

AWS State, Local, and Education Learning Days

Salt Lake City

1:30pm – 3:00pm

300
level

Cloud Lab
Potpourri

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

aws Learning Days
State, Local, and Education



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

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Foundational Workshop



Security Workshop



Containers Workshop



Q for Developer
Workshop

PROCEDURE TO FOLLOW
"DIRECTIONS"

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

Browse through available **2** 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

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 left, the 'aws workshop studio' logo is visible. Below it, a breadcrumb trail shows 'Workshop Studio > Sign in'. The main content area is titled 'Sign in' with the instruction 'Choose a preferred sign-in method'. There are three distinct sign-in options, each in a white box with a thin border:

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

At the bottom of the page, a dark 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'.

Access Codes

Fundamentals
Workshop

d09d-0043c1-f2

Security
Basics

14c9-09c0bd-7b

Containers
Workshop

72e9-08b7f2-28

Q Developer
Workshop

72c2-07ee3c-11

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 'Join event' process. It features a sidebar with navigation options for 'Step 1: Enter event access code' and 'Step 2: Review and join'. The main content area is divided into two sections: 'Event details' and 'Terms and Conditions'. The 'Event details' section contains a table with the following information:

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

Below the table is a 'Description' field containing the text 'AWS General Immersion Day'. The 'Terms and Conditions' section includes a heading, a sub-heading 'Read and accept before joining the event', and a list of four numbered terms. At the bottom of this section, there is a checkbox labeled 'I agree with the Terms and Conditions' which is checked. At the bottom right of the page, there are three buttons: 'Cancel', 'Previous', and 'Join event'.

Event details

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

Description
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

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.