

Video Streaming Essentials for AWS Media Services (VSEAMS)

ID AW-VSEAMS Price on request Duration 2 days

Course Overview

This course covers the media and cloud fundamentals that will empower you to develop a cloud migration strategy for media workflows in support of business goals. The course covers important concepts related to video processing and delivery, the variables that can impact migration decisions, and real-world examples of hybrid and cloud use cases for AWS Media Services. It also introduces security, artificial intelligence, and analytics concepts to help you consider how AWS Media Services fit into your overall cloud strategy.

Who should attend

This course is intended for Business Leaders, including managers/supervisors in the following roles:

- Developer
- Architect
- Video Operator

Prerequisites

This course has no recommended prerequisites.

Course Objectives

In this course, you will learn to:

- Articulate the essential terms and concepts fundamental to video compression and distribution
- Describe the four fundamental stages of video streaming workflows: ingest, process, store and deliver
- Explain the importance of security in the AWS Cloud and how it is applied in video streaming workflows
- Analyze video streaming workflow diagrams using AWS services, based on simple to complex use cases
- Describe some of the key variables that influence workflow decisions
- Recognize how other AWS services for compliance, storage, and compute, interact with AWS Media

Services in video streaming workflows and the functions they perform

- Describe strategies to test or prototype workflows to mitigate risk and cost impacts and optimize video streaming workflows
- Use the AWS Management Console to build and run simple video streaming workflows for live and video-on-demand content
- Recognize the automation and data analytics available for Media Services when used with AWS AI and explore media-specific use cases for these services
- Identify the next steps in exploring migration to the cloud for one or more Media Services

Course Content

Module 1: Important video concepts

- Video Metrics
- Video Compression
- Video Distribution
- Major Protocols Used in Video Streaming

Module 2: Anatomy of streaming workflows

- Ingest
- Process
- Store
- Deliver

Module 3: Using AWS services in media workflows—video-on-demand (VOD)

- Introduction to AWS Media Services
- Security
- Variables Impacting Workflow Design
- VOD Simple Use Cases
- VOD Advanced Use Cases
- Lab 1: Build and run a simple video streaming workflow for VOD content

Module 4: Using AWS services in media workflows – live streaming

- Challenges of Live Streaming
- Live Streaming Simple Use Cases



- Live Streaming Advanced Use Cases
- Lab 2: Build and run a simple video streaming workflow for live content

Module 5: Optimizing Workflows

- Cost Considerations
- Mitigating Risk
- Monitoring and Automation
- Exploring Migration Options



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