and using KeyVault API for key creation and deletion

10. MONITOR, TROUBLESHOOT, & OPTIMIZE AZURE SOLUTIONS

Code development for apps and services scalability, autoscaling rules, handling transit faults with code, caching and content delivery integration with solutions, Azure Redis Cache data storage and retrieval, developing code for CDNs, invalidating cache content, support monitoring and logging solutions, deploying Application Insights for configuring app or service instrumentation, Azure Monitor for troubleshooting, and Application Insights Web Test implementation and alerts

11. CONNECTING & CONSUMING AZURE & THIRD-PARTY SERVICES

Developing App Service Logic App, creating a Logic App, creating custom connector and custom template for Logic Apps, integrating Azure search in solutions, creating Azure search index, importing search data, querying Azure Search index, API Gateways, APIM instance, API authentication, API policies, event-based solution development, deploying solutions with Event Grid, Notification and Event Hub, developing message-based solutions, and Azure Service Bus and Azure Queue Storage for solution implementation