

CLOUD AND AWS TECHNICAL ESSENTIALS PLUS

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Description

Cloud and AWS Technical Essentials Plus course is designed for technical enthusiasts who are working in IT (system, network admins or Application maintenance engineers and other interested individual who want to learn cloud computing) and looking for a comprehensive training which covers vendor neutral cloud basics and advanced cloud computing with Amazon web services.

Course Objectives

There are 2 main areas of this course.

- Cloud computing essentials (What is cloud computing and how it can help an individual and organizations?)
- Amazon web services technical essentials and advanced topics in AWS (AWS architecting)

Cloud computing essentials:

- This course is designed to teach

Pre-Cloud and Need for Cloud:

- Review Traditional IT techniques
- Understand what changed in Datacentres since 80's
- What is Virtualization and how it solved some of the issues
- Summary of outstanding challenges with traditional IT

Cloud Computing and in-depth discussion

- What is cloud computing
- Go through cloud definition from NIST
- 5 Essential Cloud Characteristics
- Cloud Service models (SaaS, PaaS, IaaS)
- Cloud Deployment Models
- Enterprise Cloud Solutions

Amazon web services technical essentials Plus

- This course is designed to teach you how to:
- Recognize terminology and concepts as they relate to the AWS platform
- Navigate and secure the AWS Management Console
- Understand the security measures AWS provides
- Differentiate AWS Storage options and create an Amazon Simple Storage Service (S3) bucket
- Recognize AWS Compute and Networking options and use Amazon Elastic Compute Cloud (EC2) and Amazon Elastic Block Storage (EBS)
- Describe Managed Services and Database options
- Use Amazon Relational Database Service (RDS) to launch an application
- Identify Deployment and Management options

Intended Audience

- Any individual who is new to cloud computing and Amazon web services
- SysOps Administrators and Developers who are interested in using AWS services

Delivery Method

- This course will be delivered through a mix of:
- Instructor-Led Training
- Hands-on Labs
- Knowledge Checks

Duration

4 to 5 days

Course Outline

Note: course outline may vary slightly based on the group of audiences and their priorities

Module 1: Pre-Cloud and Need for Cloud:

- Review Traditional IT techniques
- Understand what changed in Datacentres since 80's
- What is Virtualization and how it solved some of the issues
- Summary of outstanding challenges with traditional IT

Module 2: Cloud Computing and in-depth discussion

- What is cloud computing
- Go through cloud definition from NIST
- 5 Essential Cloud Characteristics
- Cloud Service models (Saas, PaaS, IaaS)
- Cloud Deployment Models
- Enterprise Cloud Solutions

Module 3: Introduction & History to AWS

- Navigate the AWS Management Console
- Recognize AWS Global Infrastructure
- Describe the security measures AWS provides

Module 4: AWS Storage & Content Delivery

- Identify key AWS storage options
- Describe Amazon EBS
- Create an Amazon S3 bucket and manage associated objects

Module 5: Compute Services & Networking

- Identify the different AWS compute and networking options
- Describe an Amazon Virtual Private Cloud (VPC)
- Create an Amazon EC2 instance
- Verify how to use Amazon EBS

Module 6: AWS Managed Services & Database

- Describe Amazon DynamoDB
- Verify key aspects of Amazon RDS
- AWS RDS available options and key points to remember

Module 7: Deployment and Management

- Identify AWS CloudFormation
- Describe Amazon CloudWatch metrics and alarms
- Describe Amazon Identity and Access Management (IAM)

Module 8: Advanced topics

- Reviewing Large Scale Design Patterns
- Designing for Cost
- Planning for High Availability and Disaster Recovery
- Distributed Environments
- Choosing a Datastore
- Leveraging Global Infrastructure
- Extending On-Premises into the Cloud
- Computing in the Cloud
- Security in the cloud