

### SAP on AWS - Fundamentals

OEM: SAP • Code: AD620



#### COURSE DESCRIPTION

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#### AUDIENCE PROFILE

- This course provides fundamentals for SAP NetWeaver and SAP HANA on AWS. Attendees will learn in detail how to implement the basic infrastructure components such as virtual networks, virtual machines, storage, etc. for installing and administering SAP Net

#### PREREQUISITES

##### Essential

- Basic knowledge of SAP NetWeaver and SAP HANA taught in courses ADM100 and HA200 .

##### Recommended

- Basic knowledge of Linux Systems and IP Networks.

#### COURSE OBJECTIVES

**By the end of this course, participants will be able to:**

- This seminar provides fundamentals for SAP NetWeaver and SAP HANA on AWS.
- Participants will learn in detail how to implement the basic infrastructure components such as virtual networks, virtual machines, storage, etc. for the installation and administration of SAP NetWeaver and SAP HANA Systems on AWS Cloud.
- SAP Best Practices will be performed in individual lab environments, introducing the capabilities and limitations of SAP on AWS.

#### COURSE OUTLINE

##### Module 1: SAP Fundamentals

- SAP 2-Tier vs 3-Tier Architecture
- SAP NetWeaver Architecture NW7.X

- SAP HANA Architecture

## Module 2: AWS Fundamentals

- AWS Services
- AWS Infrastructure
- Shared Responsibility Model
- Well-Architected Framework and SAP Lens
- Naming conventions, Tags and Resource Groups
- SAP on AWS introduction

## Module 3: Account Security

- Principals and identities
- Security policies
- Managing multiple accounts

## Module 4: Networking

- VPC Fundamentals
- VPCs and subnets in an SAP Environment
- VPC Traffic Security
- SAProuter
- SAP on AWS access pattern
- AWS Network firewall
- VPC Endpoints
- VPC Peering
- Hybrid networking
- Transit Gateway
- Transit Gateway Network Manager
- VPC Reachability Analyzer
- VPC Network Access Analyzer

## Module 5: Compute

- Elastic Compute Cloud (EC2) instances
- Amazon Machine Images (AMIs)
- EC2 Instance types for SAP
- Service Quotas
- Elastic interface types
- Tenancy and Placement Groups
- EC2 features
- EC2 pricing options
- Connect to EC2 instances
- AWS Lambda

## Module 6: Storage

- Storage Services overview
- Amazon Elastic Block Store (Amazon EBS)
- Shared File Systems
- Simple Storage Service (S3)
- Storage for SAP workloads

## Module 7: Monitoring and Alerting

- Simple Notification Service (SNS)
- Monitoring
- Monitoring strategy for SAP Workloads
- Amazon CloudWatch Application Insights
- Amazon CloudWatch Logs
- AWS CloudTrail
- VPC Flow Logs
- Alarms and events
- Health Monitoring
- EC2 Auto recovery

## Module 8: Backup and Recovery

- Recovery strategies
- Backup Strategies and tools
- AWS Backup Agent for SAP HANA
- SAP HANA Backup Agent for Amazon S3
- AWS Backup

## Module 9: Migrations

- Migration basics
- Data migration tools
- Planning the migration
- SAP Migration to AWS
- Migration within AWS

## Module 10: Cost Management

- AWS Cost Management
- SAP on AWS Pricing