

# AWS re:Invent

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

ENT305-R

# Operate Windows Server workloads at scale by using automation

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# Agenda

Workshop modules explained

How to get started

Hands-on workshop starts!



# Workshop modules explained

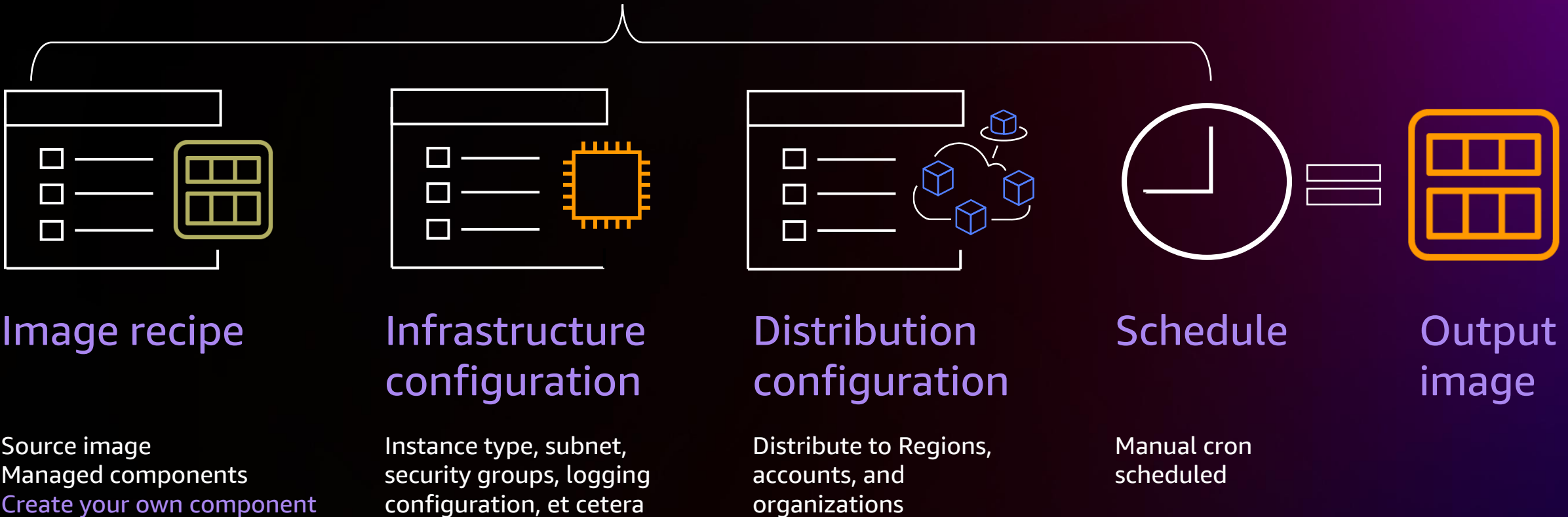
WHAT YOU WILL LEARN IN THIS WORKSHOP

	What you will learn	What you will use
Build	Build, test, and distribute images	EC2 Image Builder
Operate	Set configuration, securely connect, and patch	AWS Systems Manager
Monitor	Metrics, log aggregation, and alerting	Amazon CloudWatch

# Module 1: EC2 Image Builder

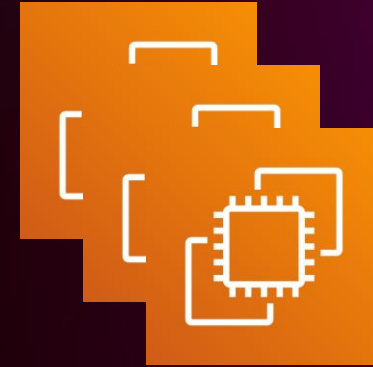
BUILD, TEST, AND DISTRIBUTE IMAGES

## Pipeline



# Module 2: AWS Systems Manager

SET CONFIGURATION, SECURELY CONNECT, AND PATCH



AWS Systems Manager

Amazon EC2 Windows instances

**AWS Systems Manager** is used to:

1. Deploy and configure the CloudWatch agent
2. Securely connect to an instance via RDP or AWS Tools for PowerShell
3. Patch instances

Windows Server 2022 instances are pre-provisioned in your account and tagged as: **workshop:** module2

# Module 3: Amazon CloudWatch

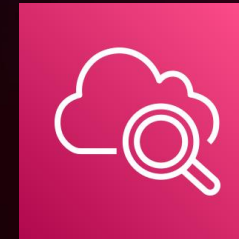
QUERY AND GRAPH METRICS, AGGREGATE LOGS, AND SET UP ALERTING



## Amazon EC2 Windows instances

Windows Server 2022 instances with CloudWatch agent pre-configured are deployed in your account

Instances are tagged as: **workshop:** module3



## Amazon CloudWatch

You will use **Amazon CloudWatch** to:

1. Collect metrics and logs from Amazon EC2 Windows instances
2. Query and graph metrics
3. Create metrics from logs
4. Set up alarms

# How to get started

- As a participant, you will have access to an AWS account with any optional, pre-provisioned infrastructure and AWS Identity and Access Management (IAM) policies needed to complete this workshop
- The AWS account will only be available for the duration of this workshop; after this workshop, you will lose access to the account
- The optional, pre-provisioned infrastructure will be deployed to a specific Region; check your workshop content to determine if other Regions will be used
- Be sure to review the terms and conditions of the event; do not upload any personal or confidential information to the account



# Step 1: Sign-in using your preferred method

<https://s12d.com/ENT305R>



aws workshop studio

Workshop Studio > Sign in

### Sign in

Choose a preferred sign-in method

**Email one-time password (OTP)**

Enter your personal or corporate email to receive a one-time password

**Login with Amazon**

Login with your Amazon.com retail account

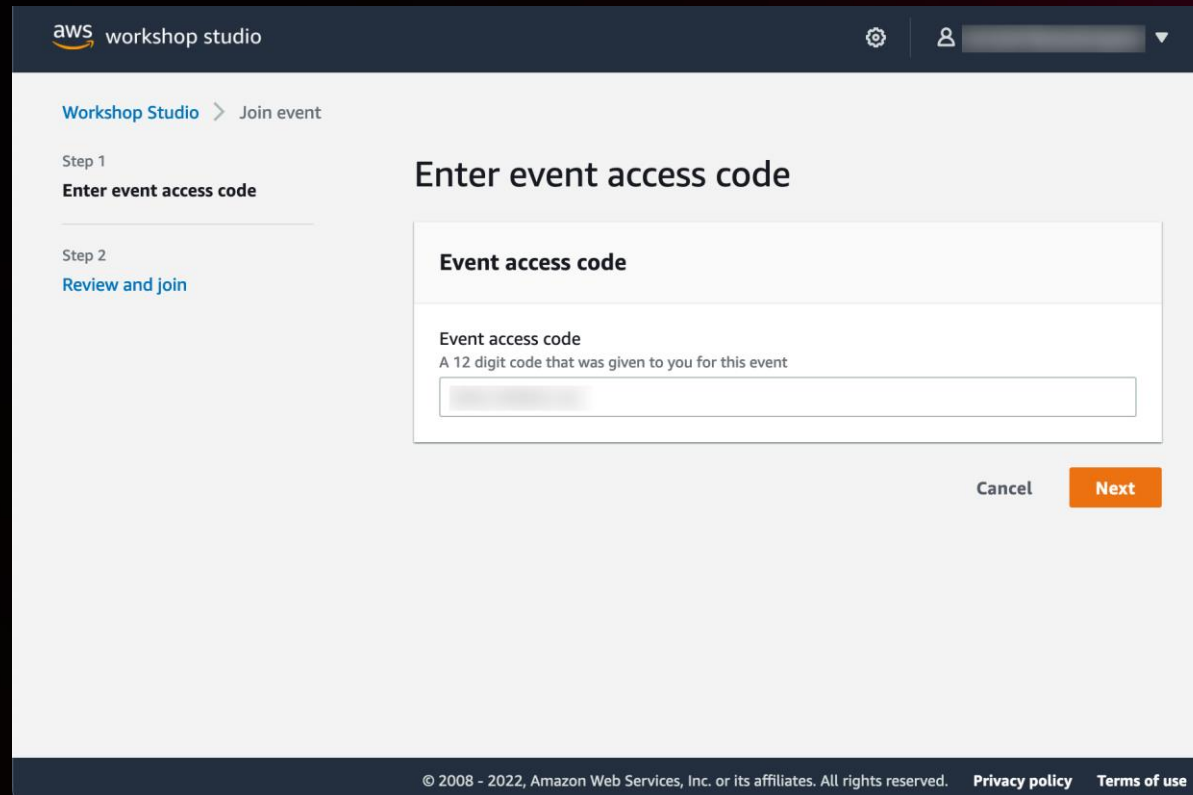
**Amazon employee**

Login with your Amazon Corporate account. Only for Amazon Employees.

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# Step 2: Enter the event access code



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



The screenshot shows the AWS Workshop Studio interface for joining an event. The top navigation bar includes the AWS logo, 'workshop studio', a settings gear icon, and a user profile icon. The breadcrumb trail is 'Workshop Studio > Join event'. On the left, a progress indicator shows 'Step 1 Enter event access code' as the current step and 'Step 2 Review and join' as the next step. The main heading is 'Enter event access code'. Below this, a box titled 'Event access code' contains the instruction 'Event access code' and 'A 12 digit code that was given to you for this event', followed by a text input field. At the bottom right of the form area are 'Cancel' and 'Next' buttons. The footer contains the copyright notice '© 2008 - 2022, Amazon Web Services, Inc. or its affiliates. All rights reserved.' and links to 'Privacy policy' and 'Terms of use'.

# Step 3: Review the terms and join the event

aws workshop studio



Workshop Studio > Join event

Step 1  
[Enter event access code](#)

Step 2  
**Review and join**

## Review and join

### 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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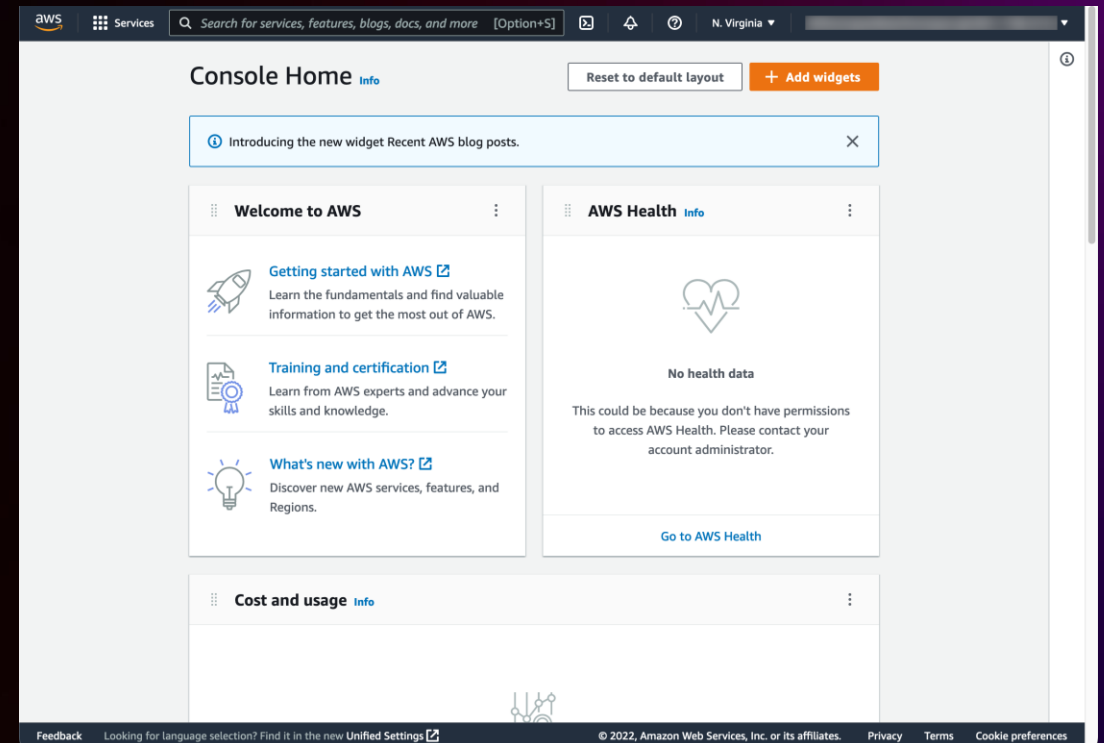
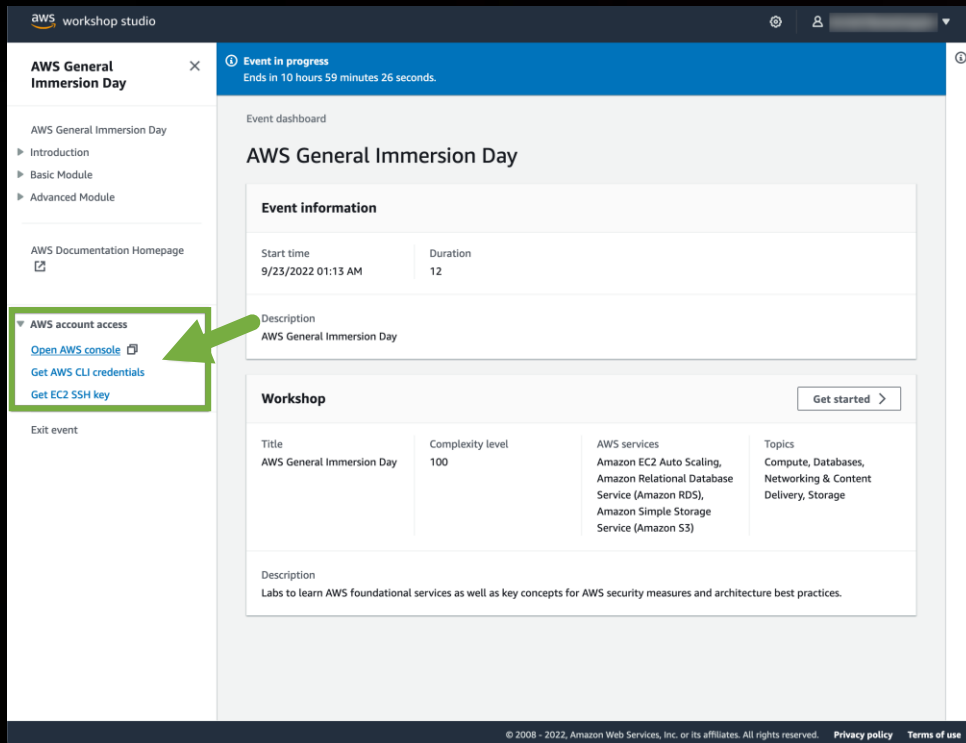
[Privacy policy](#)

[Terms of use](#)



# Step 4: Access the AWS account

Access the AWS Console, or generate AWS CLI credentials as needed



# Step 5: Get started with the workshop

The screenshot shows the 'Event dashboard' for the 'AWS General Immersion Day'. The left sidebar contains navigation links: 'AWS General Immersion Day' (with sub-links for Introduction, Basic Module, and Advanced Module), 'AWS Documentation Homepage', and 'AWS account access' (with links for 'Open AWS console', 'Get AWS CLI credentials', and 'Get EC2 SSH key'). The main content area has a blue header with 'Event in progress' and a timer. Below this is the 'Event dashboard' title and the event name. The 'Event information' section shows the start time (9/23/2022 01:13 AM) and duration (12). The 'Workshop' section contains a table with details about the event, including the title, complexity level, AWS services, topics, and a description. A green box highlights the 'Get started >' button in the 'Workshop' section, with a green arrow pointing to it from the right.

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.			

The screenshot shows the 'Introduction' page for the 'AWS General Immersion Day'. The left sidebar is identical to the previous screenshot. The main content area has a blue header with 'Event in progress' and a timer. Below this is the 'Event dashboard' title and the event name. The main content area features a large graphic of a helmet with the text 'IMMERSION DAYS' below it. Below the graphic is a paragraph of text: '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.' At the bottom right, there are 'Previous' and 'Next' buttons.

# Thank you!

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



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