

Name: Aishwarya Ravi

SJSU ID: 015900768

Project -1

Source Code:

GitHub repo name: Cloud File Management System

GitHub username: aishwaryaravi19

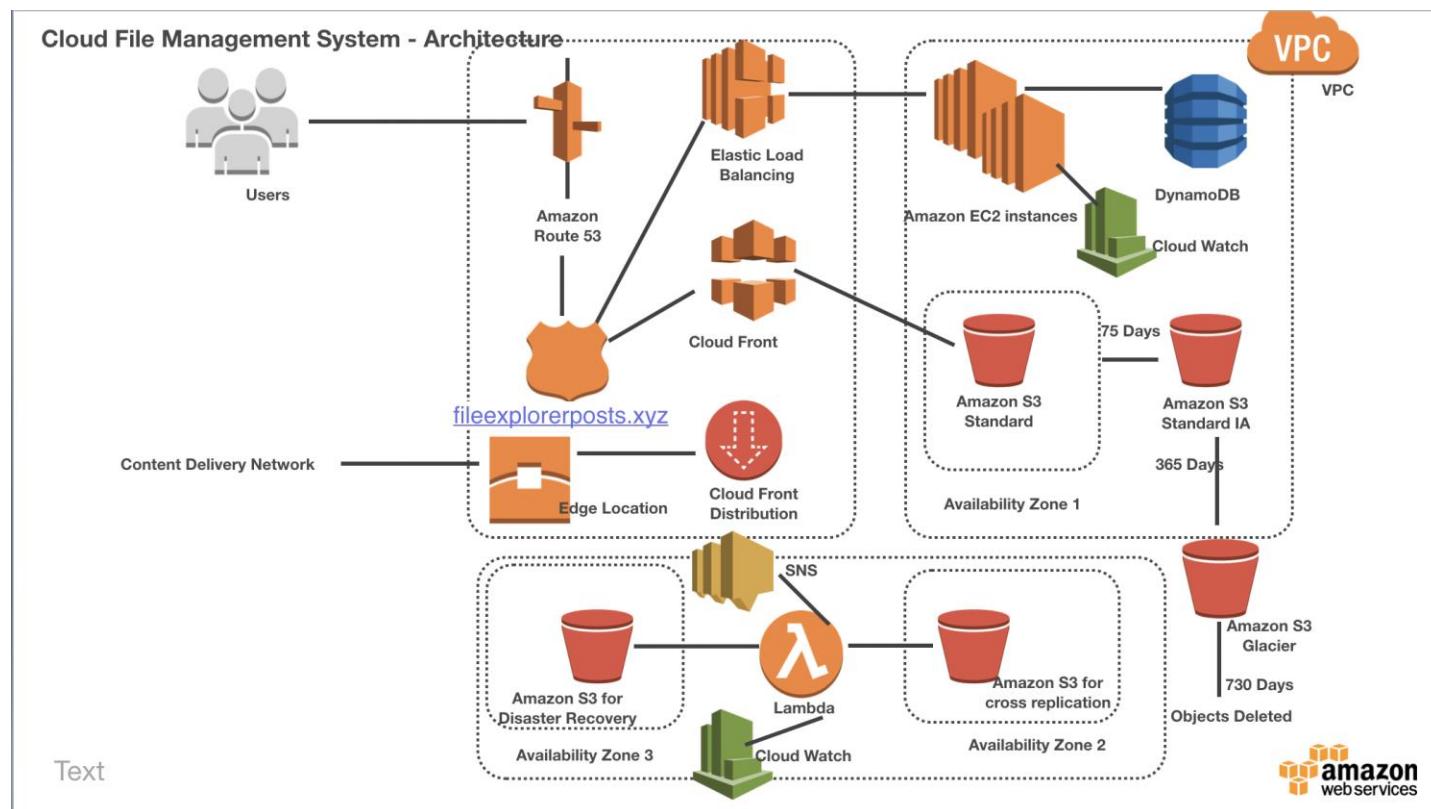
GitHub URL: <https://github.com/aishwaryaravi19/Cloud-File-Management-System>

Requirements:

To Create a highly available, highly scalable, cost effective 3 tier web application which could be accessed over the public internet through the registered domain name.

My domain name:- <http://fileexplorerposts.xyz:8081/>

Architecture Diagram:

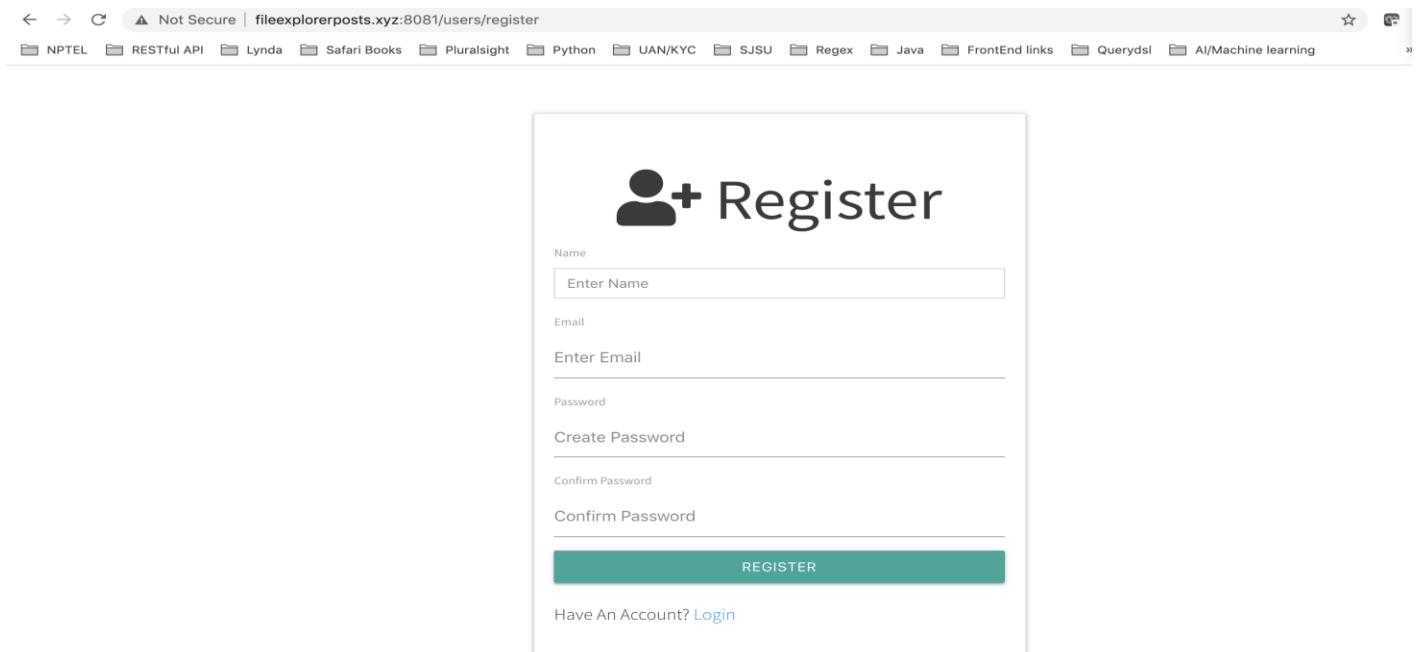
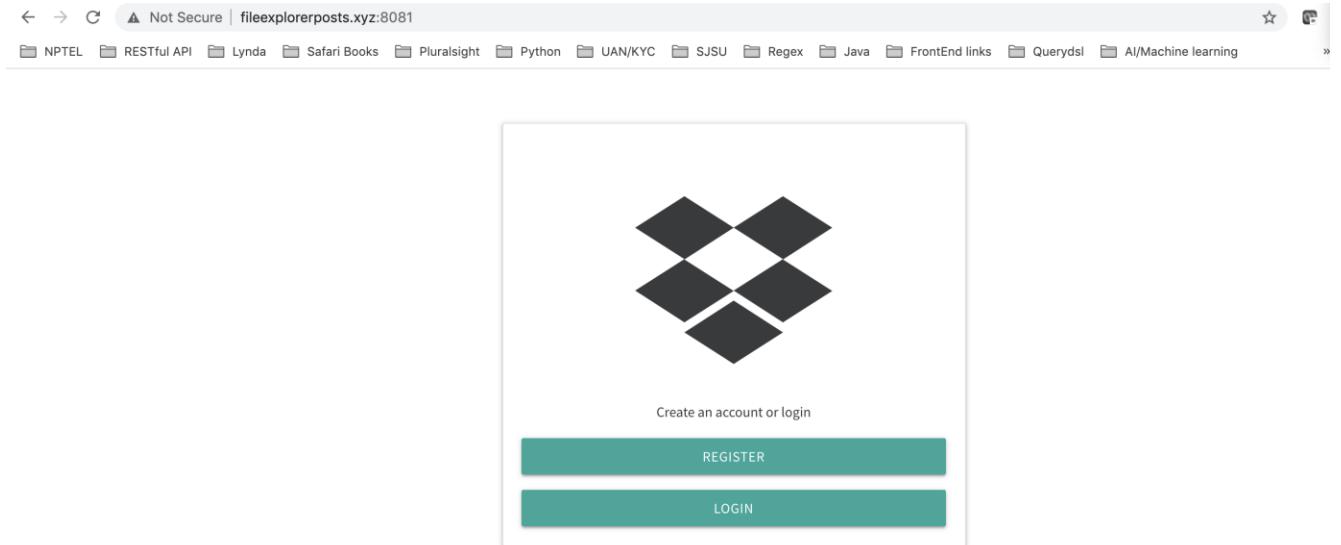


Project 1:

User Registration

5 points

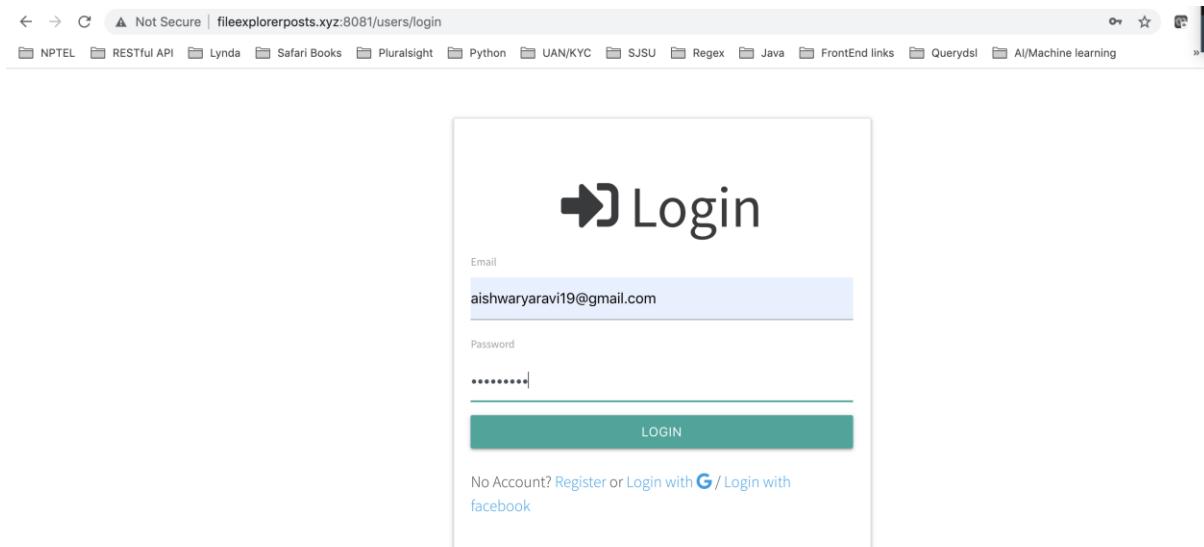
User registration form contain fields such as user name, email address and password. The username “admin” refers to the admin of the system and all other users are considered as non – admins. The users must be registered in order to access the application.



Custom Login

5 points

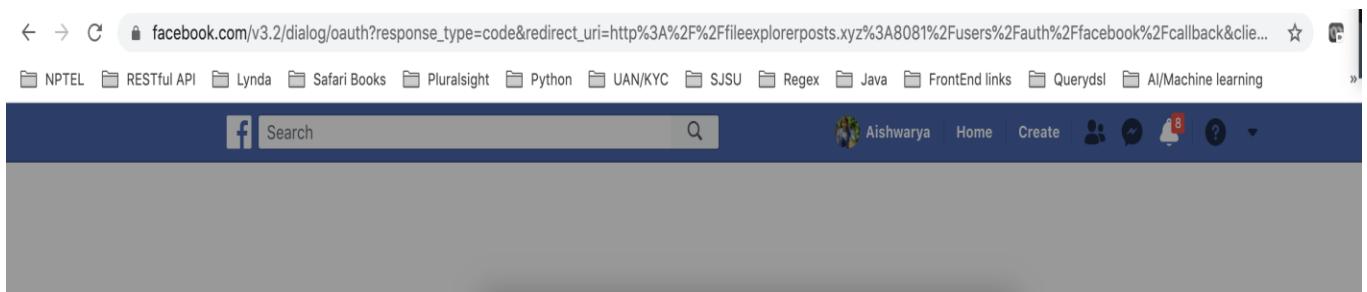
If the user has already registered, they can login to the application using their login credentials. The user has to enter his/her email address and password. After login is successful, they will be taken to the Files dashboard page.



Social Media Login - FB

0 points

Used passport framework from EJS to integrate with social media – FB. User can login through their FB login credentials.

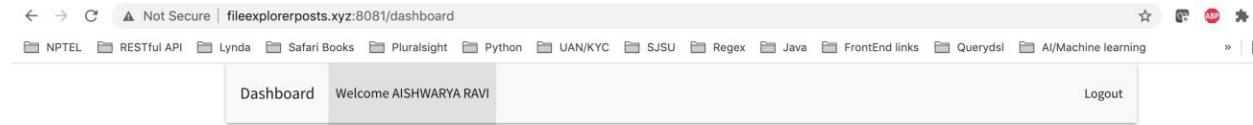


File Upload

5 points

In the file upload screen, the user will be able to see the uploaded files and details like file name, file URL, upload time, username and file updated at fields.

The users will see their corresponding files. If the user is an admin, then he/she will be able to see all users' uploaded files on their dashboard.



A screenshot of a web browser showing a dashboard. The URL is 'fileexplorerposts.xyz:8081/dashboard'. The dashboard header includes 'Dashboard' and 'Welcome AISHWARYA RAVI'. On the left, there is a 'FILE' button and a teal 'UPLOAD' button. The main area is currently empty.

File Details

User Name	File Name	Upload Time	File	File
AISHWARYA RAVI	BubbleSort.class	0.162	https://myfilesstoragebucket.s3.us-west-1.amazonaws.com/myImage-1634780001372	EDIT DELETE



A screenshot of a web browser showing a dashboard. The URL is 'fileexplorerposts.xyz:8081/dashboard'. The dashboard header includes 'Dashboard' and 'Welcome AISHWARYA RAVI'. On the left, there is a 'FILE' button and a teal 'UPLOAD' button. The main area is currently empty.

File Details

User Name	File Name	Upload Time	File	File
AISHWARYA RAVI	SelectionSort.class	0.162	https://myfilesstoragebucket.s3.us-west-1.amazonaws.com/myImage-1634780001372	EDIT DELETE



Not Secure | fileexplorerposts.xyz:8081/dashboard

Logout

FILE

UPLOAD

File Uploaded!

File Details

User Name	File Name	Upload Time	File	File
AISHWARYA RAVI	BubbleSort.class	0.162	https://myfilesstoragebucket.s3.us-west-1.amazonaws.com/myImage-1634780001372	EDIT DELETE
AISHWARYA RAVI	SelectionSort.class	0.141	https://myfilesstoragebucket.s3.us-west-1.amazonaws.com/myImage-1634781412751	EDIT DELETE



Not Secure | fileexplorerposts.xyz:8081/dashboard

Logout

FILE

UPLOAD

File Details

User Name	File Name	Upload Time	File	File
AISHWARYA RAVI	input.txt	0.171	https://myfilesstoragebucket.s3.us-west-1.amazonaws.com/myImage-1634783705988	EDIT DELETE
AISHWARYA RAVI	BubbleSort.class	0.121	https://myfilesstoragebucket.s3.us-west-1.amazonaws.com/myImage-1634783713841	EDIT DELETE
Manoj Ram	Screenshot 2021-09-09 at 12.59.38 PM.png	0.204	https://myfilesstoragebucket.s3.us-west-1.amazonaws.com/myImage-1634793734350	EDIT DELETE
Manoj Ram	Screenshot 2021-09-14 at 12.30.48 PM.png	0.139	https://myfilesstoragebucket.s3.us-west-1.amazonaws.com/myImage-1634793751540	EDIT DELETE

File Download

5 points

Users can go through already uploaded files list with each record having a URL to download the file.

AISHWARYA RAVI	input.txt	0.121	https://myfilesstoragebucket.s3.us-west-1.amazonaws.com/myImage-1634781536624	EDIT	DELETE
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File Details

User Name	File Name	Upload Time	File	File
AISHWARYA RAVI	input.txt	0.171	https://myfilestoragebucket.s3.us-west-1.amazonaws.com/myImage-1634783705988	<button>EDIT</button> <button>DELETE</button>
AISHWARYA RAVI	BubbleSort.class	0.121	https://myfilestoragebucket.s3.us-west-1.amazonaws.com/myImage-1634783713841	<button>EDIT</button> <button>DELETE</button>

<https://myfilesstoragebucket.s3.us-west-1.amazonaws.com/myImage-1634783713841>

Users can download these files which they uploaded by clicking on the file URL.

Database Updates

5 Points

I have used Amazon DynamoDB for this project. It is a NOSQL database and it helps in performing read, write, update and delete operations at ease.

The new DynamoDB console is now complete, and becomes your default experience
Following the preview phase in which we analyzed and incorporated your feedback, we have completed the new DynamoDB console, making it even easier for you to manage your data and resources. Let us know what you think. You can still choose to return to the previous console from the navigation pane.

DynamoDB

Tables (2) Info

Name	Status	Partition key	Sort key	Indexes	Read capacity mode	Write capacity mode
files	Active	fileurl (String)	filename (String)	0	Provisioned with auto scaling (1)	Provisioned with auto scaling (1)
user	Active	email (String)	user (String)	0	Provisioned with auto scaling (1)	Provisioned with auto scaling (1)

Items (1)

Tables (2)

files

Completed Read capacity units consumed: 0.5

Items returned (1)

fileurl	filename	email	fileDesc	modified...
https://my...	input.txt	aishwaryaravi...	<empty>	10-20-2021

File Edit

5 Points

Users can update the files already uploaded by them, they can update the file name and the file. Updated values of the files are displayed as shown below.

File Details

User Name	File Name	Upload Time	File	File
AISHWARYA RAVI	BubbleSort.class	0.162	https://myfilesstoragebucket.s3.us-west-1.amazonaws.com/myImage-1634780001372	EDIT DELETE
AISHWARYA RAVI	SelectionSort.class	0.141	https://myfilesstoragebucket.s3.us-west-1.amazonaws.com/myImage-1634781412751	EDIT DELETE

Here Bubblesort.class record is updated as shown below. File URL is different.

File Details

User Name	File Name	Upload Time	File	File
AISHWARYA RAVI	SelectionSort.class	0.141	https://myfilesstoragebucket.s3.us-west-1.amazonaws.com/myImage-1634781412751	EDIT DELETE
AISHWARYA RAVI	BubbleSort.class	0.162	https://myfilesstoragebucket.s3.us-west-1.amazonaws.com/myImage-1634781469291	EDIT DELETE

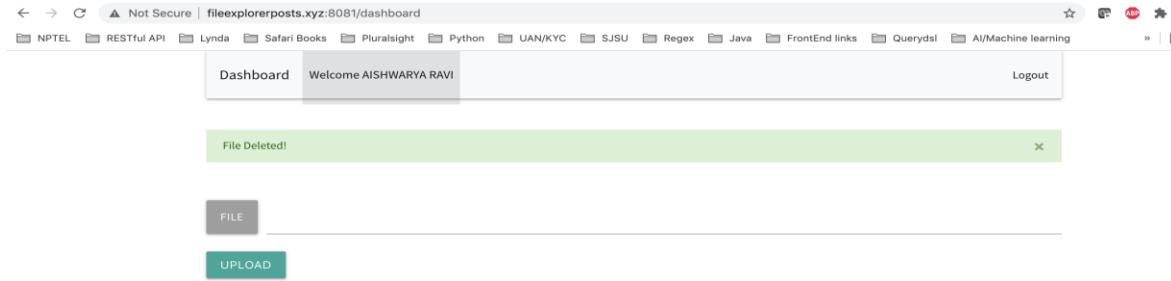
File Delete

5 Points

Using the delete button, users and admin can delete the files already uploaded by them.

File Details

User Name	File Name	Upload Time	File	File
AISHWARYA RAVI	SelectionSort.class	0.141	https://myfilesstoragebucket.s3.us-west-1.amazonaws.com/myImage-1634781412751	EDIT DELETE
AISHWARYA RAVI	BubbleSort.class	0.162	https://myfilesstoragebucket.s3.us-west-1.amazonaws.com/myImage-1634781469291	EDIT DELETE



← → ⌛ Not Secure | fileexplorerposts.xyz:8081/dashboard

FILE

UPLOAD

File Deleted!

Logout

File Details

User Name	File Name	Upload Time	File	File
AISHWARYA RAVI	BubbleSort.class	0.162	https://myfilesstoragebucket.s3.us-west-1.amazonaws.com/myImage-1634781469291	EDIT DELETE

AWS Configurations and Usages

R53

5 Points

I have purchased my domain from Godaddy as it was less expensive when compared to AWS domains. After obtaining the domain(<http://fileexplorerposts.xyz>), I used amazon R53 to create a host zone. Records are added with the domain name from GoDaddy and public IP of EC2. Then, I added amazon nameservers to the GoDaddy account.

The screenshot shows the AWS Route 53 console. On the left, a sidebar for 'Route 53' is visible with options like Dashboard, Hosted zones (which is selected and highlighted in orange), Health checks, Traffic flow, and Domains. The main content area shows a 'Hosted zones (1)' section with a table. The table has columns for Domain name, Type, Created by, Record count, Description, and Hosted zone ID. One row is shown for 'fileexplorerposts.xyz' with a Public type, Route 53 as the creator, 4 records, and Hosted zone ID Z08711322QY87W4RU83LD.

Below this, the URL changes to 'console.aws.amazon.com/route53/v2/hostedzones#ListRecordSets/Z08711322QY87W4RU83LD'. The main content area now shows the 'fileexplorerposts.xyz' hosted zone details. It includes tabs for 'Records (4)', 'DNSSEC signing', and 'Hosted zone tags (0)'. The 'Records (4)' tab is selected and shows a table of records. The table has columns for Record name, Type, Routine, Differ..., and Value/Route traffic to. The records listed are:

- fileexplorerposts... A Simple - 54.193.122.229 ns-1300.awsdns-34.org. ns-860.awsdns-43.net. ns-54.awsdns-06.com. ns-1659.awsdns-15.co.uk.
- fileexplorerposts... NS Simple - ns-1300.awsdns-34.org. awsdns-hostmaster.amazon.com. 1 7200 900 1209600 86400
- fileexplorerposts... SOA Simple - fileexplorerposts.xyz
- www.fileexplorer... CNAME Simple - fileexplorerposts.xyz

ELB (Elastic Load Balancer)

5 Points

To distribute the traffic across multiple ec2 instances, I have made use of classic load balancer to which I have assigned the security groups, made health check configurations, registered load balancers for ec2 instances. These instances are present at different availability zones. The cross-zone load balancing has been enabled for these instances.

us-west-1.console.aws.amazon.com/ec2/v2/home?region=us-west-1#LoadBalancers:sort=loadBalancerName

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Create Load Balancer Actions

Filter by tags and attributes or search by keyword

Name	DNS name	State	VPC ID	Availability Zones	Type
my-load-balancer	my-load-balancer-13560557...	Active	vpc-0d73aaca16010ff4a	us-west-1c, us-west-1b	classic

1 to 1 of 1

us-west-1.console.aws.amazon.com/ec2/v2/home?region=us-west-1#LoadBalancers:sort=loadBalancerName

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Create Load Balancer Actions

Filter by tags and attributes or search by keyword

Name	DNS name	State	VPC ID	Availability Zones	Type
my-load-balancer	my-load-balancer-13560557...	Active	vpc-0d73aaca16010ff4a	us-west-1c, us-west-1b	classic

Load balancer: my-load-balancer

Description Instances Health check Listeners Monitoring Tags Migration

Basic Configuration

Name	my-load-balancer	Creation time	October 20, 2021 at 4:49:03 PM UTC-7
* DNS name	my-load-balancer-1356055716.us-west-1.elb.amazonaws.com (A Record)	Hosted zone	Z368ELLRRE2KJ0
Type	Classic (Migrate Now)	Status	0 of 2 instances in service
Scheme	internet-facing	VPC	vpc-0d73aaca16010ff4a
Availability Zones	subnet-054f2bbd489f8363b - us-west-1b, subnet-061ff6e30ab86a214 - us-west-1c		

Port Configuration

Port Configuration	80 (HTTP) forwarding to 80 (HTTP)
	Stickiness: Disabled
	Edit stickiness

Security

us-west-1.console.aws.amazon.com/ec2/v2/home?region=us-west-1#LoadBalancers:sort=loadBalancerName

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Create Load Balancer Actions

Filter by tags and attributes or search by keyword

Name	DNS name	State	VPC ID	Availability Zones	Type
my-load-balancer	my-load-balancer-13560557...	Active	vpc-0d73aaca16010ff4a	us-west-1c, us-west-1b	classic

Load balancer: my-load-balancer

Description Instances Health check Listeners Monitoring Tags Migration

Connection Draining: Enabled, 300 seconds (Edit)

Edit Instances

Instance ID	Name	Availability Zone	Status	Actions
i-0bfc3482696df4dd8		us-west-1b	OutOfService	Remove from Load Balancer
i-091dc1f20bac7ed2b		us-west-1b	OutOfService	Remove from Load Balancer

Edit Availability Zones

Availability Zone	Subnet ID	Subnet CIDR	Instance Count	Healthy?	Actions
us-west-1c	subnet-061ff6e30ab86a214	172.31.16.0/20	0	No (Availability Zone contains no healthy targets)	Remove from Load Balancer
us-west-1b	subnet-054f2bbd489f8363b	172.31.0.0/20	2	No (Availability Zone contains no healthy targets)	Remove from Load Balancer

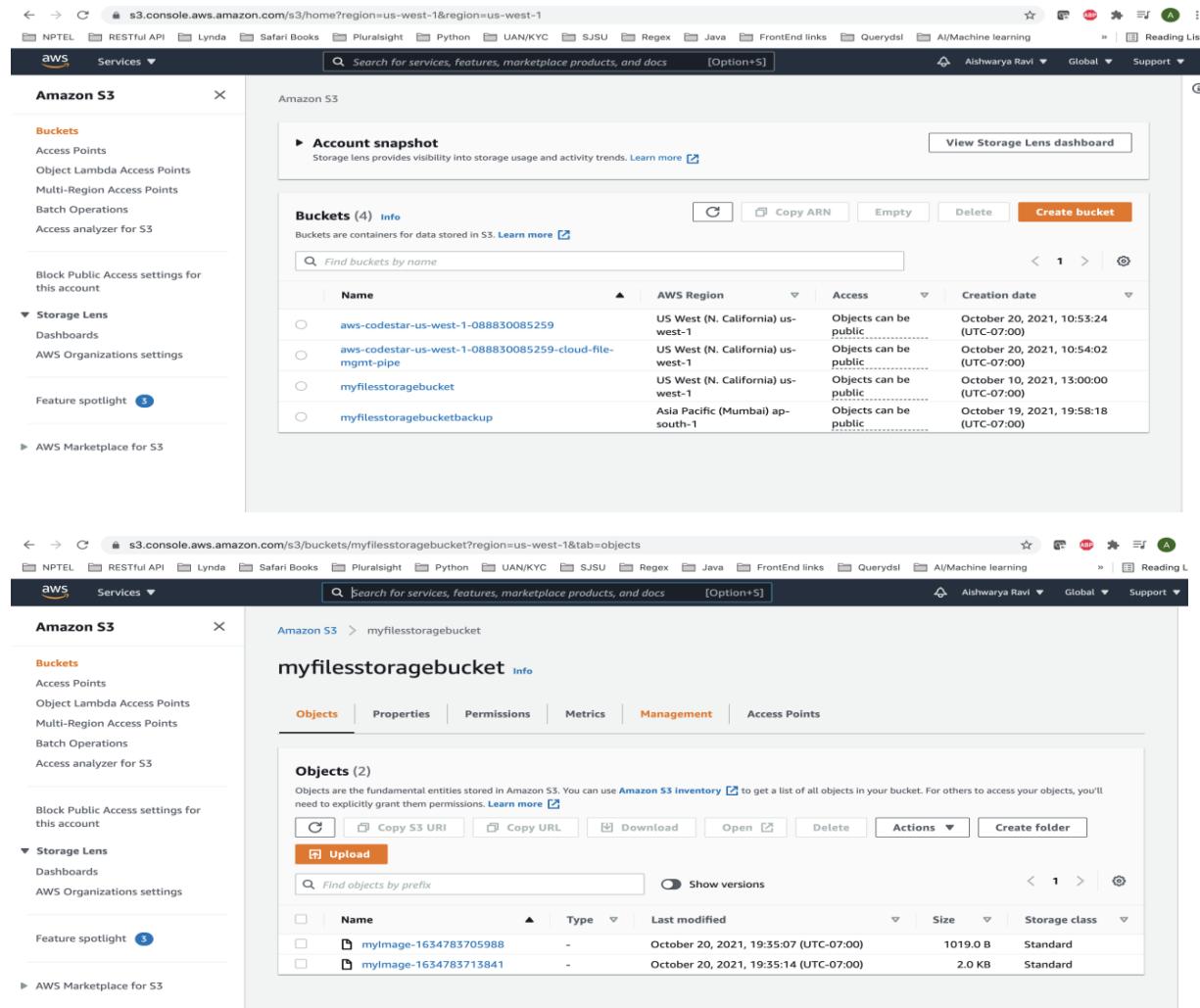
Feedback English (US) ▾

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S3 Bucket and Cloud Front

5 Points

Files get uploaded to s3 bucket (Two buckets are created – primary and back up) in different AZs (US West and Asia Pacific). I have configured lifecycle policy which contains uploaded objects in Standard for first 75 days and moves it to Standard IA. Then after 365 days, moves it to Glacier and after 730 days, deletes the objects along with object markers and incomplete multipart uploads.



The image shows two screenshots of the AWS S3 console. The top screenshot displays the 'Amazon S3' service dashboard with a list of four buckets. The bottom screenshot shows the details for a specific bucket named 'myfilesstoragebucket'.

Bucket List (Top Screenshot):

Name	AWS Region	Access	Creation date
aws-codestar-us-west-1-088830085259	US West (N. California) us-west-1	Objects can be public	October 20, 2021, 10:53:24 (UTC-07:00)
aws-codestar-us-west-1-088830085259-cloud-file-mgmt-pipe	US West (N. California) us-west-1	Objects can be public	October 20, 2021, 10:54:02 (UTC-07:00)
myfilesstoragebucket	US West (N. California) us-west-1	Objects can be public	October 10, 2021, 13:00:00 (UTC-07:00)
myfilesstoragebucketbackup	Asia Pacific (Mumbai) ap-south-1	Objects can be public	October 19, 2021, 19:58:18 (UTC-07:00)

Bucket Details (Bottom Screenshot):

The 'myfilesstoragebucket' page shows two objects: 'myImage-1634783705988' and 'myImage-1634783713841'. Both objects are of type 'Image' and were last modified on October 20, 2021, at 19:35:07 (UTC-07:00). They are stored in the 'Standard' storage class.

s3.console.aws.amazon.com/s3/buckets/myfilestoragebucket?region=us-west-1&tab=management

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Amazon S3 > myfilestoragebucket

myfilestoragebucket

Objects Properties Permissions Metrics Management Access Points

Lifecycle rules (1)
Use lifecycle rules to define actions you want Amazon S3 to take during an object's lifetime such as transitioning objects to another storage class, archiving them, or deleting them after a specified period of time. [Learn more](#)

Lifecycle rule name	Status	Scope	Current version actions	Noncurrent versions actions	Expired object delete markers	Incomplete multipart uploads
myfilestoragebucketpolicy	Enabled	Entire bucket	Transition to Standard-IA, then Glacier, then expires	-	-	Permanently delete

[View lifecycle configuration](#)

s3.console.aws.amazon.com/s3/management/myfilestoragebucket/lifecycle/view?region=us-west-1&id= myfilestoragebucketpolicy

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Amazon S3 > myfilestoragebucket > Lifecycle configuration > myfilestoragebucketpolicy

myfilestoragebucketpolicy

Edit Delete Actions

Lifecycle rule configuration

Lifecycle rule name	Status	Scope
myfilestoragebucketpolicy	Enabled	Entire bucket

Review transition and expiration actions

Current version actions	Noncurrent versions actions
Day 0 <ul style="list-style-type: none">Objects uploaded ↓ Day 75 <ul style="list-style-type: none">Objects move to Standard-IA ↓	Day 0 No actions defined.

Review transition and expiration actions

Current version actions

- Day 0
 - Objects uploaded
- ↓
- Day 75
 - Objects move to Standard-IA
- ↓
- Day 365
 - Objects move to Glacier
- ↓
- Day 730
 - Objects expire

Noncurrent versions actions

- Day 0

No actions defined.

Delete expired object delete markers or incomplete multipart uploads

Expired object delete markers	Incomplete multipart uploads
-	Delete after 7 days

Cloud Front

Cloud front has been used to reduce latency & reliability as it serves from edge locations. It also enables transfer acceleration from s3 bucket.

CloudFront

Distributions

- Policies
- Functions NEW
- What's new
- ▼ Telemetry

CloudFront > Distributions

Distributions (1) Info

<input type="checkbox"/>	ID	Description	Domain name	Alternate name	Origins	Status	Last modified
<input type="checkbox"/>	E565JXE8H9SCU	-	d31ztirma5ul...	-	myfilestoragebucket.s3.us-west-1.	Enabled	October 1

E565JXE8H9SCU

General **Origins** **Behaviors** **Error pages** **Geographic restrictions** **Invalidations** **Tags**

Details

Distribution domain name d312irma5ul6c.cloudfront.net	ARN arn:aws:cloudfront::088830085259:distribution/E565JXE8H9SCU	Last modified October 19, 2021 at 11:31:26 PM UTC
--	--	--

Settings

Description -	Alternate domain names -	Standard logging Off
Price class Use all edge locations (best performance)		Cookie logging Off
Supported HTTP versions HTTP/2, HTTP/1.1, HTTP/1.0		Default root object -
AWS WAF -		IPv6 Enabled

E565JXE8H9SCU

General **Origins** **Behaviors** **Error pages** **Geographic restrictions** **Invalidations** **Tags**

Origins

Origin name	Origin domain	Origin path	Origin type	Origin Shield r...
myfilestoragebucket...	myfilestoragebucket.s3.us-west-1.amazonaws.com		S3	-

Origin groups

Origin group name	Origins	Failover criteria
No origin groups You don't have any origin groups.		

Lambda

5 Points

I have used AWS lambda function for file compression and replication to S3 bucket, whenever the push event to S3 bucket happens. It helps ensure less storage space and also provides backup option.

Functions (1 selected)

Function name	Description	Package type	Runtime	Code size	Last modified
Lambda_to_replicate_and_compress_files	-	Zip	Python 3.7	299.0 byte	21 hours ago

Lambda_to_replicate_and_compress_files

Function overview

Triggers:

- S3
- CloudWatch Logs

Destinations:

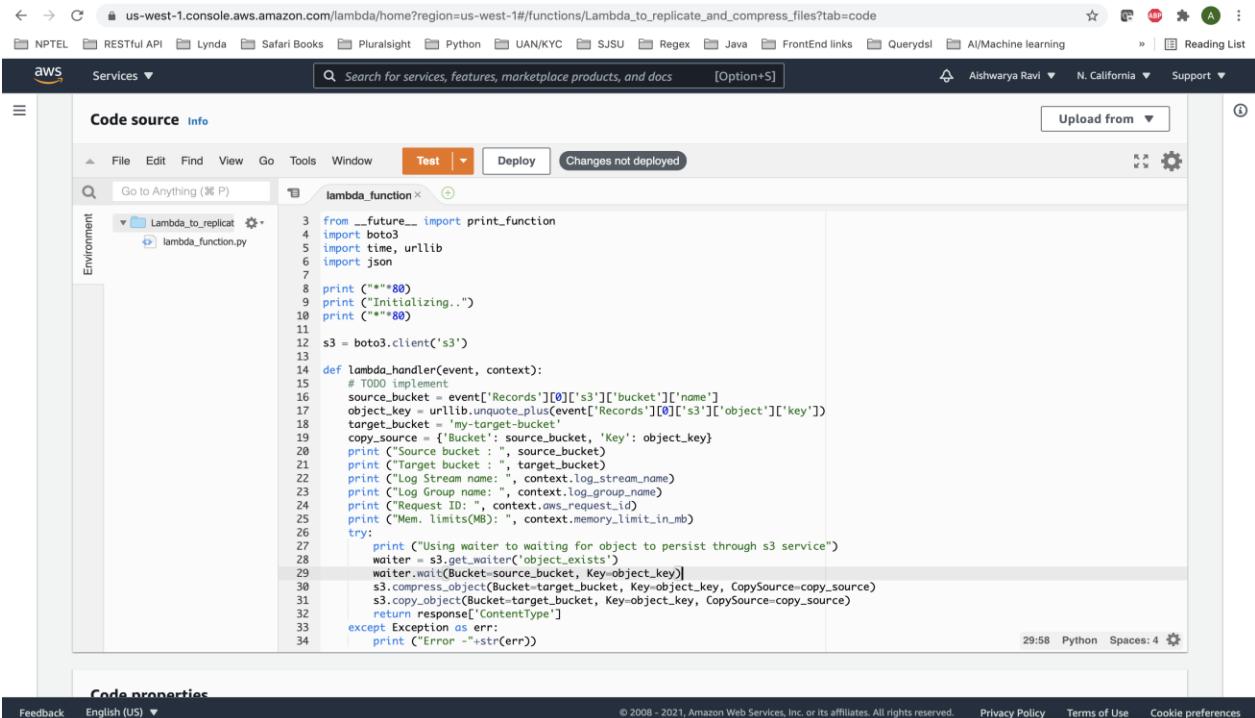
- Amazon SNS

Description: -

Last modified: 21 hours ago

Function ARN: arn:aws:lambda:us-west-1:088830085259:function:Lambda_to_replicate_and_compress_files

I have written the lambda function in python to replicate and compress files to back up s3 bucket.



```

3  from __future__ import print_function
4  import boto3
5  import time, urllib
6  import json
7
8  print ("***88")
9  print ("Initializing..")
10 print ("***88")
11
12 s3 = boto3.client('s3')
13
14 def lambda_handler(event, context):
15     # TODO implement
16     source_bucket = event['Records'][0]['s3']['bucket']['name']
17     object_key = urllib.unquote_plus(event['Records'][0]['s3']['object']['key'])
18     target_bucket = 'my-target-bucket'
19     copy_source = {'Bucket': source_bucket, 'Key': object_key}
20     print ("Source bucket : ", source_bucket)
21     print ("Target bucket : ", target_bucket)
22     print ("Log Stream name: ", context.log_stream_name)
23     print ("Log Group name: ", context.log_group_name)
24     print ("Request ID: ", context.aws_request_id)
25     print ("Mem. limits(MB): ", context.memory_limit_in_mb)
26     try:
27         print ("Using waiter to waiting for object to persist through s3 service")
28         waiter = s3.get_waiter("object_exists")
29         waiter.wait(Bucket=source_bucket, Key=object_key)
30         s3.copy_object(Bucket=target_bucket, Key=object_key, CopySource=copy_source)
31         s3.copy_object(Bucket=target_bucket, Key=object_key, CopySource=copy_source)
32         return response['Contenttype']
33     except Exception as err:
34         print ("Error -"+str(err))

```

SNS, CloudWatch

5 Points

SNS:

Whenever lambda function fails to compress and replicate files to back-up s3 bucket, SNS event is triggered and email notification is sent to the user. I have configured a topic and a subscription and given my email address for the same.

us-west-1.console.aws.amazon.com/sns/v3/home?region=us-west-1#/dashboard

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Amazon SNS

Dashboard

Topics Subscriptions

Mobile Push notifications Text messaging (SMS) Origination numbers

Resources for us-west-1

Topics	Subscriptions
1	1
Platform applications	
0	

us-west-1.console.aws.amazon.com/sns/v3/home?region=us-west-1#/topics

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Amazon SNS

Topics

Dashboard Topics Subscriptions

Mobile Push notifications Text messaging (SMS) Origination numbers

Topics (1)

Name	Type	ARN
MyTopic	Standard	arn:aws:sns:us-west-1:088830085259:MyTopic

us-west-1.console.aws.amazon.com/sns/v3/home?region=us-west-1#/subscriptions

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Amazon SNS

Subscriptions

Dashboard Topics Subscriptions

Mobile Push notifications Text messaging (SMS) Origination numbers

Subscriptions (1)

ID	Endpoint	Status	Protocol	Topic
6be3d265-d57d-4693-9479-8292e8b0c714	aishwaryaravi19@gmail.com	Confirmed	EMAIL	MyTopic

us-west-1.console.aws.amazon.com/sns/v3/home?region=us-west-1#/subscription/arn:aws:sns:us-west-1:088830085259:MyTopic:6be3d265-d57d-4693-9479-829...

Search for services, features, marketplace products, and docs [Option+S]

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Amazon SNS

Dashboard Topics Subscriptions

Mobile Push notifications Text messaging (SMS) Origination numbers

Subscription: 6be3d265-d57d-4693-9479-8292e8b0c714

Details

ARN: arn:aws:sns:us-west-1:088830085259:MyTopic:6be3d265-d57d-4693-9479-8292e8b0c714

Status: Confirmed

Endpoint: aishwaryaravi19@gmail.com

Topic: MyTopic

Subscription filter policy Redrive policy (dead-letter queue)

Subscription filter policy This policy filters the messages that a subscriber receives. [Info](#)

No filter policy configured for this subscription.

To apply a filter policy, edit this subscription.

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Cloud Watch:

Cloud watch metrics are used for various purposes like knowing Memory Consumption, CPU Utilization and requests from varied time intervals. I have integrated my S3 and lambda with cloud watch which provide me real time statics

us-west-1.console.aws.amazon.com/ec2/v2/home?region=us-west-1#LoadBalancers:sort=loadBalancerName

Search for services, features, marketplace products, and docs [Option+S]

Aishwarya Ravi N. California Support

New EC2 Experience Tell us what you think

EC2 Dashboard EC2 Global View Events Tags Limits

Instances Instances Instance Types Launch Templates Spot Requests Savings Plans Reserved Instances Dedicated Hosts Capacity Reservations

Images AMIs

Elastic Block Store Volumes Snapshots Lifecycle Manager

Create Load Balancer Actions

Filter by tags and attributes or search by keyword

Name: my-load-balancer DNS name: my-load-balancer-13560557... State: State VPC ID: vpc-0d73aaca16010ff4a Availability Zones: us-west-1c, us-west-1b Type: classic

Description Instances Health check Listeners Monitoring Tags Migration

Manage alarms in CloudWatch

Showing data for: Last Hour

CloudWatch metrics:

Below are your CloudWatch metrics for the selected resources (a maximum of 10). Click on a graph to see an expanded view. All times shown are in UTC. [View all](#)

CloudWatch metrics:

Unhealthy Hosts Count: 2.5 (10/21 01:30 to 10/21 02:00)

Healthy Hosts Count: 0.75 (10/21 01:30 to 10/21 02:00)

Average Latency Milliseconds: 1 (10/21 01:30 to 10/21 02:00)

Requests Count: 1 (10/21 01:30 to 10/21 02:00)

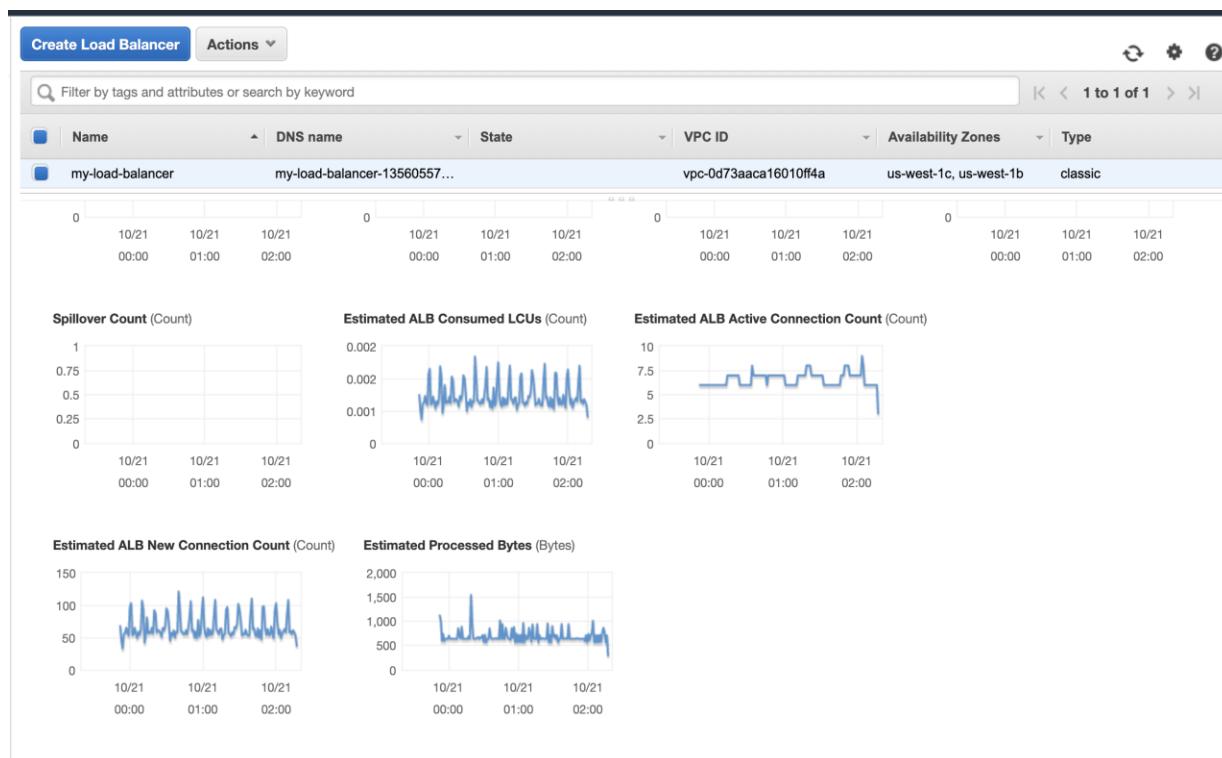
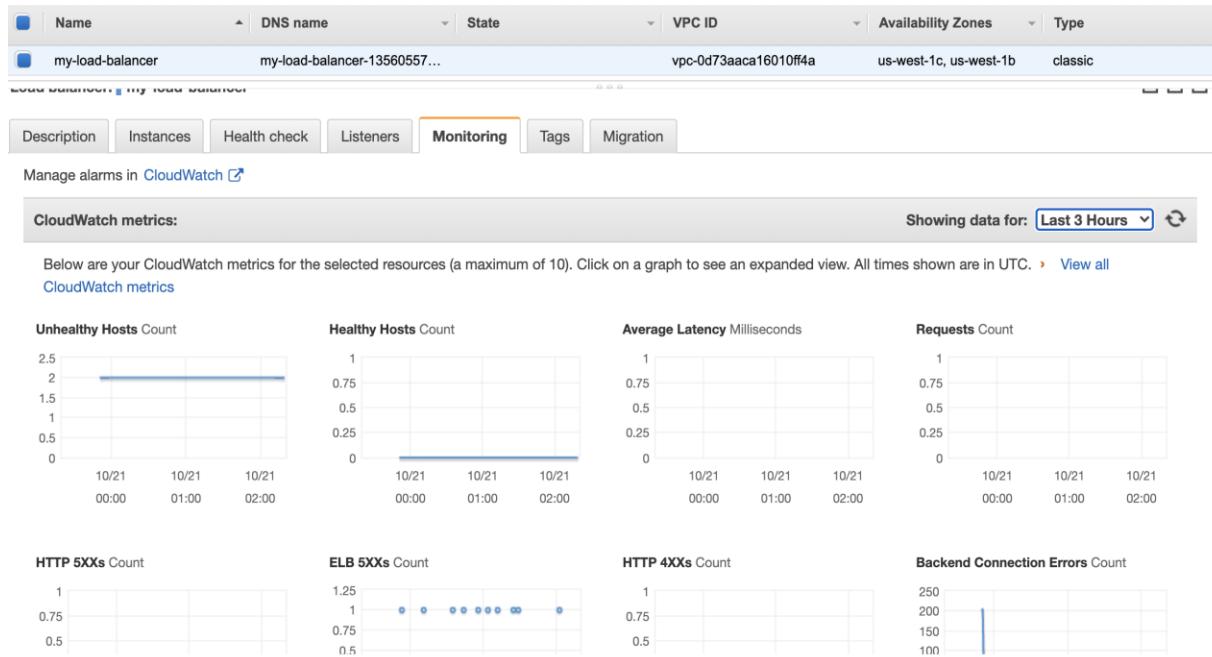
HTTP 5XXs Count: 1 (10/21 01:30 to 10/21 02:00)

ELB 5XXs Count: 1.25 (10/21 01:30 to 10/21 02:00)

HTTP 4XXs Count: 0.75 (10/21 01:30 to 10/21 02:00)

Backend Connection Errors Count: 10 (10/21 01:30 to 10/21 02:00)

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DR Measures

5 Points

Disaster recovery measures could be taken by building buckets in two different geographical locations one in US West and another in Asia Pacific. By using replication function under management, we could copy data from one region to another region.

<input type="radio"/> myfilesstoragebucket	US West (N. California) us-west-1	Objects can be public	October 10, 2021, 13:00:00 (UTC-07:00)
<input type="radio"/> myfilesstoragebucketbackup	Asia Pacific (Mumbai) ap-south-1	Objects can be public	October 19, 2021, 19:58:18 (UTC-07:00)

s3.console.aws.amazon.com/s3/buckets/myfilesstoragebucket?region=us-west-1&tab=management

Lifecycle rules (1)

Lifecycle rule name	Status	Scope	Current version actions	Noncurrent versions actions	Expired object delete markers	Incomplete multipart uploads
filesstoragebucketpolicy	Enabled	Entire bucket	Transition to Standard-IA, then Glacier, then expires	-	-	Permanently delete

View lifecycle configuration

Replication rules (1)

Replication rule name	Status	Destination bucket	Destination Region	Priority	Scope	Storage class	Replica owner	Replication Time Control	KMS-encrypt object
myfilesstoragebucketreplicationrule	Enabled	s3://myfilesstoragebucketbackup	Asia Pacific (Mumbai) ap-south-1	0	Entire bucket	Same as source	Same as source	Disabled	Do not replicate

View replication configuration

s3.console.aws.amazon.com/s3/management/myfilesstoragebucket/replication/view?region=us-west-1&id=myfilesstoragebucketreplicationrule

myfilesstoragebucketreplicationrule

Actions ▾

Replication rule summary

Replication rule name myfilesstoragebucketreplicationrule	Status Enabled	Priority 0
--	-------------------	---------------

Source bucket

Source bucket name myfilesstoragebucket	Scope Entire bucket	Tags -
Source Region US West (N. California) us-west-1	Prefix -	

Destination

Destination bucket name myfilesstoragebucketbackup	Storage class Same as source	Object ownership Same as source
Destination Region Asia Pacific (Mumbai) ap-south-1		

Amazon S3 > myfilesstoragebucket

myfilesstoragebucket [Info](#)

Objects (2)

Objects are the fundamental entities stored in Amazon S3. You can use [Amazon S3 Inventory](#) to get a list of all objects in your bucket. For others to access your objects, you'll need to explicitly grant them permissions. [Learn more](#)

<input type="checkbox"/>	Name	Type	Last modified	Size	Storage class
<input type="checkbox"/>	myImage-1634783705988	-	October 20, 2021, 19:35:07 (UTC-07:00)	1019.0 B	Standard
<input type="checkbox"/>	myImage-1634783713841	-	October 20, 2021, 19:35:14 (UTC-07:00)	2.0 KB	Standard

Amazon S3 > myfilesstoragebucketbackup

myfilesstoragebucketbackup [Info](#)

Objects (2)

Objects are the fundamental entities stored in Amazon S3. You can use [Amazon S3 Inventory](#) to get a list of all objects in your bucket. For others to access your objects, you'll need to explicitly grant them permissions. [Learn more](#)

<input type="checkbox"/>	Name	Type	Last modified	Size	Storage class
<input type="checkbox"/>	myImage-1634783705988	-	October 20, 2021, 19:35:07 (UTC-07:00)	1019.0 B	Standard
<input type="checkbox"/>	myImage-1634783713841	-	October 20, 2021, 19:35:14 (UTC-07:00)	2.0 KB	Standard

High Availability Solution (Multi AZ Replication)

5 Points

To configure AWS resources or services to be highly available, I have used dynamodb (Enabled Multi AZ), s3 buckets (Main and back up buckets), EC2 instances (Enabled in different AZs) and ELB to ensure that the EC2 traffic is spread across multiple AZs.

us-west-1.console.aws.amazon.com/ec2/v2/home?region=us-west-1#Instances:

Instances (2) Info

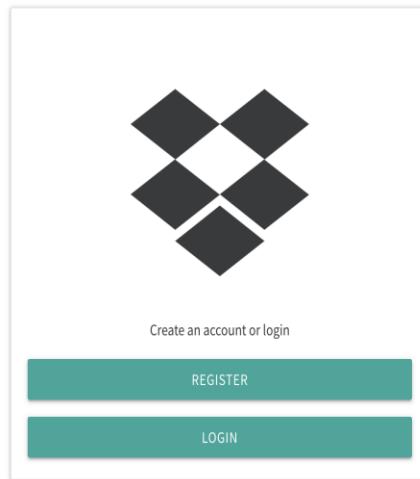
Name	Instance ID	Instance state	Instance type	Status check	Alarm status	Availability Zone
-	i-0bfc3482696df4dd8	Running	t2.micro	2/2 checks passed		us-west-1b
-	i-091dc1f20bac7ed2b	Running	t2.micro	2/2 checks passed		us-west-1b

ap-south-1.console.aws.amazon.com/ec2/v2/home?region=ap-south-1#Instances:

Instances (1) Info

Name	Instance ID	Instance state	Instance type	Status check	Alarm status	Availability Zone
-	i-08734c1c4d353244c	Running	t2.micro	2/2 checks passed	No alarms	ap-south-1a

Not Secure | ec2-54-193-122-229.us-west-1.compute.amazonaws.com:8081



Highly Scalable (Used AutoScaling Groups)

5 Points

I have made use of Auto scaling groups for my EC2 instances for high scalability. Scale in and scale out rule has been used.

us-west-1.console.aws.amazon.com/ec2autoscaling/home?region=us-west-1#/details

NPTEL RESTful API Lynda Safari Books Pluralsight Python UAN/KYC SJSU Regex Java FrontEnd links QueryDSL AI/Machine learning Reading List

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New EC2 Experience Tell us what you think

EC2 Dashboard **Events** New

Tags

Limits

INSTANCES

- Instances
- Instance Types
- Launch Templates
- Spot Requests
- Savings Plans
- Reserved Instances
- Dedicated Hosts **New**
- Scheduled Instances
- Capacity Reservations

IMAGES

- AMIs

ELASTIC BLOCK STORE

- Volumes
- Snapshots
- Lifecycle Manager

Search for services, features, marketplace products, and docs [Option+S]

The old Auto Scaling groups console is no longer available. We will keep improving the new console based on your feedback.

Auto Scale your Amazon EC2 Instances Ahead of Demand

Explore how the new predictive scaling policy of EC2 Auto Scaling helps you improve availability for your applications.

EC2 > Auto Scaling groups

Auto Scaling groups (2)

Search your Auto Scaling groups

	Name	Launch template/configuration	Instances	Status	Desired capacity	Min	Max
<input type="checkbox"/>	Cloud-file-storage	Cloud-file-storage-ASG2	1	-	1	0	1
<input type="checkbox"/>	Cloud-file-storage	Cloud-file-storage-ASG	1	-	1	0	1

us-west-1.console.aws.amazon.com/ec2autoscaling/home?region=us-west-1#/details/Cloud-file-storage-ASG?view=activity

Services > EC2 > Auto Scaling groups > Cloud-file-storage-ASG

Activity

Activity notifications (0)

Send to: On instance action

Activity history (1)

Filter activity history

Status: Description: Cause: Start time: End time:

Successful	Attaching an existing EC2 instance: i-091dc1f20bac7ed2b	At 2021-10-21T00:28:04Z an instance was added in response to user request. Keeping the capacity at the new 1.	2021 October 20, 05:28:04 PM -07:00	2021 October 20, 05:28:09 PM -07:00
------------	---	---	-------------------------------------	-------------------------------------

us-west-1.console.aws.amazon.com/ec2autoscaling/home?region=us-west-1#/details/Cloud-file-storage-ASG?view=details

The old Auto Scaling groups console is no longer available. We will keep improving the new console based on your feedback.

Auto Scale your Amazon EC2 Instances Ahead of Demand

Explore how the new predictive scaling policy of EC2 Auto Scaling helps you improve availability for your applications.

Learn More

EC2 > Auto Scaling groups > Cloud-file-storage-ASG

Details

Group details

Desired capacity: 1

Auto Scaling group name: Cloud-file-storage-ASG

Minimum capacity: 0

Date created: Wed Oct 20 2021 17:28:04 GMT-0700 (Pacific Daylight Time)

Maximum capacity: 1

Amazon Resource Name (ARN): arn:aws:autoscaling:us-west-1:088830085259:autoScalingGroup:731c006e-9ee0-47bb-9ff2-1251f9d086ec:autoScalingGroupName/Cloud-file-storage-ASG

Launch configuration

Edit

us-west-1.console.aws.amazon.com/ec2autoscaling/home?region=us-west-1#/details/Cloud-file-storage-ASG?view=instanceManagement

New EC2 Experience Tell us what you think

Auto Scale your Amazon EC2 Instances Ahead of Demand

Explore how the new predictive scaling policy of EC2 Auto Scaling helps you improve availability for your applications.

EC2 Dashboard New

Events New

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INSTANCES

Instances

Instance Types

Launch Templates

Spot Requests

Savings Plans

Reserved Instances

Dedicated Hosts New

Scheduled Instances

Capacity Reservations

IMAGES

AMIs

ELASTIC BLOCK STORE

Volumes

Snapshots

Lifecycle Manager

EC2 > Auto Scaling groups > Cloud-file-storage-ASG

Details Activity Automatic scaling Instance management Monitoring Instance refresh

Instances (1)

Instance ID	Lifecycle	Instance type	Weight...	Launch template/configuration	Availability Zone
i-091dc1f20bac7ed2b	InService	t2.micro	-		us-west-1b

Lifecycle hooks (0) Info

Name	Lifecycle transition	Default res...	Heartbeat timeout (second...	Notification target ARN	Role ARN
------	----------------------	----------------	------------------------------	-------------------------	----------

No lifecycle hooks are currently configured.

Lifecycle hooks help you perform custom actions on instances as they launch and before they terminate.

Create lifecycle hook

us-west-1.console.aws.amazon.com/ec2autoscaling/home?region=us-west-1#/details/Cloud-file-storage-ASG2?view=details

New EC2 Experience Tell us what you think

The old Auto Scaling groups console is no longer available. We will keep improving the new console based on your feedback.

Auto Scale your Amazon EC2 Instances Ahead of Demand

Explore how the new predictive scaling policy of EC2 Auto Scaling helps you improve availability for your applications.

EC2 > Auto Scaling groups > Cloud-file-storage-ASG2

Details Activity Automatic scaling Instance management Monitoring Instance refresh

Group details

Desired capacity	Auto Scaling group name
1	Cloud-file-storage-ASG2
Minimum capacity	Date created
0	Wed Oct 20 2021 17:29:43 GMT-0700 (Pacific Daylight Time)
Maximum capacity	Amazon Resource Name (ARN)
1	arn:aws:autoscaling:us-west-1:088830085259:autoScalingGroup:d003a955-9680-40e5-ba90-44623fd39469:autoScalingGroupName/Cloud-file-storage-ASG2

us-west-1.console.aws.amazon.com/ec2autoscaling/home?region=us-west-1#/details/Cloud-file-storage-ASG2?view=activity

New EC2 Experience Tell us what you think

Explore how the new predictive scaling policy of EC2 Auto Scaling helps you improve availability for your applications.

EC2 > Auto Scaling groups > Cloud-file-storage-ASG2

Details Activity Automatic scaling Instance management Monitoring Instance refresh

Activity notifications (0)

Send to	On instance action
---------	--------------------

No notifications are currently specified.

Create notification

Activity history (1)

Status	Description	Cause	Start time	End time
Successful	Attaching an existing EC2 instance: i-0bfc3482696df4dd8	At 2021-10-21T00:29:44Z an instance was added in response to user request. Keeping the capacity at the new 1.	2021 October 20, 05:29:44 PM -07:00	2021 October 20, 05:29:46 PM -07:00

The old Auto Scaling groups console is no longer available. We will keep improving the new console based on your feedback.

Auto Scale your Amazon EC2 Instances Ahead of Demand
Explore how the new predictive scaling policy of EC2 Auto Scaling helps you improve availability for your applications.

EC2 Dashboard New

Events New

Tags

Limits

INSTANCES

- Instances
- Instance Types
- Launch Templates
- Spot Requests
- Savings Plans
- Reserved Instances
- Dedicated Hosts New
- Scheduled Instances
- Capacity Reservations

IMAGES

- AMIs

ELASTIC BLOCK STORE

- Volumes
- Snapshots
- Lifecycle Manager

EC2 > Auto Scaling groups > Cloud-file-storage-ASG2

Details Activity Automatic scaling **Instance management** Monitoring Instance refresh

Instances (1)

Instance ID	Lifecycle	Instance type	Weight...	Launch template/configuration	Availability Zone
i-0bfc3482696df4dd8	InService	t2.micro	-	Cloud-file-storage-ASG2	us-west-1b

Lifecycle hooks (0) Info

Name	Lifecycle transition	Default res...	Heartbeat timeout (secon...	Notification target ARN	Role ARN
------	----------------------	----------------	-----------------------------	-------------------------	----------

No lifecycle hooks are currently configured.

Lifecycle hooks help you perform custom actions on instances as they launch and before they terminate.

[Create lifecycle hook](#)

Version Control GitHub, Codestar, CodeCommit, other

10 Points

I have used GitHub and Amazon Code commit for version control.(To create pull requests, code commits and version management).

Amazon Codestar has been used for continuous Integration and Continuous Deployment.

I have used Node JS and Express JS for backend. I have used Amazon SDK to interact with AWS. Have implemented best practices in my code to handle error scenarios and edge cases.

Frontend has been written using EJS to communicate with the back end server

GitHub URL : <https://github.com/aishwaryaravi19/Cloud-File-Management-System>

AWS Codestar:

Developer Tools CodeStar

Getting started Projects

Go to resource Feedback

CodeStar > Projects

Projects

[Create project](#)

Cloud File Management System

Quick Links
Repository
Pipeline
Team

Created 11 hours ago

us-west-1.console.aws.amazon.com/codesuite/codestar/projects/cloud-file-mgmt?region=us-west-1&project-resources-meta=eyJmIjp7InRleHQiOiiifSwicyI6eyJ... Star Help Feedback Copy Print Open in new tab

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Cloud File Management System

Developer Tools X aws Services

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Feedback

Search for services, features, marketplace products, and docs [Option+S]

Overview IDE Repository Pipeline Monitoring Issues

Next steps

Develop with AWS Cloud9
The AWS Cloud9 cloud-based IDE is fully integrated into AWS developer tools and ready to use in seconds.

Develop with other IDEs
We also have integrations with Visual Studio, Eclipse, and the command line interface.

Set up AWS Cloud9 **Set up other IDEs**

Track issues
Add issue tracking to your development workflow.

Add people to your project
Add team members to this project with IAM users.

Set up issue tracking **Add team members**

Project activity Edit

Pipeline **cloud-file-mgmt-Pipeline**

Most recent action Deploy: Deploy using CodeDeploy 11 hours ago

Status **Succeeded**

1h 3h 12h 1d 3d 1w GPUUtilization Add to dashboard

us-west-1.console.aws.amazon.com/codesuite/codestar/projects/cloud-file-mgmt/pipeline?region=us-west-1 Star Help Feedback Copy Print Open in new tab

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Search for services, features, marketplace products, and docs [Option+S]

Overview IDE Repository Pipeline **Monitoring** Issues

Pipeline details Info Edit View history Release change

Pipeline **cloud-file-mgmt-Pipeline** Most recent action Deploy: Deploy using CodeDeploy 11 hours ago Status **Succeeded**

Source

ApplicationSource AWS CodeCommit Succeeded - 11 hours ago b5820f7f

us-west-1.console.aws.amazon.com/codesuite/codestar/projects/cloud-file-mgmt/pipeline?region=us-west-1 Star Help Feedback Copy Print Open in new tab

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Search for services, features, marketplace products, and docs [Option+S]

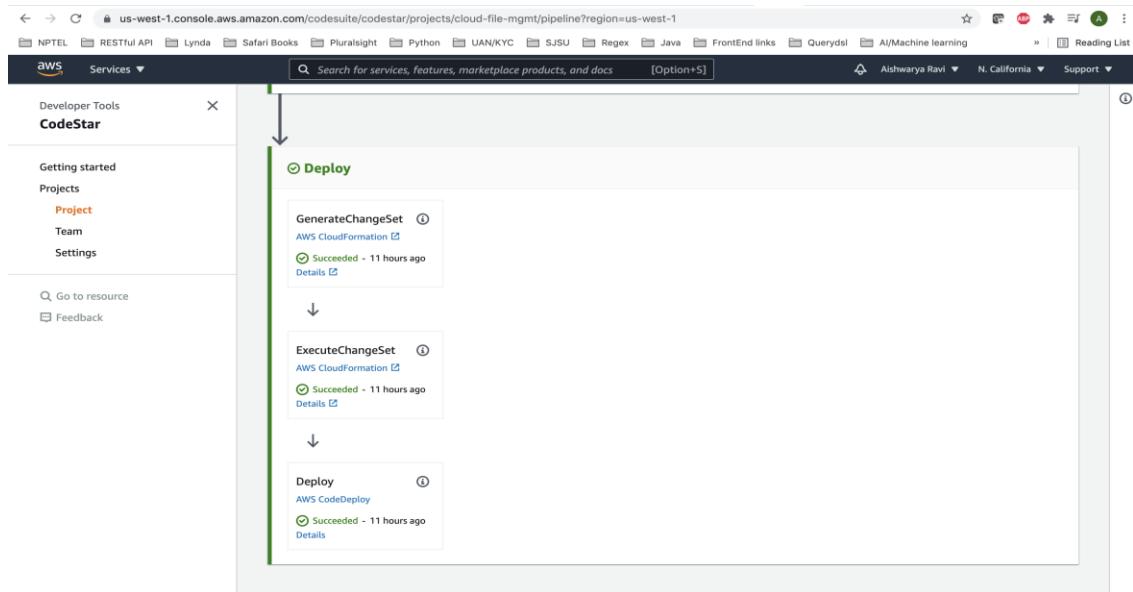
Build

PackageExport AWS CodeBuild Succeeded - 11 hours ago Details

Deploy

GenerateChangeSet AWS CloudFormation Succeeded - 11 hours ago Details

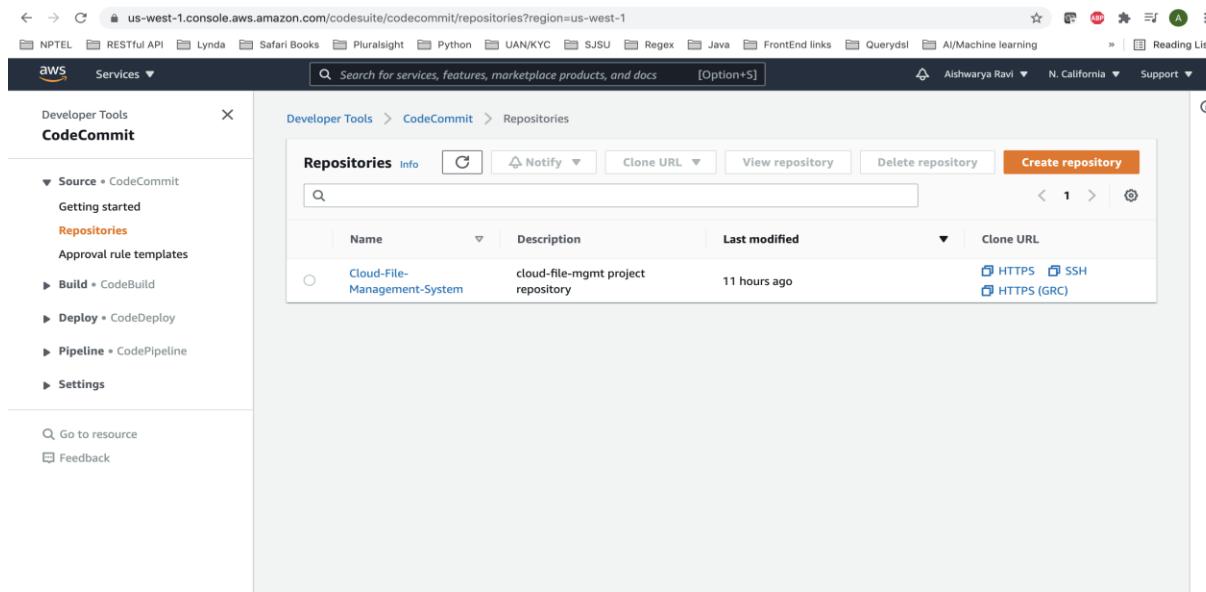
ExecuteChangeSet AWS CloudFormation Succeeded - 11 hours ago Details



The screenshot shows the AWS CodeStar console with a deployment pipeline. The pipeline consists of three steps:

- GenerateChangeSet** (AWS CloudFormation): Succeeded 11 hours ago.
- ExecuteChangeSet** (AWS CloudFormation): Succeeded 11 hours ago.
- Deploy** (AWS CodeDeploy): Succeeded 11 hours ago.

CodeCommit:



The screenshot shows the AWS CodeCommit console with a list of repositories. There is one repository listed:

Name	Description	Last modified	Clone URL
Cloud-File-Management-System	cloud-file-mgmt project repository	11 hours ago	HTTPS SSH HTTPS (GRC)

us-west-1.console.aws.amazon.com/codesuite/codestar/project/new?region=us-west-1

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Services Search for services, features, marketplace products, and docs [Option+S]

Select a repository provider
 CodeCommit Use a new AWS CodeCommit repository for your project. 
 GitHub Use a new GitHub source repository for your project (requires an existing GitHub account). 

Repository name: Cloud-File-Management-System
Repository name can only contain letters, numbers, dashes, underscores, and periods. It cannot end with ".git".

EC2 Configuration [Info](#)

Instance type: t2.micro

VPC: Choose the Amazon Virtual Private Cloud (VPC) for your instance to run in a private network with direct access to the Internet. vpc-0d73aaca16010ff4a

Subnet: Choose the IP subnet for your private network.

Key pair: Use a key pair to securely connect to your instance. file-system-keypair  I acknowledge that I have access to the private key file

us-west-1.console.aws.amazon.com/codesuite/codecommit/repositories/Cloud-File-Management-System/browse?region=us-west-1

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Services Search for services, features, marketplace products, and docs [Option+S]

Developer Tools **CodeCommit**

Source > CodeCommit > Repositories > Cloud-File-Management-System

Cloud-File-Management-System

Notify master Create pull request Clone URL

Cloud-File-Management-System [Info](#)

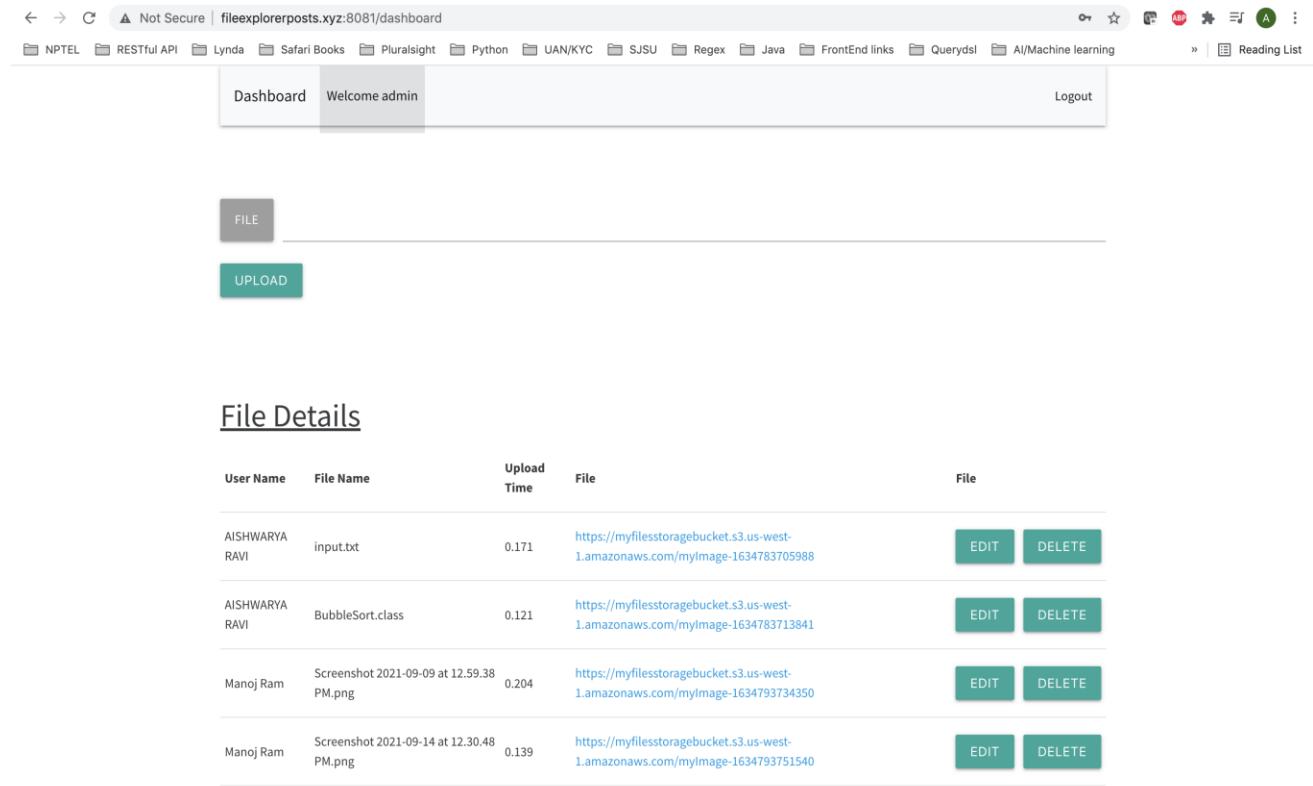
Add file

Name

Admin Panel

10 Points

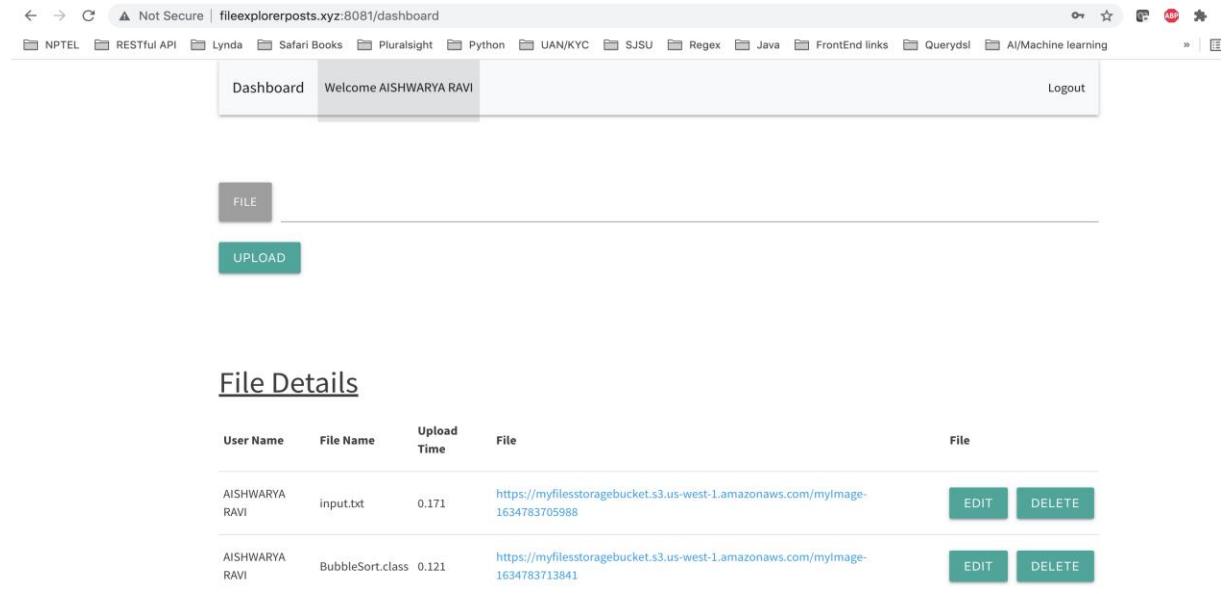
Admin dashboard lists all files of all users. Only admin can view all users' files, edit them and delete them.



The screenshot shows a web browser with the URL `fileexplorerposts.xyz:8081/dashboard`. The page title is "Welcome admin". The main content area is titled "File Details" and contains a table of uploaded files. The table has columns for User Name, File Name, Upload Time, and File. Each file entry includes "EDIT" and "DELETE" buttons. The table data is as follows:

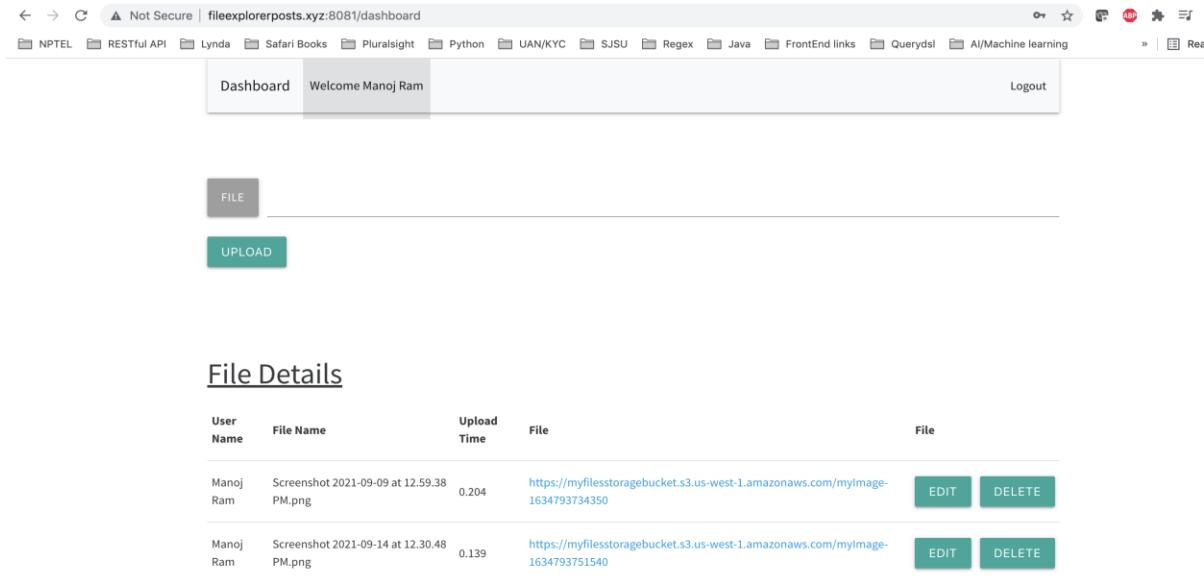
User Name	File Name	Upload Time	File	File
AISHWARYA RAVI	input.txt	0.171	https://myfilesstoragebucket.s3.us-west-1.amazonaws.com/myImage-1634783705988	EDIT DELETE
AISHWARYA RAVI	BubbleSort.class	0.121	https://myfilesstoragebucket.s3.us-west-1.amazonaws.com/myImage-1634783713841	EDIT DELETE
Manoj Ram	Screenshot 2021-09-09 at 12.59.38 PM.png	0.204	https://myfilesstoragebucket.s3.us-west-1.amazonaws.com/myImage-1634793734350	EDIT DELETE
Manoj Ram	Screenshot 2021-09-14 at 12.30.48 PM.png	0.139	https://myfilesstoragebucket.s3.us-west-1.amazonaws.com/myImage-1634793751540	EDIT DELETE

Whereas, Non admin users will only see the files that they uploaded and will be able to delete only them.



The screenshot shows a web browser with the URL `fileexplorerposts.xyz:8081/dashboard`. The page title is "Welcome AISHWARYA RAVI". The main content area is titled "File Details" and contains a table of uploaded files. The table has columns for User Name, File Name, Upload Time, and File. Each file entry includes "EDIT" and "DELETE" buttons. The table data is as follows:

User Name	File Name	Upload Time	File	File
AISHWARYA RAVI	input.txt	0.171	https://myfilesstoragebucket.s3.us-west-1.amazonaws.com/myImage-1634783705988	EDIT DELETE
AISHWARYA RAVI	BubbleSort.class	0.121	https://myfilesstoragebucket.s3.us-west-1.amazonaws.com/myImage-1634783713841	EDIT DELETE



The screenshot shows a web-based file explorer application. At the top, there is a navigation bar with links to various resources like NPTEL, RESTful API, Lynda, etc. The main header says "Not Secure | fileexplorerposts.xyz:8081/dashboard". Below the header, there is a "Dashboard" button and a "Logout" link. The main content area has a "FILE" button and a prominent "UPLOAD" button. Below these buttons, there is a section titled "File Details" with a table showing two uploaded files. The table columns are "User Name", "File Name", "Upload Time", "File", and "File". Each file row has "EDIT" and "DELETE" buttons.

User Name	File Name	Upload Time	File	File
Manoj Ram	Screenshot 2021-09-09 at 12.59.38 PM.png	0.204	https://myfilesstoragebucket.s3.us-west-1.amazonaws.com/myimage-1634793734350	EDIT DELETE
Manoj Ram	Screenshot 2021-09-14 at 12.30.48 PM.png	0.139	https://myfilesstoragebucket.s3.us-west-1.amazonaws.com/myimage-1634793751540	EDIT DELETE

UI, Documentation, Video, AWS Resource Config

10 Points

Front end has been implemented using EJS and the UI could be seen by accessing the domain (<http://fileexplorerposts.xyz:8081/>)

Documentation is written here and is also available in GitHub (ReadMe)

Video has been uploaded to the GitHub and is under the folder 'zoom'.

AWS Resource Config

Dashboard

Rules

Resources

Advanced query
Settings
AuthorizationsAggregated view
Rules
Resources
Aggregators**What's new**

Learn More

Documentation 
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i The redesigned AWS Config console is now available for use.
We've completely redesigned the console to improve the overall look and feel. [Try it out now.](#)

Config Dashboard

St

Resources

Total resource count	41
Top 10 resource types	Total
 S3 Bucket	8
 RDS DBSnapshot	7
 EC2 SecurityGroup	5
 EC2 NetworkInterface	3
 EC2 Subnet	3
 EC2 Instance	2
 RDS DBSubnetGroup	2
 EC2 EIP	2
 EBS Volume	2

Config rule compliance

Evaluate your AWS resource configuration using Config rules
Add rules to define the desired configuration settings for your AWS resources.  0

Resource compliance

Noncompliant rule(s)  Add rule

Noncompliant resource(s)

Noncompliant rules

Rule name	Compliance
-----------	------------

All rules compliant