AWS State, Local, and Education Learning Days

Chicago

aws Learning Days
State, Local, and Education

Detect, investigate, and respond to security incidents

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aws Learning Days
State, Local, and Education

Agenda

- Common challenges customers face
- Amazon Web Services (AWS) services that can help
- Review goals and objectives of the workshop
- Let’s get building

Common challenges customers face

Developers want to build fast

Developers don't want a lot of resistance

Security is everyone's job

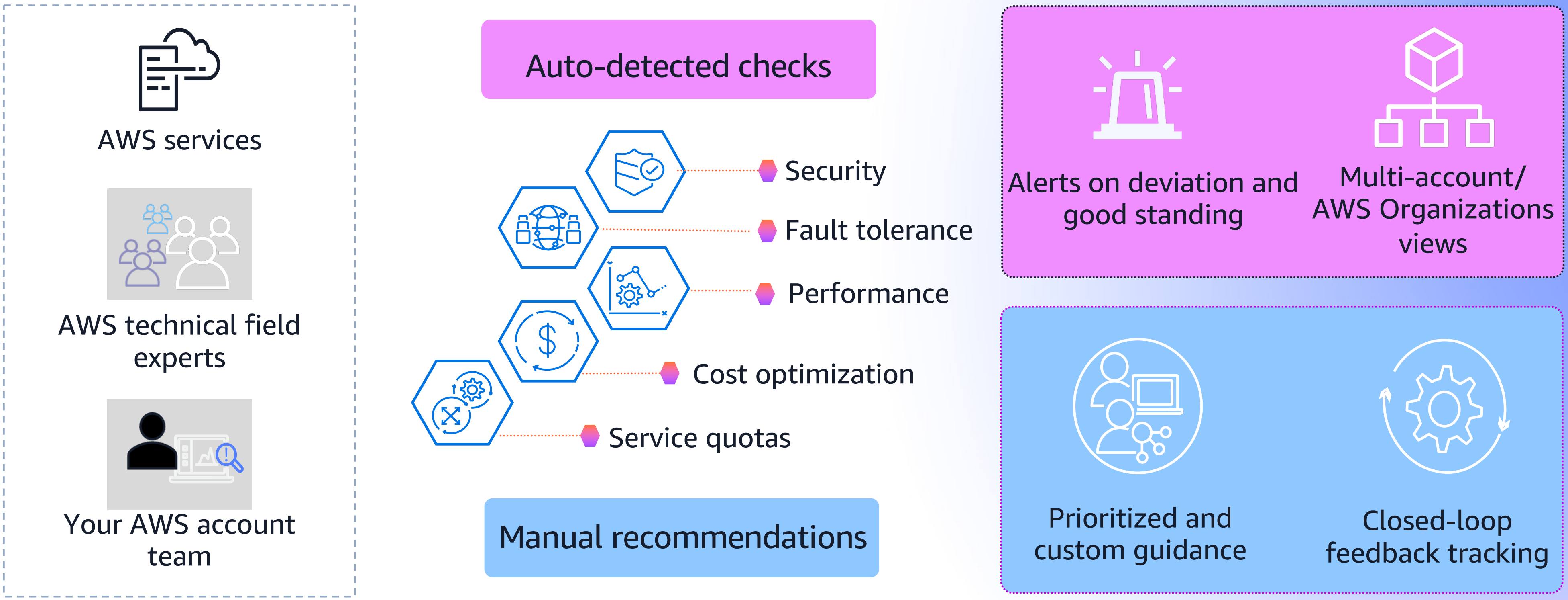
Mistakes happen, fix it quickly

AWS helps customers go fast and be secure

AWS Trusted Advisor

About AWS Trusted Advisor

HOME OF AWS BEST PRACTICES



AWS services

AWS technical field experts

Your AWS account team

Auto-detected checks

- Security
- Fault tolerance
- Performance
- Cost optimization
- Service quotas

Manual recommendations

Alerts on deviation and good standing

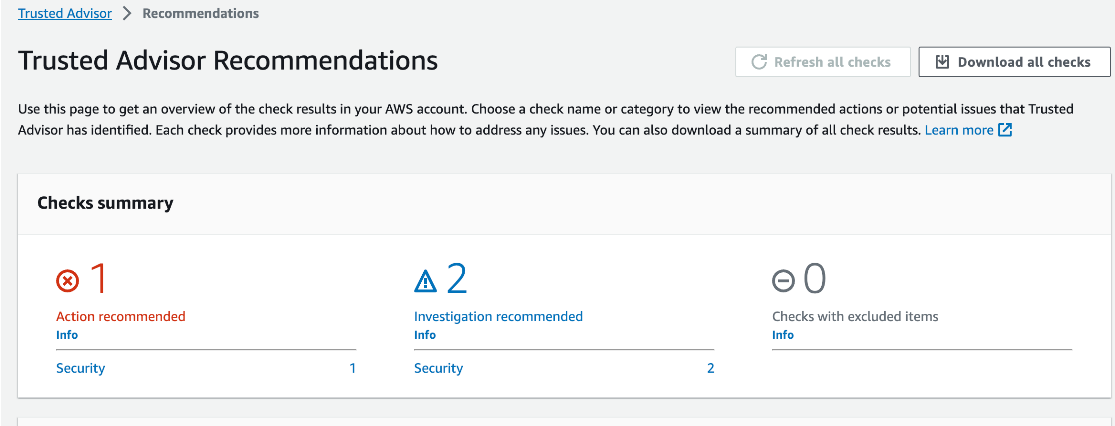
Multi-account/ AWS Organizations views

Prioritized and custom guidance

Closed-loop feedback tracking

AWS Trusted Advisor – Core checks and recommendations (available at no cost)

- Amazon S3 bucket permissions
- Security groups – specific ports Unrestricted
- AWS IAM use
- MFA on root account
- Amazon Elastic Block Store (EBS) public snapshots
- Amazon RDS public snapshots
- Service limits



Trusted Advisor > Recommendations

Trusted Advisor Recommendations

Use this page to get an overview of the check results in your AWS account. Choose a check name or category to view the recommended actions or potential issues that Trusted Advisor has identified. Each check provides more information about how to address any issues. You can also download a summary of all check results. Learn more

Checks summary

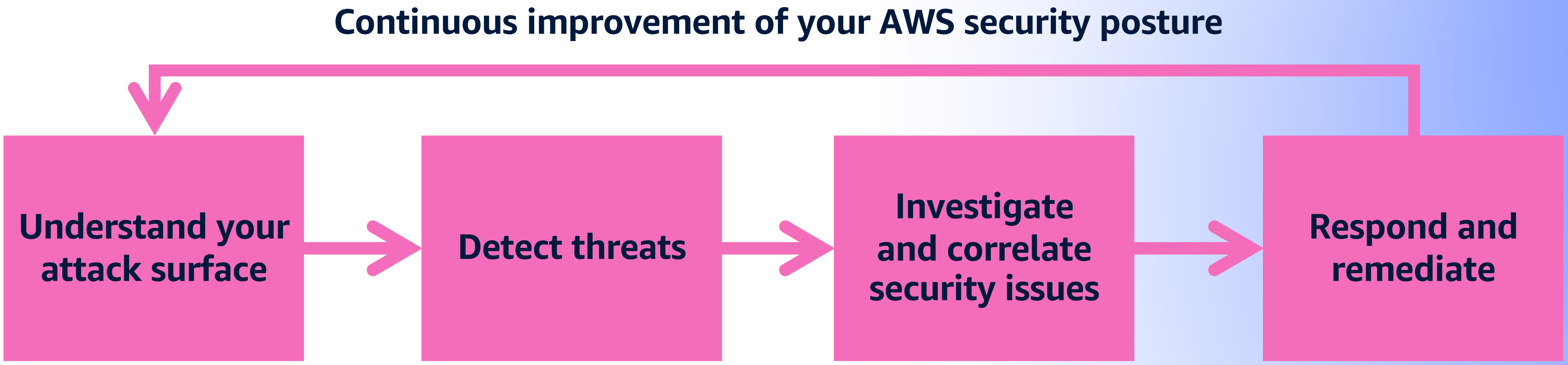
⊗ 1
Action recommended
Info
Security 1

⚠ 2
Investigation recommended
Info
Security 2

⊖ 0
Checks with excluded items
Info

AWS security services

Continuous security monitoring for AWS



Continuous improvement of your AWS security posture

Understand your attack surface

Detect threats

Investigate and correlate security issues

Respond and remediate

AWS security, identity, and compliance solutions

Identity and Access Management

- AWS Identity and Access Management (IAM)
- AWS IAM Identity Center
- AWS Organizations
- AWS Directory Service
- Amazon Cognito
- AWS Resource Access Manager
- Amazon Verified Permissions

Detective controls

- AWS Security Hub
- Amazon GuardDuty
- Amazon Security Lake
- Amazon Inspector
- Amazon CloudWatch
- AWS Config
- AWS CloudTrail
- VPC Flow Logs
- AWS IoT Device Defender

Infrastructure protection

- AWS Firewall Manager
- AWS Network Firewall
- AWS Shield
- AWS WAF
- Amazon VPC
- AWS PrivateLink
- AWS Systems Manager
- AWS Verified Access

Data protection

- Amazon Macie
- AWS Key Management Service (KMS)
- AWS CloudHSM
- AWS Certificate Manager
- AWS Private CA
- AWS Secrets Manager
- AWS VPN
- Server-Side Encryption

Incident response

- Amazon Detective
- Amazon EventBridge
- AWS Backup
- AWS Security Hub
- AWS Elastic Disaster Recovery

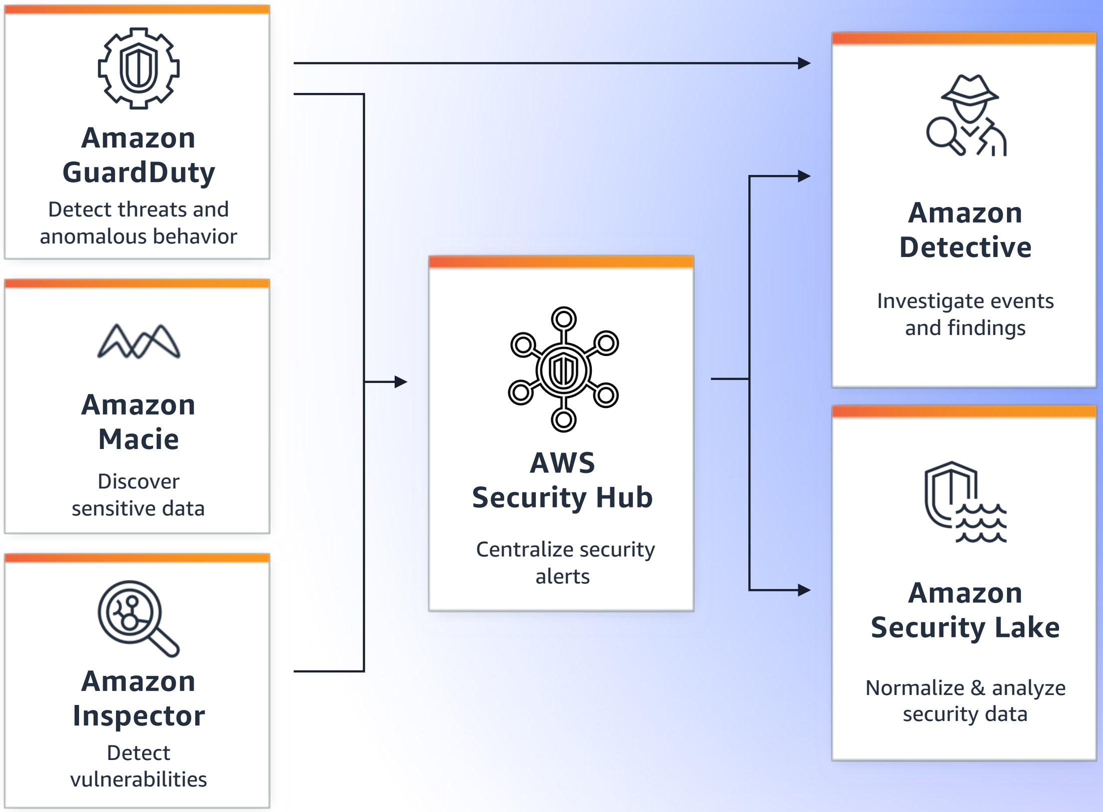
Compliance

- AWS Artifact
- AWS Audit Manager

Threat detection, monitoring, and response

Security monitoring and threat detection

Integrated with AWS workloads in an AWS account, along with identities and network activity



Amazon GuardDuty
Detect threats and anomalous behavior

Amazon Macie
Discover sensitive data

Amazon Inspector
Detect vulnerabilities

AWS Security Hub
Centralize security alerts

Amazon Detective
Investigate events and findings

Amazon Security Lake
Normalize & analyze security data

What is Amazon GuardDuty?

Amazon GuardDuty is a threat detection service that uses **machine learning**, anomaly detection, and **integrated threat intelligence** to identify and prioritize potential threats

- One-step activation
- Continuous monitoring of AWS accounts and resources
- Global coverage with regional results
- Detect known and unknown threats
- Enterprise-wide consolidation and management

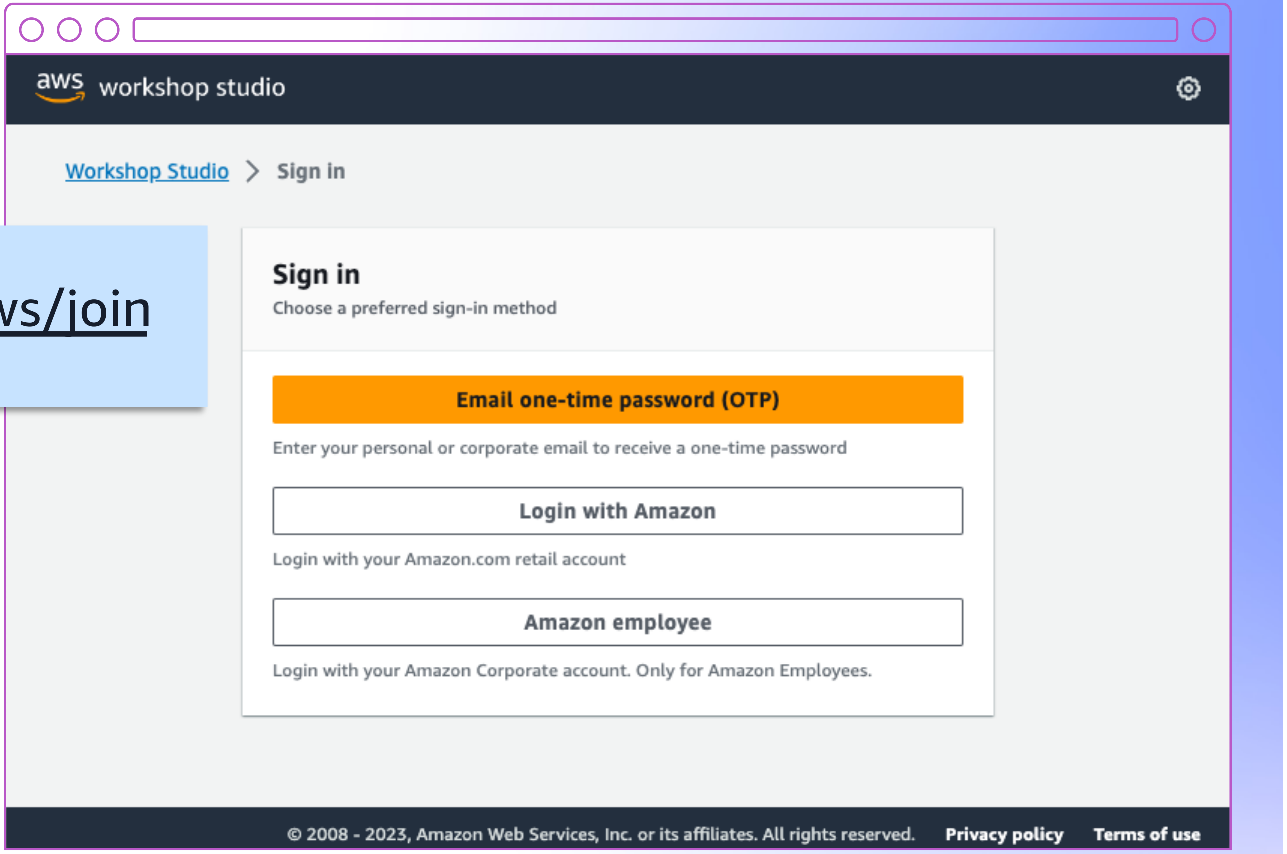
Your tasks today

- Three modules – as you progress, it gets deeper into the AWS services
- By default, common instructions are hidden but you can expand sections as needed
- No need to rush finishing all modules, the core objective is to learn and understand
- If you need us, raise your hand or just call upon us

Let’s build …

Step 1: Sign in using your preferred method

https://catalog.workshops.aws/join



Workshop Studio > Sign in

Sign in

Choose a preferred sign-in method

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

Login with your Amazon.com retail account

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

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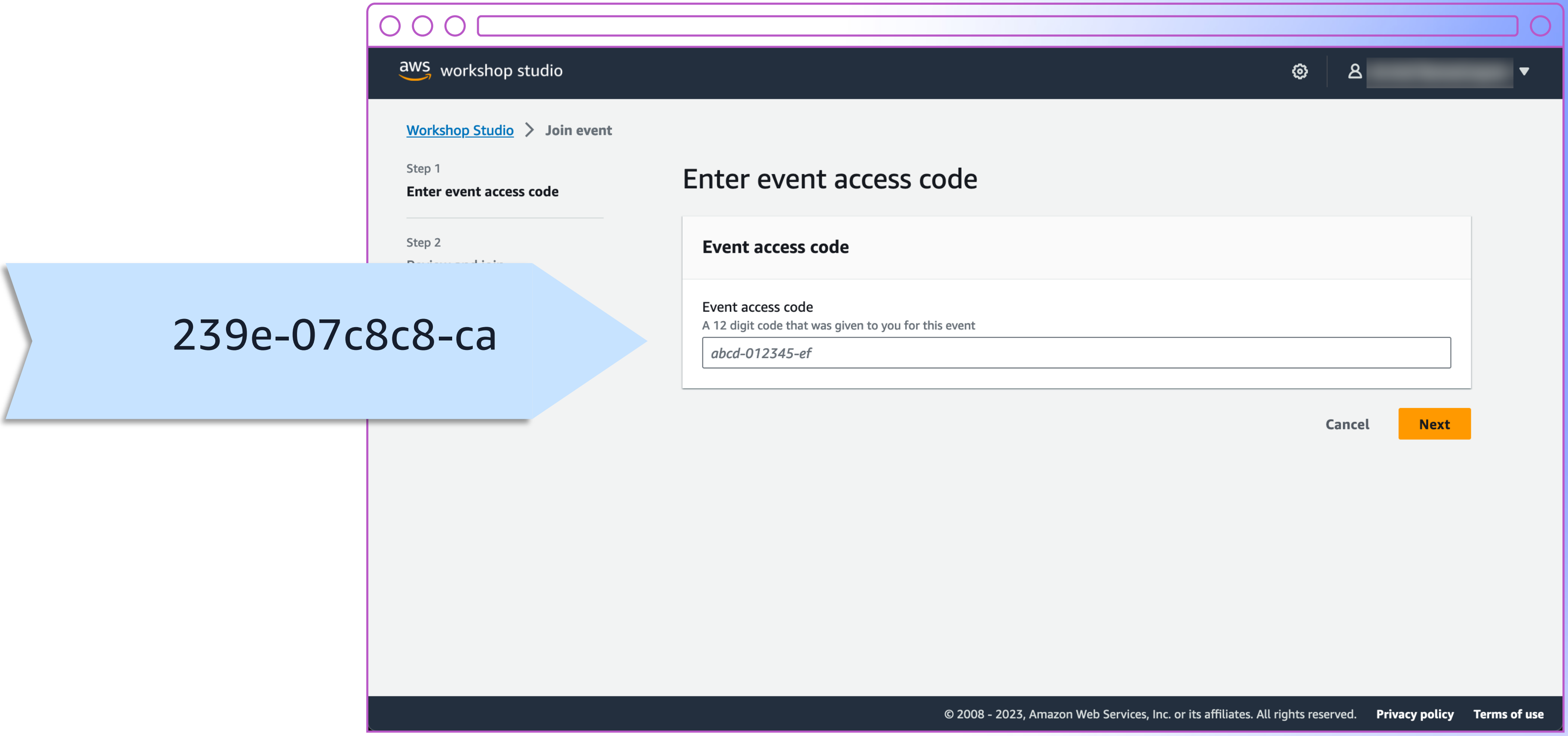
Step 2: Enter the event access code



239e-07c8c8-ca

Workshop Studio > Join event

Step 1

Enter event access code

Step 2

Review and join

Enter event access code

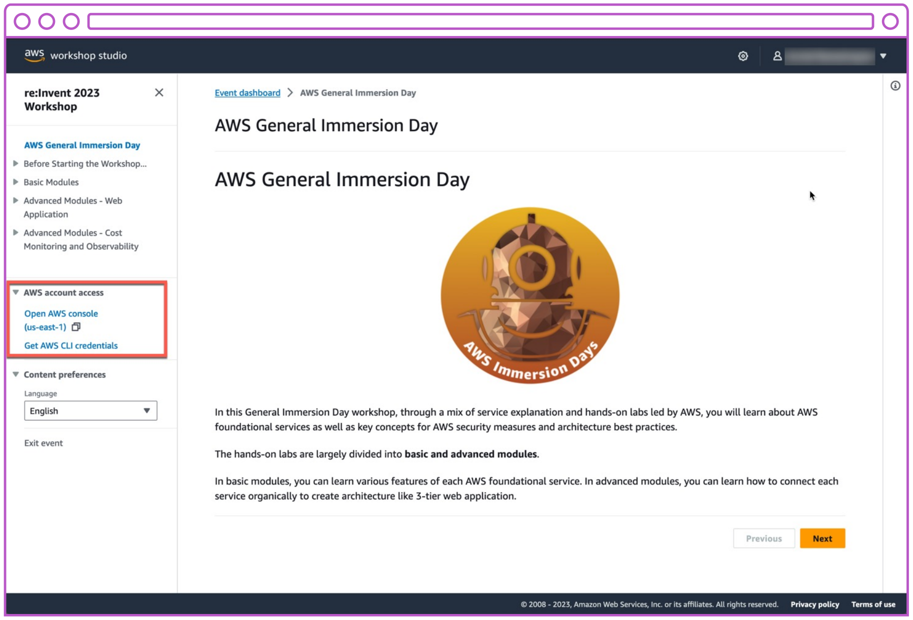
Event access code

Event access code

A 12 digit code that was given to you for this event

abcd-012345-ef

Step 3: Access AWS account


aws workshop studio
[redacted]
re:Invent 2023 Workshop
AWS General Immersion Day
Before Starting the Workshop...
Basic Modules
Advanced Modules - Web Application
Advanced Modules - Cost Monitoring and Observability
AWS account access
Open AWS console (us-east-1)
Get AWS CLI credentials
Content preferences
Language
English
Exit event
Event dashboard > AWS General Immersion Day
AWS Immersion Days
Previous
Next
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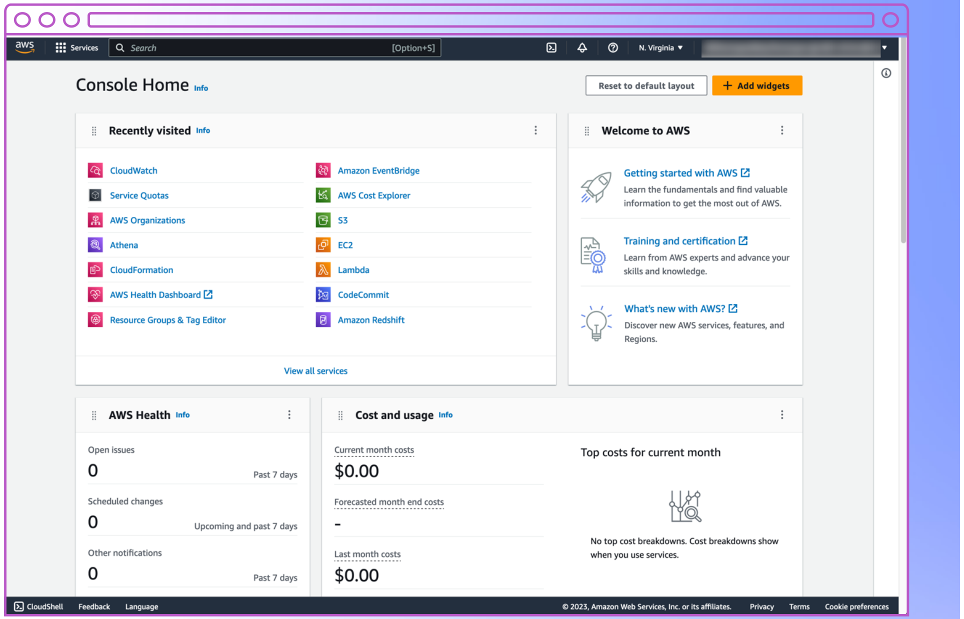
AWS General Immersion Day

AWS General Immersion Day

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.



Getting started with AWS
Learn the fundamentals and find valuable information to get the most out of AWS.

Training and certification
Learn from AWS experts and advance your skills and knowledge.

What's new with AWS?
Discover new AWS services, features, and Regions.

Open issues: 0 (Past 7 days)

Scheduled changes: 0 (Upcoming and past 7 days)

Other notifications: 0 (Past 7 days)

Current month costs: $0.00

Forecasted month end costs: -

Last month costs: $0.00

No top cost breakdowns. Cost breakdowns show when you use services.

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

Please Provide Your Feedback

Step 1: Application modernization, security, and governance
Step 2: Select Detect, investigate and respond to security incidents

Thank you!

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Please complete the survey for this session

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