
AWS
re:Invent
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MFG202

Building a digital twin of an industrial machine

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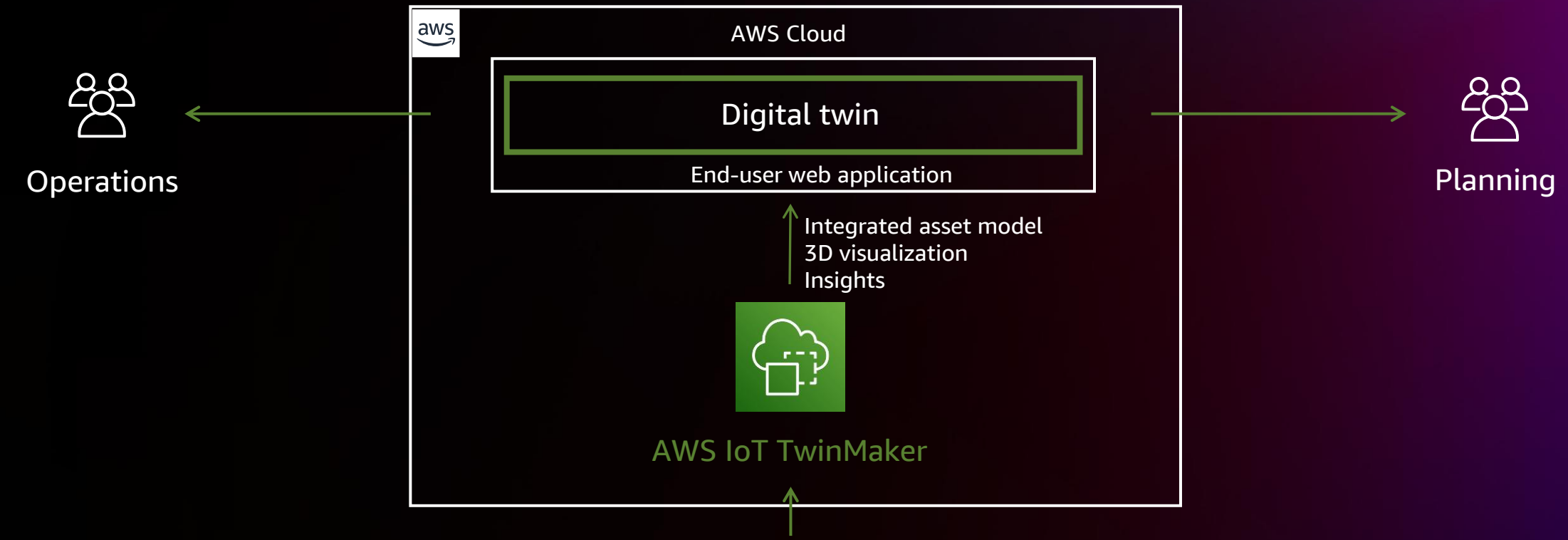
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AWS IoT TwinMaker – How it works





Operational and maintenance history

Real-time IoT sensor data

Real-time process data

CAD/BIM models

Point cloud scans

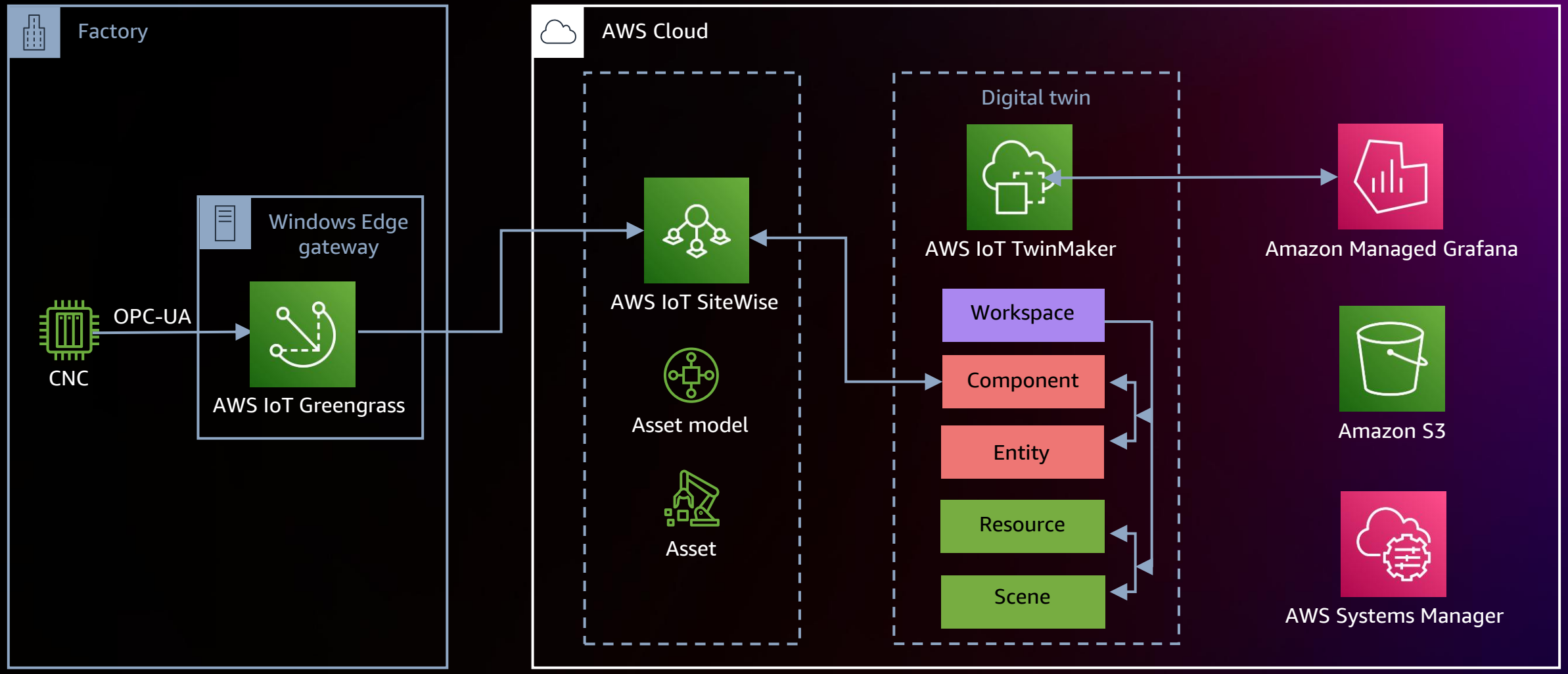
Video feeds

Statistical and physics-based models

Geo-spatial metadata

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Component architecture



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Workshop details

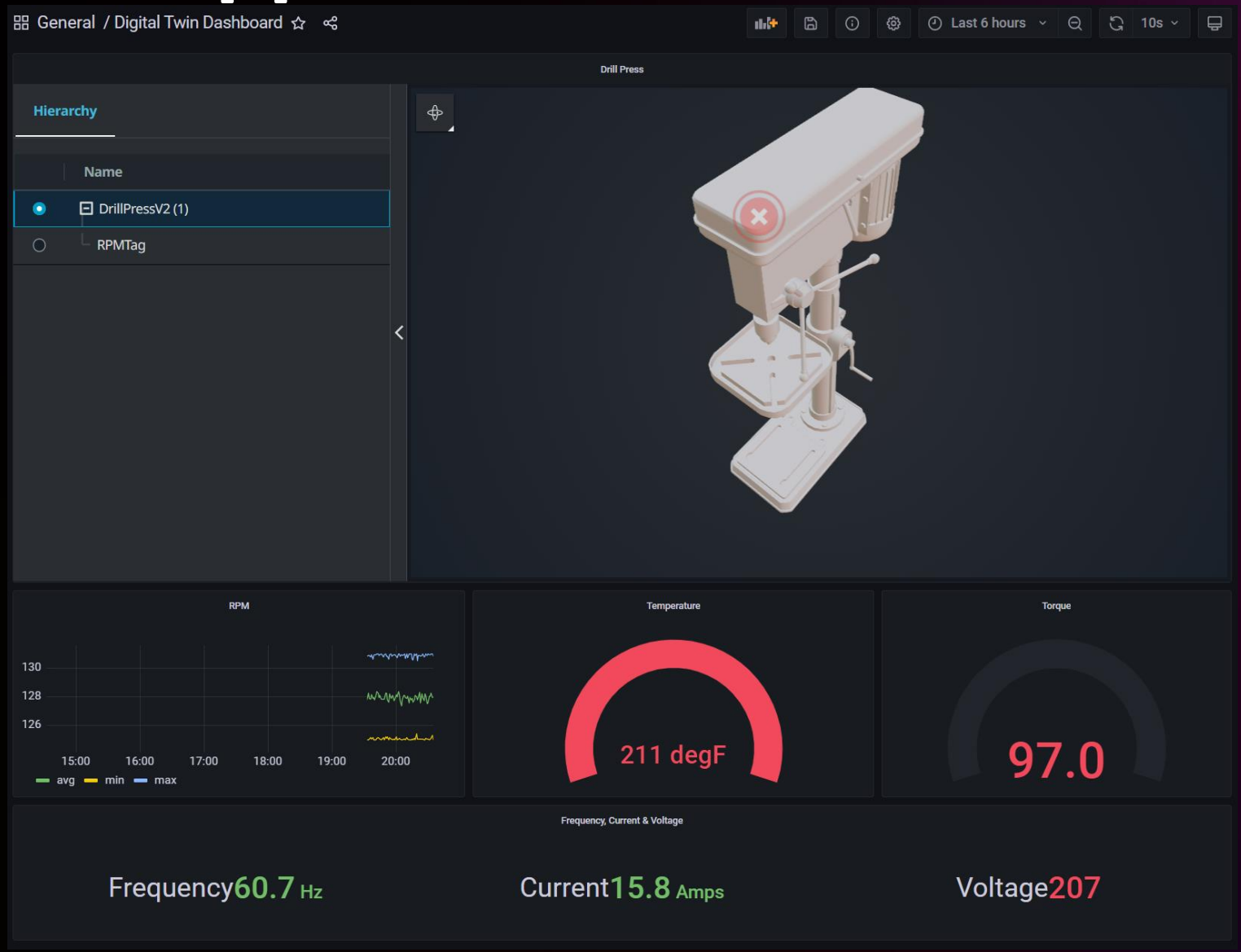
- Workshop guide available – https://catalog.workshops.aws/join

- Approximately 1 hour to complete

- Modules:
  - Introduction
  - Workshop environment
  - Setup industrial edge gateway
  - Collect, organize, and analyze data from the CNC machine
  - Digital twin
    - AWS IoT TwinMaker
    - Amazon Managed Grafana

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Digital twin application



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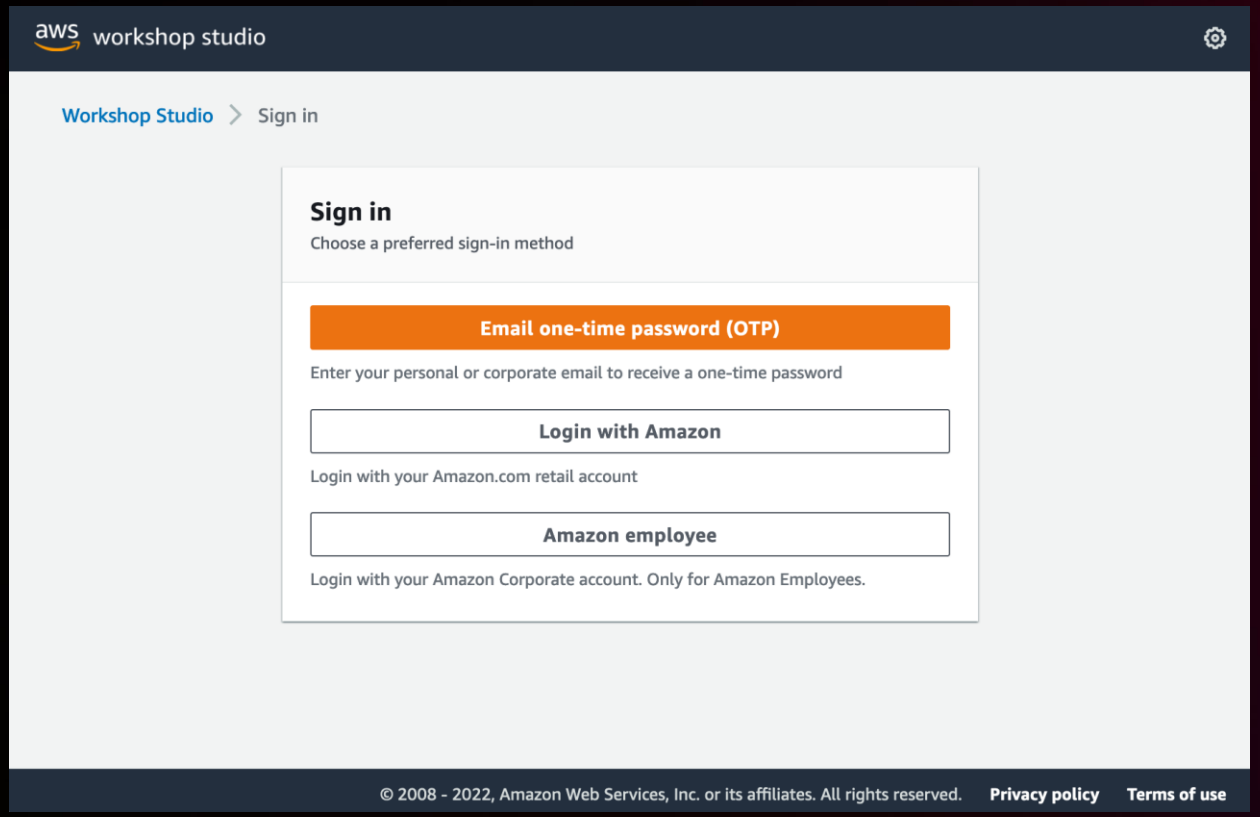
Getting started with this workshop

- As a participant, you will have access to an AWS account with any optional pre-provisioned infrastructure and IAM policies needed to complete this workshop.
- The AWS account will only be available for the duration of this workshop. You will lose access to the account thereafter.
- The optional pre-provisioned infrastructure will be deployed to a specific Region. Check your workshop content to determine whether other Regions will be used.
- Be sure to review the terms and conditions of the event. Do not upload any personal or confidential information in the account.

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Step 1: Sign in via your preferred method

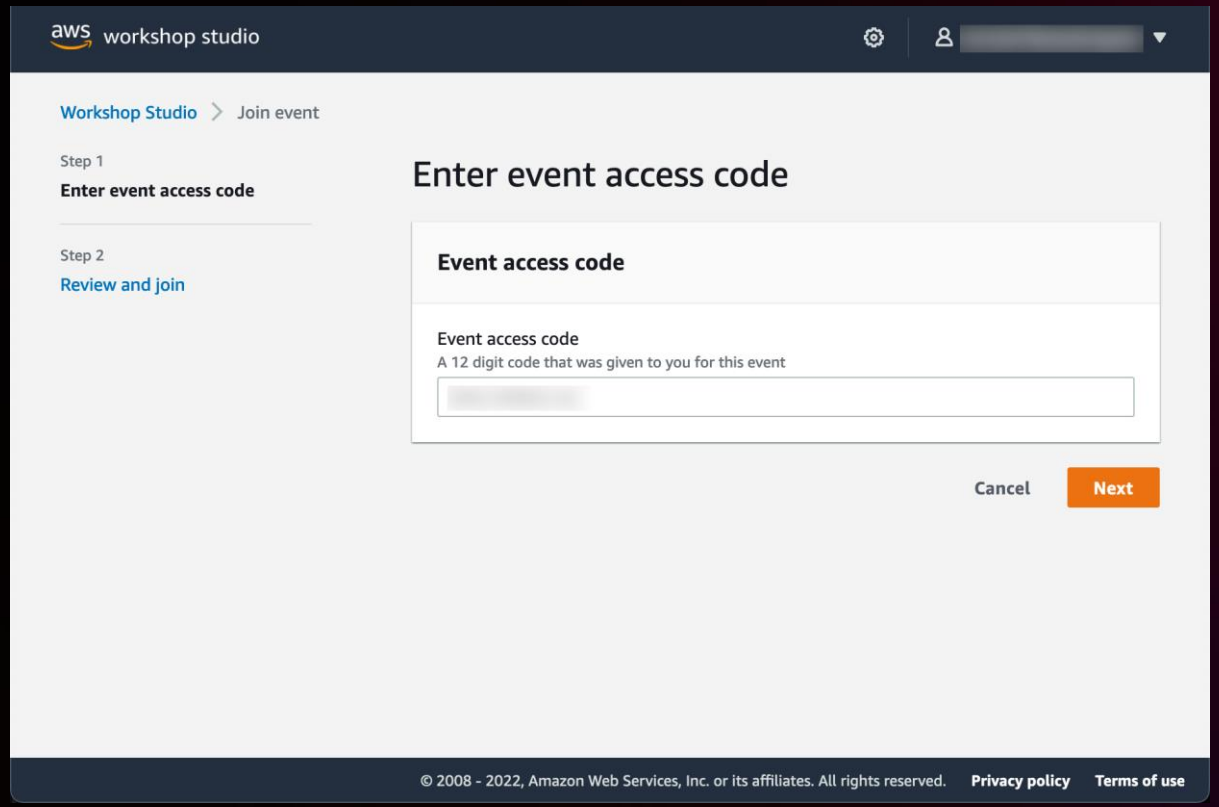
https://catalog.us-east-1.prod.workshops.aws/join



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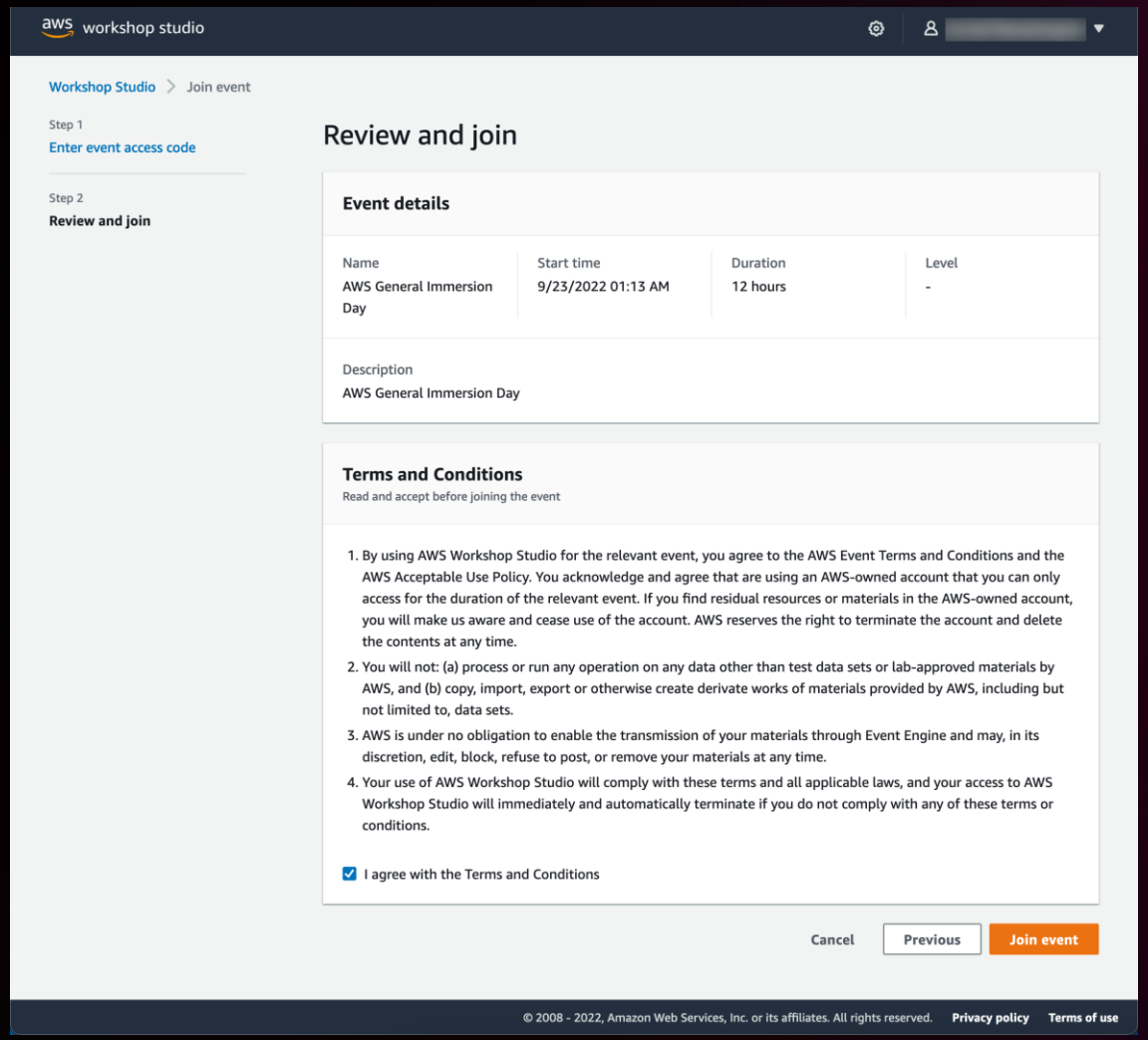
Step 2: Enter event access code

Enter the 12-digit event access code. If you were given a one-click join link, you can skip this step.



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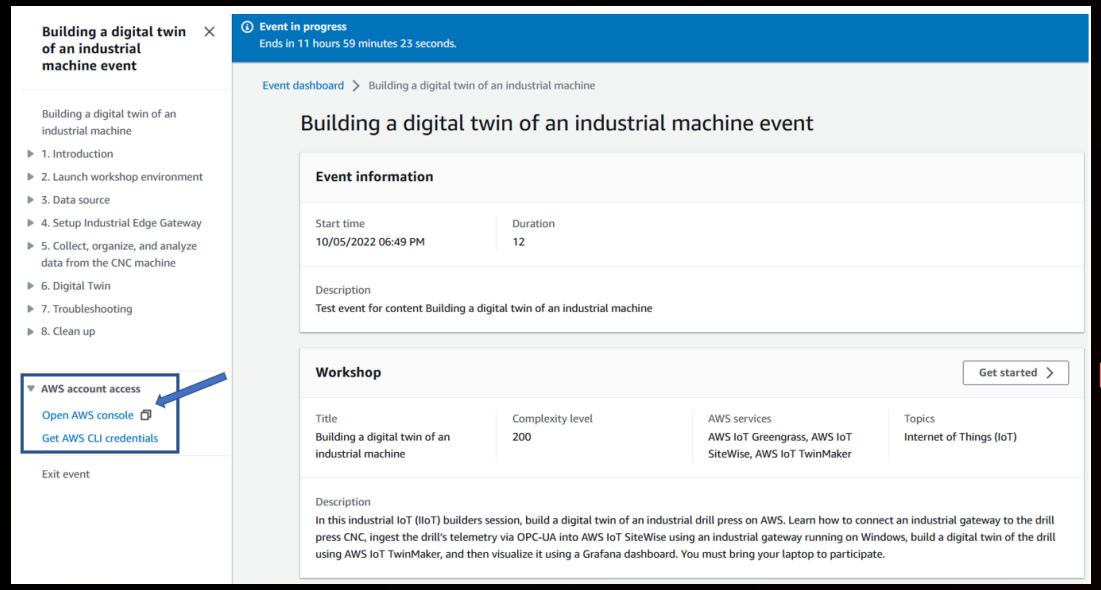
Step 3: Review terms and join event

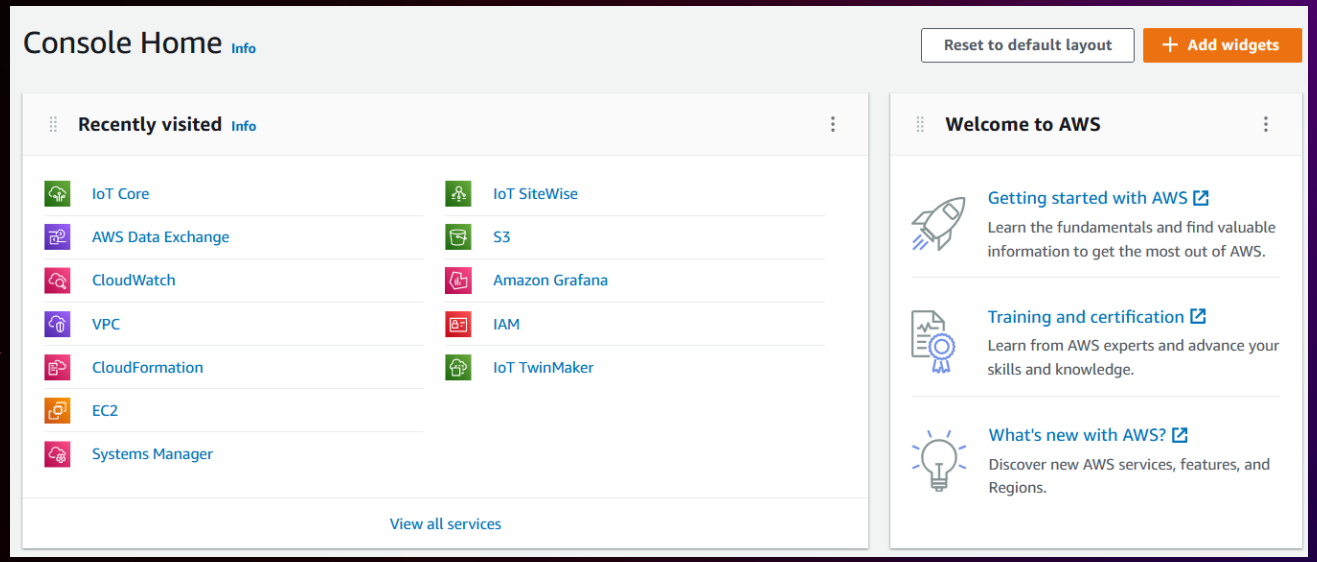


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Step 4: Access AWS account

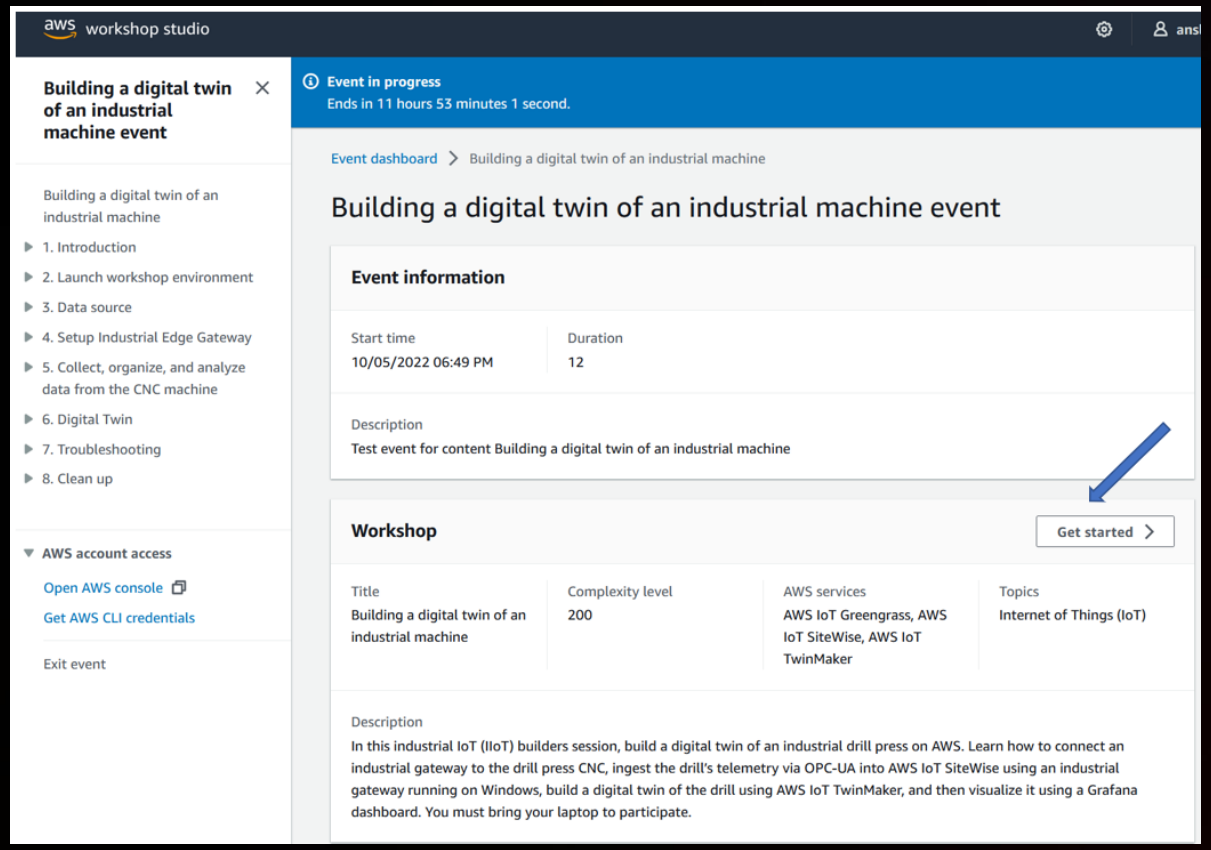
Access the AWS console.

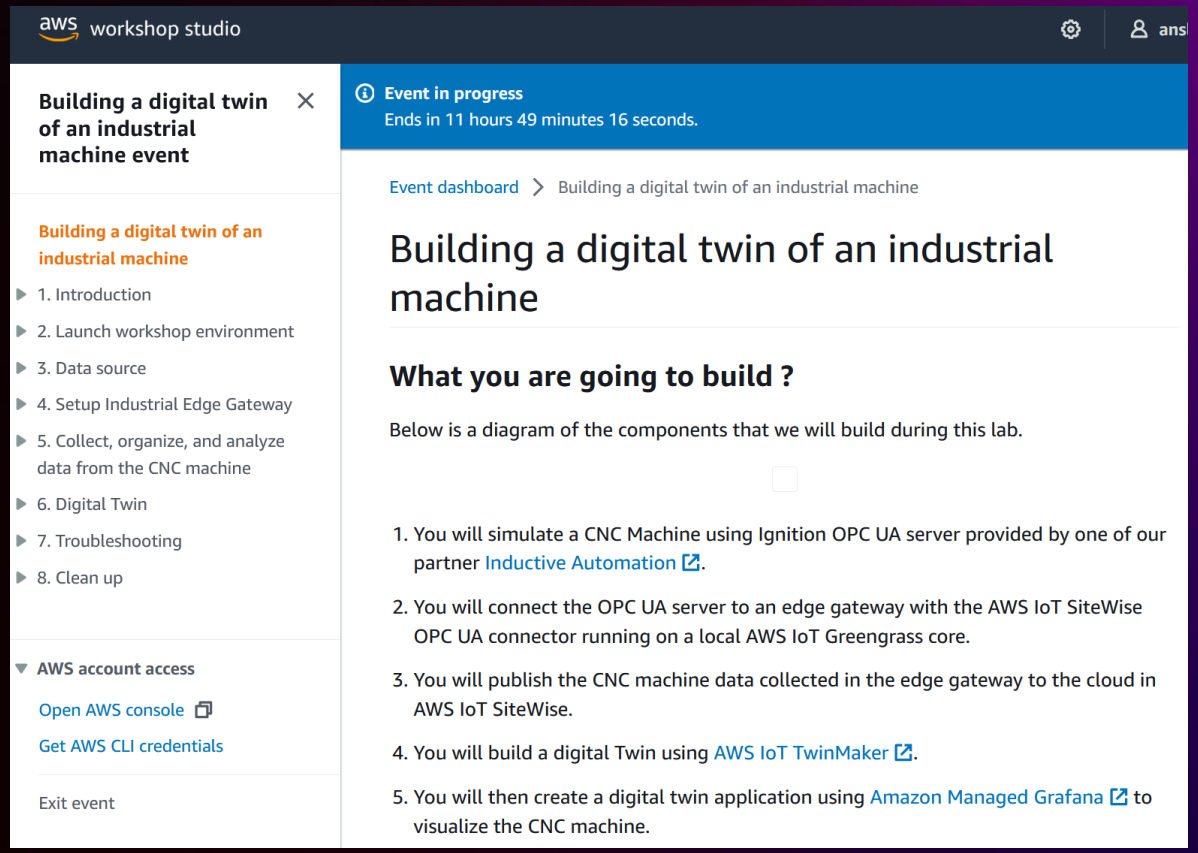




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Step 5: Get started with the workshop





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Thank you!



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

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