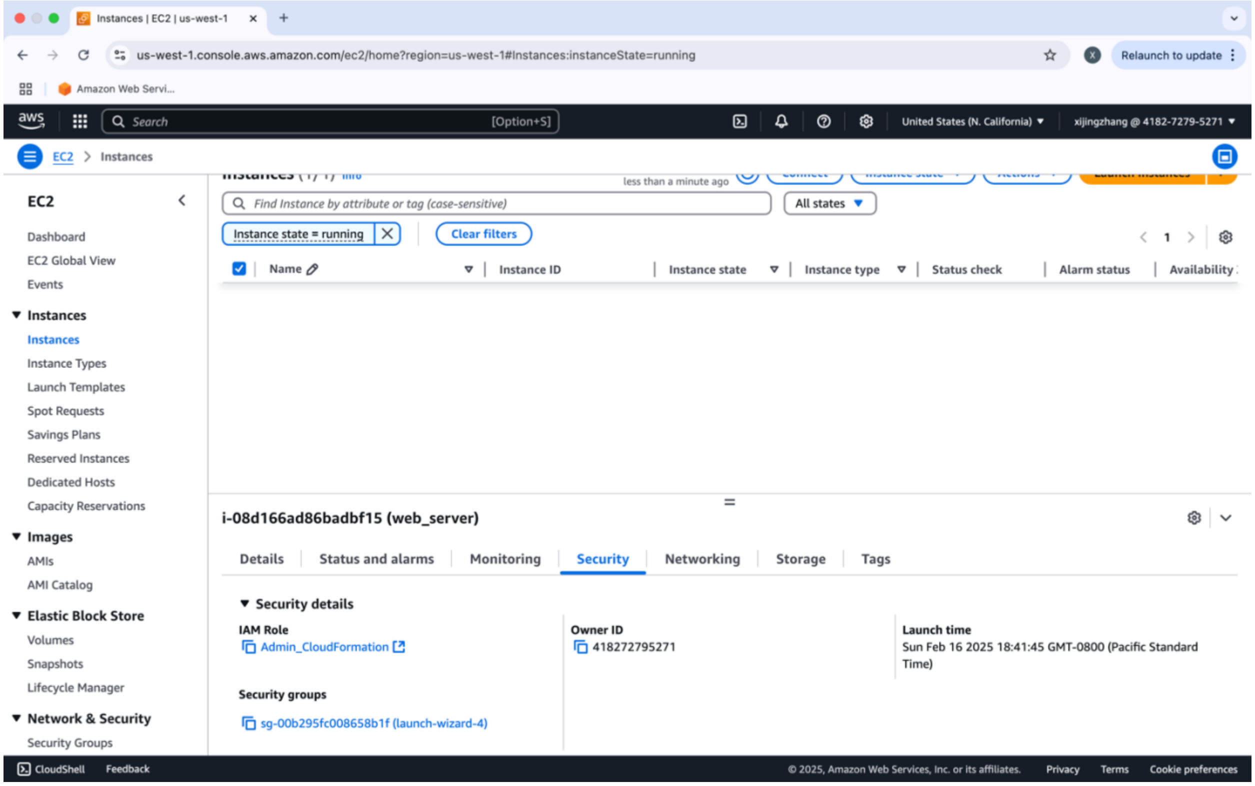
[Screen shot [#1]]



Instances | EC2 | us-west-1

us-west-1.console.aws.amazon.com/ec2/home?region=us-west-1#Instances:instanceState=running

United States (N. California)

xijingzhang @ 4182-7279-5271

EC2 > Instances

Find Instance by attribute or tag (case-sensitive)

All states

Instance state = running

i-08d166ad86badbf15 (web_server)

Security details

IAM Role
Admin_CloudFormation

Owner ID
418272795271

Launch time
Sun Feb 16 2025 18:41:45 GMT-0800 (Pacific Standard Time)

Security groups
sg-00b295fc008658b1f (launch-wizard-4)

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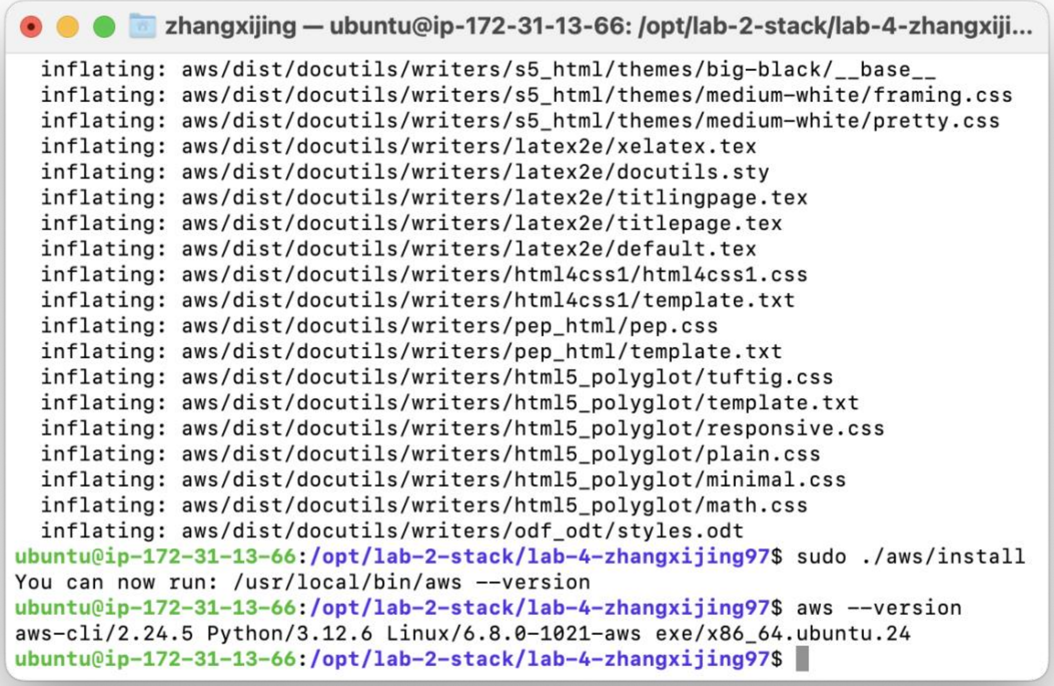
Screenshot #1: IAM Role Assignment to EC2 Instance

- This screenshot should display the EC2 instance settings page where the IAM role is attached. It demonstrates that the instance has the necessary permissions to interact with AWS services like S3, EC2, and CloudFormation. This step is essential for granting your EC2 instance access to required AWS resources.

[Screen shot [#2]



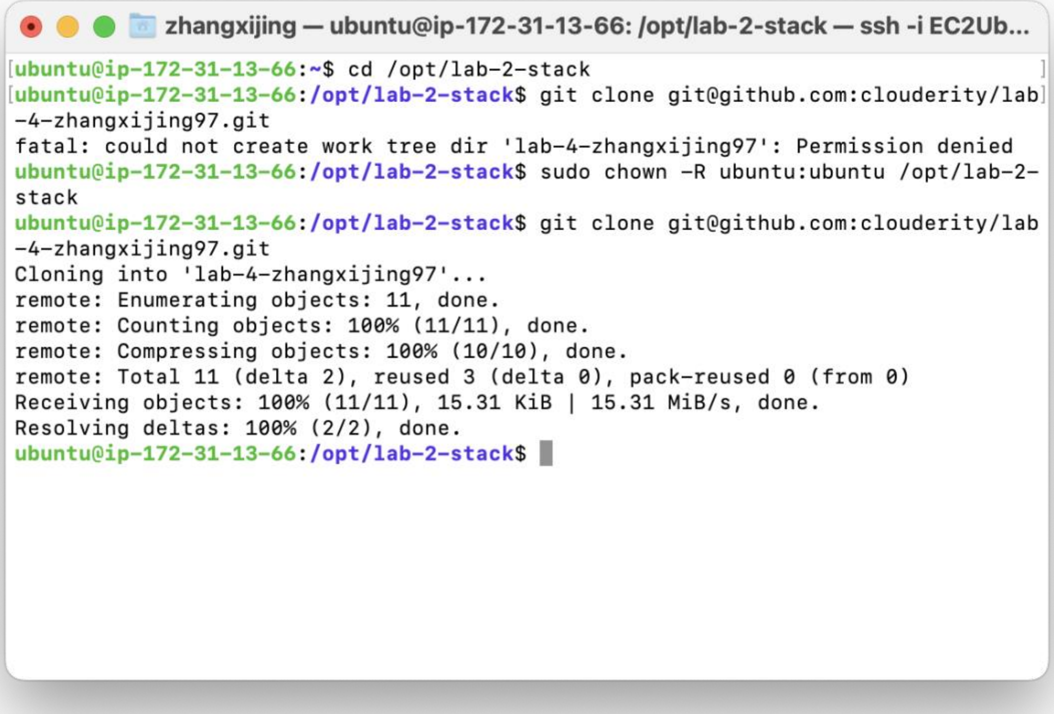
zhangxijing — ubuntu@ip-172-31-13-66: /opt/lab-2-stack/lab-4-zhangxiji...

```
  inflating: aws/dist/docutils/writers/s5_html/themes/big-black/__base__
  inflating: aws/dist/docutils/writers/s5_html/themes/medium-white/framing.css
  inflating: aws/dist/docutils/writers/s5_html/themes/medium-white/pretty.css
  inflating: aws/dist/docutils/writers/latex2e/xelatex.tex
  inflating: aws/dist/docutils/writers/latex2e/docutils.sty
  inflating: aws/dist/docutils/writers/latex2e/titlingpage.tex
  inflating: aws/dist/docutils/writers/latex2e/titlepage.tex
  inflating: aws/dist/docutils/writers/latex2e/default.tex
  inflating: aws/dist/docutils/writers/html4css1/html4css1.css
  inflating: aws/dist/docutils/writers/html4css1/template.txt
  inflating: aws/dist/docutils/writers/pep_html/pep.css
  inflating: aws/dist/docutils/writers/pep_html/template.txt
  inflating: aws/dist/docutils/writers/html5_polyglot/tuftig.css
  inflating: aws/dist/docutils/writers/html5_polyglot/template.txt
  inflating: aws/dist/docutils/writers/html5_polyglot/responsive.css
  inflating: aws/dist/docutils/writers/html5_polyglot/plain.css
  inflating: aws/dist/docutils/writers/html5_polyglot/minimal.css
  inflating: aws/dist/docutils/writers/html5_polyglot/math.css
  inflating: aws/dist/docutils/writers/odf_odt/styles.odt
ubuntu@ip-172-31-13-66:/opt/lab-2-stack/lab-4-zhangxijing97$ sudo ./aws/install
You can now run: /usr/local/bin/aws --version
ubuntu@ip-172-31-13-66:/opt/lab-2-stack/lab-4-zhangxijing97$ aws --version
aws-cli/2.24.5 Python/3.12.6 Linux/6.8.0-1021-aws exe/x86_64.ubuntu.24
ubuntu@ip-172-31-13-66:/opt/lab-2-stack/lab-4-zhangxijing97$ 
```

Screenshot #2: AWS CLI Installation Verification

- Capture the terminal after running the command `$ aws --version`. This confirms the successful installation of the AWS CLI on your EC2 instance, which is necessary for managing AWS services directly from the command line.

[Screen shot [#3]

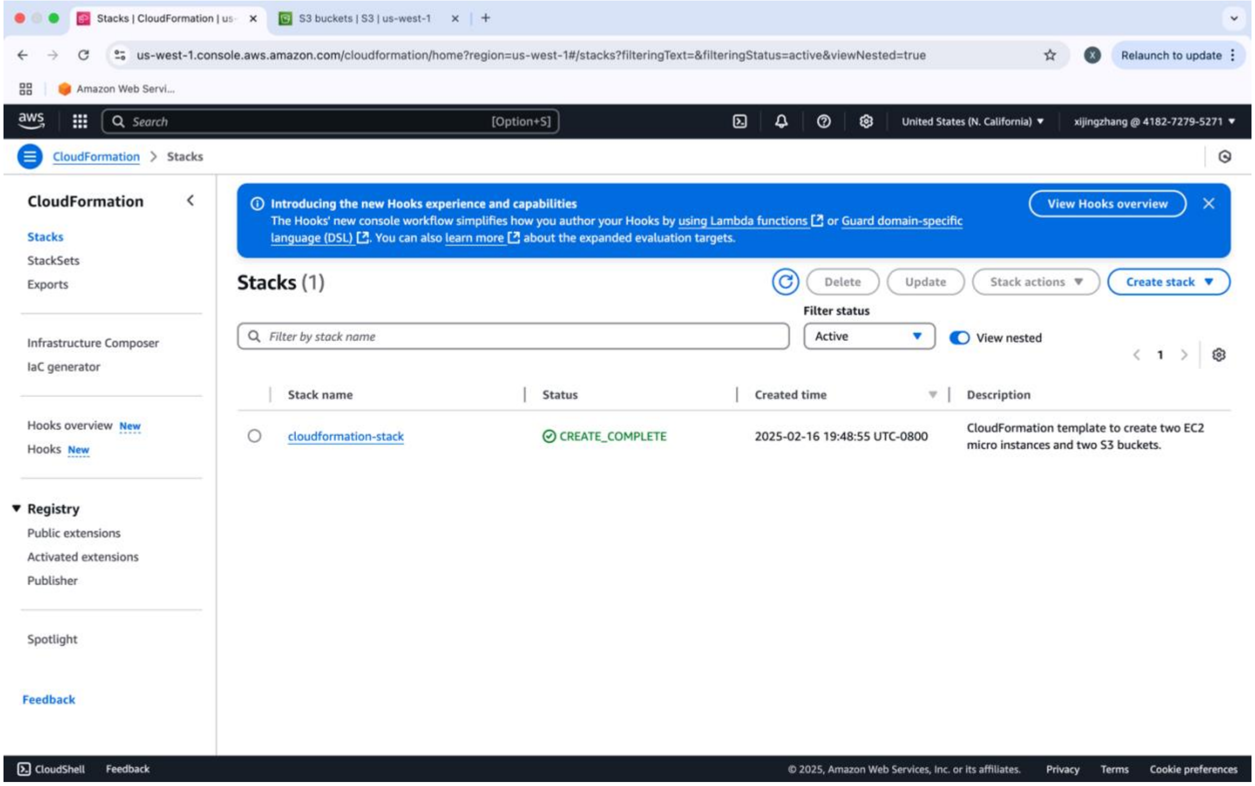

zhangxijing — ubuntu@ip-172-31-13-66: /opt/lab-2-stack — ssh -i EC2Ub...

```
ubuntu@ip-172-31-13-66:~$ cd /opt/lab-2-stack
ubuntu@ip-172-31-13-66:/opt/lab-2-stack$ git clone git@github.com:clouderity/lab
-4-zhangxijing97.git
fatal: could not create work tree dir 'lab-4-zhangxijing97': Permission denied
ubuntu@ip-172-31-13-66:/opt/lab-2-stack$ sudo chown -R ubuntu:ubuntu /opt/lab-2-
stack
ubuntu@ip-172-31-13-66:/opt/lab-2-stack$ git clone git@github.com:clouderity/lab
-4-zhangxijing97.git
Cloning into 'lab-4-zhangxijing97'...
remote: Enumerating objects: 11, done.
remote: Counting objects: 100% (11/11), done.
remote: Compressing objects: 100% (10/10), done.
remote: Total 11 (delta 2), reused 3 (delta 0), pack-reused 0 (from 0)
Receiving objects: 100% (11/11), 15.31 KiB | 15.31 MiB/s, done.
Resolving deltas: 100% (2/2), done.
ubuntu@ip-172-31-13-66:/opt/lab-2-stack$
```

Screenshot #3: Repository Cloning Verification

- This screenshot should display the terminal output showing the creation of the `/opt/lab-2-stack` directory, navigating into it, and successfully cloning the GitHub repository using SSH. This ensures that your code repository has been set up correctly on the EC2 instance.

[Screen shot [#4]



us-west-1.console.aws.amazon.com/cloudformation/home?region=us-west-1#/stacks?filteringText=&filteringStatus=active&viewNested=true

Introducing the new Hooks experience and capabilities

The Hooks' new console workflow simplifies how you author your Hooks by using Lambda functions or Guard domain-specific language (DSL). You can also learn more about the expanded evaluation targets.

Stacks (1)

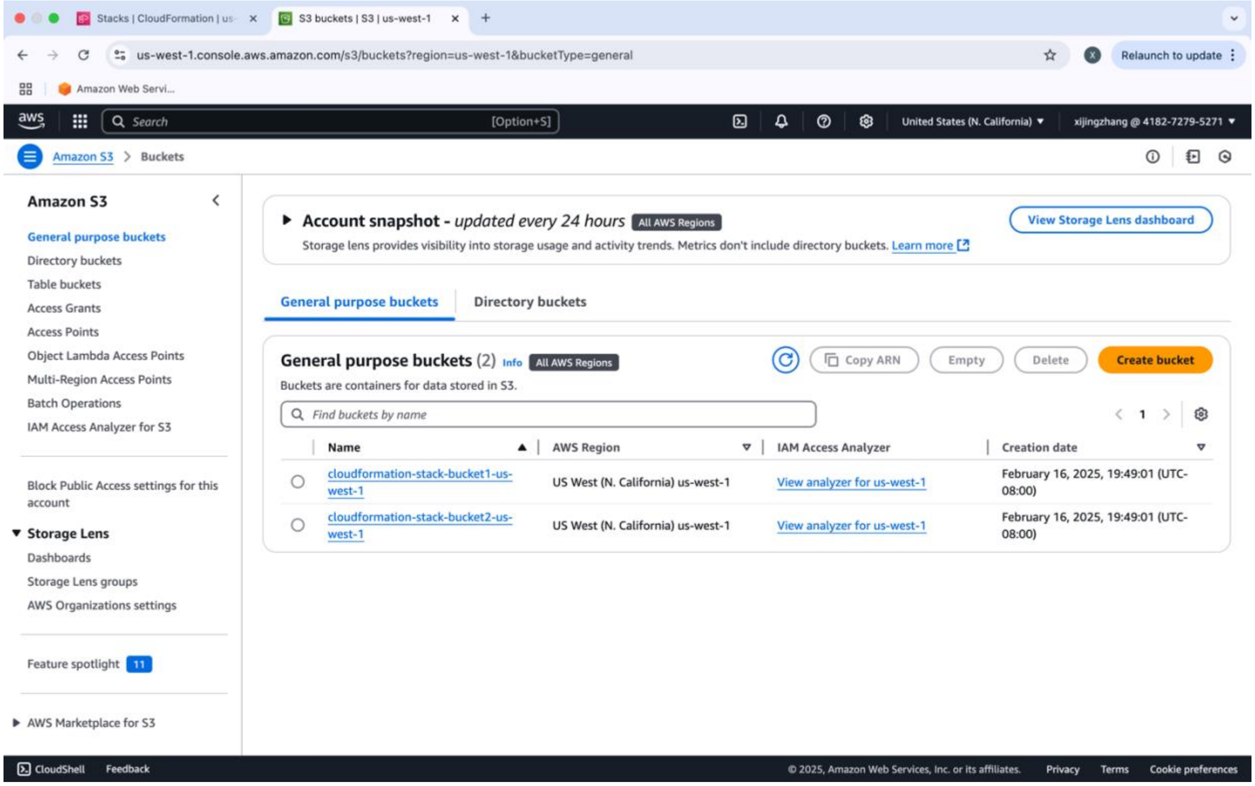
Filter status: Active

	Stack name	Status	Created time	Description
○	cloudformation-stack	✓ CREATE_COMPLETE	2025-02-16 19:48:55 UTC-0800	CloudFormation template to create two EC2 micro instances and two S3 buckets.

Screenshot #4: CloudFormation Stack Creation

- Capture the AWS CloudFormation dashboard displaying the newly created stack with a status of "CREATE_COMPLETE." This confirms that the deployment script ran successfully and provisioned the AWS resources defined in your CloudFormation template.

[Screen shot [#5]



us-west-1.console.aws.amazon.com/s3/buckets?region=us-west-1&bucketType=general

▶ Account snapshot - *updated every 24 hours* All AWS Regions

Storage lens provides visibility into storage usage and activity trends. Metrics don't include directory buckets. Learn more

General purpose buckets (2) Info All AWS Regions

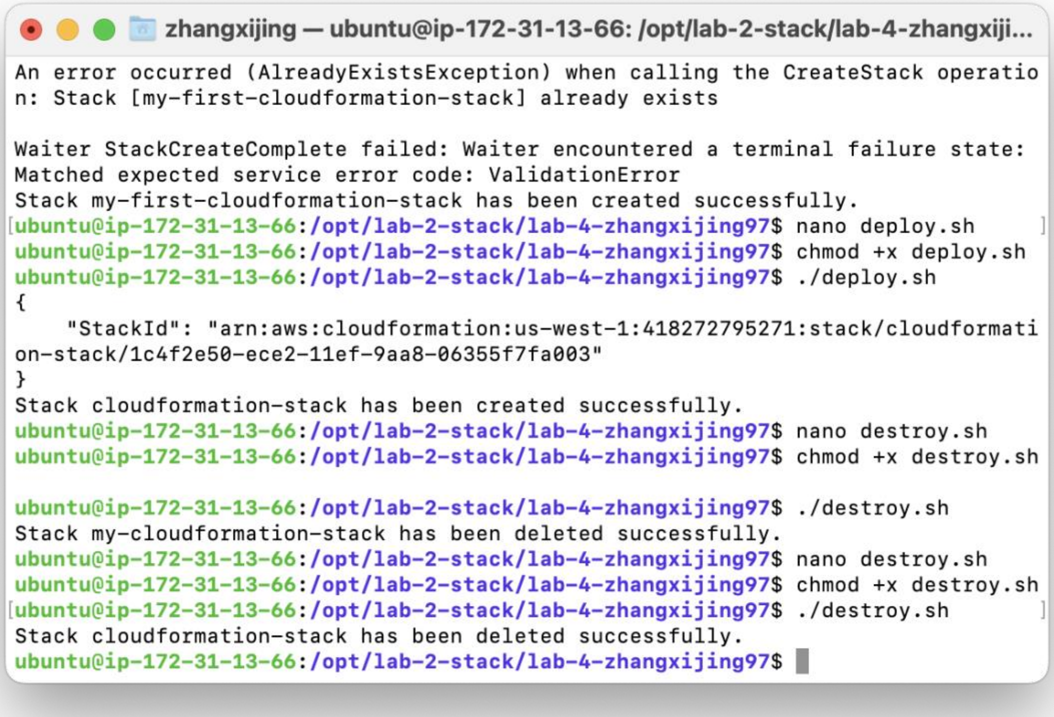
Buckets are containers for data stored in S3.

	Name	AWS Region	IAM Access Analyzer	Creation date
○	cloudformation-stack-bucket1-us-west-1	US West (N. California) us-west-1	View analyzer for us-west-1	February 16, 2025, 19:49:01 (UTC-08:00)
○	cloudformation-stack-bucket2-us-west-1	US West (N. California) us-west-1	View analyzer for us-west-1	February 16, 2025, 19:49:01 (UTC-08:00)

Screenshot #5: Verification of Created S3 Buckets

- This screenshot should showcase the AWS S3 dashboard with the two newly created S3 buckets. It validates that the stack correctly created the resources specified in the CloudFormation template.

[Screen shot [#6]

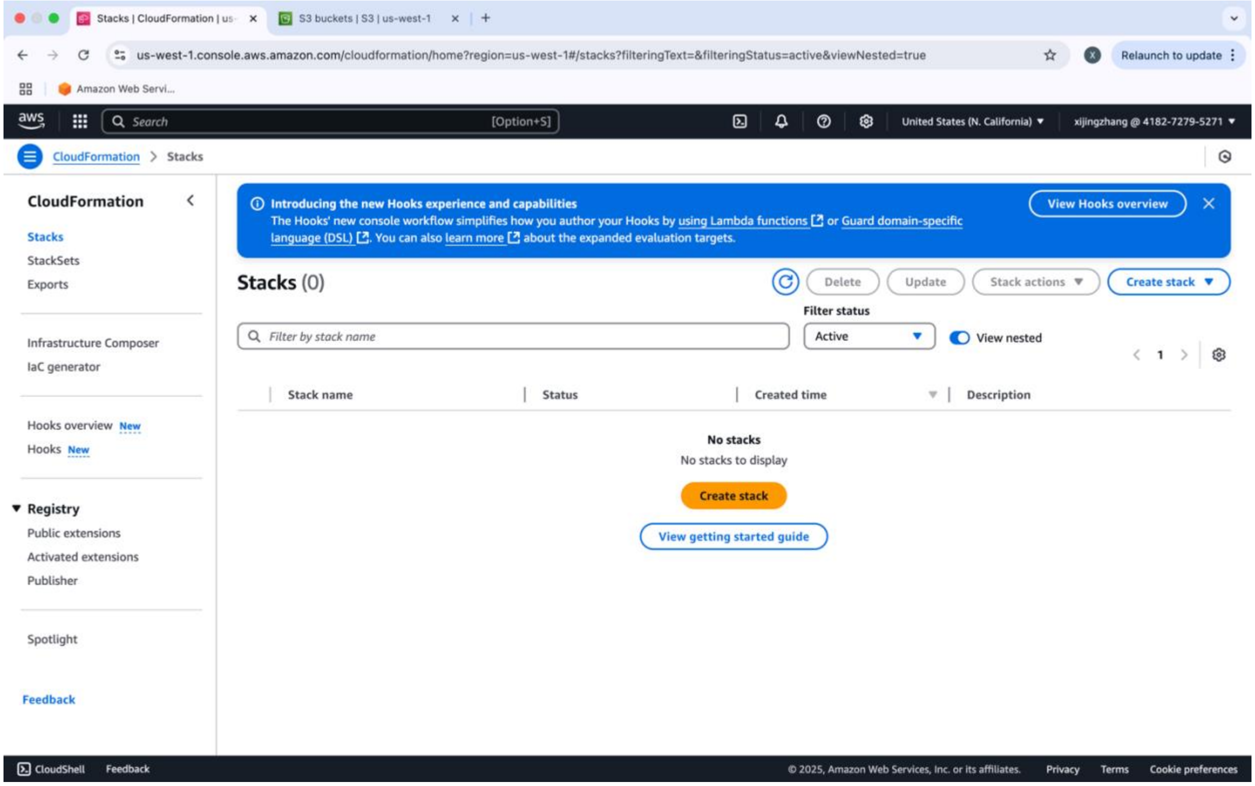

zhangxijing — ubuntu@ip-172-31-13-66: /opt/lab-2-stack/lab-4-zhangxiji...

```
An error occurred (AlreadyExistsException) when calling the CreateStack operatio
n: Stack [my-first-cloudformation-stack] already exists

Waiter StackCreateComplete failed: Waiter encountered a terminal failure state:
Matched expected service error code: ValidationError
Stack my-first-cloudformation-stack has been created successfully.
[ubuntu@ip-172-31-13-66:/opt/lab-2-stack/lab-4-zhangxijing97$ nano deploy.sh     ]
ubuntu@ip-172-31-13-66:/opt/lab-2-stack/lab-4-zhangxijing97$ chmod +x deploy.sh
ubuntu@ip-172-31-13-66:/opt/lab-2-stack/lab-4-zhangxijing97$ ./deploy.sh
{
    "StackId": "arn:aws:cloudformation:us-west-1:418272795271:stack/cloudformati
on-stack/1c4f2e50-ece2-11ef-9aa8-06355f7fa003"
}
Stack cloudformation-stack has been created successfully.
ubuntu@ip-172-31-13-66:/opt/lab-2-stack/lab-4-zhangxijing97$ nano destroy.sh
ubuntu@ip-172-31-13-66:/opt/lab-2-stack/lab-4-zhangxijing97$ chmod +x destroy.sh

ubuntu@ip-172-31-13-66:/opt/lab-2-stack/lab-4-zhangxijing97$ ./destroy.sh
Stack my-cloudformation-stack has been deleted successfully.
ubuntu@ip-172-31-13-66:/opt/lab-2-stack/lab-4-zhangxijing97$ nano destroy.sh
ubuntu@ip-172-31-13-66:/opt/lab-2-stack/lab-4-zhangxijing97$ chmod +x destroy.sh
[ubuntu@ip-172-31-13-66:/opt/lab-2-stack/lab-4-zhangxijing97$ ./destroy.sh       ]
Stack cloudformation-stack has been deleted successfully.
ubuntu@ip-172-31-13-66:/opt/lab-2-stack/lab-4-zhangxijing97$ 
```

Screenshot #6: Destroy Script Execution

- Capture the terminal after running the `$ ./destroy.sh` script. This should display the script's output, confirming that the resources created by the CloudFormation stack are being deleted.

[Screen shot [#7]



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Stacks (0)

Filter status: Active

View nested: on

Stack name	Status	Created time	Description

No stacks

No stacks to display

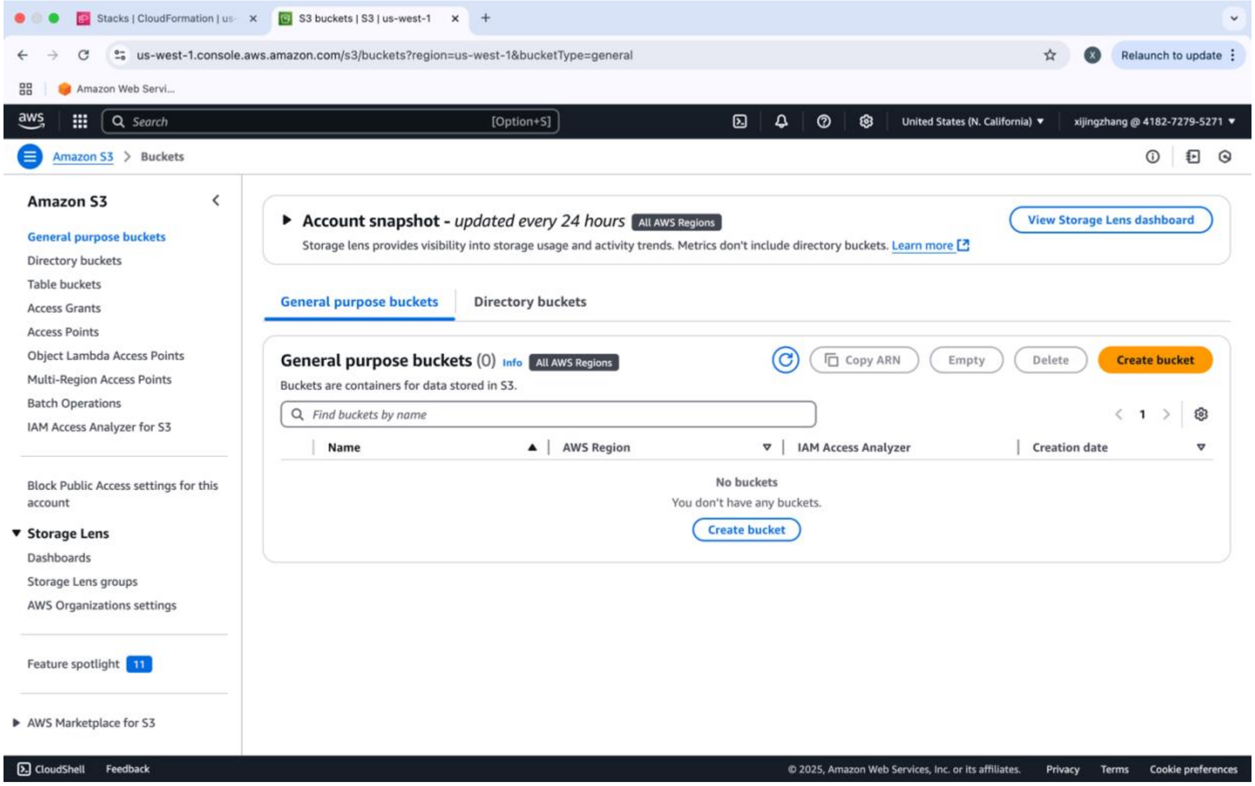
Create stack

View getting started guide

Screenshot #7: Stack Deletion Confirmation

- This screenshot should show the CloudFormation dashboard with the stack status marked as "DELETE_COMPLETE." This confirms that the destroy script successfully removed all the resources provisioned by the stack.

[Screen shot [#8]



Account snapshot - *updated every 24 hours* All AWS Regions

Storage lens provides visibility into storage usage and activity trends. Metrics don't include directory buckets. Learn more

General purpose buckets (0) Info All AWS Regions

Buckets are containers for data stored in S3.

Name	AWS Region	IAM Access Analyzer	Creation date

No buckets

You don't have any buckets.

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Screenshot #8: S3 Dashboard Post Deletion

- Show the AWS S3 dashboard to verify that the previously created buckets no longer exist. This proves that the destroy script successfully deleted all associated S3 resources.