



# Microsoft Azure Developer Associate AZ-204 Certification Training

In Collaboration with **Microsoft**

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## 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.’



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## Collaborating with Microsoft

Microsoft is one of the largest organizations in terms of inventing creative tools for various purposes. Experts from Microsoft and other top MNCs will offer you their understanding and knowledge in the field through this online certification. Moreover, you will also get deep insights into the concepts and gain hands-on experience by working on industry-specified assignments.

### **Benefits for students from Microsoft:**

- Industry-recognized Microsoft certification
- Real-time projects and exercises

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## About Intellipaate

Intellipaate is one of the leading e-learning training providers with more than 600,000 learners across 55+ countries. We are on a mission to democratize education as we believe that everyone has the right to quality education.

Our courses are delivered by subject matter experts from top MNCs, and our world-class pedagogy enables learners to quickly learn difficult topics in no time. Our 24/7 technical support and career services will help them jump-start their careers in their dream companies.

# Key Features



**28 HRS INSTRUCTOR-LED  
TRAINING**



**22 HRS SELF-PACED TRAINING**



**50 HRS REAL-TIME  
PROJECT WORK**



**LIFETIME ACCESS**



**24/7 TECHNICAL SUPPORT**



**INDUSTRY-RECOGNIZED  
CERTIFICATION**



**JOB ASSISTANCE THROUGH  
80+ CORPORATE TIE-UPS**



**FLEXIBLE SCHEDULING**

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# Career Support



## SESSIONS WITH INDUSTRY MENTORS

Attend sessions from top industry experts and get guidance on how to boost your career growth



## MOCK INTERVIEWS

Mock interviews to make you prepare for cracking interviews by top employers



## GUARANTEED INTERVIEWS & JOB SUPPORT

Get interviewed by our 400+ hiring partners



## RESUME PREPARATION

Get assistance in creating a world-class resume from our career services team



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## Why take up this course?

Today, the cloud is one of the most powerful shifts that is happening in organizations around the world that want to benefit from its strengths, such as low cost, instant availability, and high reliability. Microsoft Azure is one of the top Cloud Computing and storage platforms, and enrolling in Intellipaat's Microsoft Azure training can help professionals apply for the best jobs in this domain.

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## Who should take up this course?

- Solutions Architects and programmers looking to build SaaS, PaaS, and IaaS applications
- Software Developers and Network and Systems Administrators
- Graduates and professionals looking to upgrade their skills to cloud technologies

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# 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. 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

### **3. 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

### **4. 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

## **5. 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

## **6. 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

## **7. 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

## **8. 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

## **9. 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

## 10. 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

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# Project Work

## Azure Developer AZ-204 Project

**Project:** Deploying an Industry-scale Application in Azure App Services Using Custom Containers

**Industry:** General

**Problem Statement:** Creating an application in Azure App Service, deploying the app in Azure App Service, configuring the application into a container, opening its SSH session in a browser, and troubleshooting the application.

**Topics:** In this Microsoft Azure Developer project, you will be working on building a Python and PostgreSQL application in Azure App Service and then configuring your application into a customized Docker container.

### Highlights:

Create an application in Azure App

Create a PostgreSQL database in Azure

Deploy the app to Azure

Manage the app in the Azure portal

Configure your application in custom containers

# Certification

After the completion of the course, you will get certificates from Microsoft and Intellipaat.



## CERTIFICATE OF COMPLETION

This certificate is awarded to

Your Name

Who has successfully completed

Course Name

Fulfilling all the requirements stipulated by Intellipaat to achieve professional excellence.

Issued Date: Month XX, XXXX.



This certificate accredits that

**Hemant Jain**



has successfully completed the following Microsoft Official Course

**Course Name**



Satya Nadella  
Chief Executive Officer

Ayush Rathi  
Microsoft Certified Trainer



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## Success Stories



### **Kevin K Wada**

Thank you very much for your top-class service. A special mention should be made for your patience in listening to my queries and giving me a solution, which was exactly what I was looking for. I am giving you a 10 on 10!



### **Sampson Basoah**

The Intellipaate team helped me in selecting the perfect course that suits my profile. The whole course was practically oriented, and the trainers were always ready to answer any question. I found this course to be impactful. Thank you.



### **Jagadeesh Prashanth**

The best part of Intellipaate training is that they support you for a lifetime. Even after the Azure Developer certification training completion, all my queries are still addressed with full dedication. This is really appreciable. Thanks a lot.



### **Hareram Singh**

The support team helped me in the course selection. I have never come across such a cooperative team. They scheduled my Azure classes as per my requirement. The entire course package was great. I enjoyed every bit of it.



### **Vishal Pentakota**

The best part of this course was the series of hands-on demonstrations that the trainer performed. Not only did he explain each concept theoretically, but he also implemented all those concepts practically. Great job! A must go for beginners.

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# CONTACT US

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If you have any further queries or just want to have a conversation with us, then do call us.

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