



## Amazon Web Services Training Program

This course is recommended  
For IT Graduates specialising  
in:

- Networking
- System Administration
- Telecommunications
- Cloud Computing
- DevOp Engineering



[www.appskill.com.au](http://www.appskill.com.au)  
[appskill@studyandwork.com.au](mailto:appskill@studyandwork.com.au)

Melbourne Location: Elizabeth Street, Melbourne VIC 3000  
Sydney Location: Quay Street, Sydney NSW 2000  
T: 1300 79 80 69, 02 9264 2504

# Amazon Web Services Training Program

## About the Program:

- Master Enterprise Cloud Solutions Designing and Development with AWS
- Enhance your skills on Migrating Multi-Level Applications to the AWS Cloud
- Learn how to Scale Applications Adaptable to Internal Failures and High Accessibility
- Gain Expertise in Designing Resilient and Scalable applications using AWS
- Crack the AWS Certified Solutions Architect – Associate Level and Professional Level Exams with Ease.

## About the Instructor:

Our instructors are industry practitioners not academics, who have the latest technical skills, at least 3 years of relevant industry experience and are passionate about technology and training future talent.

## Career Path:

- AWS Solution Architect
- AWS Networking Specialist
- AWS SysOps Administrator
- Cloud System Integrator Cloud DevOps Engineer
- Operational Support Engineer

## Skill Level:

Beginner to Intermediate

## Program Duration:

Lecture: 30 hours, Assignment: 15 hours, Internship: 270 hours

## Program Delivery:

2 weeks of classroom training followed by 12 weeks of in-company internship (optional)

## Program Fee:

\$750 Online Training OR  
\$1,500 Inclassroom

## Internship Fee:

\$1,750

## Timetable Option 1:

Monday to Friday, 10am to 1pm

## Timetable Option 2:

Monday to Friday, 6pm to 9pm (Online only)

## Internship Timetable:

Monday to Friday, 9am to 5pm (3 to 5 days)

## Intake Dates:

Fortnightly

## Melbourne Location:

Elizabeth Street, Melbourne VIC 3000

## Sydney Location:

Quay Street, Sydney NSW 2000

## Online:

ZOOM

# COURSE SYLLABUS

## Module 1: Linux Fundamentals

- Overview of all basic commands
- Vim editor modes
- Filesystem hierarchy – Basic topics
- File and directories creation
- Grep
- Filter commands (head,tail,more,less)
- Creating users and groups
- Important files related
- Modifying,deleting users and group
- Linux permissions
- Basic permissions overview
- Software management
- Yellowdog update modifier(yum)
- Yum commands
- Different runlevels
- Services and daemons

## Module 2: Why Cloud?

- Why Cloud and What is Cloud Computing?
- Identify the features and benefits of cloud computing
- Different types of Cloud Computing deployment model
- Public Cloud, Private Cloud, Hybrid Cloud
- Virtualization – An essential in cloud
- Virtualization in Cloud model
- Different types of virtualization
- Hypervisor – Benefits
- Different types of services and its difference in Cloud computing
- IaaS, PaaS, SaaS
- Importance of scaling in cloud computing
- Different types of scaling and its applications
- Issues we overcome using cloud and applications
- Cost model that we use in cloud computing

## Module 3: AWS – An overview

- Describe the features of AWS
- The features of AWS marketplace
- Describe the features of Amazon Compute Services
- Describe the features of Amazon Storage Services
- Describe the features of Amazon Network Services
- Describe the features of Amazon Database services
- Describe about various services in AWS
- Global Infrastructure – Regions and Availability Zones
- Create a free tier account in AWS and onboarding
- Introduction AWS management console

## Module 4: Understand Identity Access Management of AWS

- Protect your AWS by different authentication system
- Password policies set for users
- AWS User Account and Groups in detail
- Creating custom policies in AWS
- Introduction about Roles and its use
- Creating Roles and associating policies
- Creating programmatic access and management console access for users
- Associating policies to the user and groups

## Module 5: EC2 Instance

- Describe AMI and AWS Marketplace templates
- Launch a basic EC2 instance
- Different types of Instances Reserved, On-demand, Spot, Dedicated
- Security groups and tags for EC2 instance
- Public key – Private key introduction and protecting EC2 with keys

- Attaching and detaching EBS volumes
- Launch an ec2 instance from an AMI
- Create custom AMI and working with different region
- Make use of amazon EBS volume and create snapshots
- Manage the configuration of your application
- Deploying a new instance from the created AMI

#### **Module 6: Auto-scaling**

- Get Started with Auto Scaling Using the Console
- Creating Launch configurations and make use of it for autoscaling groups
- Maintain a Fixed Number of Running EC2 Instances
- Dynamic Scaling
- The lifecycle of autoscaling
- Policies of autoscaling

#### **Module 7: Load Balancing**

- Introduction to Loadbalancer (ELB)
- Different types of Loadbalancer in AWS
- Application Load balancer
- Network Load balancer
- Classic Load balancer
- Migrating classic load balancer to new load balancer
- Components and types of load balancing

#### **Module 8: EBS (Elastic Block Storage)**

- Create EBS volumes
- Delete EBS Volumes
- Attach and detach EBS volumes with EC2 instance
- Creating and deleting snapshots

#### **Module 9: Object Storage in Cloud**

- Understanding S3 durability and redundancy
- Introduction about S3 Buckets
- How S3 Uploading works and how to Download
- How to S3 Permissions
- How to implement S3 Object Versioning S3 Lifecycle Policies
- Storage Gateway
- Import Export
- S3 Transfer Acceleration
- Glacier storage

#### **Module 10: Cloud Front**

- Describing cloud front
- Creating a cloud front distribution
- Hosting a website of cloud front distribution
- Implementing global restrictions
- Configuring origins and behaviors

#### **Module 11: Route53**

- Describe Hosted zones and Domain name understanding
- How to create hosted zones
- Hosting a website with custom domain name
- Understanding routing policies

#### **Module 12: AWS Security Management**

- Describing Security Practices for Cloud Deployment
- AWS Shared Responsibilities and Securities
- Importance of Cloud Trail
- Describing Trust advisor

#### **Module 13: Amazon Virtual Private Cloud (VPC)**

- Introduction to Amazon Virtual Private Cloud (VPC).
- VPC Advantages and understanding IP addressing CIDR
- Default and Non-default VPC
- Different Components in VPC

- Describe, create, and manage Amazon Virtual Private Cloud
- Amazon VPC, Private Subnet, and Public Subnet
- AWS Networking, Security Groups, and Network ACLs
- Configuration and management of VPN connectivity
- Subnet and Subnet Mask

#### Module 14: Relational Database Service (RDS)

- Introduction to RDS
- Different database services of AWS: Amazon RDS, Dynamo DB, Redshift etc.
- Create MYSQL RDS Instance, Oracle RDS Instance, MS SQL RDS Instance
- Configuring the database
- Configuring backups
- Configuring the maintenance windows
- Connecting to the database

#### Module 15: NDynamo DB

- Adding data manually
- Learn about strong and eventual consistency
- Calculating Read write consistency
- Configuring alarms

#### Module 16: Monitoring Services

- Knowledge on Cloud watch – A monitoring service
- Create and Configuring Monitoring services
- How to perform Setting thresholds and Configuring actions
- Creating a cloud watch alarm
- Getting statistics for ec2 instances
- Monitoring other AWS services
- Configuring Notifications
- Integrating cloud watch with Autoscaling

#### Module 17: Application Services – An Overview

- What is SNS
- Creating a topic
- Create subscription
- Subscribed to the subscription
- SQS & SES
- Lambda and Elastic Beanstalk

#### Module 18: AWS Troubleshooting

- Troubleshooting EC2 instance
- Troubleshooting using Cloud watch
- Troubleshooting using ELB
- Troubleshooting by using Cloud front

#### Module 19: AWS Architecture and Design

- Backup and Disaster Recovery
- How to manage Disaster Recovery and Backups
- Best Practice for DR and Backups
- AWS High Availability Design

#### Module 20: DevOps Fundamentals

- An understanding of DevOps and the modern DevOps toolsets
- The ability to automate all aspects of a modern code delivery and deployment pipeline using:
  - Source code management tools – CVS, Git
  - Build tools – Apache ant, Maven
  - Test automation tools – JUnit
  - Continuous Integration Tools – Jenkins, Team city
  - Configuration management tools – Chef, Puppet, Ansible

## Why learn from Appskill?

- Our training programs offer what no other university degree or education program can: real industry experience.
- You will attend live training in classroom or online via Zoom delivered by industry professionals, not academics.
- Our trainers bring in-depth experience from the field to the classroom each day, providing invaluable insights into succeeding on the job.
- We limit our class sizes at 10 students so you can ask all the questions you want.
- We organise internships in reputable host companies who are looking to hire staff so you get a chance to practice and improve your skills while getting assessed for employment.
- We try our best to convince host companies to make a job offer, thus most internships lead to employment.
- We provide Satisfaction Guarantee, which means if you are not completely satisfied with the quality of training delivered by our trainer or the work experience provided by host company, we will offer a replacement training program and internship at no extra cost.

## What training programs are on offer?

- Amazon Web Services
- Microsoft Azure
- Agile Scrum Master
- Data Analytics with Python and Tableau
- Full Stack Web Development
- Android Application Development
- Salesforce Administration
- Digital Marketing

## Why get trained now?

- Many organisations are migrating their IT infrastructure and databases into cloud.
- Many traditional shop-front businesses are going online for e-commerce.
- Most organisations are using data analysis and business intelligence to make impactful business decisions.
- Millions of IT jobs are available worldwide in spite of a global recession.
- Earn above \$100,000 pa after a few years of industry experience.

## Join a Free Demo Lesson for an hour

Join a free demo lesson to assess the quality of our training programs and trainers.

**Register now by sending your resume to: [appskill@studyandwork.com.au](mailto:appskill@studyandwork.com.au).**

**Call us on 1300 79 80 69 to speak to a Course Advisor.**