

PSK TECHNOLOGIES PVT. LTD.

Web Development & Internship ,Sales & Services

Office Address: Lower Ground Fortune Mall, behind Maharashtra
bank, Sitabuldi, Nagpur

www.psktechnologies.co.in

Contact No.9975288300 / 9970141466

AWS Classes in Nagpur

Module-1: AWS Account Basics of Cloud Computing – 3 HRS

- What is cloud computing?
- Introduction to AWS
- Global Infrastructure of AWS
- AWS Services Walkthrough-HighLevel
- AWS Benchmarks
- AWS Account Creation
- Management Console Walkthrough
- Basic Account Management Setting
- Introduction to Billing Dashboard & Cost Explorer
- Setting up Billing Alarm & Budget

Module 2 – AWS-IAM Basics of Authentication & Authorisations – 3 HRS

Introduction to Identity & Access Management
Components of IAM
Creating and Managing Users & Groups
Creating and Managing IAM Policies
Roles and its use cases
Multi-Factor Authentication – [MFA]
Security Features in IAM
Best Practices of IAM

Module 3 – AWS-CLI Intorduction to AWS CLI – 2 HRS

Setting-Up AWS CLI on local machine
Creating Users and groups using AWS CLI
Creating & Managing Policy using AWS CLI
Creating and Managing IAM Roles using AWS CLI
AWS CLI Command Syntex walkthrough

Module 4 – AWS-S3 Basics of Storage System – 05 HRS

Storage Services provided by AWS
Difference Between Object storage and Block Storage
Introduction to Simple Storage Service – S3
Use Case & Benefits of using S3
Components of S3
Important Properties of S3 bucket
Enabling and Managing Versioning on S3 bucket
Managing Logging on S3 Bucket
Creating Life-Cycle Management Rule S3
Hosting a static-website in S3
Cross-Region replication in S3
Transfer Accelerator in S3
MFA and Pre-signed URL in S3
Security feature of S3-Encryption, Bucket Policy, Permission etc.
Snowball – Types & Use Cases
Managing S3 components using CLI Commands

Module-5 – AWS-EC2 Basics of Virtual Servers – 04 HRS

Components of a Virtual Server
Introduction to Elastic Cloud Compute – EC2
Use cases and important features of EC2
Introduction to AMI – Its Uses
Introduction to Instance and its types
Security Groups – Creation & Management
Key Pair – Why & How
Launching & Connecting to Window Instance
Launching & Connecting to Linux Instance
Setting up a web server on linux Instance – Hosting a website
Elastic IP Address
Placement Group

Module-6 – AWS-EFS Introduction to File System Storage 02 HRS

- Understanding Use Cases
- Introduction to Elastic File System – EFS
- Configuration of EFS
- Creating and using EFS with Multiple EC2 Instances
- Troubleshooting in EFS

Module-6 –AWS-LB Introduction to Load Balancer 01 HRS

- Types of Load Balancer in AWS
- Use Cases of Load balancers
- Important Components of Load Balancer
- How Health-Check Works for Load Balancer
- Configuration of a load balancer and its management
- Pricing – Load balancer
- Limitations and Best Practice of Using Load Balancer

Module-7 –AWS-AS Introduction to AutoScaling 03 HRS

- Use Cases of Autoscaling
- Important Components of AutoScaling
- Configuration of Autoscaling
- Launch Configuration and LB Group
- Pricing
- Limitation and Best Practice of AutoScaling

Module-8 –AWS-VPC Basics of Networking 05 HRS HRS

- IP Address and CIDR Block
- Concept of Virtual Cloud – Private
- Introduction to Virtual Private Cloud -VPC
- Subnet and Route Tables
- Internet Gateway and NAT
- Creating and managing a NAT Instance
- Network Interface – NI
- Access Control List – ACL
- VPC Peering
- Endpoints
- VPN and CGW

Module-9 –AWS-Route53 Introduction to DNS 02 HRS

- Introduction to Route53
- How Route53 Works
- Domain Registration in Route53
- Health Checks in Route53
- Routing Policies in Route53
- Creating and Managing different Routing Policies
- Records Sets supported by Route53
- Alarms and Notifications in Route53
- Limitations & Best Practices in Route53
- Pricing – Route53

Module-10 –AWS-CloudWatch Introduction to CloudWatch 01 HRS

- Important Components of CloudWatch
- Creating and Managing metrics in CloudWatch
- Creating and managing Events in CloudWatch
- Creating and Managing Dashboards in Cloudwatch
- Creating and managing Alarms in CloudWatch
- Logs and Log agent in Cloudwatch
- Pricing in CloudWatch
- Limitations and Best Practices – CloudWatch

Module-11 –AWS-CFN Introduction to CloudFormation-CFN 01 HRS

- Important Components of CFN
- Templates and its components
- Creating and Managing stack
- Creating template using template designer
- Launching WordPress site using CFN template
- Designing Simple template to launch EC2 Instance
- Pricing in CFN
- Advance uses of CFN
- Limitations and Best Practice of CFN

Module-12 –AWS-LAMBDA Introduction to Lambda 02 HRS

- Important Components of Lambda
- Creating simple function in Lambda
- Creating and Managing triggers in Lambda
- Sample Code run using Lambda
- Limitations & Best Practice of Lambda

Module-13 –AWS-RDS Introduction to Database – Its Components 02 HRS 01 HR

- Database Services provided by AWS
- Introduction to RDS
- Components of RDS
- DB engines provided by RDS
- Snapshots and Back-up in RDS
- Read Replicas in RDS
- Creating and connecting to a RDS database
- RDS Security Groups
- Pricing in RDS
- Limitations and Best Practice – RDS

Module-14 –AWS-DynamoDB Introduction to NoSQL Database 01 HRS 1/2 HRS

- Difference between SQL and NoSQL
- Components of DynamoDB
- AutoScaling in DynamoDB
- DynamoDB Streams
- Indexing in DynamoDB
- Data Distribution in DynamoDB
- Backup and Monitoring in DynamoDB
- Creating Table and loading data into DynamoDB
- Pricing in DynamoDB
- Best Practices – DynamoDB

Module-15 –AWS-RedShift Introduction to Data Warehouse 02 HRS 01 HRS

- Difference Between OLTP and OLAP
- Components of Redshift
- Important Features of Redshift
- Architecture of Redshift
- Creating and Managing a cluster in RedShift
- Connecting to RedShift Cluster using SQL workbench
- Creating table and loading data into RedShift
- Back-up and monitoring in RedShift
- Data Security in RedShift
- Pricing in RedShift
- Best Practices – RedShift

Module-16 –AWS-Kinesis Introduction to Kinesis 01 HRS 1/2 HRS

- Types of Data Streaming in Kinesis
- Kinesis Firehose and its Architecture
- Kinesis Analytics and its Architecture
- Building a sample application to stream real-time data
- Pricing in Kinesis
- Best Practice in Kinesis

Module-17 –AWS-Elastic Cache Introduction to In-Memory Cache 01 HRS

- Important Components of Elastic Cache
- Types of Engine available in Elastic Cache
- Difference Between Redis and MemCache
- Benefits of Elastic Cache
- Use Cases of Elastic Cache
- Pricing for Elastic cache
- Best Practice – Elastic Cache

Module-18 –AWS-SQS Introduction to Simple Queuing Service 1/2 HRS

- How SQS Works – Architectural Walkthrough
- Important Components of SQS
- Pricing in SQS
- Best Practice – SQS

Module-19 –AWS-SNS Introduction to Simple Notification Service – SNS 1/2 HRS 1/2 HRS

- How SNS Works ?
- Important Components of SNS

- Creating and Managing Topics in SNS
- Adding Subscriber in SNS
- Managing SNS Policy
- Pricing in SNS

Module-20–AWS-SWS Introduction to Simple Workflow Service 01 HRS

- Components of SWS
- How SWS Works – Use case Discussion
- Benefits of using SWS
- Limitations and Best Practice – SWS
- Pricing in SWS

Module-21–AWS-EB Introduction to Elastic Beanstalk 01 HRS

- Important Concepts in EB
- Managing Environments in EB
- Managing Applications in EB
- EB Platforms
- Getting started with EB
- Pricing in EB

Module-22–AWS-API Gateway Introduction to API Gateway 1/2 HRS

- How API Gateway Works
- Why Should we use API Gateway
- Pricing in API Gateway
- Use Case Discussion

Module-23–AWS-EMR Introduction to EMR 01 HRS 1/2 HRS

- How EMR Works?
- How can You use EMR?
- Why Should we use EMR?
- Use Case Discussion
- Pricing in EMR

Module-24–AWS-CodeDeploy Introduction to CodeDeploy 01 HRS

- How CodeDeploy Works?
- Benefits of Using CodeDeploy
- Pricing in CodeDeploy
- Use Case Discussion

Module-25–AWS-WorkSpace Introduction to WorkSpace 01 HR

- Benefits of using Workspace
- Pricing in Workspace
- Use Case Discussion- WorkSpace
- Launching a private Workspace