

AWS SOLUTIONS ARCHITECT CERTIFICATION TRAINING



About IntelliPaat

Intellipaate is a global online professional training provider. We are offering some of the most updated, industry-designed certification training programs in the domains of Big Data, Data Science & AI, Business Intelligence, Cloud, Blockchain, Database, Programming, Testing, SAP and 150 more technologies.

We help professionals make the right career decisions, choose the trainers with over a decade of industry experience, provide extensive hands-on projects, rigorously evaluate learner progress and offer industry-recognized certifications. We also assist corporate clients to upskill their workforce and keep them in sync with the changing technology and digital landscape.

About The Course

Intellipaate is offering a comprehensive AWS certification training created by industry experts. The entire AWS training course is in line with the AWS Certified Solutions Architect exam. You will learn various aspects of AWS like 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 implement AWS best practices in this training.

 <p>Instructor Led Training</p> <p>36 Hrs of highly interactive instructor led training</p>	 <p>Self-Paced Training</p> <p>40 Hrs of Self-Paced sessions with Lifetime access</p>	 <p>Exercise and project work</p> <p>32 Hrs of real-time projects after every module</p>	 <p>Lifetime Access</p> <p>Lifetime access and free upgrade to latest version</p>
 <p>24x7 Support</p> <p>Lifetime 24*7 technical support and query resolution</p>	 <p>Get Certified</p> <p>Get global industry recognized certifications</p>	 <p>Job Assistance</p> <p>Job assistance through 80+ corporate tie-ups</p>	 <p>Flexi Scheduling</p> <p>Attend multiple batches for lifetime & stay updated.</p>

Why take this Course?

- ***AWS has over 1 million customers from 190 countries – Amazon.com***
- ***AWS is as big as its next four competitors combined – businessinsider.com***
- ***An AWS Certified Solutions Architect can earn \$125,000 – indeed.com***

Today, cloud computing is no longer optional but critical to the success of any of the biggest enterprises on earth. Hence, getting the AWS training and certification means that you can open the doors to virtually unlimited job opportunities that are offering highly competitive salaries. Intellipaate AWS course is completely oriented toward the practical applications, and hence it gives you a clear advantage.

Course Content

Instructor Led

1. [Introduction to Cloud Computing & AWS](#)
2. [Elastic Compute and Storage Volumes](#)
3. [Load Balancing, Autoscaling and DNS](#)
4. [Virtual Private Cloud](#)
5. [Storage - Simple Storage Service \(S3\)](#)
6. [Databases and In-Memory DataStores](#)
7. [Management and Application Services](#)

8. [Access Management and Monitoring Services](#)
9. [Automation and Configuration management](#)

Self-Paced Courses

1. [Architecting AWS – whitepaper](#)
2. [DevOps on AWS](#)
3. [AWS Migration](#)
4. [AWS Architect Interview Questions](#)

Introduction to Cloud Computing & AWS

What is Cloud Computing, Cloud Service & Deployment Models, how AWS is the leader in the cloud domain, various cloud computing products offered by AWS, introduction to AWS S3, EC2, VPC, EBS, ELB, AMI, starting off with AWS, getting a detailed understanding of the AWS architecture and the AWS Management Console, virtualization in AWS (Xen hypervisor), what is auto-scaling, AWS EC2 best practices and cost involved.

Hands-on Exercise – Setting up of AWS account, how to launch an EC2 instance, the process of hosting a website and launching a Linux Virtual Machine using an AWS EC2 instance.

Elastic Compute and Storage Volumes

Introduction to EC2, Regions & Availability Zones(AZs), Pre-EC2, EC2 instance types, introduction to AWS EC2, comparing Public IP and Elastic IP, demonstrating how to launch an AWS EC2 instance, introduction to AMIs, Creating and Copying an AMI, Introduction to EBS, EBS volume types, EBS Snapshots, Introduction to EFS, Instance tenancy, Reserved and Spot instances, Pricing and Design Patterns.

Hands-on Exercise – Launching an EC2 instance, creating an AMI of the launched instance, copying the AMI to another region, creating an EBS volume, attaching the EBS volume with an instance, taking backup of an EBS volume, creating an EFS volume and mounting the EFS volume to two instances.

Load Balancing, Autoscaling and DNS

Introduction to Elastic Load Balancer, types of ELB – Classic, Network and Application), load balancer architecture, cross-zone load balancing, introduction to Auto Scaling, vertical and horizontal scaling, the lifecycle of Auto Scaling, components of Auto Scaling, scaling options

and policy, instance termination, using load balancer with Auto Scaling, Pre-Route 53 – how DNS works, A Name record, CNAME, Alias and latency, routing policy, Route 53 terminologies, Pricing.

Hands-on Exercise – Creating a Classic ELB, creating an Application ELB, creating an auto-scaling group, configuring an auto-scaling group, integrating ELB with Auto Scaling, redirect traffic from domain name to ELB using Route 53.

Virtual Private Cloud

What is Amazon VPC, VPC as a networking layer for EC2, IP address and CIDR notations, components of VPC – network interfaces, route tables, internet gateway, NAT, security in VPC – security groups and NACL, types of VPC, what is a subnet, VPC peering with scenarios, VPC endpoints, VPC pricing and design patterns.

Hands-on Exercise – Creating a VPC and subnets, creating a 3 Tier architecture with security groups, NACL, Internet gateway and NAT gateway, creating a complete VPC architecture.

Storage - Simple Storage Service (S3)

Introduction to AWS storage, Pre-S3 – online cloud storage, API, S3 consistency models, storage hierarchy, buckets in S3, objects in S3, metadata and storage classes, object versioning, object lifecycle management, cross-region replication, data encryption, connecting using VPC endpoint, S3 pricing.

Hands-on Exercise – Creating an S3 bucket, uploading objects to the S3 bucket, enabling object versioning in the S3 bucket, setting up lifecycle management for only a few objects, setting up lifecycle management for all objects with the same tag, static website hosting using S3.

Databases and In-Memory DataStores

What is a database, types of databases, databases on AWS, introduction to Amazon RDS, multi-AZ deployments, features of RDS, read replicas in RDS, reserved DB instances, RDS pricing and design patterns, Introduction to Amazon Aurora, benefits of Aurora, Aurora pricing and design patterns, Introduction to DynamoDB, components of DynamoDB, DynamoDB pricing and design patterns, what is Amazon Redshift, advantages of Redshift, what is ElastiCache, why ElastiCache.

Hands-on Exercise – Launching a MySQL RDS instance, modifying an RDS instance, connecting to the DB instance from your machine, creating a multi-az deployment, create an Aurora DB cluster, creating an Aurora replica, creating a DynamoDB table.

Management and Application Services

Introduction to CloudFormation, CloudFormation components, CloudFormation templates, the concept of Infrastructure-as-a-code, functions and pseudo parameters, Introduction to Simple Notification Service, how does SNS work, Introduction to Simple Email Service, how does SES work, Introduction to Simple Queue Service, how does SQS work.

Hands-on Exercise – Creating a CloudFormation stack, launching a t2.micro EC2 instance using CloudFormation, using CloudFormation to automate an architectural deployment, creating an SNS topic, creating a subscription within the topic, setting up SES and sending a mail, creating an SQS queue and sending a sample message.

Access Management and Monitoring Services

Pre-IAM, why access management, Amazon Resource Name (ARN), IAM features, multi-factor authentication (MFA) in IAM, JSON, IAM policies, IAM permissions, IAM roles, identity federation, pricing, pre-CloudWatch, Introduction to CloudWatch, metrics and namespaces, CloudWatch architecture, dashboards in CW, CloudWatch alarms, CloudWatch logs, pricing and design patterns, Introduction to CloudTrail, tracking API usage.

Hands-on Exercise – Creating IAM users and a group, creating an IAM policy and attach it to the group, creating an IAM role, setup MFA for a user, creating a CloudWatch dashboard and add metrics, create a CloudWatch alarm which triggers according to CPU Utilization of an EC2 instance, creating a billing alarm, creating a log group, creating a trail.

Automation and Configuration management

What is AWS Lambda, how Lambda is different from EC2, benefits and limitations of Lambda, how does Lambda work, use cases of Lambda, Lambda concepts, integration S3 with Lambda, what is Elastic Beanstalk, how does Beanstalk work, Beanstalk concepts, Beanstalk pricing, what is configuration management, what is AWS OpsWorks, AWS OpsWorks benefits, CloudFormation vs OpsWorks, services in OpsWorks, AWS OpsWorks Stacks, OpsWorks pricing.

Hands-on Exercise – Creating a Lambda function, setting up Lambda triggers and destinations, creating an Elastic Beanstalk application, uploading a new version of the application to Beanstalk, creating a stack in OpsWorks, launching the instance using OpsWorks and automatically installing the application.

Following topics are available only in self-paced mode

Architecting AWS - whitepaper

- ❖ Important guidelines for creating a well architected AWS framework that is resilient and performant
- ❖ Designing of fault-tolerant and high-availability architecture
- ❖ Resilient storage
- ❖ Decoupling mechanism
- ❖ Multi-tier architecture solution
- ❖ Disaster recovery solution
- ❖ Scalable and elastic solutions.

DevOps on AWS

What is DevOps, introduction to AWS DevOps, AWS Developer tools – CodeCommit, CodeBuild, CodeDeploy and CodePipeline, integrating GitHub with CodePipeline, creating a DevOps lifecycle using AWS DevOps tools.

AWS Migration

What is Cloud migration, why migration is important, migration process in AWS, the 6 R's migration strategy, virtual machine migration, migrating a local vm onto the AWS cloud, migrating databases using Database Migration Service (DMS), migrating a local database to RDS, migrating an on-premises database server to RDS using DMS, other migration services.

AWS Architect Interview Questions

Guidance for clearing the exam, most probable interview questions and other helpful tips for clearing the exam and interview.

Project Works

Project 1 : Deploying a Multi-tier website using AWS EC2

Industry : Internet Related

Problem Statement : How to scale a website fast using AWS without the upfront cost

Topics : In this AWS project you will launch an EC2 instance without the need to invest in hardware up front, so you can develop and deploy applications faster. You can use Amazon EC2 to launch as many or as few virtual servers as you need, configure security and networking, and manage storage. Amazon EC2 enables you to scale up or down to handle changes in requirements or spikes in popularity, reducing your need to forecast traffic.

Highlights :

- ✓ Launch an EC2 Instance
- ✓ Enable Auto Scaling of EC2
- ✓ Create an RDS Instance
- ✓ Allow traffic from EC2 to RDS Instance

Project 2 : Website Orchestration**Industry :** Internet Related**Problem Statement :** How to orchestrate a website with lesser time and higher availability along with autoscaling.**Topics :** In this AWS project you will deploy a high-availability PHP application with an external Amazon RDS database to Elastic Beanstalk. Running a DB instance external to Elastic Beanstalk decouples the database from the lifecycle of your environment. This lets you connect to the same database from multiple environments, swap one database for another, or perform a blue/green deployment without affecting your database**Highlights :**

- ✓ Launch a DB instance in Amazon RDS
- ✓ Create an Elastic Beanstalk Environment
- ✓ Configure Security Groups and Scaling

Project 3 :- Publishing Amazon SNS messages privately**Industry –** Healthcare**Problem Statement :** How to secure patient records online and send it privately to the intended party**Topics :** In this project you will be working on a hospital project to send reports online and develop a platform so the patients can access the reports via mobile and push notifications. You will publish the report to an Amazon SNS which keeping it secure and private. Your message will be hosted on an EC2 instance within your Amazon VPC. By publishing the messages privately, you can improve the message delivery and receipt through Amazon SNS.**Highlights :**

- ✓ AWS CloudFormation to create a VPC
- ✓ Connect VPC with AWS SNS
- ✓ Publish message privately with SNS

Job Assistance Program

Intellipaat is offering job assistance to all the learners who have completed the training. You should get a minimum of 60% marks in the qualifying exam to avail job assistance. Intellipaat has exclusive tie-ups with over 80 MNCs for placements.



Successfully finish the training

Get your resume updated

Start receiving interview calls

Intellipaat Alumni Working in Top Companies



Vignesh Guntu 

AWS Architect at Mindfire Solutions

The video quality of the Intellipaat AWS training were of top-notch quality and came with extensive backing of experienced AWS trainers, and they offered wonderful support to resolve any queries at any time. I would recommend the Intellipaat AWS course to anybody looking to upgrade their career.



Hari Prasad 

Software Engineer at Accenture

Intellipaat support that came with the AWS training was really worth mentioning. I was awed when my every query got resolved in less than 24 hours. Hats off to Intellipaat AWS course.



Ramya Kanagasabapathy 

AWS Developer at Accenture

The trainers offered quality AWS training that was the most in-depth and comprehensive. I am especially glad to note that they came with extensive experience, knowledge and had the patience to make each one of us grasp even the tough concepts. The Intellipaat AWS certification training was completely in line with AWS exam.

[More Customer Reviews](#)

Our Clients



+80 Corporates

Frequently Asked Questions

Q 1. What is the criterion for availing the IntelliPaat job assistance program?

Ans. All IntelliPaat learners who have successfully completed the training post April 2017 are directly eligible for the IntelliPaat job assistance program.

Q 2. Which are the companies that I can get placed in?

Ans. We have exclusive tie-ups with MNCs like Ericsson, Cisco, Cognizant, Sony, Mu Sigma, Saint-Gobain, Standard Chartered, TCS, Genpact, Hexaware, and more. So you have the opportunity to get placed in these top global companies.

Q 3. Do I need to have prior industry experience for getting an interview call?

Ans. There is no need to have any prior industry experience for getting an interview call. In fact, the successful completion of the IntelliPaat certification training is equivalent to six months of industry experience. This is definitely an added advantage when you are attending an interview.

Q 4. If I don't get a job in the first attempt, can I get another chance?

Ans. Definitely, yes. Your resume will be in our database and we will circulate it to our MNC partners until you get a job. So there is no upper limit to the number of job interviews you can attend.

Q 5. Does IntelliPaat guarantee a job through its job assistance program?

Ans. IntelliPaat does not guarantee any job through the job assistance program. However, we will definitely offer you full assistance by circulating your resume among our affiliate partners.