

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. This AWS training will prepare you for AWS Certified Solutions Architect exam. You will learn skills like 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 learn the best practise to be followed while working on AWS projects in Industry.

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

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

- [Introduction to Cloud Computing & AWS](#)
- [Elastic Compute and Storage Volumes](#)
- [Load Balancing, Autoscaling and DNS](#)
- [Virtual Private Cloud](#)
- [Storage - Simple Storage Service \(S3\)](#)
- [Databases and In-Memory DataStores](#)
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- [Access Management and Monitoring Services](#)
- [Automation and Configuration management](#)
- [Amazon FSx and Global Accelerator](#)

Self-Paced Courses

- [Architecting AWS – whitepaper](#)
- [AWS Architect Questions](#)
- [DevOps on AWS](#)
- [AWS Migration](#)

Introduction to Cloud Computing & AWS

- ❖ 1.1 What is Cloud Computing
- ❖ 1.2 Cloud Service & Deployment Models
- ❖ 1.3 How AWS is the leader in the cloud domain
- ❖ 1.4 Various cloud computing products offered by AWS
- ❖ 1.5 Introduction to AWS S3, EC2, VPC, EBS, ELB, AMI
- ❖ 1.6 AWS architecture and the AWS Management Console, virtualization in AWS (Xen hypervisor)
- ❖ 1.7 What is auto-scaling
- ❖ 1.8 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

- ❖ 2.1 Introduction to EC2
- ❖ 2.2 Regions & Availability Zones(AZs)
- ❖ 2.3 Pre-EC2, EC2 instance types
- ❖ 2.4 Comparing Public IP and Elastic IP
- ❖ 2.5 Demonstrating how to launch an AWS EC2 instance
- ❖ 2.6 Introduction to AMIs, Creating and Copying an AMI
- ❖ 2.7 Introduction to EBS
- ❖ 2.8 EBS volume types
- ❖ 2.9 EBS Snapshots
- ❖ 2.10 Introduction to EFS

- ❖ 2.11 Instance tenancy- Reserved and Spot instances
- ❖ 2.12 Pricing and Design Patterns.

Hands-on Exercise –

- ❖ 1. Launching an EC2 instance
- ❖ 2. Creating an AMI of the launched instance
- ❖ 3. Copying the AMI to another region
- ❖ 4. Creating an EBS volume
- ❖ 5. Attaching the EBS volume with an instance
- ❖ 6. Taking backup of an EBS volume
- ❖ 7. Creating an EFS volume and mounting the EFS volume to two instances.

Load Balancing, Autoscaling and DNS

- ❖ 3.1 Introduction to Elastic Load Balancer
- ❖ 3.2 Types of ELB – Classic, Network and Application
- ❖ 3.3 Load balancer architecture
- ❖ 3.4 Cross-zone load balancing
- ❖ 3.5 Introduction to Auto Scaling, vertical and horizontal scaling, the lifecycle of Auto Scaling
- ❖ 3.6 Components of Auto Scaling, scaling options and policy, instance termination
- ❖ 3.7 Using load balancer with Auto Scaling
- ❖ 3.8 Pre-Route 53 – how DNS works
- ❖ 3.9 Routing policy, Route 53 terminologies, Pricing.

Hands-on Exercise –

- ❖ 1. Creating a Classic ELB
- ❖ 2. Creating an Application ELB

- ❖ 3. Creating an auto-scaling group
- ❖ 4. Configuring an auto-scaling group
- ❖ 5. Integrating ELB with Auto Scaling
- ❖ 6. Redirect traffic from domain name to ELB using Route 53. LI.

Virtual Private Cloud

- ❖ 4.1 What is Amazon VPC,
- ❖ 4.2 VPC as a networking layer for EC2,
- ❖ 4.3 IP address and CIDR notations,
- ❖ 4.4 Components of VPC – network interfaces, route tables, internet gateway, NAT,
- ❖ 4.5 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 –

- ❖ 1. Creating a VPC and subnets,
- ❖ 2. Creating a 3 Tier architecture with security groups,
- ❖ 3. NACL, Internet gateway and NAT gateway,
- ❖ 4. Creating a complete VPC architecture.

Storage - Simple Storage Service (S3)

- ❖ 5.1 Introduction to AWS storage
- ❖ 5.2 Pre-S3 – online cloud storage
- ❖ 5.3 API, S3 consistency models
- ❖ 5.4 Storage hierarchy, buckets in S3
- ❖ 5.5 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 –

- ❖ 1. Creating an S3 bucket
- ❖ 2. Uploading objects to the S3 bucket
- ❖ 3. Enabling object versioning in the S3 bucket
- ❖ 4. Setting up lifecycle management for only a few objects
- ❖ 5. Setting up lifecycle management for all objects with the same tag
- ❖ 6. Static website hosting using S3.

Databases and In-Memory DataStores

- ❖ 6.1 What is a database, types of databases, databases on AWS
- ❖ 6.2 Introduction to Amazon RDS
- ❖ 6.3 Multi-AZ deployments, features of RDS
- ❖ 6.4 Read replicas in RDS, reserved DB instances
- ❖ 6.5 RDS pricing and design patterns
- ❖ 6.6 Introduction to Amazon Aurora, benefits of Aurora, Aurora pricing and design patterns
- ❖ 6.7 Introduction to DynamoDB, components of DynamoDB, DynamoDB pricing and design patterns
- ❖ 6.8 What is Amazon Redshift, advantages of Redshift
- ❖ 6.9 What is ElastiCache, why ElastiCache.

Hands-on Exercise –

- ❖ 1. Launching a MySQL RDS instance
- ❖ 2. Modifying an RDS instance
- ❖ 3. Connecting to the DB instance from your machine
- ❖ 4. Creating a multi-az deployment
- ❖ 5. Create an Aurora DB cluster
- ❖ 6. Creating an Aurora replica
- ❖ 7. Creating a DynamoDB table.

Management and Application Services

- ❖ 7.1 Introduction to CloudFormation
- ❖ 7.2 CloudFormation components
- ❖ 7.3 CloudFormation templates
- ❖ 7.4 The concept of Infrastructure-as-a-code
- ❖ 7.5 Functions and pseudo parameters
- ❖ 7.6 Introduction to Simple Notification Service, how does SNS work
- ❖ 7.7 Introduction to Simple Email Service, how does SES work
- ❖ 7.8 Introduction to Simple Queue Service, how does SQS work.

Hands-on Exercise –

- ❖ 1. Creating a CloudFormation stack
- ❖ 2. Launching a t2.micro
- ❖ 3. EC2 instance using CloudFormation
- ❖ 4. Using CloudFormation to automate an architectural deployment
- ❖ 5. Creating an SNS topic, creating a subscription within the topic

- ❖ 6. Setting up SES and sending a mail
- ❖ 7. Creating an SQS queue and sending a sample message.

Access Management and Monitoring Services

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

Hands-on Exercise –

- ❖ 1. Creating IAM users and a group
- ❖ 2. creating an IAM policy and attach it to the group
- ❖ 3. creating an IAM role
- ❖ 4. Setup MFA for a user
- ❖ 5. Creating a CloudWatch dashboard and add metrics
- ❖ 6. Create a CloudWatch alarm which triggers according to CPU Utilization of an EC2 instance
- ❖ 7. Creating a billing alarm
- ❖ 8. Creating a log group
- ❖ 9. Creating a trail.

Automation and Configuration management

- ❖ 9.1 What is AWS Lambda
- ❖ 9.2 How Lambda is different from EC2
- ❖ 9.3 Benefits and limitations of Lambda
- ❖ 9.4 How does Lambda work
- ❖ 9.5 Use cases of Lambda, Lambda concepts
- ❖ 9.6 Integration S3 with Lambda
- ❖ 9.7 What is Elastic Beanstalk, how does Beanstalk work, Beanstalk concepts, Beanstalk pricing
- ❖ 9.8 What is configuration management
- ❖ 9.9 What is AWS OpsWorks, AWS OpsWorks benefits
- ❖ 9.10 CloudFormation vs OpsWorks, services in OpsWorks, AWS OpsWorks Stacks, OpsWorks pricing.

Hands-on Exercise –

- ❖ 1. Creating a Lambda function
- ❖ 2. Setting up Lambda triggers and destinations
- ❖ 3. Creating an Elastic Beanstalk application
- ❖ 4. Uploading a new version of the application to Beanstalk
- ❖ 5. Creating a stack in OpsWorks
- ❖ 6. Launching the instance using OpsWorks and automatically installing the application.

Amazon FSx and Global Accelerator

- ❖ 10.1 What is FSx
- ❖ 10.2 Types of FSx, FSx for Windows server
- ❖ 10.3 How does FSx for Windows File Server work, FSx for Lustre
- ❖ 10.4 Use cases of FSx
- ❖ 10.5 Automatic failover process
- ❖ 10.6 Supported clients and access methods
- ❖ 10.7 What is a Global Accelerator, How Global Accelerator works, Listeners and Endpoints
- ❖ 10.8 What are AWS Organizations, Features of AWS Organizations, Managing multiple accounts
- ❖ 10.9 What are ENIs, ENAs and EFAs, Working with network interfaces
- ❖ 10.10 Enhanced Networking with ENA, EFA with MPI, Monitoring an EFA

Hands-on Exercise:

- ❖ 1. Creating a shared FSx file system between two windows instances
- ❖ 2. Accessing one instance with multiple Elastic IPS using ENI
- ❖ 3. Using Global Accelerator to map instances from 2 regions into one domain name
- ❖ 4. Enabling Enhanced Networking on an Ubuntu instance

Following topics are available only in self-paced mode

Architecting AWS - whitepaper

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

AWS Architect Questions

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

DevOps on AWS

- ❖ 12.1 What is DevOps,
- ❖ 12.2 Introduction to AWS DevOps,
- ❖ 12.3 AWS Developer tools – CodeCommit, CodeBuild, CodeDeploy and CodePipeline, integrating GitHub with CodePipeline,
- ❖ 12.4 Creating a DevOps lifecycle using AWS DevOps tools.

AWS Migration

- ❖ 13.1 What is Cloud migration
- ❖ 13.2 Why migration is important
- ❖ 13.3 Migration process in AWS, the 6 R's migration strategy
- ❖ 13.4 Virtual machine migration, migrating a local vm onto the AWS cloud
- ❖ 13.5 Migrating databases using Database Migration Service (DMS)
- ❖ 13.6 Migrating a local database to RDS
- ❖ 13.7 Migrating an on-premises database server to RDS using DMS, other migration services..

Project Works

Project 1 : Deploying a Multi-Tier Website on AWS

Topics : Using various AWS services such as EC2, ELB, Auto Scaling, VPC, etc. to create a highly available and reliable architecture to host a PHP website. Furthermore, use SNS for sending mails of all your websites operations on AWS and deploy the application in a private subnet & use ELB to expose it. Prevent the website from crashing by dynamically scaling your servers.

Project 2 : Deploying a Website for High Availability and High Resilience

Topics : An architecture which should be designed to be highly available. Based on the applications workload, the architecture should automatically scale its servers up and down. To balance the load across all these servers, using a ELB is must and also the architecture should be decoupled to connect an RDS database with an Elastic Beanstalk environment.

Project 3 : Sending Notifications to patients using push notifications

Topics : Design an architecture to send notifications to patients based on their doctors' feedback. Using SNS for sending messages will increase the reliability and resilience. Integrate EC2 with the SNS topic for message storing and by using Public and Private subnets we will have to secure the EC2 instances.

Assignment : Application to sort objects in an S3 bucket using Beanstalk and Lambda

Topics : Uploading an application which could upload objects to an S3 bucket to Elastic Beanstalk. Set up your Lambda functions trigger as Object creation in the S3 bucket to which the Beanstalk application uploads the objects to. Add your Lambda code which will segregate the uploaded objects into separate buckets according to the extension (e.g., .png, .pdf, etc).

AWS - Case Studies

Case Study 1 - Using Different Operations on EC2 and EWS

Topics : The case study is to replicate or copy EC2 instances to varied regions depending upon the High Availability. Furthermore, the main strategy is to extend the size of EBS volumes without losing the data. The major highlights of this case study are to scale and mount the EBS volumes to different EC2 instances one at a time..

Case Study 2 - Autoscaling Compute Capacity in AWS

Topics : The major aim of this case study is to Autoscale (scaling up and down automatically) and Load Balance among multiple EC2 instances within AWS based on varied/defined metrics for Autoscaling instances. Also, the case study deals with and routing custom domains to AWS resources.

Case Study 3 - Creating custom VPCs in AWS

Topics : In this case study, the candidate will create a custom VPC in AWS with the help of multiple subnets having both private as well as public access. The route tables are also configured to subnets using the Internet Gateway and NAT Gateway.

Case Study 4 - Using AWS S3 for Lifecycle Access Management

Topics : The case study deals with moving artifacts from on-premise to S3 in the most cost-efficient manner. Furthermore, it deals with the creation of Lifecycle rules for events in S3 objects, hosting a static website, and experimenting with the usage of route 53..

Case Study 5 - Highly available Relational Database in AWS

Topics : This case study is all about creating a highly available and scalable AWS Database Service in AWS using RDS. The process involves creating Database Architecture, collecting data for real-time analysis, and relocating the latency issues.

Case Study 6 - CloudFormation for Infrastructure as a Cloud

Topics : The case study involves provisioning and deploying AWS Resources using AWS CloudFormation. Within the process, the candidate has to define rules for deletion using IaC and also minimize the deployment time.

Case Study 7 - Administering user access using AWS IAM

Topics : In this case study, the candidate will create users in IAM for defining granular access that differs with each user. Alongside he/she will also define custom policies that add users to groups.

Case Study 8 - Application Services in AWS and Configuration Management

Topics : The main aim of this case study is to use application services in AWS Lambda for deploying code and also conduct configuration management using OpsWork. Alongside, WebApp is also deployed to Elastic Beanstalk.

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.