

Experiment 8 Output

Aim: This experiment covers managing users, permissions, and security policies with AWS IAM. It uses **Docker**, **LocalStack**, and **AWS CLI** to simulate **IAM** in a local cloud setup, focusing on access controls, policies, and roles.

Creating IAM User

```
C:\Users\rawat\Documents\8 SEMESTER\Cloud Computing\Lab\Experiment 8\AWS IAM\awscli> aws iam create-user
```

CreateUser	
User	
Arn	arn:aws:iam::000000000000:user/test-user
CreateDate	2025-03-06T15:43:02.050000Z
Path	/
UserId	7117td3a2x1shy4p7x2b
UserName	test-user

Fig 1: IAM User

Listing Users

```
C:\Users\rawat\Documents\8 SEMESTER\Cloud Computing\Lab\Experiment 8\AWS IAM\awscli> aws iam list-users
```

ListUsers	
Users	
Arn	arn:aws:iam::000000000000:user/test-user
CreateDate	2025-03-06T15:43:02.050000Z
Path	/
UserId	7117td3a2x1shy4p7x2b
UserName	test-user

Fig 3: Users List Table

Listing Policies

```
C:\Users\rawat\Documents\8 SEMESTER\Cloud Computing\Lab\Experiment 8\AWS IAM\awscli> aws iam list-attached-user-policies --user-name test-user
```

ListAttachedUserPolicies	
AttachedPolicies	
PolicyArn	PolicyName
arn:aws:iam::aws:policy/AdministratorAccess	AdministratorAccess

Fig 4: Policies List Table

Creating Roles

```
C:\Users\rawat\Documents\8 SEMESTER\Cloud Computing\Lab\Experiment 8\AWS IAM\awscli> aws iam create-role --role-name ec2-role --assume-role-policy-document '{ "Version": "2012-10-17", "Statement": [ { "Action": "sts:AssumeRole", "Effect": "Allow", "Principal": { "Service": "ec2.amazonaws.com" } } ] }'
```

CreateRole	
Role	
Arn	arn:aws:iam::000000000000:role/ec2-role
CreateDate	2025-03-06T15:44:48.493000Z
Path	/
RoleId	AROQAQAAAAAANMF4UL4W3
RoleName	ec2-role

AssumeRolePolicyDocument	
Version	2012-10-17
Statement	
Action	sts:AssumeRole
Effect	Allow
Principal	
Service	ec2.amazonaws.com

Fig 2: Roles Table

Listing Roles

```
C:\Users\rawat\Documents\8 SEMESTER\Cloud Computing\Lab\Experiment 8\AWS IAM\awscli> aws iam list-roles
```

ListRoles	
Roles	
Arn	arn:aws:iam::000000000000:role/ec2-role
CreateDate	2025-03-06T15:44:48.493575Z
MaxSessionDuration	3600
Path	/
RoleId	AROQAQAAAAAANMF4UL4W3
RoleName	ec2-role

AssumeRolePolicyDocument	
Version	2012-10-17
Statement	
Action	sts:AssumeRole
Effect	Allow
Principal	
Service	ec2.amazonaws.com

Fig 5: Roles Output