

AWS COURSE CONTENT

• COURSE MODULES

1	linux Command line	5 session
2	Cloud Fundamentals	3 session
3	AWS Certified Solutions Architect - Associate	40 session
4	Python Programming	10 Sessions
5	Job Readiness Program	4 Session

• LINUX Command Line Module – Course Content

- Unix and Linux
- Unix System Architecture
- Unix Philosophy
- What is Linux?
- Using a Linux System
- Linux Command Line
- Logging Out
- Command Syntax
- Files
- Creating Files with cat
- Displaying Files' Contents with cat
- Deleting Files with rm
- Unix Command Feedback
- Copying and Renaming Files with cp and mv
- Filename Completion
- Command History
- Lab Exercises



AWS COURSE CONTENT

• Getting Started

- Files and Directories
- Examples of Absolute Paths
- Current Directory
- Making and Deleting Directories
- Relative Paths
- Special Dot Directories
- Using Dot Directories in Paths
- Hidden Files
- Paths to Home Directories
- Looking for Files in the System
- Running Programs
- Specifying Multiple Files
- Finding Documentation for Programs
- Specifying Files with Wildcards
- Chaining Programs Together
- Graphical and Text Interfaces
- Text Editors
- Lab Exercises

• Work Effectively on the Unix Command Line

- Shells
- The Bash Shell
- Shell Commands
- Command-Line Argument Syntax of Command-Line Options
- Examples of Command-Line Options
- Setting Shell Variables
- Environment Variables
- Where Programs are Found
- Bash Configuration Variables
- Using History
- Reusing History Items
- Retrieving Arguments from the History
- Summary of Bash Editing Keys
- Combining Commands on One Line
- Repeating Commands with for
- Command Substitution
- Finding Files More Flexibly: find
- Find Criteria
- Find Actions: Executing Programs
- Lab Exercises

AWS COURSE CONTENT

Perform Basic File Management File System Objects

- Directory and File Names
- File extensions
- Going Back to Previous Directories
- Filename completion
- Wildcard Patterns
- Copying files with cp
- Examples of cp
- Moving Files with mv
- Deleting Files with rm
- Deleting files with Peculiar Names
- making Directories with mkdir
- Removing Directories with rmdir
- Identifying Types of Files
- Changing Timestamps with touch
- Exercise

• . Search Text Files Using Regular Expressions

- Searching Files with grep
- Pattern Matching
- Matching Repeated Patterns
- Matching Alternative Patterns
- Extended Regular Expression Syntax
- Exercises

• Manage File Ownership

- Basic Concepts: Permissions on Files
- Basic Concepts: Permissions on Directories
- Basic Concepts: Permissions for Different Groups of People
- Examining Permissions:ls -l.

• . Use File Permissions to Control Access to Files

- Basic Concepts: Permissions on Files
- Basic Concepts: Permissions on Directories
- Basic Concepts: Permissions for Different Groups of People
- Examining Permissions:ls -l.
- Preserving Permissions When Copying Files



AWS COURSE CONTENT

• . Use File Permissions to Control Access to Files

- How Permissions are Applied
- Changing File and Directory Permissions:chmod.
- Specifying Permissions for chmod.
- Exercises CI

• Cloud Orientation Module – Course Content

Introduction to Cloud

- Operating Systems
- Virtualization
- Cloud - Realtime Use Case discussions
- Cloud Companies

• Application Delivery

- Code
- Build
- Test
- Deploy
- Environments

• AWS Certified Solutions Architect Associate Module Course Content

AWS Overview

- Fundamentals of Cloud
- Fundamentals of Virtualization
- Cloud Service Offerings
- Cloud Deployment Models
- History of AWS
- Overview of AWS Products and Services
- Free Tier Account
- AWS Global Infrastructure
- AWS Terminologies



AWS COURSE CONTENT

• Identity And Access Management(IAM)

- Accounts and Services layer
- IAM Overview
- IAM (Users, Groups, Policies, Roles & Best Practices)
- IAM - Hands On

• Elastic Cloud Compute(EC2)

- EC2 Overview
- Amazon EC2 Overview
- Amazon Machine Images (AMI)
- EC2 Instance Types
- EC2 Purchase Options
- User data & Metadata
- Amazon Elastic Block Store (EBS)
- EBS Snapshots
- Placements Groups
- EFS
- EC2 Best Practices
- EC2 - Hands On

• Fault Tolerance

- Introduction To Fault Tolerance
- Launch Configuration
- Auto Scaling Group
- Hands On

• High Availability

- High Availability VPC Design
- Introduction to Load Balancing
- Generic Load Balancer - NGINX
- Classic Load Balancer
- Network Load Balancer
- Application Load Balancer
- Hands On



AWS COURSE CONTENT

• . Simple Storage Service (S3)

- Amazon S3 Overview
- S3 Buckets
- Version Control
- Amazon S3 Lifecycle Management
- Cloudfront and Con
- Security and Encryption
- Import/Export & Snowball
- Amazon S3 Best Practices
- Hands On

• Databases

- Databases Overview
- Relational Database Service (RDS)
- DynamoDB
- Redshift
- Amazon ElastiCache
- Databases Best Practices
- Hands On

• Network Layer

- Networking Layer
- Traditional Network Components
- Amazon VPC Overview
- VPC Features
- Default VPC vs Custom VPC
- VPC Routing Basics
- Gateways
- Subnets
- Route Tables
- NACL'S
- Security Groups
- VPC Best Practices
- Hands On

• Advanced VPC Concepts

- VPC Peering
- Bastion Hosts
- Nat Gateway
- VPC Peering
- Bastion Hosts
- Nat Gateway

Title	Duration	Prerequisite	Qualification
Aws	60 Hrs	Basic computer knowledge	Any Graduate / Under graduate



AWS COURSE CONTENT

• Route 53

- Amazon Route 53 Overview
- Amazon Route 53 & DNS
- Amazon Route 53 Routing Policies
- Amazon Route 53 Best Practices
- Amazon Route 53 Costs & Prices
- Practice Assignment: Amazon Route 53 Hosted Zone
- Hands On with Route 53

• Monitoring Services

- Simple Notification Service (SNS)
- Simple Queue Service (SQS)
- Simple Workflow Service (SWF)
- Monitoring - Cloudwatch
- Auditing - Cloudtrail
- Hands On

• Python Programming Module – Course Content

- What is Python?
- Python - Overview
- Features of Python
- Applications of Python
- Differences between Python 2 & 3
- Environment Setup
- Basic Syntax
- Variable Types
- Basic Operators
- Decision Making
- Loops
- Numbers
- Strings
- Lists
- Tuples
- Dictionary
- Date & Time
- Functions
- Modules

• Capstone projects

- Deploying a fully-fledged mobile application on AWS.
- Building and deploying real-time applications on AWS.

• Job Readiness Program

- Resume building.
- Guidance on building a portfolio.
- Job application guidance.
- Effective communication skills.
- SWOT Analysis.
- Effective non-verbal communications.

