

# **AWS State, Local, and Education Learning Days**

North Carolina

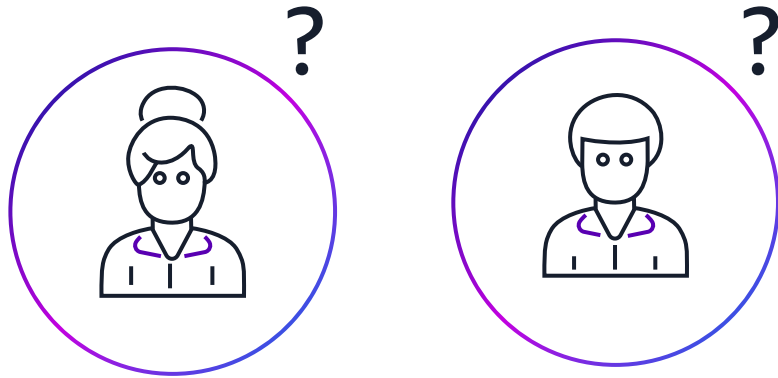


# Achieve near real-time data analytics with Zero-ETL on AWS

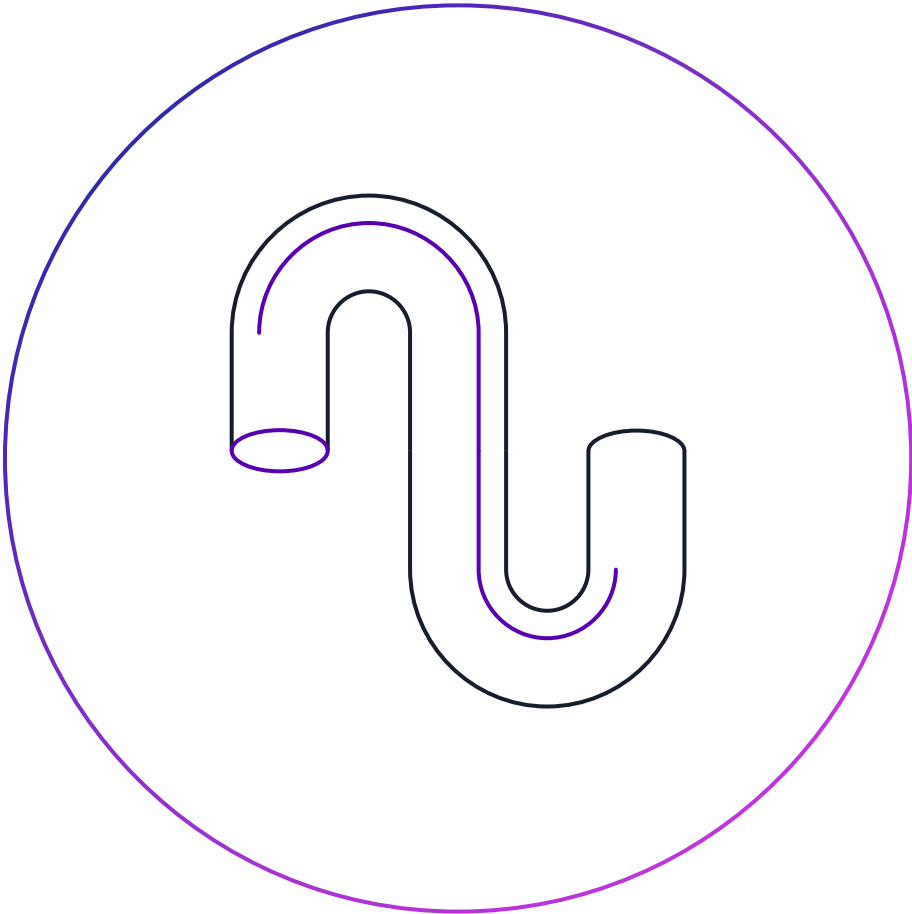
Greg Grieff

Sr. Solutions Architect, AWS  
ggrieff@amazon.com

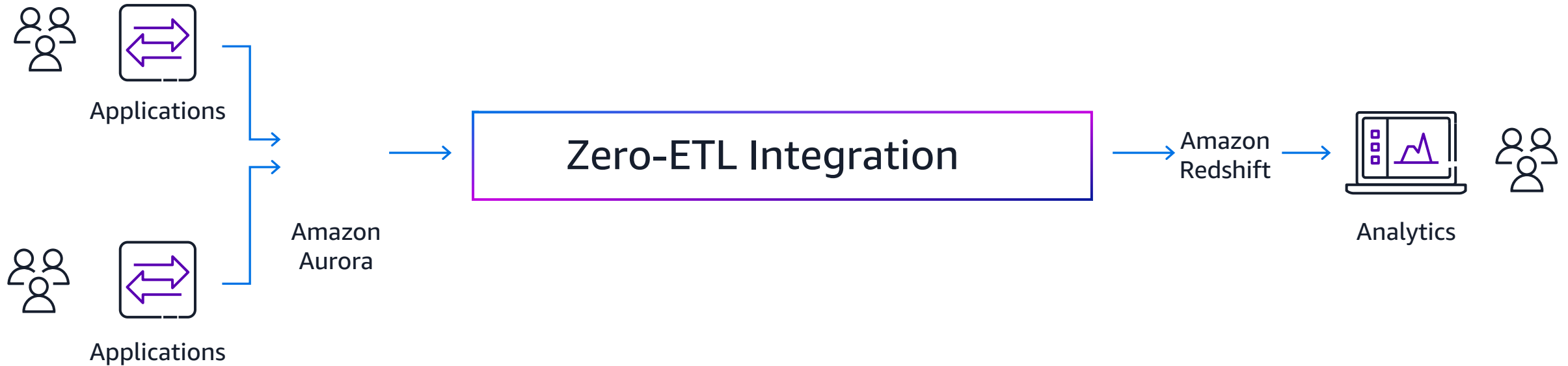
By a show of hands...who needs to  
**analyze data** from one or more  
**operational databases?**



By a show of hands...who  
builds, operates, or maintains  
data pipelines?



# Amazon Aurora zero-ETL integration with Amazon Redshift



A **simple** and **secure** way to enable **near real-time analytics** on **petabytes of transactional data**

# Let's build a solution!

# Getting started with this workshop



You have access to an AWS account with any optional pre-provisioned infrastructure and IAM policies needed to complete this workshop.



The AWS account is only available for the duration of this workshop. **You will lose access to the account once the workshop is complete.**

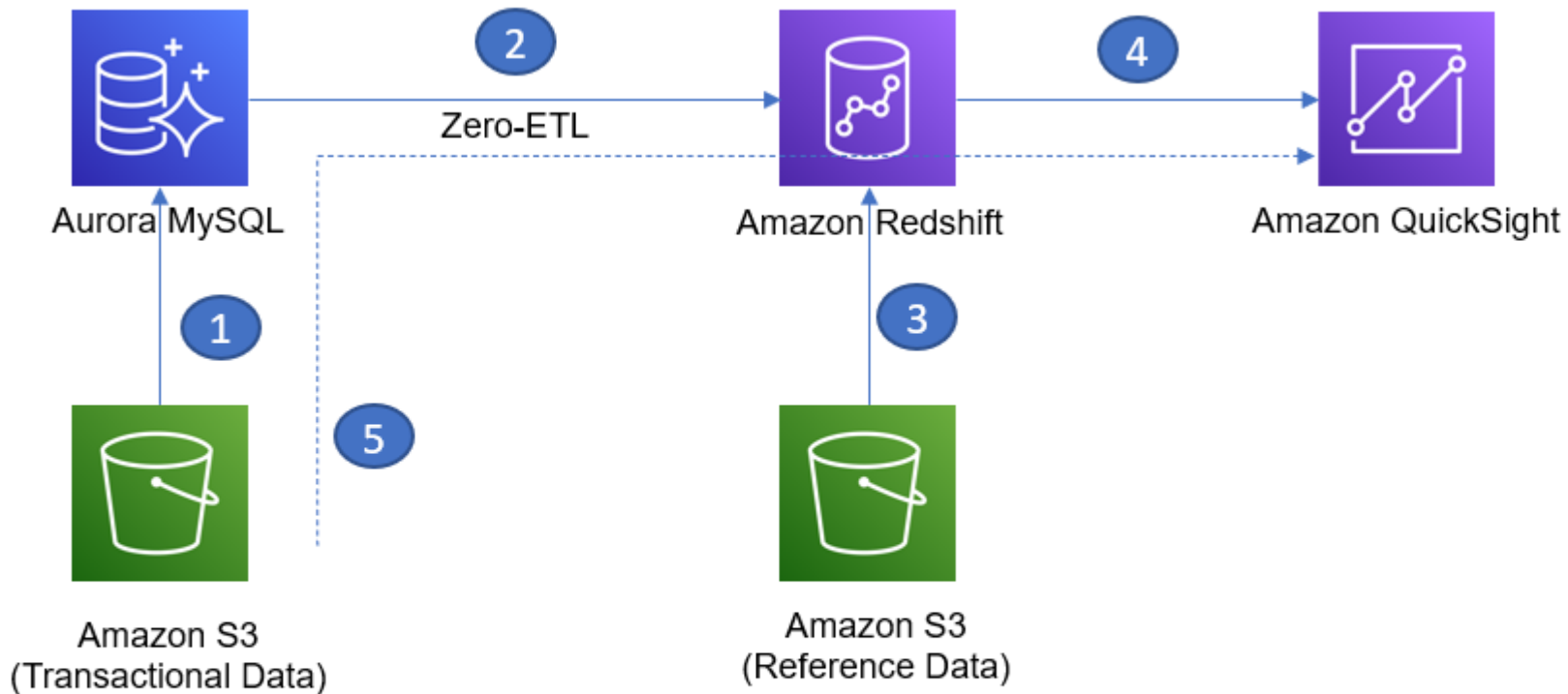


Any optional pre-provisioned infrastructure is deployed to a specific AWS Region. Make sure that you are working in this Region; other Regions are blocked.



Review the terms and conditions of the event. **Do not upload any personal or confidential information to the account.**

# Workshop Architecture



- 1 Load transactional data
- 2 Setup Zero ETL Integration with data filters
- 3 Load analytics data sets
- 4 Create analytics report
- 5 Load new transactions to realize near real time analytics



# Step 1: Sign in using your preferred method

<https://zero-etl.ggrieff.com/>

AWS State, Local, and Education Learning Days - Raleigh, NC

Workshop: Achieve near real-time data analytics with Zero-ETL on AWS

Workshop Access

- [Click here to join the Workshop Event](#)
- Event access code: TBD (if needed. Use the link above for one-click access)

Instructions for this Event

- Follow along with the instructor's presentation. An Aurora RDS database and Redshift cluster have been pre-created for you.

```
graph LR; S3[Amazon S3 Transactional Data] -- 1 --> Aurora[Aurora MySQL]; Aurora -- 2 --> Redshift[Amazon Redshift]; Redshift -- 3 --> QuickSight[Amazon QuickSight]; S3 -- 5 --> Redshift; S3 -- 4 --> QuickSight
```

- 1 Load transactional data into Aurora MySQL
- 2 Setup Zero ETL in Amazon Redshift with data filters
- 3 Load analytics data into Amazon Redshift
- 4 Create analytics reports in Amazon QuickSight
- 5 Load new transactional data into Amazon Redshift to realize near real time analytics

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**

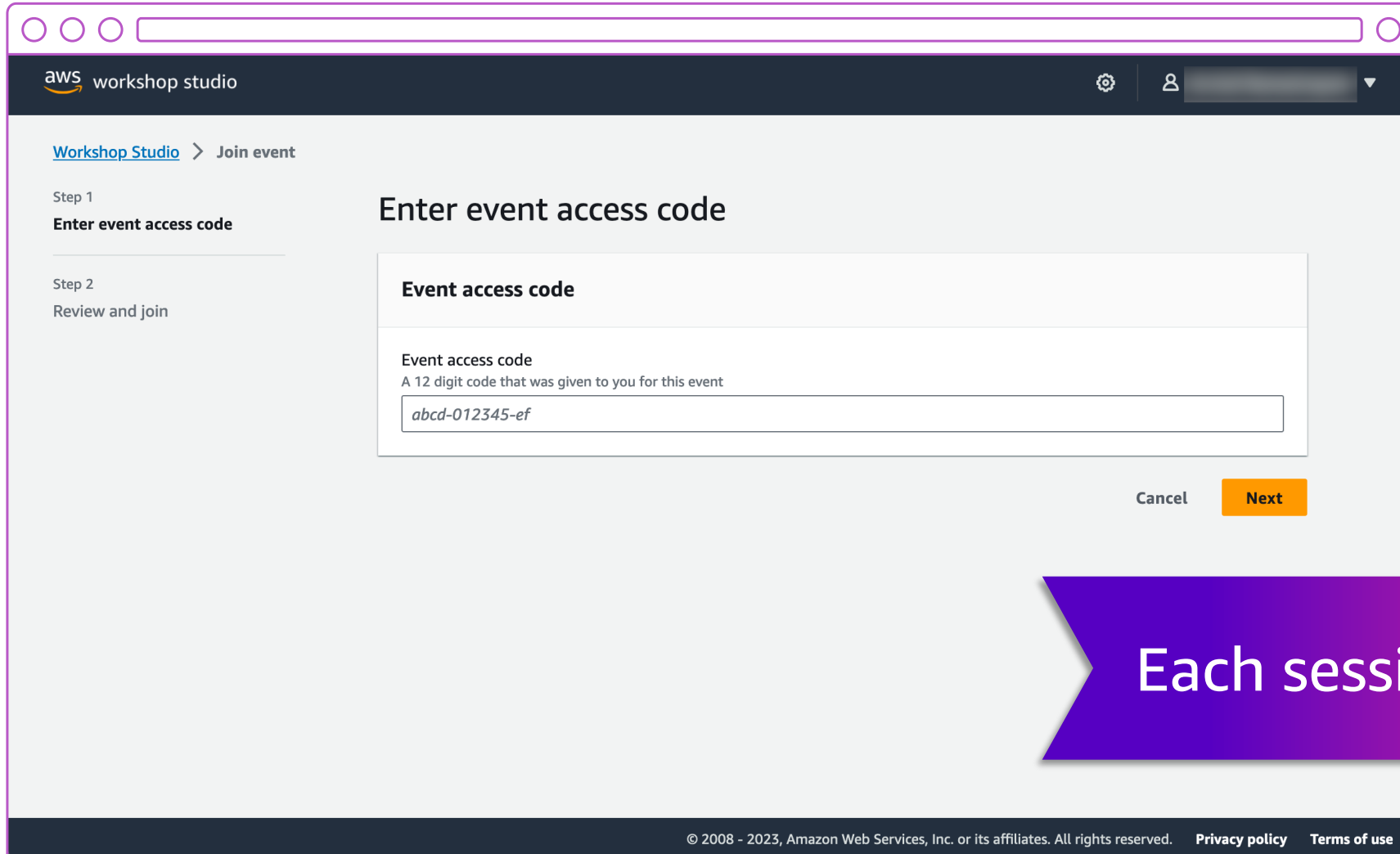
Login with your Amazon.com retail account

**Amazon employee**

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

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# Step 2: Enter the event access code



The screenshot shows the AWS Workshop Studio interface. At the top, there's a navigation bar with the AWS logo and 'workshop studio' text. Below this, a breadcrumb trail shows 'Workshop Studio > Join event'. The main content area is titled 'Enter event access code'. On the left, a sidebar lists 'Step 1: Enter event access code' (which is the current step) and 'Step 2: Review and join'. The main form area has a title 'Event access code' and a description: 'Event access code: A 12 digit code that was given to you for this event'. Below this is a text input field containing the code 'abcd-012345-ef'. At the bottom right of the form, there are two buttons: 'Cancel' and 'Next'.

aws workshop studio

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

Cancel Next

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Each session has a unique code

# Step 3: Review terms and join event

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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
re:Invent 2023 Workshop	8/28/2023 10:59 AM	12 hours	100

Description  
Workshop at re:Invent 2023

### Terms and Conditions

Read and accept before joining the event

Read and accept before joining the event:

- By using AWS Workshop Studio for the relevant event, You agree to [the AWS Event Terms and Conditions](#) and the [AWS Acceptable Use Policy](#).
- If You are under 18 years old, You may participate in the relevant event, using AWS Workshop Studio: (a) if you are at least the minimum age below based on the country or region in which you reside, and (b) with the involvement of a parent, guardian or educator.

Country or region	Minimum age
All countries or regions not listed below (including United States, Brazil, UK, and India)	13
China, Republic of Korea (South Korea)	14
Australia	15
Japan, Switzerland, Vietnam, and countries in the European Economic Area	16
Azerbaijan, Bolivia, Colombia, Dominican Republic, Indonesia, Lebanon, Malaysia, Mexico, Montenegro, Nepal, Philippines, Thailand, Turkey, and countries in Africa	18

- You acknowledge and agree that You are using an AWS-owned account that You will be only be able to access during the relevant event. You have no ownership rights over this AWS-owned account.
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- Your use of AWS Workshop Studio will comply with these terms and all applicable laws. If You fail to comply with any of these terms, Your access to AWS Workshop Studio may be immediately terminated, without notice to You.

☒ I agree with the Terms and Conditions

Cancel

Previous

Join event

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# Thank you!

**Greg Grief**

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ggrieff@amazon.com

**Please complete the survey  
for this session**



Track Name: Data and Analytics  
Session Name: Zero-ETL on AWS