INTRODUCTION | DATABASE ADMINISTRATION | NETWORK | APP ADMINISTRATION | STORAGE ADMINISTRATION | SECURITY ADMINISTRATION | MONITORING AND NOTIFICATION

QUOTATION AND COURSE OUTLINE

AWS TECHNICAL ESSENTIAL ASSOCIATES COURSE

Operations Learning Path

AWS Certified SysOps Administrator - Associate

= certification   = intermediate
= foundational   = advanced

AWS Technical Essentials → Systems Operations on AWS → Exam Readiness: SysOps Administrator - Associate → AWS Certified SysOps Administrator - Associate

Optional:
AWS Certified Cloud Practitioner

Add on free digital training at **aws.training**

Course Materials

TechPledge will provide a customized set of Lecture Notes for each class scheduled along with Recorded video. You will be given a PDF file which you may make copies from, email to your participants, or make available via internal website.

Learning Path for AWS Operation Engineer

In this introductory course, you will learn about AWS products, services, and common solutions. You will learn the fundamentals of identifying AWS services so that you can make informed decisions about IT solutions based on your business requirements. At the TechPledge we provide the training which is always updated in line with the AWS Operation Engineer Skills required by the industry and recommended by Amazon. Below is the path for training?

Evolve your Implementation Skills

- *AWS architecture and service guarantees*
- *Manage services with AWS console*
- *Security, responsibility and trust in AWS*
- *Apply and monitor infrastructure standards with AWS Policy.*
- *Control and organize AWS resources with Resource Tag*

Manage Resources in AWS

- *Align requirements with cloud types and service models in AWS*
- *Control AWS services with the CLI*
- *Automate AWS tasks*
- *Predict costs and optimize spending for AWS*
- *Control and organize AWS resources with Resource Tag*

Administrating the AWS Services

- *Pillars of a great AWS Administration*
- *Manage for security in AWS*
- *Manage performance and scalability in AWS*
- *Effectively monitor the resources security, cost and performance*
- *Manage availability and recoverability in AWS*
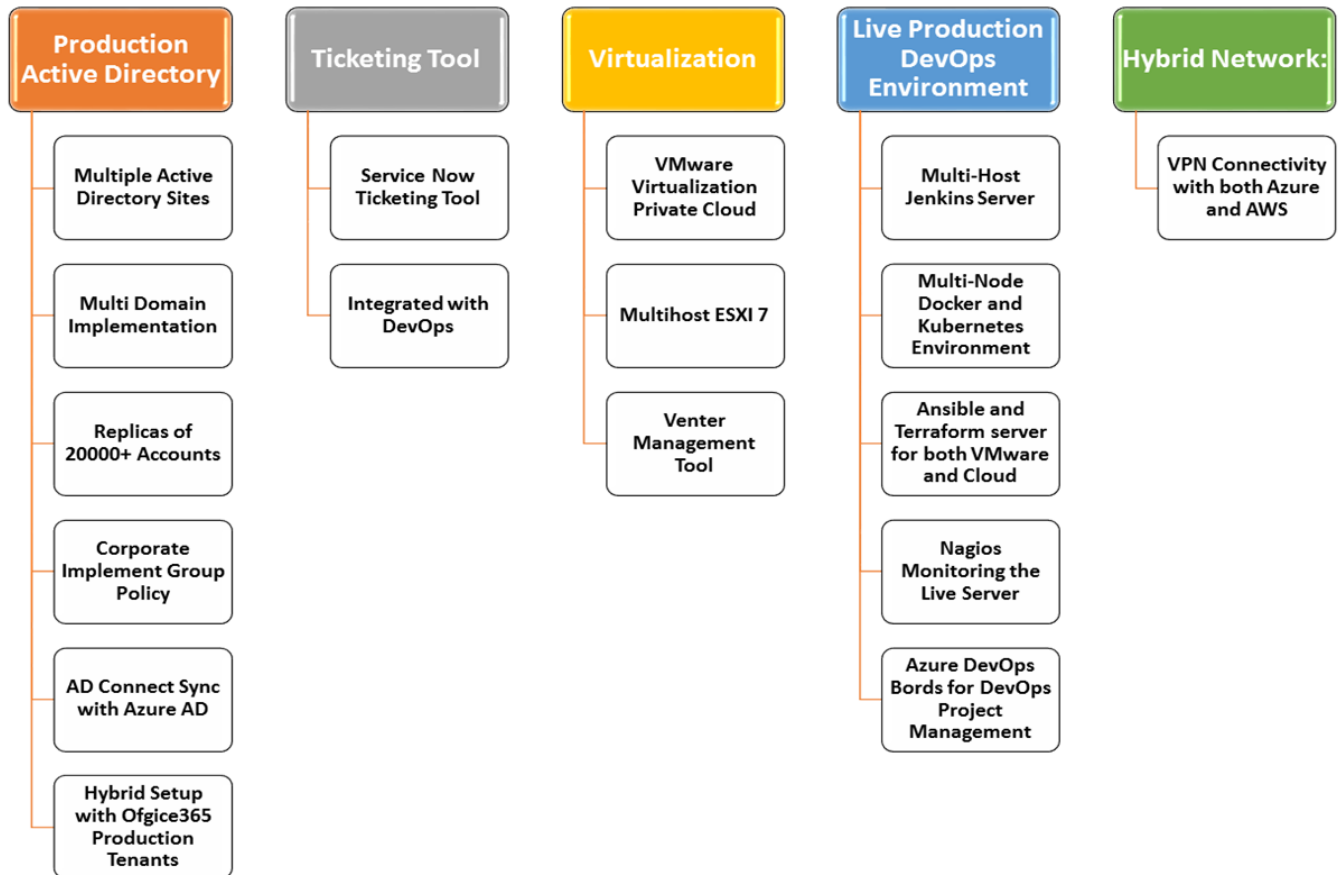
Abilities Validated by the Certification

- Terminology and concepts related to the AWS platform
- How to navigate the AWS Management Console
- Key concepts of AWS security measures and AWS Identity and Access Management (IAM)

Customer Immersion – Live Production Walkthrough

6 Hours Live walkthrough the complete Infrastructure Integration and Migration Process in production environment with full setup of Infrastructure Like **AD, Microsoft SQL , Microsoft Exchange, File Server , ADFS and** DevOps Tool Like **Jenkins , Ansible , Docker , AWS Code Deploy , AWS Code Pipeline , AWS Code Deploy** and **AWS CLI** and Development Environment with Maven, Visual Studio and Python.

The Complete Setups is using **100** of **PowerShell** & **Linux Script** with **237 CI/CD scripts** (J**ason, Yamal**).

Below is the High-Level Setup Outline of our Customer Immersion Production Replicas. Student will get the access of this setup at end of the course for 6 hours with AD ID and Organization Email.

Production Active Directory

- Multiple Active Directory Sites
- Multi Domain Implementation
- Replicas of 20000+ Accounts
- Corporate Implement Group Policy
- AD Connect Sync with Azure AD
- Hybrid Setup with Ofgice365 Production Tenants

Ticketing Tool

- Service Now Ticketing Tool
- Integrated with DevOps

Virtualization

- VMware Virtualization Private Cloud
- Multihost ESXI 7
- Venter Management Tool

Live Production DevOps Environment

- Multi-Host Jenkins Server
- Multi-Node Docker and Kubernetes Environment
- Ansible and Terraform server for both VMware and Cloud
- Nagios Monitoring the Live Server
- Azure DevOps Bords for DevOps Project Management

Hybrid Network:

- VPN Connectivity with both Azure and AWS

Learn while doing with our Sandbox Environment

Azure Sandbox

- Connect with Azure Portal through the TechPledge Provide sandbox environment and play with it will all labs which you want to try.
- Create, destroy, and build Practical, scenario-based applications with ease. Our pre-configured, auto-provisioned servers allow you to try new skills, risk-free.

AWS Sandbox

- Connect with AWS Console through the TechPledge Provide sandbox environment and play with it will all labs which you want to try.
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Course Outline

Introduction to Cloud Computing

- Understanding Cloud Computing
- Benefit and Feature of Cloud Computing
- Explain on Platform as a Service (PaaS), SaaS, IaaS
- Cloud Trends
- Public and Private Cloud
- Principles of Parallel and Distributed Computing
- Depth explain on Virtualization
- Architecture of Cloud Computing
- Major Player on Cloud Infrastructure

Understanding Core AWS Service

- Introduction to Amazon Web Services
- AWS Global Infrastructure
- Multi-Factor Authentication
- Creating our first IAM user
- Launching First EC2 Instance
- Introduction to Block & Object Storage Mechanism
- Introduction to Elastic Block Store
- Auto Scaling
- Introduction to S3
- S3 Storage Classes
- S3 Lifecycle Policies
- Introduction to Relational Databases
- Understanding RDS
- Understanding NoSQL Databases
- Understanding CloudWatch
- Understanding Route53
- Introduction to Content Delivery Networks
- Understanding Edge Locations
- Deploying CloudFront Distribution
- S3 Transfer Acceleration
- Infrastructure as Code
- Understanding CloudFormation
- Amazon Recognition
- Overview of AWS Elastic Beanstalk
- **Lab:** Launch a Linux VM and Install Apache Web Server
- **Lab:** Launch a Windows VM and Install Web Server
- **Lab:** Create an S3 Bucket and access using S3 Explorer
- **Lab:** Create an S3 Glacier and access using Fast Glacier

Billing and Support Services

- AWS Well-Architected Framework
- AWS Pricing Model
- AWS Support Plans
- The TCO calculator
- AWS Whitepapers & Documentations
- **Lab:** Create a Budge for Spending

AWS Security

- Understanding Shared Responsibility Model
- Understanding principle of least privilege
- Identity & Access Management
- AWS CLI
- IAM Role
- Compliance
- AWS Trusted Advisor
- Understanding AWS Inspector
- AWS Direct Connect
- **Lab:** Create a Use & Group and assign Roles to Access S3 Storage
  Lab: Create Storage and VM using AWS CLI

AWS Exam Preparation

- Overview of Cloud Practitioner Exam
- Important Pointers
- Important Whitepapers
- Mock Test

Course Fee

Call for Price