

AWS re:Invent

NOV. 28 – DEC. 2, 2022 | LAS VEGAS, NV

Build a full-stack retail web application with AWS Amplify

Venugopalan Vasudevan (he/him)

Sr. Specialist SA, Frontend Web and Mobile
AWS

Ryan Yanchuleff (he/him)

Sr. Specialist SA, Frontend Web and Mobile
AWS

Agenda

What are we going to build today?

What is AWS Amplify?

Amplify use cases

Workshop

Learn more

What are we going to build today?

Recommended

Item	Rating	Price
Acoustic Guitar	★★★★★	\$323.99
Blue Suit	★★★★★	\$100
Easter Plastic Egg	★★★★★	\$21.99
Dark Slate Gray Sneakers	★★★★★	\$127.99
Light Gray Sofa	★★★★★	\$781.99

My Retail Store | powered by **aws**

The Retail Demo Store is a demo application. All content displayed in the Retail Demo Store is fictitious and for demonstration purposes only.

All images shown are from Unsplash.

What is AWS Amplify?

Amplify is a set of tools and services that makes it easy for frontend and full-stack developers to build scalable web and mobile apps faster



AWS Amplify

Amplify libraries



Use case-centric libraries to build cloud-powered mobile and web apps

Amplify libraries are powered by AWS services and can be used with new backends created with the Amplify CLI and Amplify Studio or your existing AWS backend

Amplify CLI



Toolchain to configure and maintain your app backend from your local desktop

Configure cloud functionality using the CLI's interactive workflow and intuitive use cases such as authentication, storage, and API

Amplify Studio



Visual interface for setting up your app backend

New: Visually build UI components and generate React code; integrates with Figma to improve designer and developer collaboration

Amplify Hosting



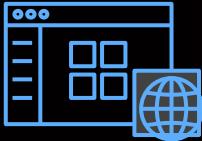
Fully managed CI/CD and hosting service for fast, secure, and reliable static and server-side rendered apps that scale with your business

Supports modern web frameworks such as React, Angular, Vue, Next.js, Gatsby, Hugo, Jekyll, and more

Amplify use case 1: Create an app backend

Build your app backend with Amplify

CREATE A BACKEND FOR YOUR IOS, ANDROID, FLUTTER, WEB, OR REACT NATIVE APP IN A FEW CLICKS



Amplify Studio

Visual backend builder
(powered by Amplify CLI)

Configure authentication

Data model designer
provisions GraphQL API
with Amazon DynamoDB
tables

Manage application
data and users

Build UI components
and bind to data



Amplify CLI

Full-stack CI/CD

Feature branch deployments

Team workflows

Transform schema definition to
GraphQL API with Amazon
DynamoDB tables

Codegen generates code for
Swift (iOS), Java (Android), and
JavaScript



Amplify + CDK

Customize AWS resources

Add 175+ AWS resources

Export as CDK

Use Amplify with existing
DevOps tools or in-house
deployment systems



Amplify use case 2: Build a frontend UI

Build your app frontend with Amplify

VISUALLY BUILD A FRONTEND UI

Saves time

Minimizes coding

Is fully customizable



Choose from dozens
of UI components



Import US designs from Figma
as clean React code



Improves designer and
developer collaboration

Pixel-perfect designs with less
coding; maintain full control
over code

Amplify use case 3: Host a web app

Host your app with Amplify Hosting

EASILY DEPLOY TO THE FAST, SECURE, AND RELIABLE AWS CONTENT-DELIVERY NETWORK

How it works

1

Connect your repository



AWS CodeCommit

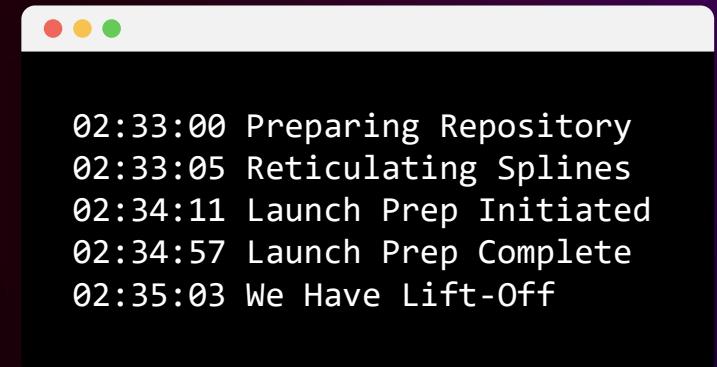
2

Configure build settings



3

Deploy your app



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Workshop: Full-stack retail web application with Amplify

Step 1: Sign in via your preferred method

<https://catalog.workshops.aws/join>

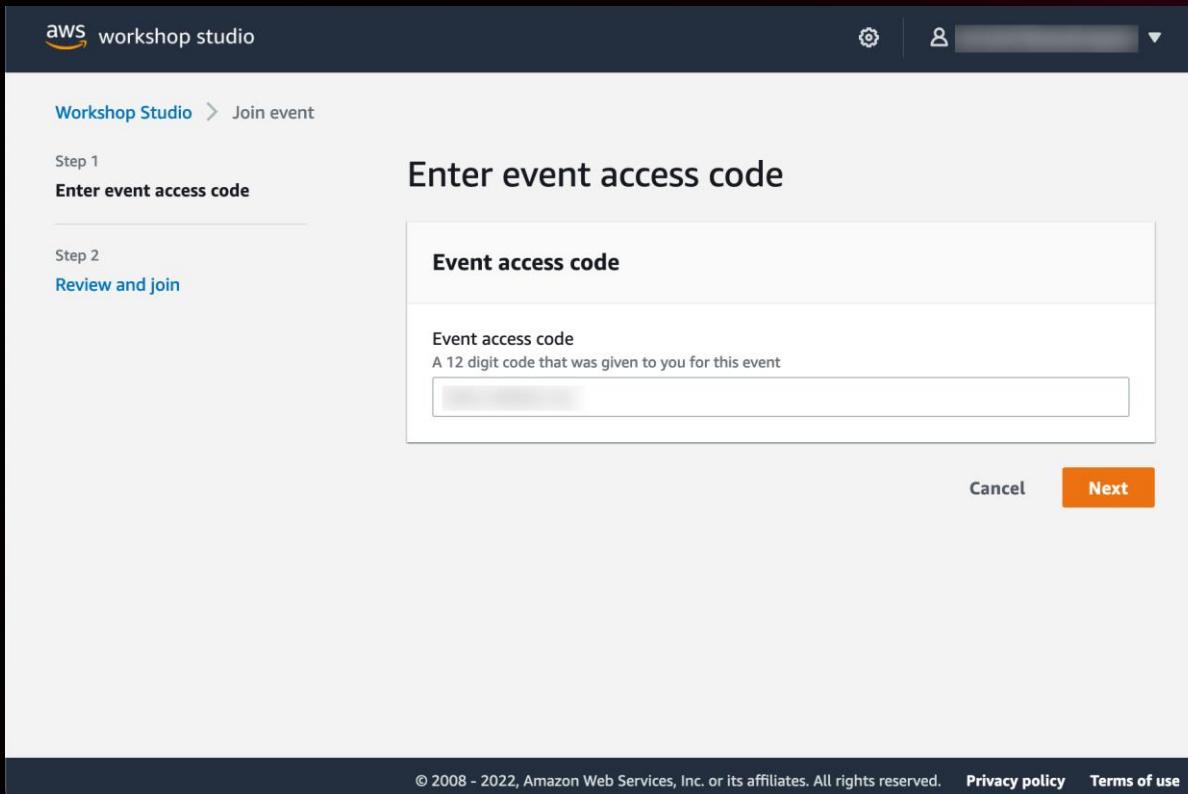
Event access code : 3586-0a3582-da

A screenshot of the AWS Workshop Studio sign-in interface. The top navigation bar includes the AWS logo and the text "workshop studio". Below the navigation, the text "Workshop Studio > Sign in" is displayed. A central box is titled "Sign in" with the sub-instruction "Choose a preferred sign-in method". It features three options: "Email one-time password (OTP)" (highlighted with an orange background), "Login with Amazon" (with a sub-instruction "Login with your Amazon.com retail account"), and "Amazon employee" (with a sub-instruction "Login with your Amazon Corporate account. Only for Amazon Employees"). The bottom of the page includes a copyright notice "© 2008 - 2022, Amazon Web Services, Inc. or its affiliates. All rights reserved." and links for "Privacy policy" and "Terms of use".

Step 2: Enter event access code

Enter 12 digit event access code.

Event access code : 3586-0a3582-da



Step 3: Review terms and join event

The screenshot shows the 'Review and join' step of the AWS Workshop Studio 'Join event' process. The interface is divided into two main sections: 'Event details' and 'Terms and Conditions'.

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 derivative 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**

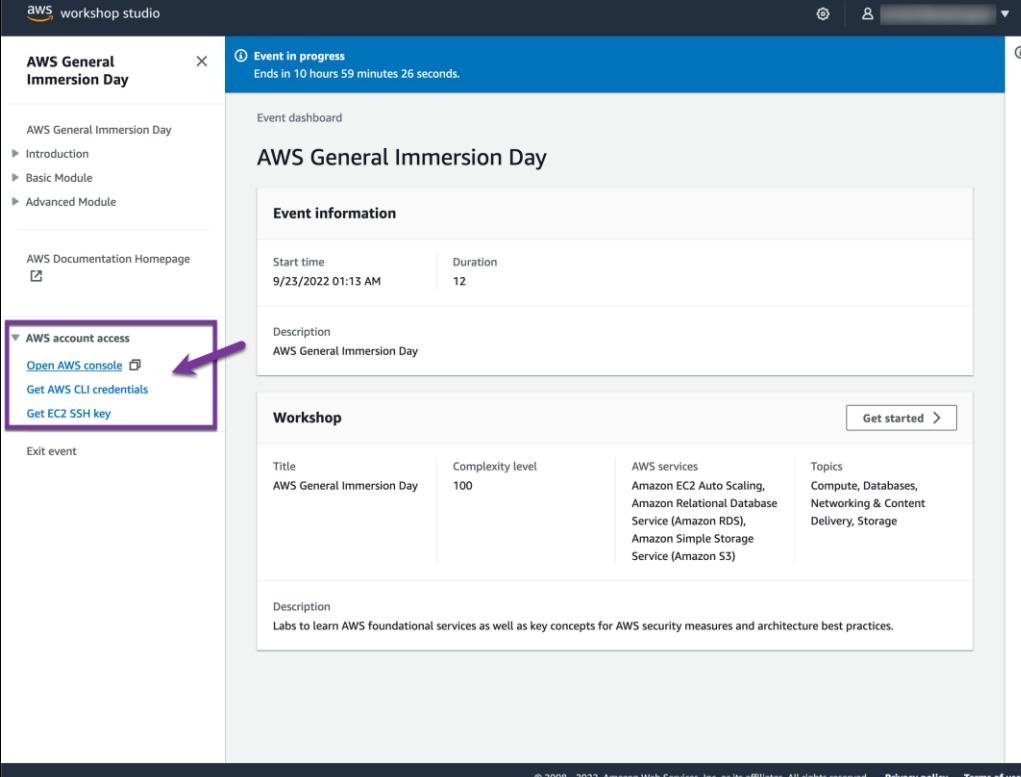
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Step 4: Access AWS account

Access the AWS console.

Event access code : 3586-0a3582-da



AWS workshop studio

Event in progress
Ends in 10 hours 59 minutes 26 seconds.

Event dashboard

AWS General Immersion Day

Event information

Start time	9/23/2022 01:13 AM	Duration	12
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Description
AWS General Immersion Day

Workshop

Title	Complexity level	AWS services	Topics
AWS General Immersion Day	100	Amazon EC2 Auto Scaling, Amazon Relational Database Service (Amazon RDS), Amazon Simple Storage Service (Amazon S3)	Compute, Databases, Networking & Content Delivery, Storage

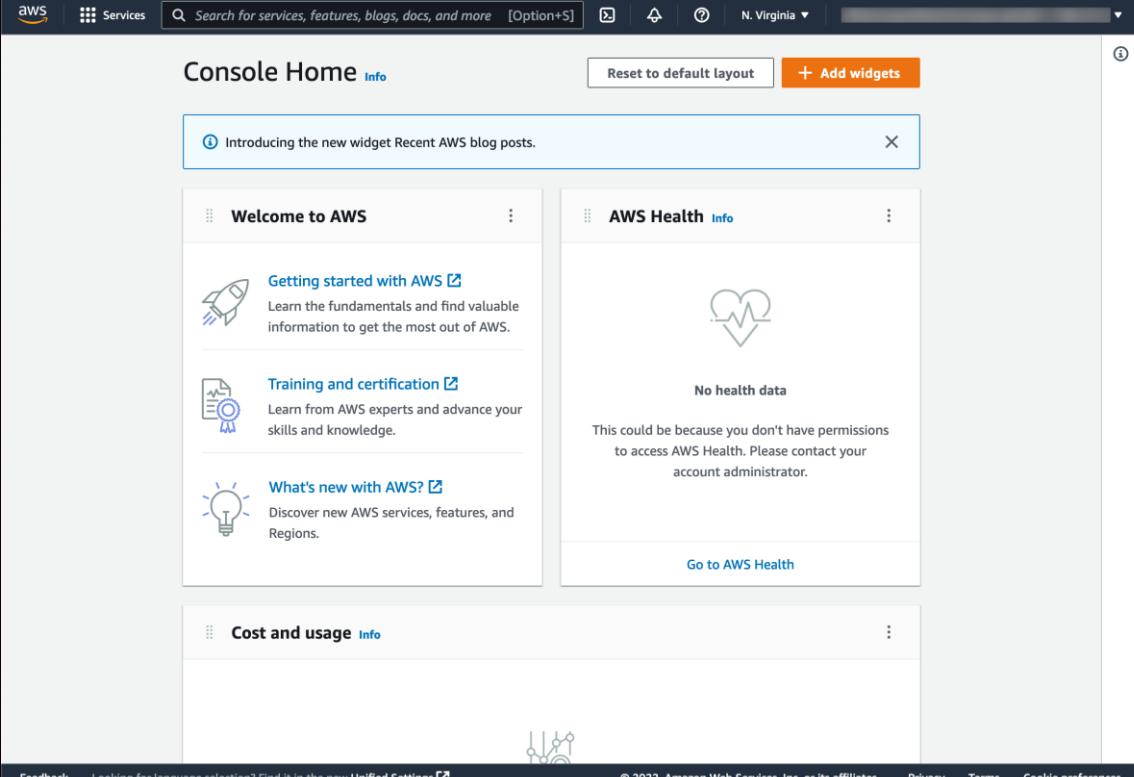
Description
Labs to learn AWS foundational services as well as key concepts for AWS security measures and architecture best practices.

AWS account access

- [Open AWS console](#) (highlighted with a red box and a red arrow)
- [Get AWS CLI credentials](#)
- [Get EC2 SSH key](#)

Exit event

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aws

Services

Search for services, features, blogs, docs, and more [Option+5]

N. Virginia

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Introducing the new widget Recent AWS blog posts.

Welcome to AWS

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- [Training and certification](#)
- [What's new with AWS?](#)

AWS Health

No health data

This could be because you don't have permissions to access AWS Health. Please contact your account administrator.

[Go to AWS Health](#)

Cost and usage

Feedback Looking for language selection? Find it in the new [Unified Settings](#)

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Step 5: Get started with the workshop

Event access code : 3586-0a3582-da

AWS workshop studio

AWS General Immersion Day

Event in progress
Ends in 10 hours 59 minutes 26 seconds.

Event dashboard

AWS General Immersion Day

Event information

Start time	Duration
9/23/2022 01:13 AM	12

Description
AWS General Immersion Day

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Description
Labs to learn AWS foundational services as well as key concepts for AWS security measures and architecture best practices.

Get started >



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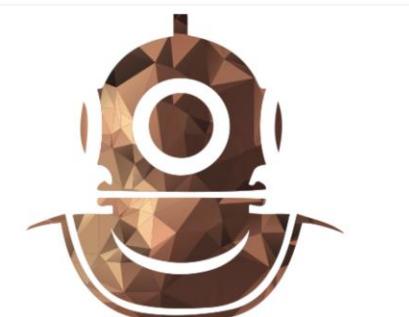
AWS workshop studio

AWS General Immersion Day

Event in progress
Ends in 10 hours 57 minutes 12 seconds.

Event dashboard > AWS General Immersion Day

AWS General Immersion Day



IMMERSION DAYS

In this General Immersion Day workshop, through a mix of service explanation and hands-on labs led by AWS, you will learn about AWS foundational services as well as key concepts for AWS security measures and architecture best practices. The hands-on labs are largely divided into **basic** and **advanced** modules. In basic modules, you can learn various features of each AWS foundational service. In advanced modules, you can learn how to connect each service organically to create architecture like 3-tier web application.

[Previous](#) [Next](#)

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Thank you!

Venugopalan Vasudevan
vasudeve@amazon.com

Ryan Yanchuleff
yanryan@amazon.com



Learn more and get started for free at aws.amazon.com/amplify/



Please complete the session
survey in the **mobile app**