Cloud-AWS-CD-001 - Fundamentals

Introduction

Amazon Web Services (AWS) has been in the industry from last 14 years now. It provides various solutions regarding laaS and PaaS. This course in intended to provide relevant information about different cloud components required to implement in a solution. The overall scope is to learn architecting over AWS. This course should help you learn the features and capabilities of AWS to be able to identify trade-offs and make decisions for designing highly available, scalable, fault tolerant, secured and cost-effective solutions.

Target Audience

Trainee, Junior Associate

Duration

Full - 35 Hours

Prerequisites

Knowledge of any programming language.

Course Material

Cloud Fundamentals

- What are clouds made of?
- Cloud Terminology
- Benefits of cloud
- Types of cloud
- Cloud service model

Article	https://docs.microsoft.com/en-us/learn/modules/principles-cloud- computing/index	1 hr
Video	 https://www.youtube.com/watch?v=SmIKInJfO6k https://www.youtube.com/watch?v=RWgW-CgdIk0 	1 hr







Getting Started with AWS

- AWS Global infrastructure
- Introduction to AWS Cloud
- AWS Core Services

Article	•	https://docs.aws.amazon.com/whitepapers/latest/aws- overview/global-infrastructure.html https://aws.amazon.com/about-aws/global-infrastructure/ https://aws.amazon.com/about-aws/global- infrastructure/regions_az/	2 hr
Video		 https://www.youtube.com/watch?v=aNgda-qWT6w https://www.youtube.com/watch?v=XojjJbxa4MA 	2 hr

AWS Integrated Services

Article	 https://docs.aws.amazon.com/controltower/latest/userguide/cloudf ormation.html https://docs.aws.amazon.com/controltower/latest/userguide/cloudt rail.html https://docs.aws.amazon.com/controltower/latest/userguide/cloudwatch.html https://docs.aws.amazon.com/controltower/latest/userguide/config.html https://docs.aws.amazon.com/controltower/latest/userguide/iam.html https://docs.aws.amazon.com/controltower/latest/userguide/lambdalatest/userguide/lamb	3 hr
	https://docs.aws.amazon.com/controltower/latest/userguide/lambd a.html	
Video	https://www.youtube.com/watch?v= N9PfjhdLx4	2 hr

AWS Well Architected Framework

Video	https://www.aws.training/Details/Curriculum?id=42037	2 hr

AWS Security

Video	https://www.aws.training/Details/eLearning?id=34259	3 hr





AWS Pricing and Support

Video	•	https://www.edureka.co/blog/aws-pricing/	1 hr
	•	https://aws.amazon.com/premiumsupport/plans/	

AWS Networking

- VPC
- Subnets, Security groups and NACLs

Video	•	https://www.youtube.com/watch?v=HD8flZnbQqg	2 hr
	•	https://www.youtube.com/watch?v=DcvTAYxtoRU	

AWS Compute

• Elastic compute cloud (EC2)

Video	https://www.youtube.com/watch?v=H4d3vU6-eSs	1.5 hr

AWS Storage

• S3

Video	https://www.youtube.com/watch?v=9HsEMyKrlnw	1.5 hr

Elasticity and scaling EC2

- Elastic load balancing
- Auto scaling

Video	https://www.youtube.com/watch?v=-hFAWk6hyZA	2 hr	

Content delivery and Domain name system (DNS)

- Route 53 and DNS
- CloudFront

Video	•	https://youtu.be/7VKALUhyg_A	3hr
	•	https://youtu.be/e2xLV7pCOLI	
	•	https://youtu.be/D1n5kDTWidQ	





• https://www.youtube.com/watch?v=sQNONcj0cvc

Monitoring, Logging and Notification

- CloudWatch
- CloudTrail
- SNS

Video	 https://www.youtube.com/watch?v=guE3pdbMSgI https://www.youtube.com/watch?v=6b_ENVFgCpA 	2 hr
Article	 https://docs.aws.amazon.com/awscloudtrail/latest/userguide/how-cloudtrail-works.html https://aws.amazon.cogs/aom/blws/introducing-the-amazon-simple-notification-service/ 	1 hr

Database services

- RDS
- DynamoDB
- Elastic Cache
- Redshift

Video	 https://www.youtube.com/watch?v=lyBs2rhpVnE https://www.youtube.com/watch?v=k0fcbRj_pZE https://www.youtube.com/watch?v=fc5WPKnbam8 	3 hr
Article	https://cloudacademy.com/blog/amazon-elasticache/	2 hr

Serverless compute

• Lambda

Video	•	https://www.youtube.com/watch?v=NrWHROVO6TI		1 hr	
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