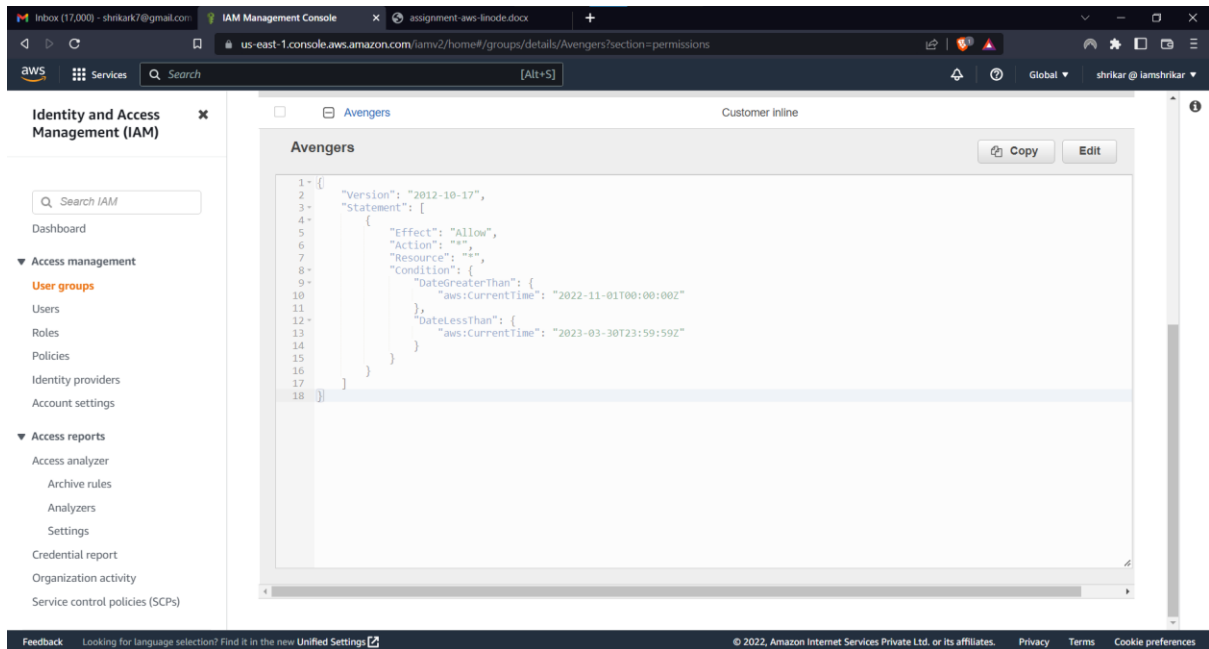


Create an IAM user with username of your own wish and grant administrator policy.

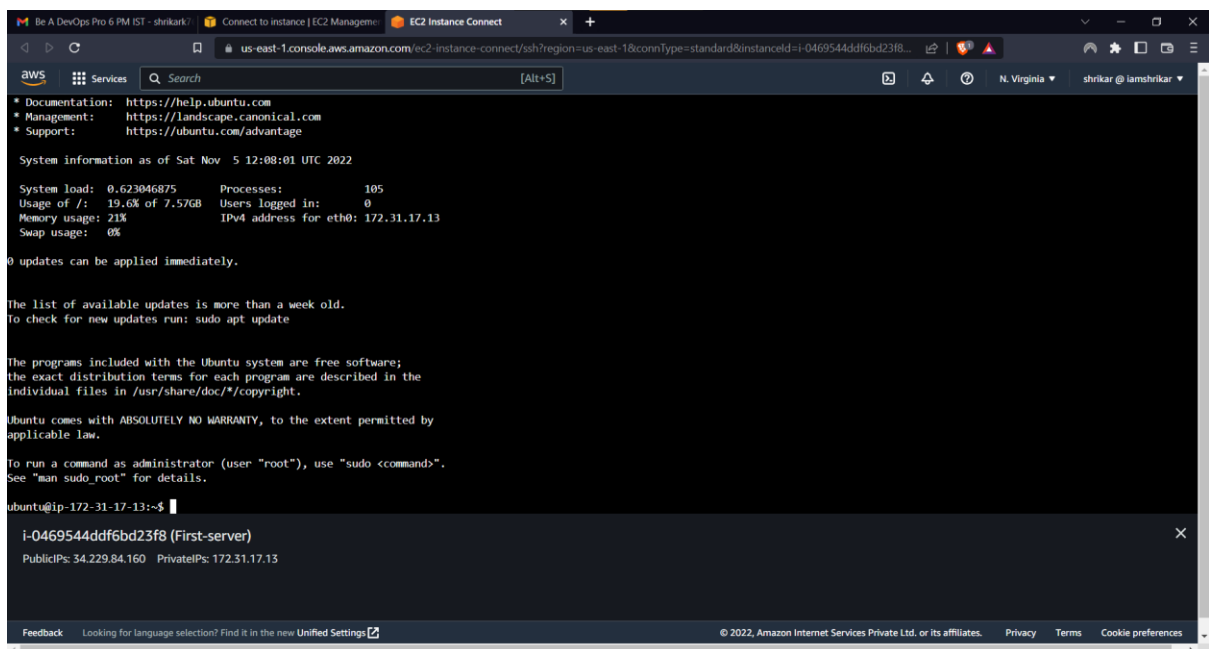
The screenshot shows the AWS IAM Management Console interface. The left sidebar contains the 'Identity and Access Management (IAM)' menu with options like Dashboard, Access management, User groups, Users, Roles, Policies, Identity providers, Account settings, Access reports, Access analyzer, Archive rules, Analyzers, Settings, Credential report, Organization activity, and Service control policies (SCPs). The main content area displays the 'Summary' page for a user named 'shrikar'. At the top, there is a notification about a new feature to generate a policy based on CloudTrail events. Below the notification, the user's details are shown: User ARN (am:aws:iam::152862807854:user/shrikar), Path (/), and Creation time (2022-10-30 20:37 UTC+0530). The 'Permissions' tab is selected, showing a table with one group named 'admin' and attached permissions 'AdministratorAccess'. The bottom of the console shows a footer with 'Feedback', 'Looking for language selection? Find it in the new Unified Settings', and copyright information for Amazon Internet Services Private Ltd.

Creating Avengers users

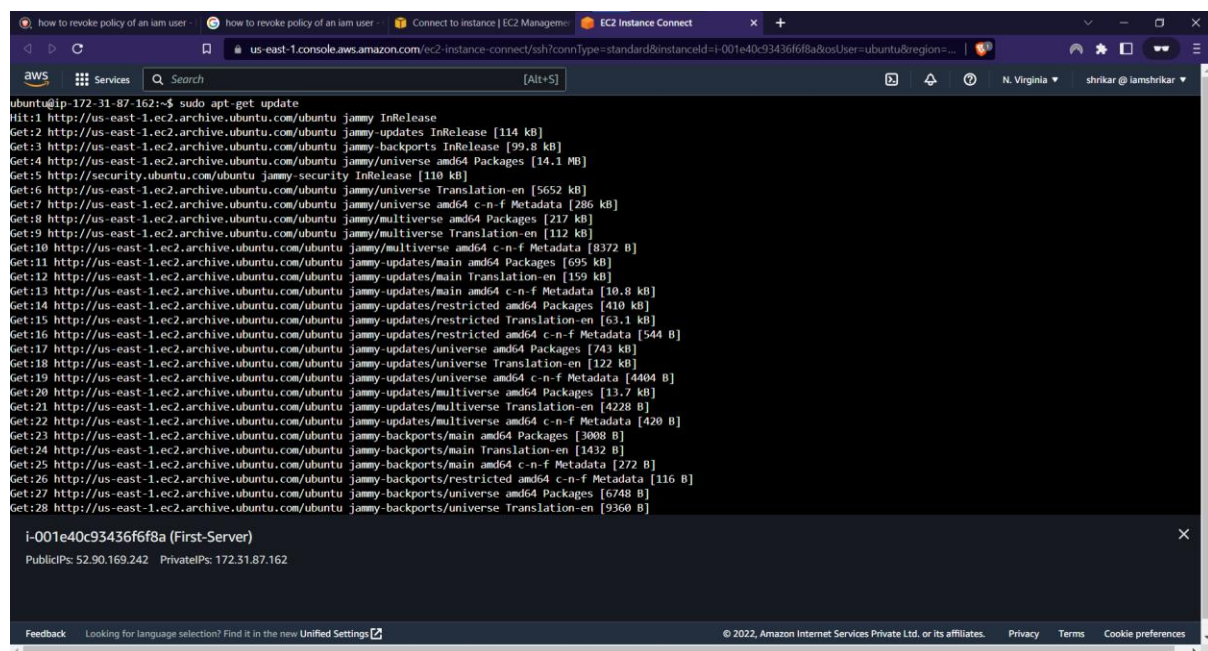
The screenshot shows the AWS IAM Management Console interface. The left sidebar contains the 'Identity and Access Management (IAM)' menu with options like Dashboard, Access management, User groups, Users, Roles, Policies, Identity providers, Account settings, Access reports, Access analyzer, Archive rules, Analyzers, Settings, Credential report, Organization activity, and Service control policies (SCPs). The main content area displays the 'Users' page for a group named 'Avengers'. At the top, there is a 'Delete' button and an 'Edit' button. Below the buttons, the group's details are shown: User group name (Avengers), Creation time (November 04, 2022, 17:21 (UTC+05:30)), and ARN (am:aws:iam::152862807854:group/Avengers). The 'Users' tab is selected, showing a table with three users: 'vision', 'Hulk', and 'Iron-Man'. The bottom of the console shows a footer with 'Feedback', 'Looking for language selection? Find it in the new Unified Settings', and copyright information for Amazon Internet Services Private Ltd.



## Create a new EC2 instance

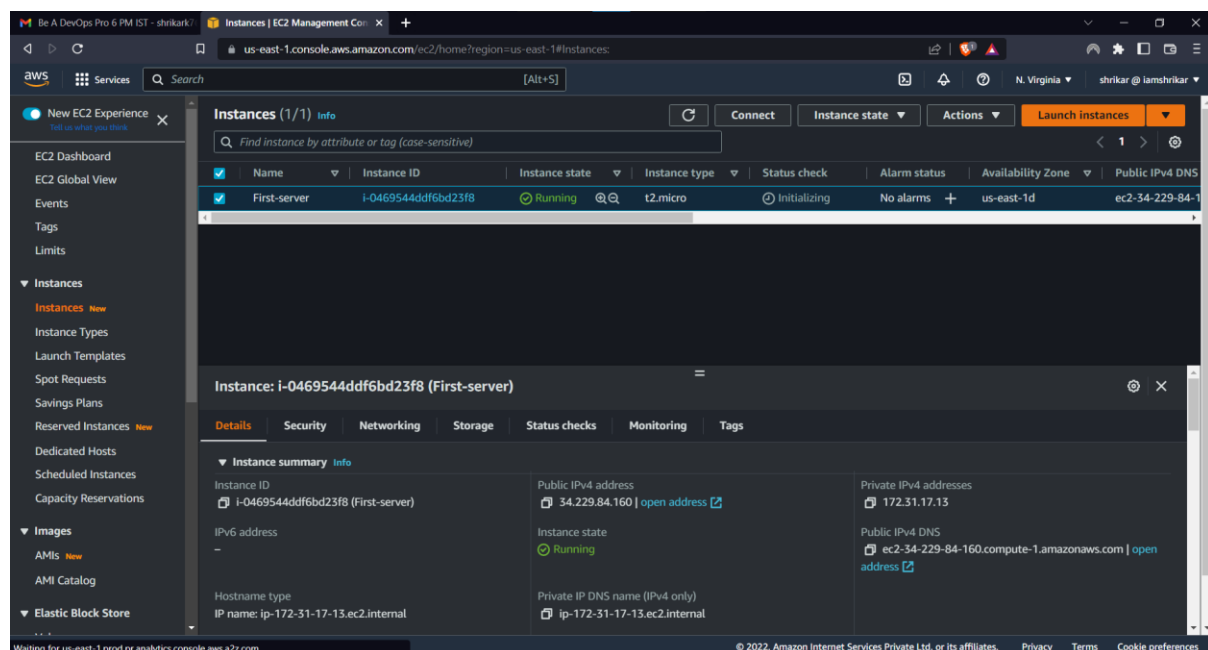


Update using: `sudo apt-get update`



```
ubuntu@ip-172-31-87-162:~$ sudo apt-get update
Hit:1 http://us-east-1.ec2.archive.ubuntu.com/ubuntu jammy InRelease
Get:2 http://us-east-1.ec2.archive.ubuntu.com/ubuntu jammy-updates InRelease [114 kB]
Get:3 http://us-east-1.ec2.archive.ubuntu.com/ubuntu jammy-backports InRelease [99.8 kB]
Get:4 http://us-east-1.ec2.archive.ubuntu.com/ubuntu jammy/universe amd64 Packages [14.1 MB]
Get:5 http://security.ubuntu.com/ubuntu jammy-security InRelease [110 kB]
Get:6 http://us-east-1.ec2.archive.ubuntu.com/ubuntu jammy/universe Translation-en [5652 kB]
Get:7 http://us-east-1.ec2.archive.ubuntu.com/ubuntu jammy/universe amd64 c-n-f Metadata [286 kB]
Get:8 http://us-east-1.ec2.archive.ubuntu.com/ubuntu jammy/multiverse amd64 Packages [217 kB]
Get:9 http://us-east-1.ec2.archive.ubuntu.com/ubuntu jammy/multiverse Translation-en [112 kB]
Get:10 http://us-east-1.ec2.archive.ubuntu.com/ubuntu jammy/multiverse amd64 c-n-f Metadata [8372 B]
Get:11 http://us-east-1.ec2.archive.ubuntu.com/ubuntu jammy-updates/main amd64 Packages [695 kB]
Get:12 http://us-east-1.ec2.archive.ubuntu.com/ubuntu jammy-updates/main Translation-en [159 kB]
Get:13 http://us-east-1.ec2.archive.ubuntu.com/ubuntu jammy-updates/main amd64 c-n-f Metadata [10.8 kB]
Get:14 http://us-east-1.ec2.archive.ubuntu.com/ubuntu jammy-updates/restricted amd64 Packages [410 kB]
Get:15 http://us-east-1.ec2.archive.ubuntu.com/ubuntu jammy-updates/restricted Translation-en [63.1 kB]
Get:16 http://us-east-1.ec2.archive.ubuntu.com/ubuntu jammy-updates/restricted amd64 c-n-f Metadata [544 B]
Get:17 http://us-east-1.ec2.archive.ubuntu.com/ubuntu jammy-updates/universe amd64 Packages [743 kB]
Get:18 http://us-east-1.ec2.archive.ubuntu.com/ubuntu jammy-updates/universe Translation-en [122 kB]
Get:19 http://us-east-1.ec2.archive.ubuntu.com/ubuntu jammy-updates/universe amd64 c-n-f Metadata [4404 B]
Get:20 http://us-east-1.ec2.archive.ubuntu.com/ubuntu jammy-updates/multiverse amd64 Packages [13.7 kB]
Get:21 http://us-east-1.ec2.archive.ubuntu.com/ubuntu jammy-updates/multiverse Translation-en [4228 B]
Get:22 http://us-east-1.ec2.archive.ubuntu.com/ubuntu jammy-updates/multiverse amd64 c-n-f Metadata [420 B]
Get:23 http://us-east-1.ec2.archive.ubuntu.com/ubuntu jammy-backports/main amd64 Packages [3008 B]
Get:24 http://us-east-1.ec2.archive.ubuntu.com/ubuntu jammy-backports/main Translation-en [1432 B]
Get:25 http://us-east-1.ec2.archive.ubuntu.com/ubuntu jammy-backports/main amd64 c-n-f Metadata [272 B]
Get:26 http://us-east-1.ec2.archive.ubuntu.com/ubuntu jammy-backports/restricted amd64 c-n-f Metadata [116 B]
Get:27 http://us-east-1.ec2.archive.ubuntu.com/ubuntu jammy-backports/universe amd64 Packages [6748 B]
Get:28 http://us-east-1.ec2.archive.ubuntu.com/ubuntu jammy-backports/universe Translation-en [9360 B]
```

i-001e40c93436f68a (First-Server)  
PublicIPs: 52.90.169.242 PrivateIPs: 172.31.87.162



1. What is the need of IAM?

IAM stands for Identity and access management. It is needed to create identities or user accounts to manage the same AWS account with different users with different responsibilities. Through IAM we can define policies for the users, also we can group the users.

2. If I am a non tech person, how will you define policies in IAM.

In your college there are different streams of students, For example in an engineering college there are different streams like Computer, Electronics, Electrical, Mechanical and Civil engineering each

branch have different subjects and different roles. So the faculty have different access and the student has different access. The student has the access for his/her limited time in the college.

Similarly in IAM we have users, user group, policies, roles and other things where we can do the above activities in the AWS IAM.

3. Please define a scenerio in which you would like to create your on own IAM policy.

If we hire interns and we have to give them the access to the AWS account. We can create a user group for the interns and assign the policies that have a validity for 3 months.

4. Why do we prefer not using root account?

We should always prefer to create a user rather than using the root itself. Its because the root has all the access and it's not at all advise to use the root account unless an activity needs to be done specifically from the root account.

5. How to revoke policy for an IAM user?

We can navigate to the IAM service in the AWS console. And select the users check the permission tab and we can delete the policy for the user.

6. Can a single IAM user be a part of multiple policy via group and root? how?

Yes a single IAM user can be part of multiple policy these policies can be created to the group itself.