

Clone my Repository code and then perform the below mentioned steps.

<https://github.com/sonam-niit/Devops-Capstone-March-2025.git>

Create Aws User using IAM

Attach below mention Permissions

<input type="checkbox"/>	Policy name <a href="#">↗</a>	Type	Attached via <a href="#">↗</a>
<input type="checkbox"/>	<a href="#">AdministratorAccess</a>	AWS managed - job function	Directly
<input type="checkbox"/>	<a href="#">AmazonEC2ContainerRegistryF...</a>	AWS managed	Directly
<input type="checkbox"/>	<a href="#">AmazonEC2FullAccess</a>	AWS managed	Directly
<input type="checkbox"/>	<a href="#">AmazonS3FullAccess</a>	AWS managed	Directly
<input type="checkbox"/>	<a href="#">IAMFullAccess</a>	AWS managed	Directly
<input type="checkbox"/>	<a href="#">IAMUserChangePassword</a>	AWS managed	Directly

Also Create Access Keys and Secret keys

Configure AWS for executing Terraform

Set Repository Secrets

Repository → settings → Secrets → Actions → New repo Secret

Repository secrets		New repository secret	
Name <a href="#">↕</a>		Last updated	
<a href="#">AWS_ACCESS_KEY_ID</a>		2 minutes ago	<a href="#">✎</a> <a href="#">🗑</a>
<a href="#">AWS_REGION</a>		1 minute ago	<a href="#">✎</a> <a href="#">🗑</a>
<a href="#">AWS_SECRET_ACCESS_KEY</a>		2 minutes ago	<a href="#">✎</a> <a href="#">🗑</a>
<a href="#">FRONTEND_BUCKET_NAME</a>		now	<a href="#">✎</a> <a href="#">🗑</a>
<a href="#">LAMBDA_FUNCTION</a>		1 minute ago	<a href="#">✎</a> <a href="#">🗑</a>
<a href="#">UPLOAD_BUCKET_NAME</a>		now	<a href="#">✎</a> <a href="#">🗑</a>

Let us Go to the code base and open wsl in your project.

Create Zip file for lambda functions

Cd backend/generate-presigned-url

zip -r lambda.zip

do it for both lambda function.

Let's Create TfState(remote backend) Bucket

```
aws s3api create-bucket \
--bucket devops-accelerator-platform-tf-state1 \
--region us-east-1
```

```
sonam@DESKTOP-4F8ELLU:/mnt/d/PhysicsWalla/Devops-March/capstone-project/backend/process-uploaded-file$ aws s3api create-bucket --bucket devops-accelerator-platform-tf-state --region us-east-1
{
  "Location": "/devops-accelerator-platform-tf-state"
}
```

Create Dynamotable:

```
aws dynamodb create-table --table-name devops-accelerator-tf-locker --attribute-definitions AttributeName=LockID,AttributeType=S --key-schema AttributeName=LockID,KeyType=HASH --billing-mode PAY_PER_REQUEST --region us-east-1
```

```
sonam@DESKTOP-4F8ELLU:/mnt/d/PhysicsWalla/Devops-March/capstone-project/backend/process-uploaded-file$ aws dynamodb create-table --table-name devops-accelerator-tf-locker --attribute-definitions AttributeName=LockID,AttributeType=S --key-schema AttributeName=LockID,KeyType=HASH --billing-mode PAY_PER_REQUEST --region us-east-1
{
  "TableDescription": {
    "AttributeDefinitions": [
      {
        "AttributeName": "LockID",
        "AttributeType": "S"
      }
    ],
    "TableName": "devops-accelerator-tf-locker",
    "KeySchema": [
      {
        "AttributeName": "LockID"
      }
    ]
  }
}
```

Let's Push Thigs on Github

Then check terraform pipeline for resource creation

Terraform Apply

succeeded 1 minute ago in 4m 39s

Search logs

▼ Terraform Apply

684 `aws_s3_bucket_cors_configuration.frontend_cors: Creation complete after 17s [id=devops-accelerator-frontend-hosting-bu`  
685  
686 `Apply complete! Resources: 27 added, 0 changed, 0 destroyed.`  
687  
688 `Outputs:`  
689 `cloudfront_url = "dw6cbnumovhrx.cloudfront.net"`  
690 `frontend_bucket_name = "devops-accelerator-frontend-hosting-bucket"`  
691 `lambda_function_name = "process-uploaded-file"`  
692 `presigned_url_api_endpoint = "https://bt7mn8zkug.execute-api.us-east-1.amazonaws.com"`  
693 `s3_bucket_name = ""`

▼ Post Configure AWS credentials

1 `Post job cleanup.`

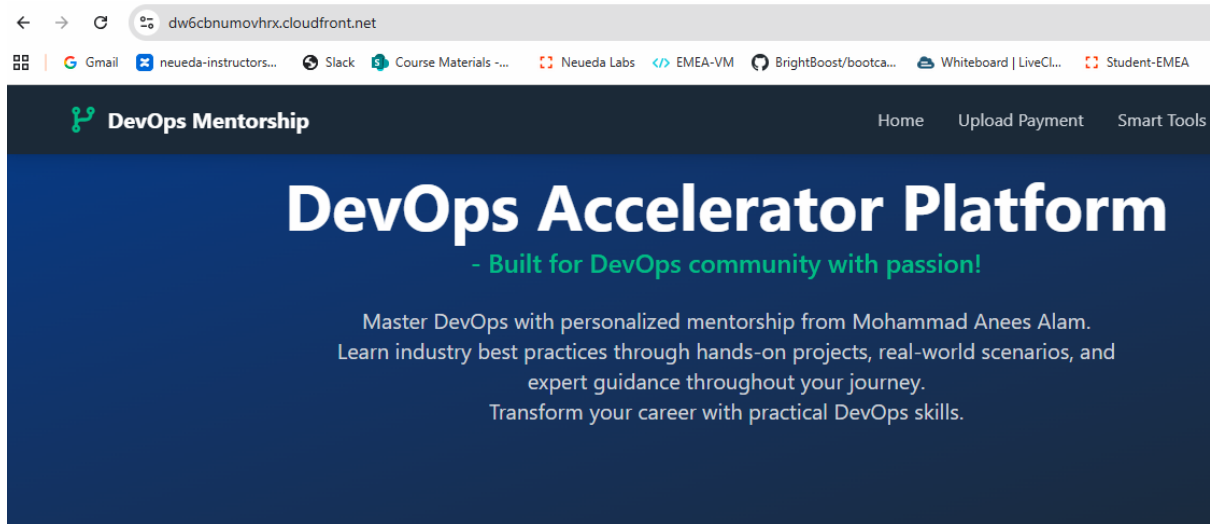
```

686 Outputs:
687 cloudfront_url = "douwxy8gkthtv.cloudfront.net"
688 frontend_bucket_name = "devops-accelerator-frontend-hosting-bucket"
689 lambda_function_name = "process-uploaded-file"
690 presigned_url_api_endpoint = "https://gsqneb70dh.execute-api.us-east-1.amazonaws.com"
691 s3_bucket_name = "****"

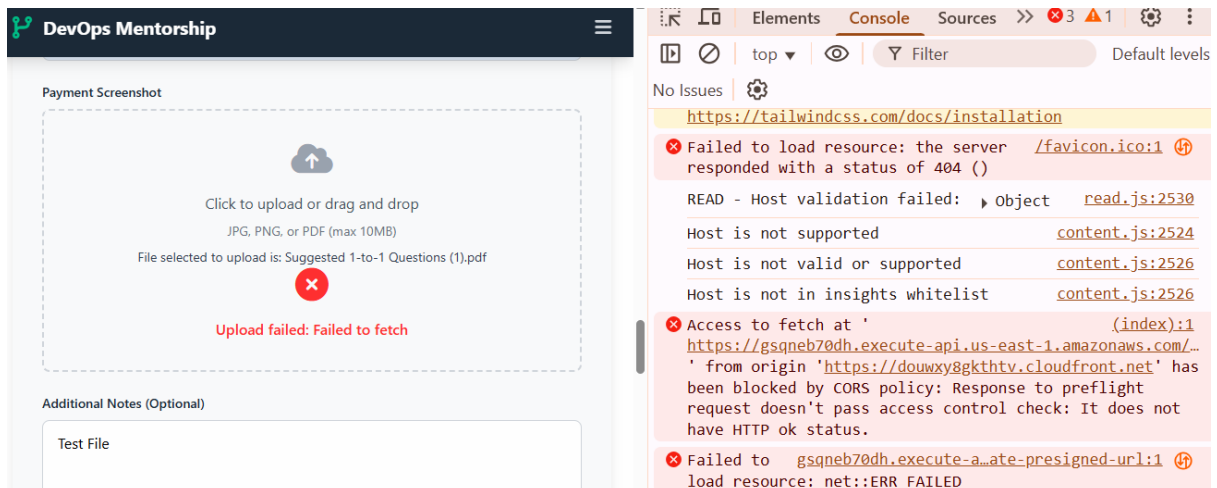
```

You will get below url which you can check: `douwxy8gkthtv.cloudfront.net`

Below will be output if you check in browser.



Now Let's Try to upload the PDF from the form.



We are getting CORS Policy Error

To resolve this CORS error we need to set its permission in the bucket.

Open devops-accelerator-upload-bucket and set CORS permission.

## devops-accelerator-upload-bucket Info

Objects | Metadata | Properties | **Permissions** | Metrics | Management | Access Points

### Permissions overview

#### Access finding

Access findings are provided by IAM external access analyzers. Learn more about [How IAM analyzer findings work](#)

[View analyzer for us-east-1](#)

Scroll down and search for CORS

### Cross-origin resource sharing (CORS)

The CORS configuration, written in JSON, defines a way for client web applications that are loaded in one domain to interact with resources in a different domain. [Learn more](#)

Edit

No configurations to display

Copy

Click on Edit and add CORS permission.

```
[
  {
    "AllowedHeaders": [
      "*"
    ],
    "AllowedMethods": [
      "GET",
      "PUT",
      "POST",
      "DELETE",
      "HEAD"
    ],
    "AllowedOrigins": [
      "*"
    ],
    "ExposeHeaders": []
  }
]
```

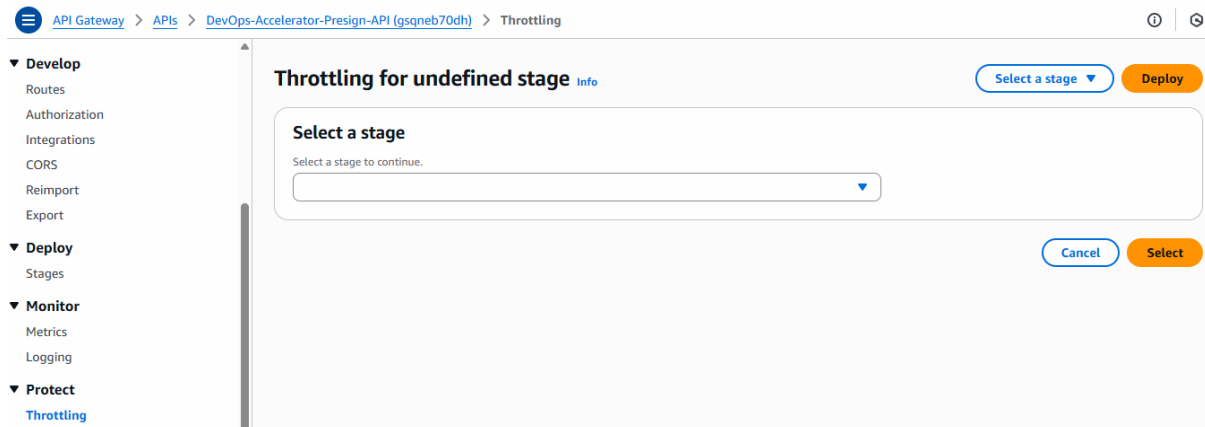
]

```
1 ▼ [
2 ▼   {
3 ▼     "AllowedHeaders": [
4       "*"
5     ],
6 ▼     "AllowedMethods": [
7       "GET",
8       "PUT",
9       "POST",
10      "DELETE",
11      "HEAD"
12     ],
13 ▼    "AllowedOrigins": [
14      "*"
15     ],
16     "ExposeHeaders": []
17   }
18 ]
```

Save the Changes.

If still you are getting an error. Then

Goto > aws> Apis > devops-accelerator-api > click on it



Select Stage – click on that and select Default.

## Throttling for \$default stage

### Edit default route throttling

Burst limit

Rate limit

Cancel

Save

## Throttling for \$default stage [Info](#)

Stage: \$default ▼

Deploy

### Route settings on stage

Routes that have custom settings appear here.

Use the CLI or an SDK to create custom route settings. [Learn more](#)

### Selected route throttling

This throttling limit applies to the selected route. This overrides the default route throttling.

Please select a route to edit

or

use the CLI or SDK to create a new route setting. [Learn more](#)

### Default route throttling

Edit

This throttling limit applies to each route in the stage except those defined for specific routes.

Burst limit

100

Rate limit

200

### Account throttling

This throttling limit applies to the account and is shared by all APIs in this region.

Let's Try to upload again.

Full Name

Email Address

Payment Screenshot



Click to upload or drag and drop

JPG, PNG, or PDF (max 10MB)



Upload successful!

Suggested 1-to-1 Questions (1).pdf

Additional Notes (Optional)

Check your bucket to see the upload

## devops-accelerator-upload-bucket [Info](#)

[Objects](#) | [Metadata](#) | [Properties](#) | [Permissions](#) | [Metrics](#) | [Management](#) | [Access Points](#)

### Objects (1)



[Copy S3 URI](#)

[Copy URL](#)

[Download](#)

[Open](#)

[Delete](#)

[Acti](#)

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 them permissions. [Learn more](#)

<input type="checkbox"/>	Name	Type	Last modified	Size
<input type="checkbox"/>	<a href="#">6a666a79-0a41-42fd-a838-61af8465f732_Suggested 1-to-1 Questions (1).pdf</a>	pdf	October 4, 2025, 09:52:22 (UTC+05:30)	

## Check logs in the cloud watch

### CloudWatch

[Favorites and recents](#)

[Dashboards](#)

► [AI Operations](#) [New](#)

► [Alarms](#) [0](#) [0](#) [0](#)

▼ [Logs](#)

[Log groups](#)

[Log Anomalies](#)

[Live Tail](#)

[Logs Insights](#)

[Contributor Insights](#)

### Log events



[Actions](#)

[Start tailing](#)

[Create metric filter](#)

You can use the filter bar below to search for and match terms, phrases, or values in your log events. [Learn more about filter patterns](#)

1m

1h



UTC timezone

[Display](#)

Timestamp	Message
No older events at this moment. <a href="#">Retry</a>	
2025-10-04T04:22:19.576Z	INIT_START Runtime Version: python:3.12.v88 Runtime Version ARN: arn:aws:lambda:us-east-1::runtime:4ef3157c9...
2025-10-04T04:22:20.136Z	START RequestId: 92ae56e7-9396-44dc-af97-603e4a243f87 Version: \$LATEST
2025-10-04T04:22:20.137Z	Received upload from: Sonam Soni (sonam.gravity@gmail.com), Notes: Test Data
2025-10-04T04:22:20.180Z	END RequestId: 92ae56e7-9396-44dc-af97-603e4a243f87
2025-10-04T04:22:20.180Z	REPORT RequestId: 92ae56e7-9396-44dc-af97-603e4a243f87 Duration: 43.24 ms Billed Duration: 600 ms Memory Siz...
No newer events at this moment. <a href="#">Auto retry paused</a> . <a href="#">Resume</a>	