

Create s3 buckets

```
aws s3 mb s3://file-upload-source-bucket-123
```

```
aws s3 mb s3://processed-pdf-files-bucket-123
```

```
aws s3 mb s3://processed-image-files-bucket-123
```

create iam role for lambda:

```
aws iam create-role --role-name LambdaS3FileCategorizerRole --assume-role-policy-document '{
```

```
  "Version": "2012-10-17",
```

```
  "Statement": [
```

```
    {
```

```
      "Effect": "Allow",
```

```
      "Principal": {
```

```
        "Service": "lambda.amazonaws.com"
```

```
      },
```

```
      "Action": "sts:AssumeRole"
```

```
    }
```

```
  ]
```

```
}'
```

Attach policies to role:

```
aws iam attach-role-policy --role-name LambdaS3FileCategorizerRole --policy-arn  
arn:aws:iam::aws:policy/AmazonS3FullAccess
```

```
aws iam attach-role-policy --role-name LambdaS3FileCategorizerRole --policy-arn  
arn:aws:iam::aws:policy/service-role/AWSLambdaBasicExecutionRole
```

s3 event notification:

```
aws s3api put-bucket-notification-configuration \
```

```
  --bucket file-upload-source-bucket-123 \
```

```
--notification-configuration '{
  "LambdaFunctionConfigurations": [
    {
      "LambdaFunctionArn":
"arn:aws:lambda:YOUR_REGION:YOUR_ACCOUNT_ID:function:S3FileCategorizer",
      "Events": ["s3:ObjectCreated:*"]
    }
  ]
}'
```

Permission for s3 to invoke lambda:

```
aws lambda add-permission \
  --function-name S3FileCategorizer \
  --principal s3.amazonaws.com \
  --statement-id s3-invoke \
  --action "lambda:InvokeFunction" \
  --source-arn arn:aws:s3:::file-upload-source-bucket-123 \
  --source-account YOUR_ACCOUNT_ID
```

Crawler database:

```
aws glue create-database --database-input '{
  "Name": "file_categorizer_db"
}'
```

Create crawlers:

Pdf:

```
aws glue create-crawler --name pdf_files_crawler \
  --role arn:aws:iam::YOUR_ACCOUNT_ID:role/service-role/AWSGlueServiceRole \
  --database-name file_categorizer_db \
```

```
--targets '{
  "S3Targets": [
    {
      "Path": "s3://processed-pdf-files-bucket-123"
    }
  ]
}' \
--schedule "cron(0 12 * * ? *)"
```

Image:

```
aws glue create-crawler --name image_files_crawler \
  --role arn:aws:iam::YOUR_ACCOUNT_ID:role/service-role/AWSGlueServiceRole \
  --database-name file_categorizer_db \
  --targets '{
    "S3Targets": [
      {
        "Path": "s3://processed-image-files-bucket-123"
      }
    ]
  }' \
  --schedule "cron(0 12 * * ? *)"
```

Start crawlers:

```
aws glue start-crawler --name pdf_files_crawler
aws glue start-crawler --name image_files_crawler
```