



# Advanced Cloud Engineering Program



A Comprehensive Program Featuring 8 Specializations



UPSKILLMENT

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# INTRODUCTION



The Cloud Architect Mastery Program by Upskillment is designed to transform professionals into highly skilled cloud architects capable of designing, planning, and scaling cloud implementations for businesses. This comprehensive program combines in-depth training in **Python programming, Cloud Computing fundamentals, AWS Architectural Principles, Application Migration, and DevOps practices**. Participants will develop the expertise to create secure, scalable, and reliable cloud solutions tailored to meet modern business challenges. Whether it's mastering **AWS, Microsoft Azure, or Google Cloud Platform (GCP)**, this program equips you with the tools and knowledge to excel in a cloud-first world.

## Key Highlights:

- **Comprehensive Cloud Expertise:** Gain proficiency in three leading cloud platforms—AWS, Azure, and GCP.
- **Certification-Ready Curriculum:** Prepare for industry-recognized certifications, including the AWS Certified Solutions Architect - Associate (SAA-C03) and Azure-specific exams.
- **Real-World Projects:** Work on hands-on projects simulating real-world scenarios to enhance your practical skills.
- **Industry-Curated Content:** Stay ahead with the latest, most relevant syllabus, developed by cloud experts.
- **Access to Official AWS Content:** Learn directly from AWS-authored self-learning materials to ensure authentic and updated training.

This program empowers you to master cloud architectural principles, enabling you to design and deploy scalable, secure, and powerful cloud services that align with business goals. Whether you're looking to advance your career or transition into cloud architecture, the Cloud Architect Mastery Program is your gateway to success.

## Module 1: Fundamentals of Cloud Computing

This course provides a comprehensive introduction to the foundational concepts of cloud computing, ideal for beginners looking to understand the basics before diving into advanced cloud technologies.

### Topics Covered

- What is Cloud Computing and its importance.
- Key characteristics and advantages of cloud computing.
- Core technologies enabling cloud computing.
- Cloud deployment models: Public Cloud, Private Cloud, and Hybrid Cloud.
- Cloud service models: IaaS, PaaS, and SaaS.
- Understanding cloud service users and their roles.
- Virtualization in cloud computing.
- Real-world use cases of cloud adoption.

With engaging self-paced content, this course ensures a solid foundation, preparing you for advanced certifications and practical applications in the cloud domain.

Mode: Self Paced

Duration: 16 Hours

# AWS Solutions Architect Certification



This course is designed for beginners eager to explore cloud computing through Microsoft Azure, one of the most in-demand cloud platforms. It introduces you to the core principles of Azure architecture, its wide range of services, and key concepts like security, compliance, and governance. With real-world projects and hands-on exercises, you'll gain practical knowledge of Azure's functionality and its applications in modern business environments.

By the end of the course, you'll be equipped with foundational Azure skills, preparing you to handle cloud-based projects and achieve the Microsoft Certified: Azure Fundamentals certification, opening doors to advanced certifications and cloud-related career opportunities.

## Key Learning Points

Understand Azure architecture and its role in cloud computing.

- Learn security, compliance, and governance best practices.

- Manage subscriptions, resources, and costs effectively.

- Explore service models (IaaS, PaaS, SaaS) and basic networking in Azure.

## Hands-On Projects

- Deploy and host a scalable web application using Azure App Services.

- Set up secure and efficient data storage with Azure Blob Storage

- Mode: Live Instructor-Led Classes (Weekend and Weekday Batches)

Duration: 20 Hours

# Microsoft Azure Cloud Training



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## Hands-On Projects

- Deploy and host a scalable web application using Azure App Services.
- Set up secure and efficient data storage with Azure Blob Storage
- Live Instructor-Led Classes (Weekend and Weekday Batches)

Duration: 22 Hours

# Microsoft Azure Administrator Associate (AZ-104) :

- Duration: 20 Hours | Mode: Live Instructor-Led Classes (Weekend and Weekday Batches)
- Gain expertise in managing Azure resources, configuring and monitoring virtual networks, implementing identity and access management, securing workloads, and optimizing Azure services.
- Hands-on experience with Azure Virtual Machines, Azure Storage, and Azure Monitor.
- Ideal for IT professionals aspiring to become certified Azure Administrators or advance their cloud expertise.
- Duration: 18 Hours | Mode: Live Instructor-Led Classes (Weekend and Weekday Batches)

# Google Cloud Platform (GCP) Fundamentals :

- Learn GCP architecture, key services, and tools, including compute, storage, and networking services.
- Understand identity and access management, security features, and best practices for deploying scalable applications on GCP.
- Hands-on projects include deploying virtual machines, setting up cloud storage, and building cost-effective cloud solutions.
- Designed for beginners in cloud computing or professionals exploring GCP for advanced certifications
- Duration: 18 Hours | Mode: Live Instructor-Led Classes (Weekend and Weekday Batches)

# AWS Developer Associate Certification

This course is designed for application developers who want to gain expertise in building, deploying, and maintaining applications on AWS.

- Learn how to develop serverless applications using AWS Lambda.
- Build and manage APIs with AWS API Gateway.
- Set up a CI/CD pipeline using AWS CodePipeline.
- Gain hands-on experience with deploying RESTful APIs and automating application updates using Elastic Beanstalk.
- Ideal for developers looking to enhance their skills with AWS-specific tools and services.
- Duration: 20 Hours | Mode: Live Instructor-Led Classes (Weekend and Weekday Batches)
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# AWS SysOps Associate Certification

This course focuses on the operational aspects of managing systems on AWS, ideal for IT professionals in administrative roles.

- Learn how to monitor and troubleshoot applications and systems using AWS CloudWatch.
- Automate tasks with AWS CLI and SDKs.
- Implement cost optimization strategies to enhance resource efficiency.
- Hands-on projects include building disaster recovery systems and setting up AWS Budgets for cost management.
- Perfect for administrators aiming to deepen their operational knowledge of AWS and prepare for certification.
- Duration: 18 Hours | Mode: Live Instructor-Led Classes (Weekend and Weekday Batches)

# Advanced Cloud Engineering Program Outlook

## Flexible Learning Options:

Choose what fits your schedule! Attend classes on weekdays or weekends, and select from morning or evening sessions to accommodate your personal commitments.

**Class Rescheduling Flexibility:** Never miss a session! If you're unable to attend, you can easily switch to another batch that fits your availability.

## Dedicated Learning Manager:

Get personalized support from a Learning Manager who is fully committed to answering all your questions and guiding you throughout the course.

**Job Assistance:** Receive dedicated job assistance, including resume building, interview preparation, and job placement support to help you land your dream role in Advanced Cloud Engineering Program.

## Hands-On Projects and Real-World Simulations:

Gain practical experience with industry-relevant projects and simulations, ensuring you can apply your knowledge to real-world scenarios.

## Industry-Recognized Certification:

Earn a certification that is recognized by top organizations, validating your expertise and helping you stand out in the competitive job market.

# Cloud Engineer Career Outlook and Industry Growth

- The cloud computing industry is experiencing significant growth, with projections estimating up to 14 million career opportunities in the field by 2026. This rapid expansion is driven by the increasing adoption of cloud technologies across various industries. The global public cloud services market is expected to grow at a compound annual growth rate (CAGR) of 21.4%, potentially reaching USD 1386.14 billion by 2030.
- For professionals looking to enter the cloud space, roles such as Cloud Architect, Cloud Developer, AWS Solutions Architect, and DevOps Engineer are in high demand. Cloud Architects, in particular, earn an average salary of around \$143,890 annually, reflecting the value of expertise in this field. Key industries employing cloud professionals include Information Technology, Finance, Healthcare, E-commerce, and more, offering strong career prospects in cloud computing.

# LET'S CONNECT

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