

Course Duration: 16 hours (2 Days)

AWS AppStream

The AWS AppStream training course provides an in-depth understanding of how to use AWS AppStream 2.0 to deploy, manage, and scale applications securely and cost-effectively. Participants will learn how to stream desktop applications to any device running a compatible web browser, enabling a wide range of use cases including application streaming, desktop virtualization, and remote work solutions.

Course objectives

- Understand the fundamentals of AWS AppStream 2.0 and its key features.
- Learn how to set up and configure AWS AppStream 2.0.
- Explore application streaming use cases and best practices.
- Gain hands-on experience with managing fleets and stacks.
- Learn how to secure and optimize AWS AppStream 2.0 deployments.
- Understand the integration of AWS AppStream 2.0 with other AWS services.
- Explore cost management and optimization techniques for AWS AppStream 2.0.

Prerequisites

- AWS Technical Essentials or AWS Cloud Practitioner Essentials and Architecting on AWS.
- Introduction to End User Computing
- Familiarity with virtualization and virtual operating systems
- Familiarity with Virtual Desktop Infrastructure (VDI) or Desktop-as-a-Service (DaaS)
- Conceptual knowledge of cloud computing

Target Audience

- Desktop/Virtual Desktop Infrastructure managers
- Administrators responsible for developing and maintaining remote desktop environments
- Technical professionals who work with, or would like to work with, cloud-based virtualization

Course outline

Module 1: Preparing to Deploy

- Amazon AppStream 2.0 requirements
- Amazon AppStream 2.0 deployment best practices
- How Amazon AppStream 2.0 works
- Security in Amazon AppStream 2.0

Module 2: Networking and Access to Deploy

- Amazon AppStream 2.0 networking
- VPC setup
- Connections to your VPC

Module 3: Create an Image with Applications

- Launch an image builder
- Image builder actions
- Install an application
- Create a custom image
- Administer images
- Streamline the management and maintenance of Amazon AppStream 2.0 images

Module 4: Create a Fleet and Stack

- Create and provision a fleet
- Manage a fleet
- Create a stack
- Manage a stack

Module 5: Administer and Activate Persistent Storage

- Administer persistent storage
- Additional storage options
- Application settings persistence

Module 6: Managing End User Access

- Access through a web browser
- Configure a connection method for the end user

- End user experience: Connect through a web browser
- Install the AppStream 2.0 client for Windows
- Configure the AppStream 2.0 client
- End user experience: Connect through the AppStream 2.0 client

Module 7: Security

- Data Protection
- Identity and Access Management
- Compliance Validation
- Infrastructure Security

Module 8: IaC and AppStream

- Create AppStream resources using Cloudformation templates
- Using Cloudformation template to schedule your AppStream fleets
- Enforce compliance and cost tracking

Module 9: Monitoring and Reporting

- Monitoring usage for Amazon AppStream 2.0 resources
- Monitoring with the Amazon AppStream 2.0 console
- Monitoring with Amazon CloudWatch metrics
- Amazon AppStream 2.0 usage reports