

# Cloud Computing Laboratory

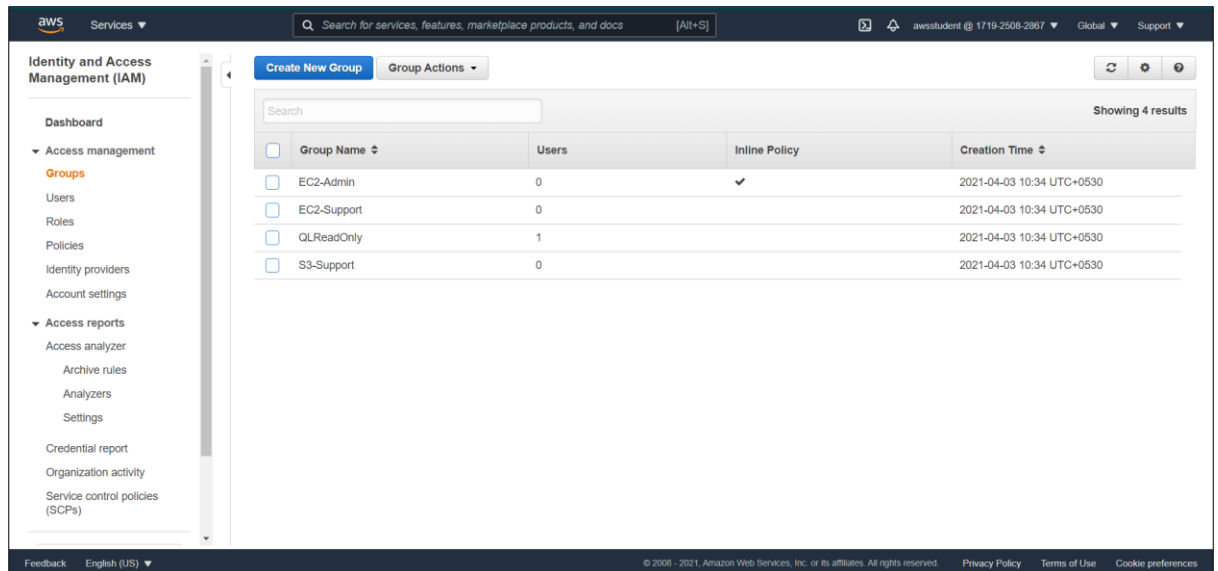
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Section: E

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## 1. Explore the Users and Groups

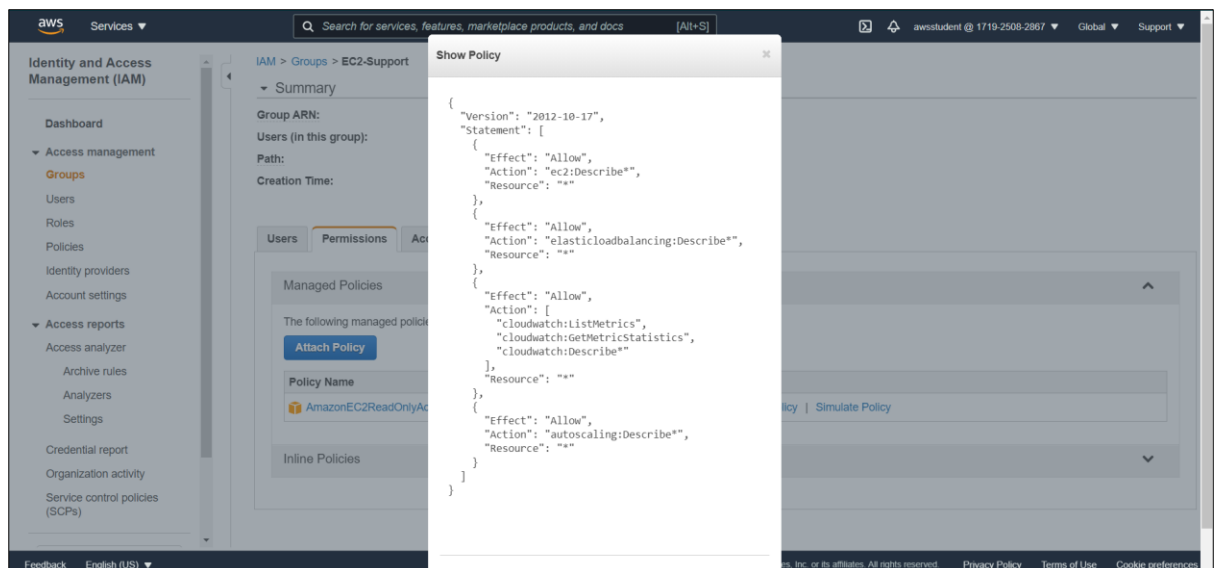
1a.png - list of groups showing that they have zero users in each group



The screenshot shows the AWS IAM console 'Groups' page. A table lists four groups: EC2-Admin, EC2-Support, QLReadOnly, and S3-Support. The 'Users' column for all groups shows a value of 0. The 'Creation Time' for all groups is 2021-04-03 10:34 UTC+0530.

<input type="checkbox"/>	Group Name	Users	Inline Policy	Creation Time
<input type="checkbox"/>	EC2-Admin	0	✓	2021-04-03 10:34 UTC+0530
<input type="checkbox"/>	EC2-Support	0		2021-04-03 10:34 UTC+0530
<input type="checkbox"/>	QLReadOnly	1		2021-04-03 10:34 UTC+0530
<input type="checkbox"/>	S3-Support	0		2021-04-03 10:34 UTC+0530

1b.png - Showing policy for EC2-Support group.

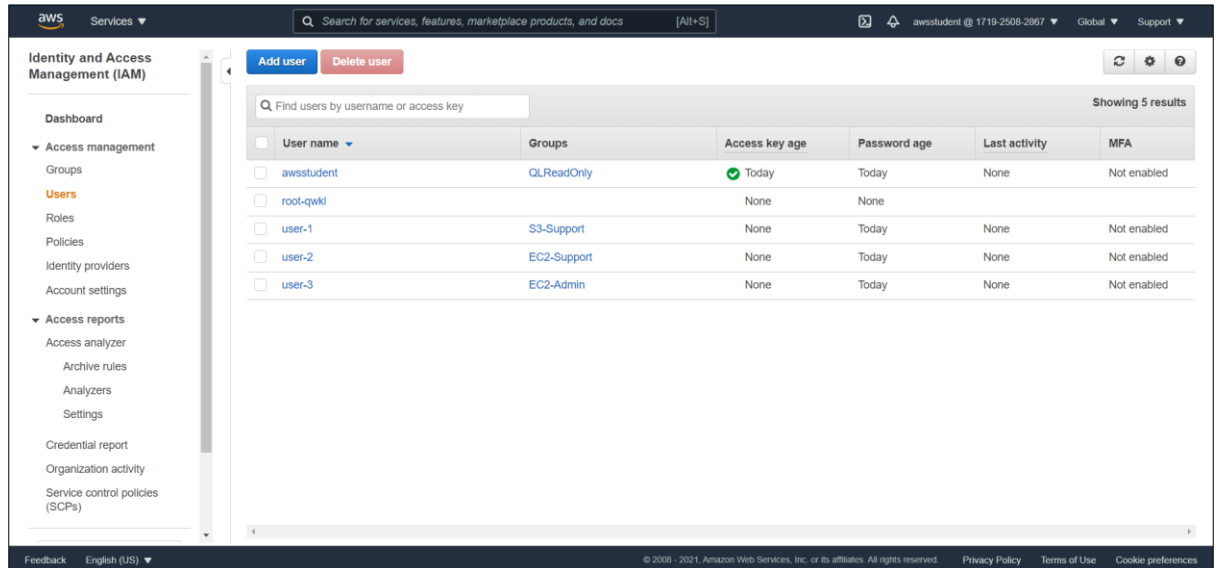


The screenshot shows the 'Show Policy' dialog for the EC2-Support group. The policy is a JSON document with three statements, each allowing a specific action on all resources (\*).

```
{
  "Version": "2012-10-17",
  "Statement": [
    {
      "Effect": "Allow",
      "Action": "ec2:Describe*",
      "Resource": "*"
    },
    {
      "Effect": "Allow",
      "Action": "elasticloadbalancing:Describe*",
      "Resource": "*"
    },
    {
      "Effect": "Allow",
      "Action": [
        "cloudwatch:ListMetrics",
        "cloudwatch:GetMetricStatistics",
        "cloudwatch:Describe*"
      ],
      "Resource": "*"
    },
    {
      "Effect": "Allow",
      "Action": "autoscaling:Describe*",
      "Resource": "*"
    }
  ]
}
```

## 2. Add Users to the Groups

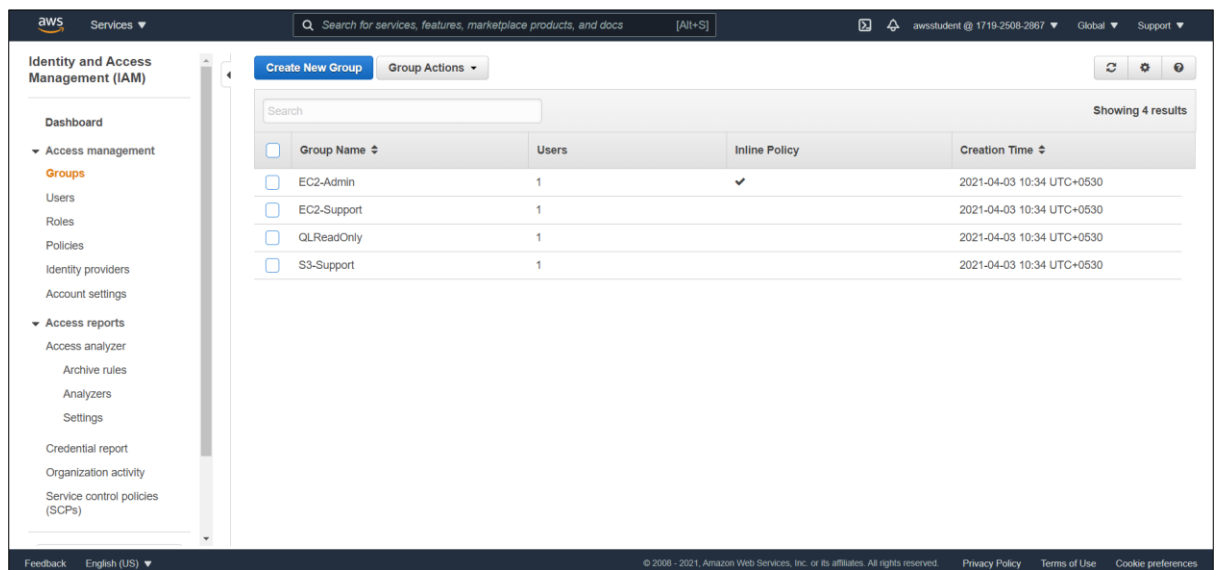
2a.png - Showing each user with the groups they have been added to.



The screenshot shows the AWS IAM console with the 'Users' page selected. A table lists five users: awsstudent, root-qwkl, user-1, user-2, and user-3. Each user row shows the groups they belong to, access key age, password age, last activity, and MFA status.

User name	Groups	Access key age	Password age	Last activity	MFA
awsstudent	QLReadOnly	Today	Today	None	Not enabled
root-qwkl		None	None		
user-1	S3-Support	None	Today	None	Not enabled
user-2	EC2-Support	None	Today	None	Not enabled
user-3	EC2-Admin	None	Today	None	Not enabled

2b.png - Showing each group having one user.

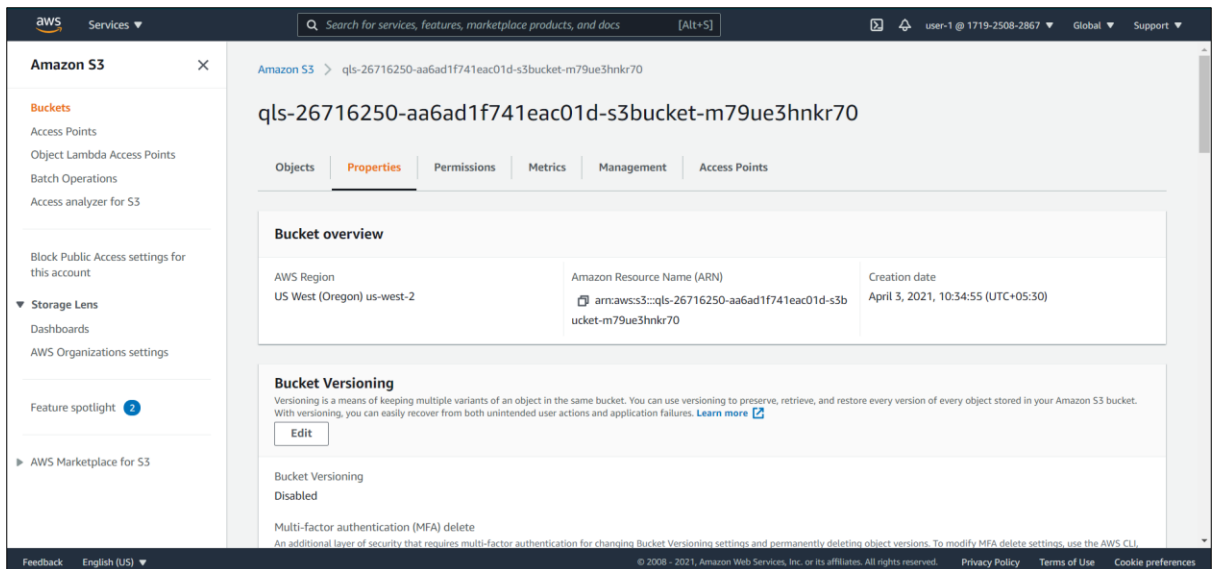


The screenshot shows the AWS IAM console with the 'Groups' page selected. A table lists four groups: EC2-Admin, EC2-Support, QLReadOnly, and S3-Support. Each group row shows the number of users, inline policy status, and creation time.

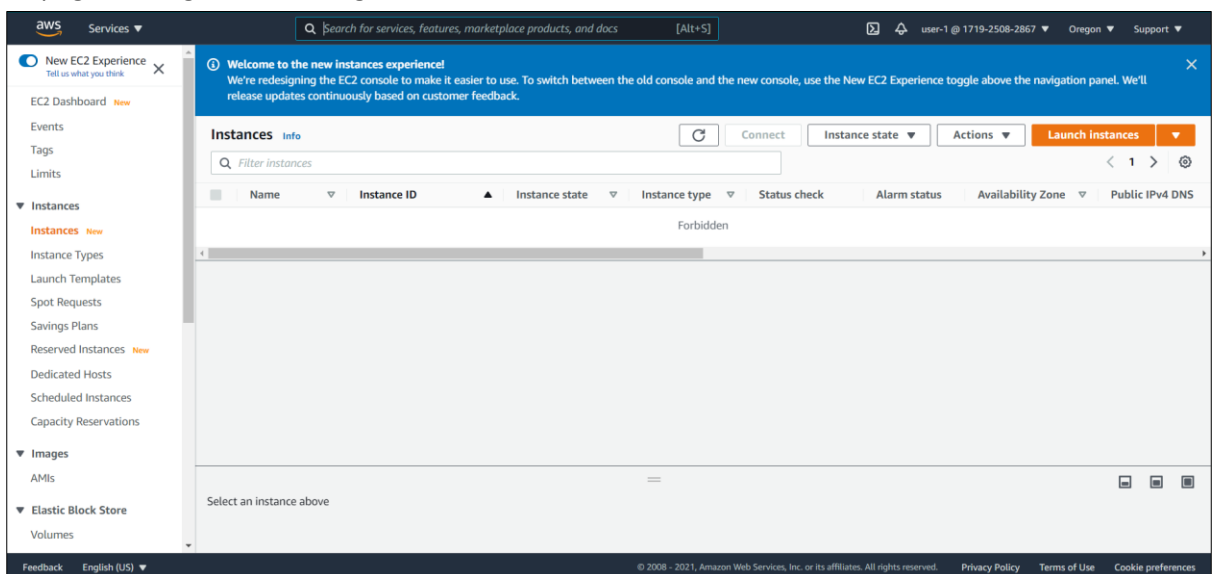
Group Name	Users	Inline Policy	Creation Time
EC2-Admin	1	✓	2021-04-03 10:34 UTC+0530
EC2-Support	1		2021-04-03 10:34 UTC+0530
QLReadOnly	1		2021-04-03 10:34 UTC+0530
S3-Support	1		2021-04-03 10:34 UTC+0530

## 3. Testing User Access

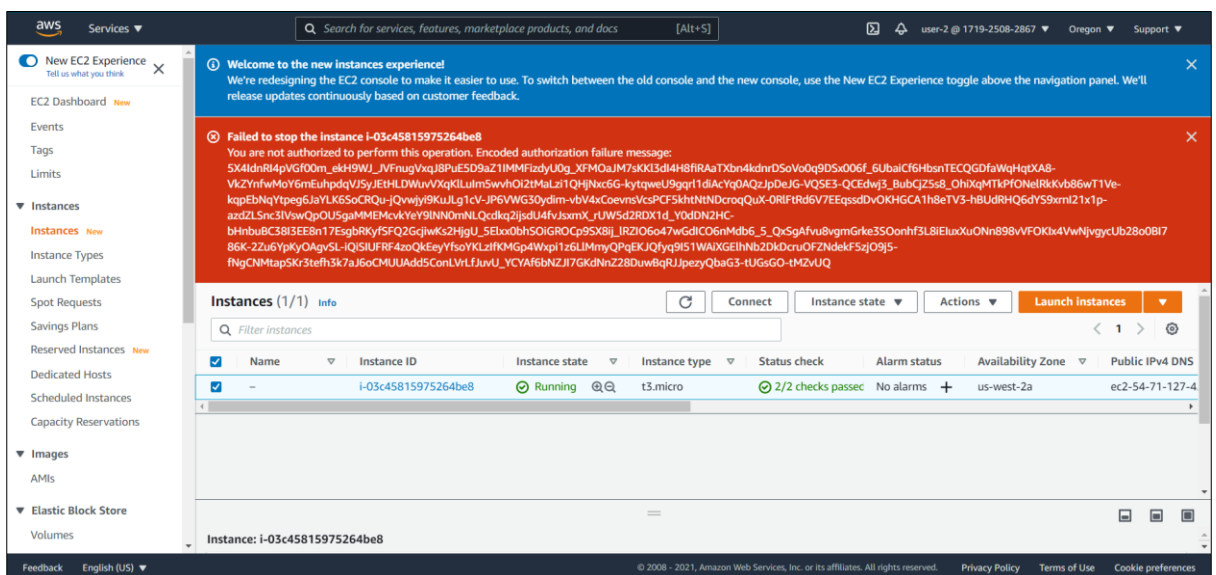
3a.png-Showing User-1 having access to view details S3-Bucket



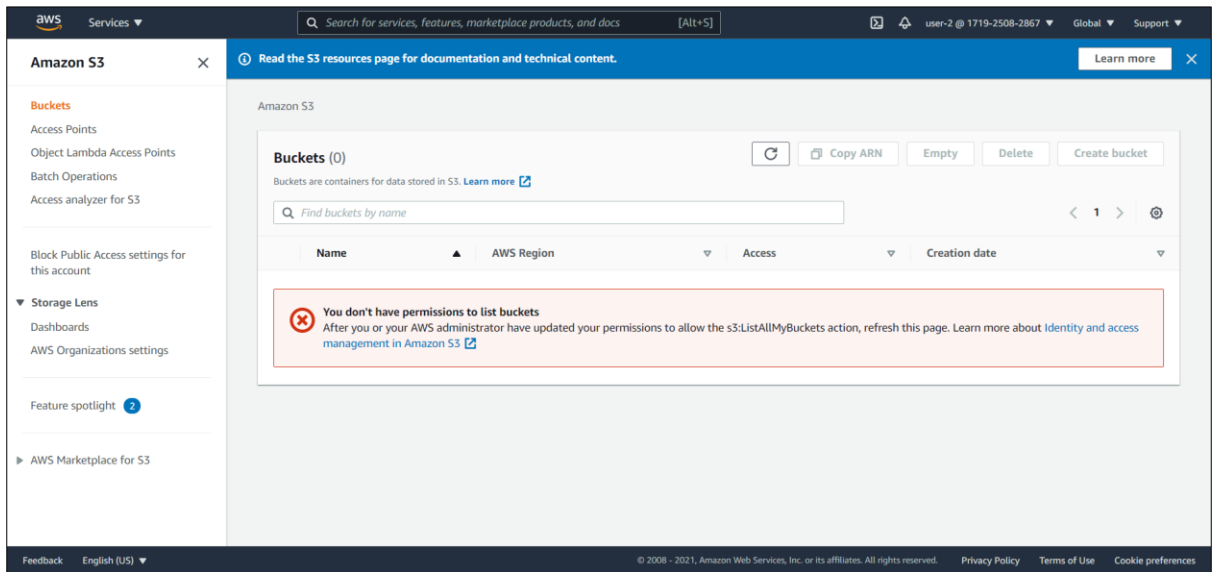
3b.png-Showing User-1 having NO access to view details EC-2 Instances



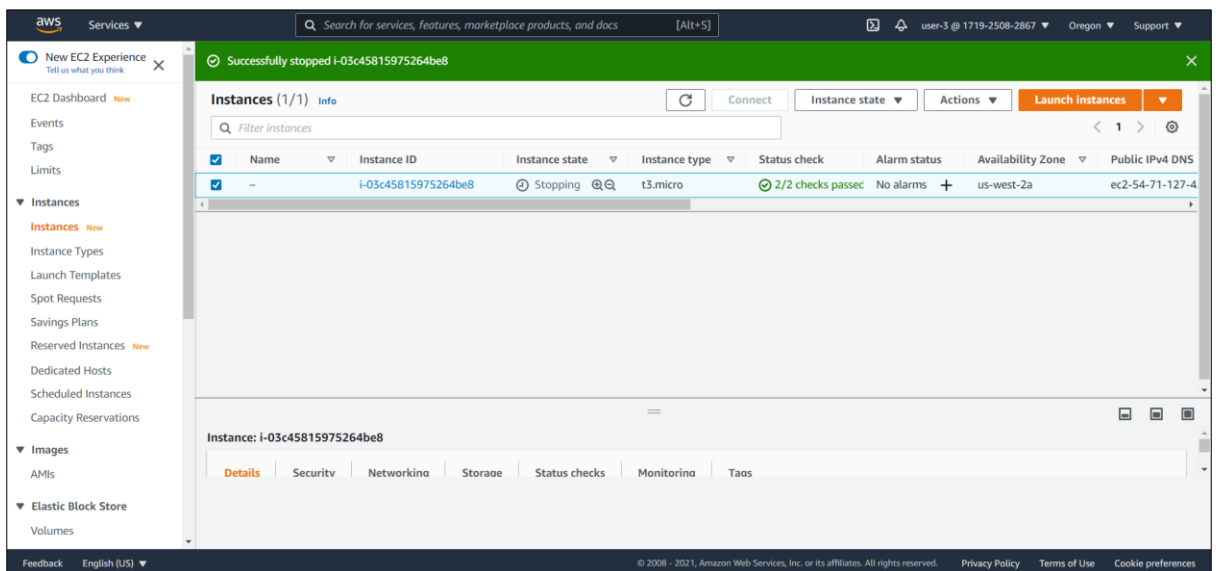
3c.png-Showing User-2 having access view details EC-2 Instances, but not able to stop instance.



### 3d.png-Showing User-2 having NO access view details S3-Bucket.



### 3e.png-Showing User-3 having able to stop instance, since the user is an admin



IAM User sign-in link: <https://171925082867.signin.aws.amazon.com/console>

4a.png or 4a.jpg – Showing email confirmation from QWIKLABS for having completed the lab successfully. The SS should clearly show the timestamp in the received email.

