

### Description

This full-day, introductory-level course provides a technical introduction to AWS container solutions, including discussions of container platforms, benefits, and use cases. It introduces the range of AWS container services and adjacent technologies, including an exploration of AWS design considerations and best practices. You will learn how to assess container opportunities and select the appropriate AWS container services for a customer scenario. You will also gain a broader perspective of containers in the context of application modernization and DevOps. Finally, you will look at container composition, and explore the structure and components of a Docker container definition file.

### Intended Audience

This course is intended for:

- Technical solutions architects
- Account managers with an interest in container technology

### Course Objectives

In this course, you will learn how to:

- Explain best practices around container infrastructure, platforms, and container migration
- Describe the benefits of containers on AWS
- Design provisional AWS container solutions
- Apply AWS architectural best practices to container solutions
- Drive customer awareness of containers as a part of application modernization and DevOps
- Access additional containers information, resources, programs, and training

### Prerequisites

We recommend that attendees of this course have the following:

- *AWS Technical Professional*
- Familiarity with cloud computing concepts
- Familiarity with virtualization technology

### Delivery Method

This course is delivered through:

- Classroom training

**Note:** There are no technical lab exercises in this course.

### Duration

Full day (eight hours)

### Course Outline

This course covers the following concepts:

- Containers, microservices, serverless, and application modernization
- Container concepts, constructs, and considerations
- AWS container services comparison
  - Amazon EC2 self-managed
  - Amazon Elastic Container Service (ECS)
  - Amazon Elastic Container Service for Kubernetes (EKS)

- AWS Fargate
  - Container benefits and use cases
  - Container implementation on AWS
  - How to choose the appropriate AWS container services based on customer use case
  - Container composition—a look inside the Docker container definition file