

Lab 14 - AWS IAM

AWS Identity and Access Management (IAM) is a web service that enables Amazon Web Services (AWS) customers to manage users and user permissions in AWS. With IAM, you can centrally manage users, security credentials such as access keys, and permissions that control which AWS resources users can access.

Results

The screenshot displays the AWS Management Console interface. At the top, a green banner indicates a successful stop operation for instance i-04df5e6ead53cf3d8. The main content area shows a list of EC2 instances. Two instances are visible: 'LabHost' (i-04df5e6ead53cf3d8) and 'Bastion Host' (i-072e67ad7d1181e2a). Both are in a 'Running' state. The 'LabHost' instance is selected, and its details are shown in the right-hand panel. The details include the instance ID, IP addresses, DNS names, and a warning about an unauthorized user action. The left sidebar contains navigation links for various AWS services, including EC2, IAM, and CloudFormation.

Name	Instance ID	Instance state	Instance type	Status check	Alarm status	Availability Zone	Public IPv4 DNS	Public IPv4 ...
LabHost	i-04df5e6ead53cf3d8	Running	t2.micro	2/2 checks passed	User: arn:aws:iam::045518422813:user/spl66/user-3 is not authorized to perform: compute-optimizer:GetEnrollmentStatus on resource: * because no identity-based policy allows the compute-optimizer:GetEnrollmentStatus action	us-east-1a	ec2-35-172-211-162.co...	35.172.211.162
Bastion Host	i-072e67ad7d1181e2a	Running	t2.micro	2/2 checks passed	User: arn:aws:iam::045518422813:user/spl66/user-3 is not authorized to perform: compute-optimizer:GetEnrollmentStatus on resource: * because no identity-based policy allows the compute-optimizer:GetEnrollmentStatus action	us-east-1a	ec2-3-93-56-182.comp...	3.93.56.182

Instance: i-04df5e6ead53cf3d8 (LabHost)

Details | Security | Networking | Storage | Status checks | Monitoring | Tags

Instance summary info

Instance ID: i-04df5e6ead53cf3d8 (LabHost)

IPv6 address: -

Hostname type: IP name: ip-10-1-11-247.ec2.internal

Answer private resource DNS name: -

Auto-assigned IP address: 35.172.211.162 [Public IP]

IAM Role: -

Instance details info

Public IPv4 address: 35.172.211.162 | open address

Instance state: Running

Private IP DNS name (IPv4 only): ip-10-1-11-247.ec2.internal

Instance type: t2.micro

VPC ID: vpc-0ff6322987a87099e (Lab VPC)

Subnet ID: subnet-0ee5261beb0c73306 (Public Subnet 1)

Private IPv4 addresses: 10.1.11.247

Public IPv4 DNS: ec2-35-172-211-162.compute-1.amazonaws.com | open address

Elastic IP addresses: -

AWS Compute Optimizer finding: User: arn:aws:iam::045518422813:user/spl66/user-3 is not authorized to perform: compute-optimizer:GetEnrollmentStatus on resource: * because no identity-based policy allows the compute-optimizer:GetEnrollmentStatus action

Auto Scaling Group name: -

Stop the Amazon EC2 instance as an EC2 administrator with the appropriate permissions.

```
Cloud Labs
Session started at: -0001-11-30T00:00:00-0752
Session ended at: 2022-11-23T08:06:47-0800

Accumulated lab time: 02:21:00(141 minutes)
```

Details after finishing of this Introduction to AWS IAM Lab

Conclusion

- Explored pre-created IAM users and groups
- Inspected IAM policies as applied to the pre-created groups
- followed a real-world scenario, adding users to groups with specific capabilities enabled.
- located and used the IAM sign-in URL
- experimented with the effects of policies on service access.