

AWS State, Local, and Education Learning Days

Sacramento, CA

1:30pm – 3:00pm

300
level

Cloud Lab
Potpourri

Hands-On Cloud
Adventure:
Customize Your AWS
Learning with
Interactive Technical
Workshops



Cloud Lab Potpourri: Multi-Path AWS Hands-On Workshop

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WHAT YOU'LL NEED TO BUY "WORKSHOPS"	
	1 FOUNDATIONAL WORKSHOP
	1 SECURITY WORKSHOP
	1 CONTAINERS
	1 Q FOR DEVELOPER WORKSHOP

PROCEDURE TO FOLLOW

"DIRECTIONS"

- 1 Choose any workshop from your purchased collection (Foundational, Security, Containers, or Q for Developer)

- 2 Browse through available modules within each workshop. Check for any module dependencies within the same workshop.

- 3 Mix and match modules from different workshops to create your custom learning path

Workshop 1

Basics/Foundation Workshop

Foundational modules overview

COMPUTE

EC2 Linux/
EC2 Windows

Create key pair, Launch an Instance, Connect to the instance

AutoScaling on AWS

NETWORK

VPC

Creating a VPC Subnets, Routing Table, Security Group

SECURITY

AWS IAM

Launch EC2 Instances with Tags, Create IAM identities, Access for Resources, Assign IAM role

STORAGE

Amazon S3 and EFS

*Create EFS system, Create First EC2 and mount EFS drive
Creating a bucket in S3, Accessing objects*

DATABASE

Amazon RDS

Launch an RDS Instance, Access RDS from EC2, Create a RDS Snapshot, Modify RDS Instance Size

MONITORING

Amazon CloudWatch

*Create a SNS topic, Launch EC2 instance
Configure a Cloudwatch Alarm*

IAC

AWS CloudFormation

*Create VPC, Create Internet Gateway..
Setting up an EC2 instance*

Workshop 2

Security Basics

Security Modules Overview




Amazon
GuardDuty

- Generate Findings
- Understanding Findings
- Suppress Findings



AWS
Security
Hub

- Basics of Security Hub
- Security Findings
- Insights



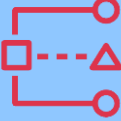
AWS
Trusted
Advisor

- Categories
- Setup Trusted Advisor Notifications



Billing
Alerts

- Setup Anomaly Detection
- Billing Alerts



IAM
Access
Analyzer

- Create Analyzer
- Review access of roles

Single Account Security Accelerator (SASA)

Workshop 3

Containers

Containers modules overview

FUNDAMENTALS

- ECS Cluster
- Task Definitions
- Services
- Update a Service
- Enable ECS Exec

AUTO SCALING

- Service and Target AutoScaling
- Trigger and Scheduled Scaling

NETWORKING

- ECS Network Mode
- ECS Service Connect
- ECS Service Connect with TLS

OBSERVABILITY

- Container Insights
- Open Telemetry

SECURITY

- IAM Roles
- Amazon GuardDuty

AUTOMATION

- Rolling deployment

STORAGE

- EFS volume with Fargate
- EFS volume verification

Workshop 4

Amazon Q Developer Workshop

Q Developer modules overview

CODE
COMPREHENSION
AND
SUMMARIZATION

- Learn about Amazon Q
- Create Documentation

CODE
DEBUGGING,
TESTING AND
OPTIMIZATION

- Identify and fix bug
- Writing unit tests
- Review code

NATURAL
LANGUAGE TO
NEW FEATURE

- Use Amazon Q Developer's Agent to add new functionality to application

APPLICATION
MODERNIZATION
AND
TRANSFORMATION

- Upgrading Java Applications using Amazon Q Code Transformation
- Transforming Code with Amazon Q chat

TROUBLESHOOTING

- Troubleshooting a failing AWS Lambda Function

GENERATIVE AI
FOR
ACCELERATING
SOFTWARE
DEVELOPMENT

- Creating effective prompts
- Best Practices
- Responsible use of AI

Let's get started...

<https://workshop.daschmd.people.aws.dev/>

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Cloud Lab Potpourri: Multi-Path AWS Hands-On Workshop

Workshop Access

- [AWS Basics and Fundamentals](#)
- [AWS Security](#)
- [Containers on AWS](#)
- [Amazon Q Developer](#)

Special Instructions

- **AWS Basics and Fundamentals:** Lab 1 has been pre-completed for you to save time. It involves following instructions to deploy the solution using CloudFormation.
- **AWS Security:** Lab 1 has been pre-completed for you to save time. It involves following instructions to deploy the solution using CloudFormation.
- **Containers on AWS:** Begin with the Fundamentals lab, then proceed through the Auto Scaling, Networking, and Observability labs.
- **Amazon Q Developer:** Lab 1 has been pre-completed for you to save time. It involves following instructions to deploy the solution using CloudFormation.

Please tell us how we've done

- Please take 2 minutes and complete this session survey



- Or, [click here to go to the survey](#)
- **Track:** Cloud Fundamentals
- **Session:** Cloud Lab Potpourri: Multi-Path AWS Hands-On Workshop

Select your preferred workshop

AWS State, Local, and Education Learning Days - Washington DC

Cloud Lab Potpourri: Multi-Path AWS Hands-On Workshop

Workshop Access

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- **Containers on AWS**
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Select preferred workshop

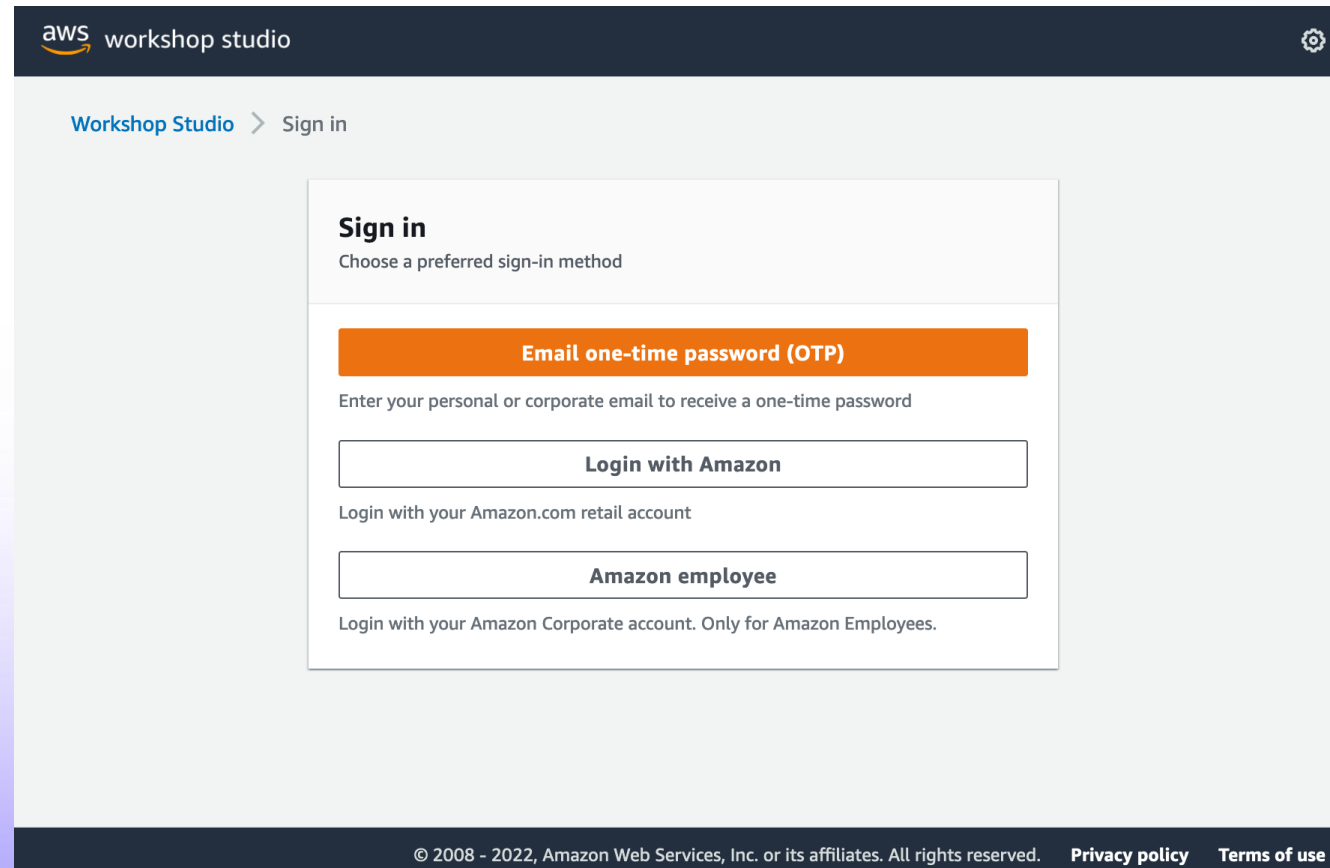


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Sign in via your preferred method

<https://catalog.workshops.aws/join> Access Code: XXX-XXX



The screenshot displays the AWS Workshop Studio sign-in interface. At the top, the AWS logo and 'workshop studio' are visible. Below the header, the breadcrumb 'Workshop Studio > Sign in' is shown. The main content area is titled 'Sign in' with the instruction 'Choose a preferred sign-in method'. Three sign-in options are presented as buttons:

- Email one-time password (OTP)**: An orange button with the instruction 'Enter your personal or corporate email to receive a one-time password' below it.
- Login with Amazon**: A white button with the instruction 'Login with your Amazon.com retail account' below it.
- Amazon employee**: A white button with the instruction 'Login with your Amazon Corporate account. Only for Amazon Employees.' below it.

At the bottom of the page, the footer contains the copyright notice '© 2008 - 2022, Amazon Web Services, Inc. or its affiliates. All rights reserved.' and links for 'Privacy policy' and 'Terms of use'.

Review the terms and join the event

The screenshot shows the AWS Workshop Studio interface for joining an event. The page is titled 'Review and join' and is part of a two-step process. Step 1 is 'Enter event access code' and Step 2 is 'Review and join'. The event details are as follows:

Name	Start time	Duration	Level
AWS General Immersion Day	9/23/2022 01:13 AM	12 hours	-

The description of the event is 'AWS General Immersion Day'.

Terms and Conditions
Read and accept before joining the event

1. By using AWS Workshop Studio for the relevant event, you agree to the AWS Event Terms and Conditions and the AWS Acceptable Use Policy. You acknowledge and agree that are using an AWS-owned account that you can only access for the duration of the relevant event. If you find residual resources or materials in the AWS-owned account, you will make us aware and cease use of the account. AWS reserves the right to terminate the account and delete the contents at any time.
2. You will not: (a) process or run any operation on any data other than test data sets or lab-approved materials by AWS, and (b) copy, import, export or otherwise create derivate works of materials provided by AWS, including but not limited to, data sets.
3. AWS is under no obligation to enable the transmission of your materials through Event Engine and may, in its discretion, edit, block, refuse to post, or remove your materials at any time.
4. Your use of AWS Workshop Studio will comply with these terms and all applicable laws, and your access to AWS Workshop Studio will immediately and automatically terminate if you do not comply with any of these terms or conditions.

I agree with the Terms and Conditions

Buttons: Cancel, Previous, Join event

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Thank you!

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Please complete the survey
for this session



**Cloud Lab Potpourri:
Multi-Path AWS
Hands-On Workshop**

Coming up NEXT

3:15pm – 4:15pm

300
level

**Designing modern
applications in AWS**

Unlock Serverless
Potential: Reduce
Costs, Boost
Scalability, and
Enhance Security
with Cloud-Native
Architectures.