

**Fr. Conceicao Rodrigues college of Engineering**  
**Department of Computer Engineering**  
**Experiment 7**

<b>Title:</b>	<b>Study and Implementation of AWS IAM and NACL</b>	<b>LO4</b>
<b>Student Name</b>	<u>Morik Lopes</u>	<b>Roll no.</b>
Sign here to indicate that you have read all relevant material provided/ available on Moodle/ Classroom while performing and writing this experiment		<u>9913</u>

**Rubrics:**

Criteria	Excellent	Good	Satisfactory	Poor	Total Marks
<b>AWS IAM Configuration (R3)</b>	Demonstrates advanced understanding and application of IAM, including creating users and groups, assigning permissions, and understanding of security practices. (5-6)	Shows good understanding of IAM with minor mistakes in user and group creation or permissions assignment. (3-4)	Basic understanding and application of IAM; some errors in user and group creation or permissions that do not significantly impact functionality. (2)	Limited understanding of IAM; significant errors in user and group creation or permissions that affect functionality. (1)	6 <u>06</u>
<b>AWS NACL Configuration (R2)</b>	Fully and correctly configures NACLs with an advanced understanding of inbound and outbound rules, and subnet associations, demonstrating security best practices. (5-6)	Correctly configures NACLs with minor mistakes or omissions that do not compromise security. (3-4)	Satisfactory configuration of NACLs; some misunderstandings or errors that have a moderate impact on security or functionality. (2)	Poor configuration of NACLs; significant misunderstandings or errors that compromise security or functionality. (1)	6 <u>04</u>
<b>Post Lab (R3)</b>	Fully completed exercise with exceptional creativity or insight, applying lab concepts effectively with thorough documentation. (5-6)	Mostly completed with minor omissions, showing good understanding and creativity, well-documented. (3-4)	Partially completed with significant omissions but some understanding, with sufficient documentation. (2)	Exercise not completed or shows very little understanding of the topic, with inadequate documentation. (1)	6 <u>05</u>
<b>Timeliness of Submission (R4)</b>	On time (2)	1-week late (1)	2-weeks late (0)	More than 2 weeks late (Deduct up to 5 marks)	2 <u>00</u>
<b>Total Marks</b>					<u>13</u>

Date of Performance	Date of Submission	Signature of the Teacher
		<u>[Signature]</u>

Identity and Access Management (IAM)

Search IAM

Dashboard

Access management

Users

Roles

Policies

Identity providers

Account settings

Root access management

Access reports

Access Analyzer

External access

Unused access

Analyzer settings

Credential report

user-1

Info

Delete

Summary

ARN  
arn:aws:iam::202533503126:user/user-1

Console access  
Enabled without MFA

Access key 1  
Create access key

Created  
April 24, 2025, 21:40 (UTC+05:30)

Last console sign-in  
Today

Permissions

Groups (1)

Tags

Security credentials

Last Accessed

Permissions policies (1)

Permissions are defined by policies attached to the user directly or through groups.

Search

Filter by Type  
All types

< 1 >

☐ Policy name

☐ AmazonS3ReadOnlyAccess

Type  
AWS managed

Attached via  
Group S3-Support

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Analyzer settings

Credential report

user-2

Info

Delete

Summary

ARN  
arn:aws:iam::202533503126:user/user-2

Console access  
Enabled without MFA

Access key 1  
Create access key

Created  
April 24, 2025, 21:42 (UTC+05:30)

Last console sign-in  
4 days ago

Permissions

Groups (1)

Tags

Security credentials

Last Accessed

Permissions policies (1)

Permissions are defined by policies attached to the user directly or through groups.

Search

Filter by Type  
All types

< 1 >

☐ Policy name

☐ AmazonEC2ReadOnlyAccess

Type  
AWS managed

Attached via  
Group EC2-Support

Permissions boundary (not set)

Generate policy based on CloudTrail events

Identity and Access Management (IAM)

Search IAM

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Root access management

Access reports

Access Analyzer

External access

Unused access

Analyzer settings

Credential report

user-3

Info

Delete

Summary

ARN  
arn:aws:iam::202533503126:user/user-3

Console access  
Enabled without MFA

Access key 1  
Create access key

Created  
April 24, 2025, 21:42 (UTC+05:30)

Last console sign-in  
4 days ago

Permissions

Groups (1)

Tags

Security credentials

Last Accessed

Permissions policies (1)

Permissions are defined by policies attached to the user directly or through groups.

Search

Filter by Type  
All types

< 1 >

☐ Policy name

☐ ec2-admin

Type  
Customer inline

Attached via  
Group EC2-Admin

ng and Cost Manage...

IAM > User groups > EC2-Admin > Edit policy

### Policy editor

Visual JSON Actions

```
1 {
2   "Version": "2012-10-17",
3   "Statement": [
4     {
5       "Effect": "Allow",
6       "Action": [
7         "ec2:StartInstances",
8         "ec2:StopInstances",
9         "ec2:Describe*",
10      ],
11      "Resource": "*"
12    },
13    {
14      "Effect": "Allow",
15      "Action": [
16        "elasticloadbalancing:Describe*",
17        "cloudwatch:ListMetrics",
18        "cloudwatch:GetMetricStatistics",
19        "cloudwatch:Describe*"
20      ],
21      "Resource": "*"
22    }
23  ]
24 }
```

**Edit statement** Remove

**Add actions**

Choose a service

Filter services

Included

EC2

Available

AI Operations

AMP

API Gateway

API Gateway V2

ARC Zonal Shift

ASC

Access Analyzer

Account

Activate

aws Search [Alt+S]

VPC > Your VPCs > vpc-0248a93ff0901fb68

### VPC dashboard

EC2 Global View

Filter by VPC

**Virtual private cloud**

Your VPCs

Subnets

Route tables

Internet gateways

Egress-only internet gateways

DHCP option sets

Elastic IPs

Managed prefix lists

NAT gateways

Peering connections

**Security**

Network ACLs

Security groups

**PrivateLink and Lattice**

Getting started Updated

Endpoints Updated

CloudShell Feedback

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Main network ACL  
acl-0debb80ddfd8dccb

Default VPC  
No

IPv4 CIDR  
10.0.0.0/16

IPv6 pool  
-

IPV6 CIDR (Network border group)  
-

Network Address Usage metrics  
Disabled

Route 53 Resolver DNS Firewall rule groups  
-

Owner ID  
412381764365

**Resource map** CIDRs Flow logs Tags Integrations

### Resource map

**VPC** Show details  
Your AWS virtual network  
my\_nacl-vpc

**Subnets (4)**  
Subnets within this VPC

**ap-south-1a**

- my\_nacl-subnet-public1-ap-south...
- my\_nacl-subnet-private1-ap-sout...

**ap-south-1b**

- my\_nacl-subnet-public2-ap-south...
- my\_nacl-subnet-private2-ap-sout...

**Route tables (4)**  
Route network traffic to resources

- my\_nacl-rtb-private2-ap-south-1b
- rtb-0c5b9d7501dfd283b
- my\_nacl-rtb-private1-ap-south-1a
- my\_nacl-rtb-public

**Network connections (2)**  
Connections to other networks

- my\_nacl-igw
- my\_nacl-vpc-s3