Cloud Architect Certification Master's Program

In Collaboration with **IBM** | **Microsoft**

IntelliPaat

Table of Contents

1. About the Program
2. Collaborating with IBM
3. Collaborating with Microsoft
4. About Intellipaat
5. Key Features
6. Career Support
7. Why take up this course?
8. Who should take up this course?
9. Course Advisors
10. Program Curriculum
11. Self-paced Courses
12. Project Work
13. Certification
14. Intellipaat Success Stories
15. Contact Us

About the Program

Our Cloud Architect certification program lets you gain proficiency in Cloud and DevOps. You will work on real-world projects in AWS, Azure, DevOps, Python, Java, Splunk, Linux, and more. In this program, you will cover 11 courses, 26 industry-based projects, and the Capstone project. As part of this master's in Cloud Computing, you will also receive official course material issued by Microsoft for ‘Integrating On-premises Identity Infrastructure with Microsoft Azure’ and ‘Implementing Security in Azure Development Solutions.’

IBM

Collaborating with IBM

IBM is one of the leading innovators and the biggest player in creating innovative tools. Top subject matter experts from IBM will share their knowledge in the domains of Cloud and DevOps through this training program, which will help you gain the breadth of knowledge and industry experience.

Benefits for students from IBM

- Industry-recognized IBM certificate
- Access to IBM Watson for hands-on training and practice
- Industry in-line case studies and project work

Microsoft

Collaborating with Microsoft

Microsoft is one of the largest organizations in terms of inventing creative tools for various purposes inclined to Cloud and DevOps. 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

About Intellipaat

Intellipaat 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

147 HRS OF INSTRUCTOR-LED TRAINING

208 HRS OF SELF-PACED TRAINING

246 HRS OF REAL-TIME PROJECT WORK

LIFETIME ACCESS

24/7 TECHNICAL SUPPORT

INDUSTRY-RECOGNIZED CERTIFICATION

JOB ASSISTANCE THROUGH 80+ CORPORATE TIE-UPS

FLEXIBLE SCHEDULING

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

Why take up this course?

- **9 million jobs are associated with Cloud Computing currently – Forbes**

Today, the cloud platform is no longer optional but critical to the survival of all business organizations. AWS and Azure are the two most important cloud platforms. This training program also covers the DevOps methodology, which is a recent phenomenon. Taking up this training program can thus help you grab the best jobs in the cloud domain.

Who should take up thistraining?

This Cloud Architect master's program can be opted by:

- IT Developers and IT Operations Personnel
- Software Automation, Testing, and Security Professionals
- DevOps Consultants and other stakeholders
- Cloud Computing, Systems, and Network Administrators

Courses offered

INSTRUCTOR-LED TRAINING COURSES

1. AWS
2. Microsoft Azure
3. DevOps
4. Python
5. Google Cloud

SELF-PACED LEARNING COURSES

1. Java
2. Splunk Developer and Admin
3. Linux
4. Microsoft Azure 303
5. Hadoop Administration
6. Agile

Course Advisors

Suresh Paritala

Solutions Architect at Microsoft, Texas

A Senior Software Architect at Microsoft, Texas, who has previously worked with IBM Corporation, Suresh Paritala has worked on Big Data, Data Science, Advanced Analytics, Internet of Things, and Azure, along with AI domains like Machine Learning and Deep Learning. He has successfully implemented high-impact projects in major corporations around the world.

David Callaghan

Big Data Strategist and Solutions Architect, Perficient, USA

An experienced Blockchain professional, who has been bringing integrated Blockchain, particularly Hyperledger and Ethereum, and Big Data solutions to the cloud, David Callaghan has previously worked on Hadoop, AWS Cloud, Big Data, and Pentaho projects that have had a major impact on the revenues of marquee brands around the world.

Samanth Reddy

Data Scientist at ASCAP

A renowned Data Scientist who has worked with Google and is currently working at ASCAP, Samanth Reddy has a proven ability to develop Data Science strategies that have a high impact on the revenues of various organizations. He comes with strong Data Science expertise and has created decisive Data Science strategies for Fortune 500 corporations.

Program Curriculum

AWS

Learning Objective

We are offering comprehensive AWS certification training led by industry experts. This AWS training will prepare you for the AWS Solutions Architect certification exam. You will learn skills such as AWS Elastic Cloud Compute, Simple Storage Service, Virtual Private Cloud, Aurora database service, Load Balancing, Auto Scaling, and more by working on hands-on projects and case studies. You will also learn the best practices to be followed while working on AWS projects in the industry.

Topics:

- Introduction to Cloud Computing and AWS
- Elastic Compute and Storage Volumes
- Load Balancing, Autoscaling, and DNS
- Virtual Private Cloud
- Storage - Simple Storage Service (S3)
- Databases and In-memory Data Stores
- Management and Application Services
- Access Management and Monitoring Services
- Automation and Configuration Management
- AWS Migration

Self-paced Course Content:

- Architecting AWS – Whitepaper

- DevOps on AWS
- Amazon FSx and Global Accelerator
- AWS Architect Interview Questions

MICROSOFT AZURE

Learning Objective

Intellipaat's Microsoft Azure certification training paves the way for learners to get accustomed to Azure infrastructure and deployment. This training makes learners acquire skills in Azure administration, managing subscriptions, securing storage, securing and managing identities, deploying virtual machines, implementing Azure Load Balancer, migrating servers to Azure, integrating on-premise networks with Azure virtual network, and managing application services, among other aspects of Azure through implementing projects in real-world scenarios. Become a part of the Azure revolution with Intellipaat's Microsoft Certified Azure Administrator Associate training course. Aligned with the 2020 edition of the Exam AZ-104 Microsoft Azure Administrator, this course is best suited for professionals wishing to be a successful Azure Administrator.

Topics:

- Introduction to Microsoft Azure
- Introduction to ARM and Azure Storage
- Introduction to Azure Storage
- Azure Virtual Machines
- Azure App and Container services
- Azure Networking - I
- Azure Networking - II
- Authentication and Authorization in Azure Using RBAC
- Microsoft Azure Active Directory
- Azure Monitoring

DEVOPS

Learning Objective

Intellipaat DevOps online training will help you gain the required skill set for getting a DevOps Engineer job. It will make you proficient in DevOps skills like Continuous Integration, Delivery and Deployment, Infrastructure as a Code and more using DevOps tools like Git, SVN, Docker, Docker Swarm, Kubernetes, Puppet, Ansible, Selenium, Maven, Nagios, Chef, etc.

Topics:

- Infrastructure Setup
- Introduction to DevOps
- Continuous Testing
- Continuous Integration Using Jenkins
- Software Version Control
- Continuous Deployment: Containerization with Docker
- Containerization with Docker: Ecosystem and Networking
- Configuration Management Using Puppet
- Configuration Management Using Ansible
- Continuous Orchestration Using Kubernetes
- Continuous Monitoring Using Nagios
- Terraform Modules and Workspaces

Self Paced

- MAVEN
- SONARQUBE
- XLDEPLOY
- TEAMCITY
- JFROG

- MS BUILD
- NEXUS
- NPM
- ELK

PYTHON

Learning Objective

The Python certification course will help you understand this high-level, general-purpose dynamic programming language. In this Python training course, you will be exposed to both the basic and advanced concepts of Python, such as Machine Learning, Deep Learning, Hadoop streaming, and MapReduce in Python. Also, you will work with packages, namely, SciKit and SciPy.

Topics:

- Python Environment Setup and Essentials
- Python Language Basic Constructs
- OOP Concepts in Python and Database Connection
- NumPy for Mathematical Computing
- SciPy for Scientific Computing
- Matplotlib for Data Visualization
- Pandas for Data Analysis and Machine Learning
- Exception Handling
- Multi-threading and the Race Condition
- Packages and Functions
- Web Scraping with Python

GOOGLE CLOUD

Learning Objective

Intellipaat's Google Cloud Architect training is created by industry experts to help you learn about Google Cloud Platform. As part of the training, you will learn Cloud Computing essentials, Google Cloud Platform (GCP) core infrastructure, and managing GCP services such as storage, compute, database, networking, identity and access management, security services, and more through real-world projects.

Topics:

- Introduction to Google Cloud
- Google Cloud Services
- Google Computing Services
- Google Storage Services
- Google Cloud APIs
- Google Networking Services
- IAM and Security Services
- Migrating to Google Cloud

Self-paced Courses

Java

This comprehensive course lets you master the Java programming language. We provide the best online training classes to help you learn OOP concepts, J2EE, core and advanced Java, JDBC, objects and classes, etc. Besides, you will work on real-world industry projects.

Linux

Our Linux training course lets you master the Linux OS. This in-depth training course gives you all the skills needed for working as a Linux Administrator. You will learn about the Red Hat system, its installation, managing boot processes, performing various operations, understanding Linux Kernel, testing and debugging, etc.

Splunk Developer and Admin

This course includes the complete aspects of Splunk Developer and Splunk Administration. It includes various aspects of Splunk installation, configuration, Splunk Syslog, Syslog Server, log analysis, Splunk Dashboard, deploying Splunk Search, and monitoring, indexing, reporting, and analysis in Splunk.

Microsoft Azure 303

Intellipaat's Microsoft Azure training is an in-depth training on the Azure cloud platform that will help you master various aspects of the cloud architecture, its various layers, components, Azure Resource Manager, virtual network connectivity, Windows PowerShell, deploying the cloud infrastructure, security, etc.

Cloud Computing

Intellipaat's Cloud Computing essentials online training helps you learn the cloud fundamentals, cloud service life cycle, cloud solutions architecture, service transition and transformation, consumer perspective on setting up a cloud ecosystem, in-depth SaaS, IaaS, and PaaS, and more through hands-on projects and exercises.

Hadoop Administration

Hadoop Administration training by Intellipaat will help you master Hadoop Admin activities, such as planning, installation, monitoring, configuration, and performance tuning of large and complex Hadoop clusters. In this course, you will learn to implement security using Kerberos and Hadoop YARN features using real-life use cases.

Agile

In this Agile training course, you will be introduced to the Agile methodology and will learn all significant aspects of it, such as defining the Agile framework and the core Agile artifacts, refining the product backlog, estimating and prioritizing product backlog items, Agile responsibilities, and more.

Project Work

AWS

- Deploying a Multi-tier Website on AWS
- Deploying a Website for High Availability and High Resilience
- Sending Notifications to Patients Using Push Notifications
- Application to Sort Objects in an S3 Bucket Using Beanstalk and Lambda
- Case Study 1 - Using Different Operations on EC2 and EWS
- Case Study 2 - Autoscaling Compute Capacity in AWS
- Case Study 3 - Creating Custom VPCs in AWS
- Case Study 4 - Using AWS S3 for Lifecycle Access Management
- Case Study 5 - Highly Available Relational Database in AWS
- Case Study 6 - CloudFormation for Infrastructure-as-Code
- Case Study 7 - Administering User Access Using AWS IAM
- Case Study 8 - Application Services in AWS and Configuration Management

Microsoft Azure

- Project 1: Deploying a Website Using Microsoft Azure Services
- Project 2: Building a Dashboard to Monitor Your Company's Website Running on a Web App
- Case Study 01: Introduction to Cloud Computing
- Case Study 02: Microsoft Azure Storage
- Case Study 03: Azure Virtual Machines
- Case Study 04: Microsoft Azure Networking
- Case Study 05: Load Balancing and Network Watcher

- Case Study 06: Access Management in Azure

DevOps

- Creating a CI/CD Pipeline to Build and Test a Website
- Deploying an App on Kubernetes Using CI/CD Pipelines
- Merging Git Branches
- Implementing Git Workflow
- Creating Custom Containers in Docker
- Using Blind Mounts, Docker Compose, and Docker Swarm
- Using Puppet for Configuration Management
- Using Selenium to Create Automated Test Cases

Python

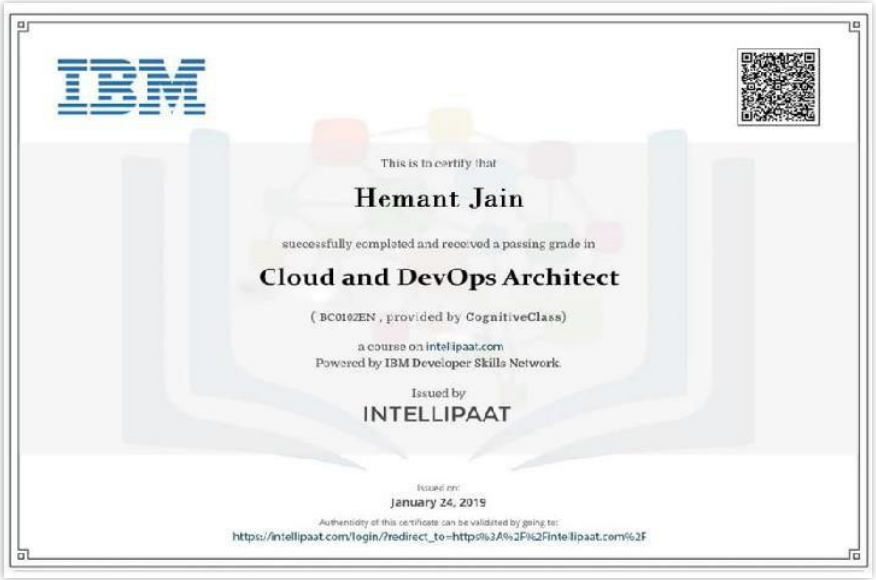
- Analyzing the Naming Pattern Using Python
- Performing Analysis on the Customer Churn Dataset
- Python Web Scraping for Data Science

Google Cloud

- Deploying a Multi-tier Website on Google Cloud Platform
- Deploying a Website for High Availability and High Resilience

Certification

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



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 Intellipaat 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.

Giri Karnal

I had taken up the Cloud Architect Certification master's program, which is a combo of so many individual courses. Since there are so many technologies involved in this program, getting your query resolved at the right time becomes the most important aspect. But with Intellipaat, there was no such problem as all my queries were resolved in less than 24 hours.

Sharath Reddy Yellapati

The course material was well organized. The trainer explained each module to me from the basics. All my queries were addressed very clearly. The trainer also made me realize how important this course is for beginners in the IT stream.

CONTACT US

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