7. Laboratory Exercise

A. Procedure:

- a. Perform following steps.
- Create Execution role using IAM

Select trusted entity Info

Trusted entity type

AWS service

Allow AWS services like EC2, Lambda, or others to perform actions in this account. AWS account

Allow entities in other AWS accounts belonging to you or a 3rd party to perform actions in this account.

Web identity

Allows users federated by the specified external web identity provider to assume this role to perform actions in this account.

SAML 2.0 federation

Allow users federated with SAML 2.0 from a corporate directory to perform actions in this account.

Custom trust policy

Create a custom trust policy to enable others to perform actions in this account.

Use case

Allow an AWS service like EC2, Lambda, or others to perform actions in this account.

Common use cases

EC2

Allows EC2 instances to call AWS services on your behalf.

Lambda

Allows Lambda functions to call AWS services on your behalf.

Use cases for other AWS services:

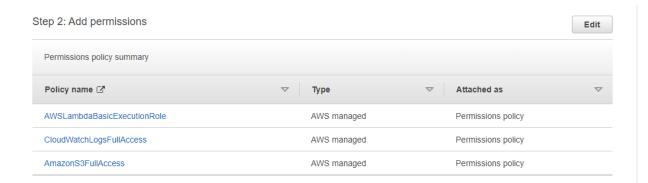
Choose a service to view use case

AmazonS3FullAccess
CloudWatchLogsFullAccess
AWSLambdaBasicExecutionRole

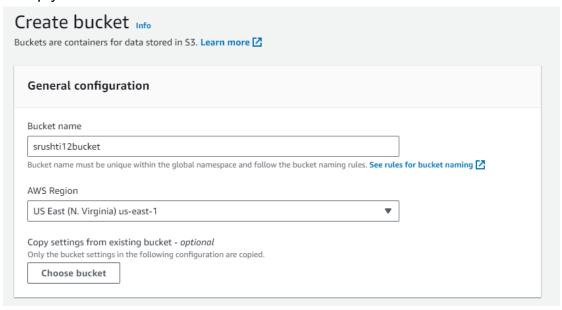
Step 1: Select trusted entities

```
1 - [
        "Version": "2012-10-17",
 2
       "Statement": [
3 ₹
 4 -
         {
               "Effect": "Allow",
 5
 6 +
               "Action": [
 7
                   "sts:AssumeRole"
 8
9 +
               "Principal": {
                   "Service": [
10 -
11
                      "lambda.amazonaws.com"
12
13
14
           }
15
16 }
```

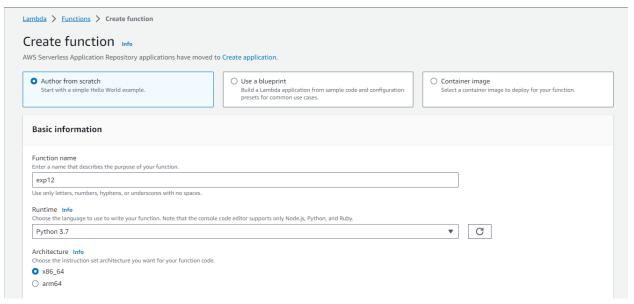
TEITB



• empty s3 bucket

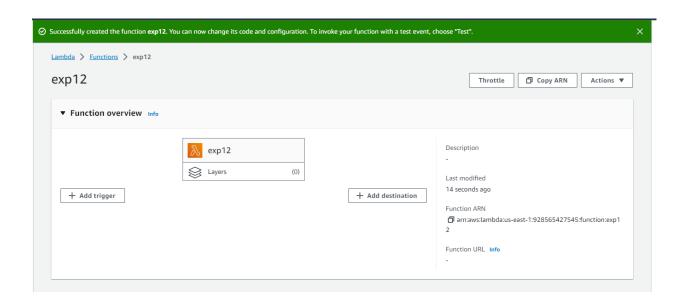


• create Lambda function from console

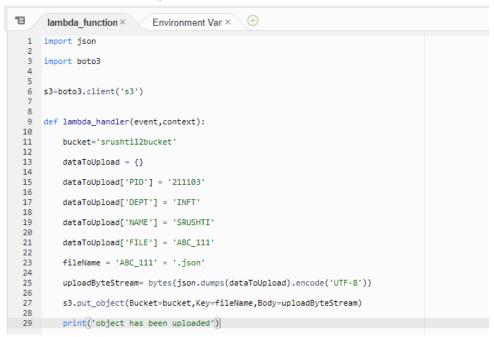


Invoke Lambda function and verify results.

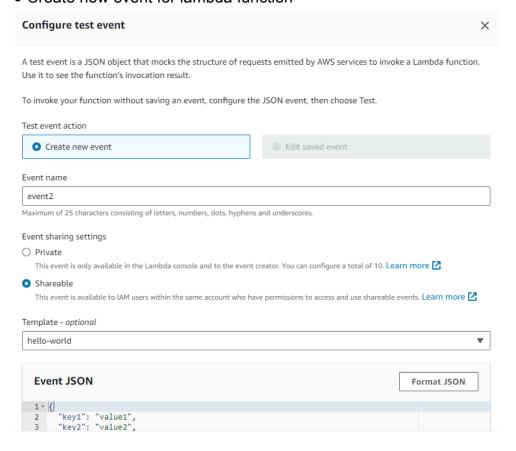
| ▼ Change default execution role | | |
|--|---|---|
| Execution role Choose a role that defines the permissions of your function. To create a custom role, go to the IAM console | | |
| O Create a new role with basic Lambda permissions | | |
| Use an existing role | | |
| ○ Create a new role from AWS policy templates | | |
| Existing role Choose an existing role that you've created to be used with this Lambda function. The role must have permission to upload logs to Amazon CloudWatch Logs. | | |
| exp12role | • | C |
| View the exp12role role ☑ on the IAM console. | | |



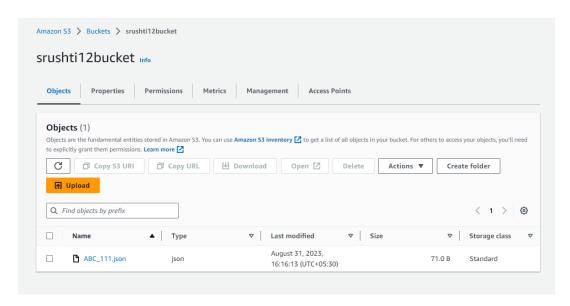
• lambda function script

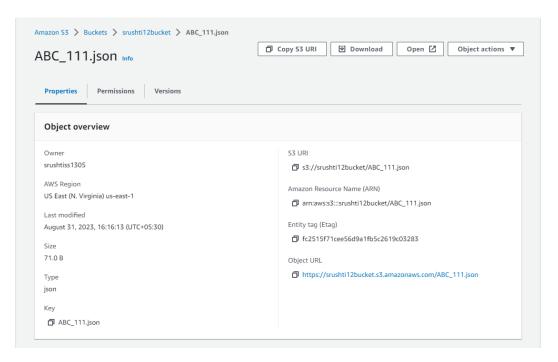


• Create new event for lambda function











• Clean up resources.

