

# AI/OPS & MULTI-CLOUD ENGINEERING

# ABOUT US

CloudAge Global Services Private Limited is a growing technology training provider, CGS Pvt Ltd is offering comprehensive corporate training programs in Leading Cloud Data Centres Providers like AWS, CDP, GCP, SnowFlake, Azure & Oracle etc.

Founded in the year 2013, the company is dedicated to providing high-quality and hands-on training to help individuals and businesses stay ahead of the curve in the rapidly evolving technology landscape.

With a team of experienced and certified trainers, CloudAge Global Services provides a wide range of training programs, including AWS certification training, Cloudera certification training, and other cloud-based technologies. The training programs are designed to equip participants with the skills and knowledge needed to excel in their respective fields and gain a competitive edge in the job market.

CloudAge Global Services has a unique way of providing a highly personalized and interactive learning experience to ensure that participants achieve their learning objectives. Our training programs are delivered through a variety of mediums, including instructor-led classroom sessions, online classes, and self-paced e-learning modules.

In summary, CloudAge Global Services Private Limited is a Corporate Technology Training provider, committed to delivering world-class training programs on Data Management Systems helping individuals and businesses to stay ahead in the competitive tech industry.

# Key Factors

Salary Ranges  
From

**5 - 65 LPA**

Online & InClass  
Live Sessions

**50+ Live  
Sessions**

Online & InClass  
Lab Sessions

**150+ Lab  
Sessions**

Course Duration

**6 Months**

# CURRICULUM

## Module

## Topics Covered

### Course Intro

- **Webinar**
- **Followed by Q&A Sessions**
- **Continued Session On 360° IT**
- **Seven Services That Is Proven To Succeed**

### Personality Improvement

- **Email Etiquettes & Office Culture**
  - These topics can be summarized as the respectful and professional behaviour expected in written communication and the overall environment of a workplace.
- **English Colloquial, Professional Vocabulary, Remote Communication**
  - These topics refer to the informal, specialized language used in everyday conversations, formal and industry-specific terms used in professional settings, and the methods of communication utilized in remote work environments, respectively.
- **Psychometric Test &/or DMIT**
  - Getting a grasp of individual personality traits and psychological thinking

## Module

### Essentials for IT

## Topics Covered

- **Linux For DataCenter**
  - Understanding the basics of the Mainframe operating system & its application
- **Hardware for Datacenter**
  - Understanding of evolution of hardware in a Data Center and modern data center architectures
- **Networking for Datacenter**
  - Understanding the evolution of networking and various hardware and software developments in modern networks
- **AWS Account and Putty Connection**
  - Introduction to AWS and Putty
- **Understanding DataCenter & Cloud**
  - Understanding DataCenter & Cloud is essential for professionals and organizations looking to leverage the power and scalability of cloud computing while efficiently managing their datacenter infrastructure. By delving into these concepts, individuals can make informed decisions regarding infrastructure design, resource allocation, security measures, and the integration of datacenters with cloud services.
- **Amazon Virtual Private Cloud (VPC)**
  - Builds your own Private Cloud
- **Evolution of Open Source**
  - Advanced understanding of Open Source and its evolution, and what are the various grade of softwares/services

## Module

## Topics Covered

### Essentials for IT

- **Amazon EC2**
  - Exploring the Scalable compute capacity in the Cloud
- **Amazon Load Balancer/Auto Scaling Groups**
  - Solution to the distribution of Load and Traffic over resources
- **Amazon IAM**
  - Service that involves authentication and authorization

### Data Architect: Basics

- **Single Node Cluster V1**
  - Understanding of Hadoop V1 environment, and its various components of a Single Node Cluster
- **Multi Node Cluster V1**
  - Understanding of Hadoop V1 environment, and its various components of a Multi Node Cluster
- **Fully Distributed Cluster V2 & Kernel Tuning (Prerequisites)**
  - Advanced understanding of Hadoop v2 and its components with deployment of nodes
- **S3, S3 Select & AWS CLI, Glacier**
  - Storage solution by Amazon Web Services that can ingest data of all types
- **RDS & Aurora**
  - Relational database service that provides high-performance, scalable, and highly available database solutions compatible with MySQL and PostgreSQL
  - Database Management Service that dives you deep into the storage solution

## Module

## Topics Covered

### Data Architect: Basics

- **Eco-System of ETL & ELT V2**
  - Understanding of various open source tools for implementation purpose
- **Project: Connect with S3, Query with Amazon Athena & Visualise with Amazon QuickSight**
  - A visualization of loading of data from S3 in Athena and running query for results and visualisation

### Data Architect: Advanced

- **AWS Lake Formation**
  - Provides of building, securing, and managing data lakes
- **Kafka Basics**
  - Ingestion of streaming data using tool like kafka basics
- **Kafka Advanced**
  - Ingestion of streaming data using tool like kafka (advanced)
- **Amazon MSK**
  - Streaming and Real-time data processing
- **Amazon CI/CD Pipeline**
  - Continuous integration and delivery service that helps you automate your software release process, allowing you to build, test, and deploy your code changes more quickly and reliably on AWS
- **MultiNode Cluster on Hadoop V3**
  - Understanding the concept of high availability using Hadoop V3
- **CDP Deployment**
  - CDP deployment involves deploying the Cloudera Data Platform for data management, analytics, and machine learning in a secure environment

## Module

### Data Architect: Advanced

## Topics Covered

- **Cloudera High Availability**
  - High Availability in CDP is the ability to ensure continuous availability and prevent data loss in the event of hardware or software failures
- **Admin Task on CM (GUI), CLI**
  - Understanding managing clusters, users, and services, configuring security, backup and recovery, and monitoring
- **Apache Spark & Ranger**
  - Deep understanding of data processing tools with security basics
- **Amazon Redshift (Managed & Server-less)**
  - Data Warehousing Solution
- **Project: Amazon RedShift with Thoughtspot & Tableau**
  - Integration of Amazon Redshift, ThoughtSpot, and Tableau to create a comprehensive data analytics and visualisation solution.
- **Insecurities in CDP**
  - Deep understanding of cybersecurity vulnerabilities, data breaches, unauthorised access, malware and viruses.
- **Authentication Mechanisms on CDP**
  - Understanding of how we onboarding of application as well as human user
- **Authorization Techniques on CDP**
  - Understanding of giving a granular levels of privileges



## Module

## Topics Covered

### Data Architect: Advanced

- **Data at Rest Encryption using Ranger KMS**
  - Advanced understanding of Data at Rest Encryption using Ranger KMS involves an in-depth comprehension of the concepts and implementation of encryption mechanisms for securing data at rest within the Cloudera Data Platform (CDP).
- **Data in Motion Encryption using TLS/SSL on CDP**
  - Deep understanding of Data in Motion Encryption using TLS/SSL on CDP involves comprehending the principles and mechanisms behind secure transmission of data within the Cloudera Data Platform.
- **Amazon KMS**
  - Key Management Service that involves customer and vendor
- **Amazon Certificate Manager**
  - Provision, Manage, and Deploy Secure Sockets Layer/Transport Layer Security (SSL/TLS) certificates for use with AWS services and their internal resources

### Data Architect: Expert

- **Amazon Keyspaces with (NoSQL)**
  - NoSQL database service that supports Apache Cassandra workloads on AWS
- **Amazon DynamoDB with (NoSQL)**
  - Advanced understanding of Amazon DynamoDB involves a comprehensive knowledge of the fully managed NoSQL database service provided by AWS
- **Amazon CloudTrail**
  - Service that involves the Encryption

## Module

## Topics Covered

Data  
Architect:  
Expert

- **Kubernetes: Open Source**
  - Kubernetes Open Source refers to the freely available and community-driven version of the Kubernetes container orchestration platform, allowing users to access, contribute to, and modify its source code.
- **Project: Raw data to visualization Kafka - Flink - DB (Redshift, DynamoDB) - Tableau or ThoughtSpot**
  - The project involves processing raw data using Kafka and Flink, storing it in databases like Redshift or DynamoDB, and visualizing the data using Tableau or ThoughtSpot.
- **Project: Complete Deployment with Cloud Formation**
  - Developers and System administrators with a way to create and manage a collection of related AWS resources, provisioning and updating them in an orderly and predictable fashion

Real Time  
Day To Day  
Activities

- **ITIL**
  - Advanced understanding of IT rules and regulations
- **AWS Well Architected**
  - Discussion on various pillars of AWS well architected framework
- **Day to Day Activities**
  - Understanding various day to day tasks of different roles in an organization

## Module

### Insights From Esteemed MNC Delegates

## Topics Covered

- **Ingestion of streaming data using tool like kafka (basics)**
  - Prepare and Transform data for Analytics; Cleaning and Transforming data without writing code.
- **Amazon SQS**
  - Fully Managed Message Queueing for Microservice Distributed Systems
- **Amazon SNS**
  - Service that integrates with the Pub/Sub service for A2P and A2A
- **Amazon Data Pipeline**
  - Way to move and process data between different AWS compute and storage services, as well as on-premises data sources
- **Amazon CloudWatch & EFS**
  - Monitoring and Observability service with EFS
- **Amazon Managed Grafana**
  - Monitoring Service that helps developers to store, query, and analyze metrics from applications running on AWS infrastructure
- **Apache Hive Concepts & Troubleshooting**
  - Deep understanding of hive troubleshooting, checking logs, metadata, query optimisation
- **GCP Fundamentals**
  - GCP Fundamentals refers to the introductory-level knowledge and understanding of the core concepts, services, and functionalities offered by Google Cloud Platform (GCP).

## Module

### Insights From Esteemed MNC Delegates

## Topics Covered

- **Databricks with Spark**
  - Databricks is a unified data analytics platform that simplifies big data processing and machine learning tasks.
- **Amazon Lambda**
  - Run code without provisioning or managing servers, making it easy to build and scale applications
- **Apache Nagios**
  - Apache Nagios is an open-source monitoring and alerting tool that helps in monitoring and managing the infrastructure and services of an IT environment.
- **Project Management & Project Guidelines**
  - Project Management involves planning, organizing, and controlling resources to achieve specific goals, while Project Guidelines provide a framework or set of instructions to ensure consistency and efficiency in project execution

# KEY TRAINER PROFILES

**You Will Be Trained By Industry Experts,  
Take A Sneak Peak Into The Trainer Profiles.**

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- **Founder of Open Human Resource Community (OHRC)**
- **Co-founder & Director of Cloudage Global Services Pvt Ltd**
- **Chief Technology Officer & IT Consultant**

- **Solutions & Data Architect**
- **CDP & AWS Certified Lead Trainers.**
- **AWS Administrator & Real Time Cloud Projects Expert.**

- **Senior Program Manager & ITIL Expert**
- **PMP Certified.**
- **Expert Site Reliability Consultant, for Multi-Cloud.**

- **Google Certified GCP Expert**
- **CKA Certified Kubernetes Expert.**

# LEARNING HOURS

<b>Total Course Duration</b>	6 Months*
<b>Live Online or InClass Session (Faculty-Led)</b>	104 Hrs*
<b>Live Online or InClass Labs (Faculty-Led)</b>	288 Hrs*
<b>Self-Work</b>	288 Hrs*

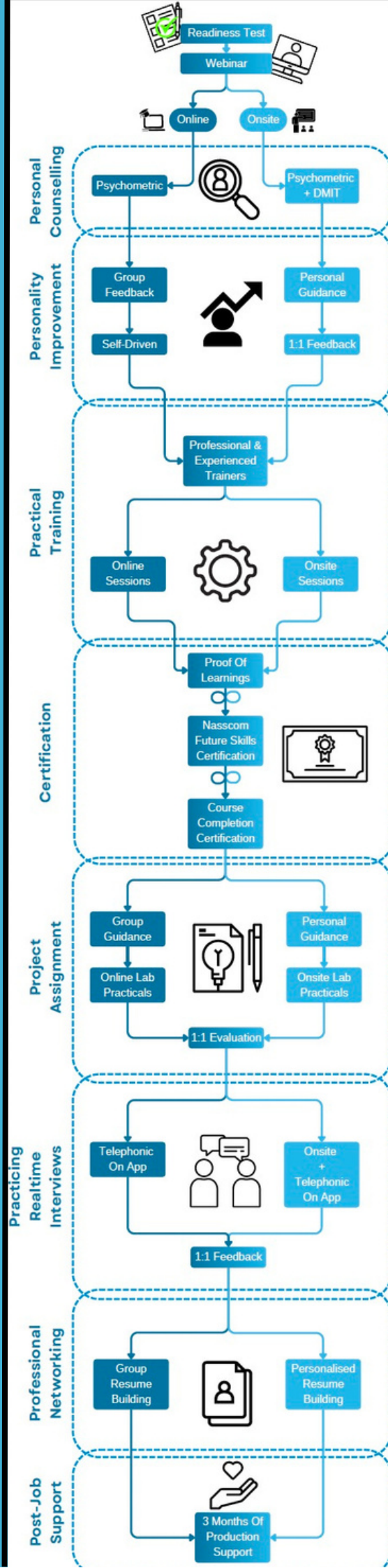
**TOTAL WEEKLY EFFORT 25-30 Hrs\***

**TOTAL DAILY EFFORT 4 Hrs\***

**TOTAL EFFORT 680 Hrs\***

\* May Vary

# YOUR



# Journey

# CERTIFICATIONS

On successful completion of the program, you will be eligible for the certificate(s).\*





# OUR PARTNERS

**nasscom**

CERTIFIED MEMBER



Google Cloud  
Partner



partner  
network

**CLOUDERA**

Partner Network



Microsoft Azure

PARTNER NETWORK

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