AWS Cloud Infrastructure
PoC Workshop (Running Containers on AWS)

Course description

This course is not for exam purpose. Instead you will build a highly available Proof of Concept environment for all future workloads. On top of the secure network framework in the AWS Cloud. We will use different methods to run the containerized applications on AWS. Then we will use the orchestration service to manage the containers.

Level	Delivery method	Duration
Intermediate-advance	Instructor-led technical workshops	12 hours

Course objectives

This course is designed to teach you how to:
• Build and compare different environment your container application
• Different ways to run your containerized application
• Use Elastic Container Service for your container orchestration

Intended audience

This course is intended for:
• Solutions Architects
• Solution Design Engineers
• Cloud System Administrators, Network Administrators and Operators
• Developers who would like to know more the environment running their apps
• Anyone who plan to work with containers

Prerequisites

We recommend that attendees of this course have:
• Taken the *AWS technical Essentials* classroom training
• Taken the *Docker and Containers* classroom training
• Fundamental knowledge on virtualization
• Fundamental knowledge on Docker
• Familiarity with containers concepts

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Course outline

Workshop Content
   – Running Containers on AWS
- Host a Docker Container in EC2
- Define and run multi-container with Docker Compose
- Register your image to ECR
- Run container in Elastic Beanstalk
- Use Elastic Container Services (ECS) with EC2 for container orchestration
- Integrate ECS with Application Load Balancer
- Run ECS with Fargate

Remarks:

Since the workshop is NOT based on a lab environment; students are required to use their own AWS account to build the infrastructure. Each student will get FREE AWS credits valued at USD25. It is highly recommended that they create a New AWS account and use Hong Kong Region.