

# Configure IAM user, where user can start / stop only micro instances. User cannot launch instance or do any other tasks.

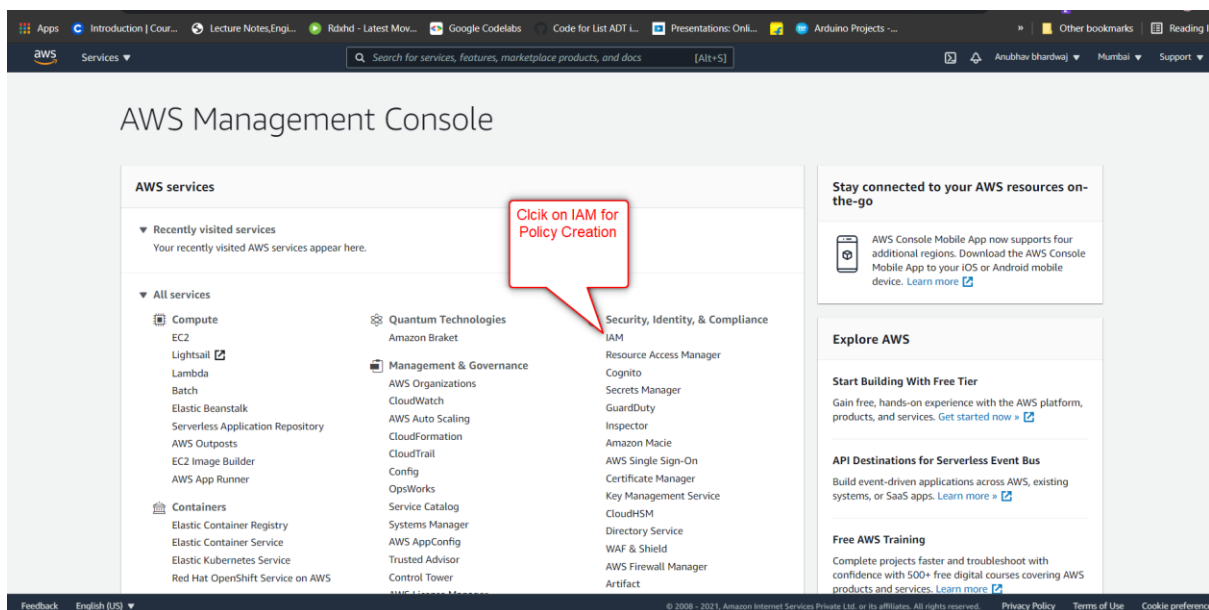
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## Overview

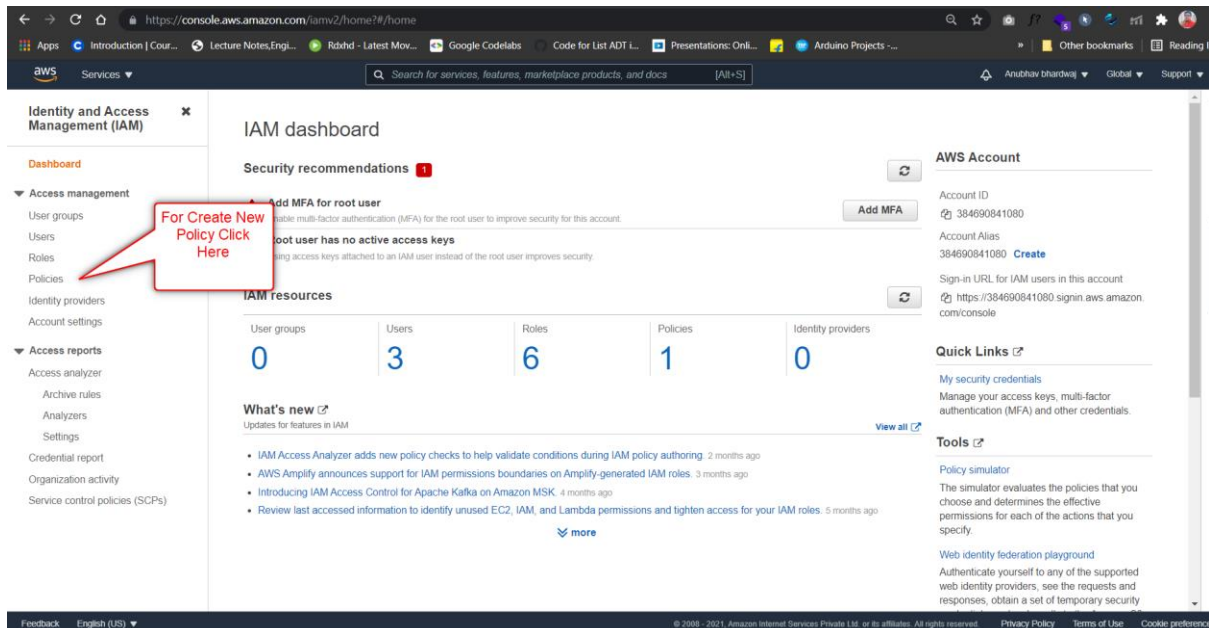
First We will go to IAM Service through AWS Management Console and there we will create a Policy to Start/Stop the EC2 Instance which is only having Machine-Type t2.micro and after creating the Policy We will Attach this Policy to the IAM User and Back to Login through AWS Console with the IAM User and Check the Policy to Perform the Task

## Creating a Policy

1. First we will go to AWS Management Console and Select the IAM Service

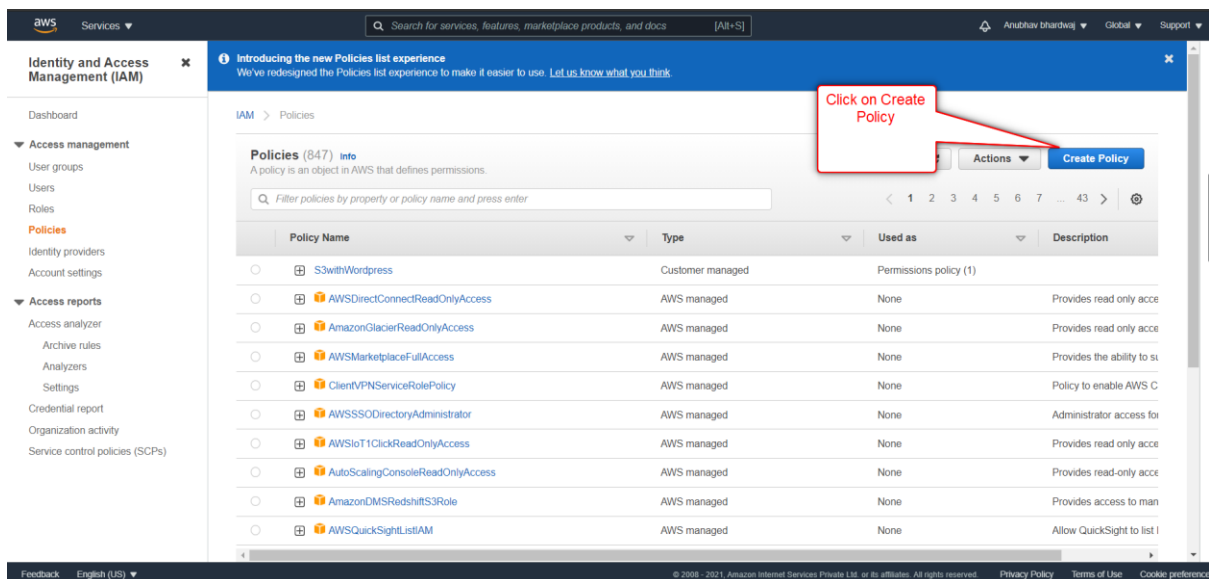


## 2. For Crating Policy Select the Policies Option



The screenshot shows the AWS IAM dashboard. In the left-hand navigation menu, the 'Policies' option is highlighted. A red callout box with the text 'For Create New Policy Click Here' points to this option. The main content area displays the 'IAM dashboard' with various security recommendations and IAM resources. The 'Policies' resource count is shown as 1.

## 3. Click on Create Policy



The screenshot shows the AWS IAM 'Policies' list page. A red callout box with the text 'Click on Create Policy' points to the 'Create Policy' button in the top right corner of the page. The page displays a list of existing policies, including 'S3withWordpress', 'AWSDirectConnectReadOnlyAccess', 'AmazonGlacierReadOnlyAccess', 'AWSMarketplaceFullAccess', 'ClientVPNServiceRolePolicy', 'AWSSSODirectoryAdministrator', 'AWSIoTClickReadOnlyAccess', 'AutoScalingConsoleReadOnlyAccess', 'AmazonDMSRedshiftS3Role', and 'AWSQuickSightIAM'.

## 4. Creating the Policy in JSON Format

The screenshot shows the AWS IAM console interface for editing a policy named 'EC2-Start-and-stop'. The 'JSON' tab is selected, and the policy is defined in JSON format. A red callout box points to the 'JSON' tab with the text: "Select JSON Format and type your Policy According to Your Requirement".

```
1 {
2   "Version": "2012-10-17",
3   "Statement": [
4     {
5       "Effect": "Allow",
6       "Action": [
7         "ec2:StartInstances",
8         "ec2:StopInstances"
9       ],
10      "Resource": "arn:aws:ec2:ap-south-1:384690841080:instance/*",
11      "Condition": {
12        "StringEquals": {
13          "ec2:InstanceType": [
14            "t2.micro",
15            "t2.small"
16          ]
17        }
18      },
19    },
20    {
21      "Effect": "Allow",
22      "Action": "ec2:DescribeInstances",
23    }
24  ]
25 }
```

Character count: 310 of 6,144.

Buttons: Cancel, Review policy

## 5. Assign the Tag to Identify the Policy

The screenshot shows the AWS IAM console interface for creating a policy. The 'Add tags (Optional)' section is visible. A red callout box points to the 'Add tag' button with the text: "For Identify FOR Policy we assign the tag".

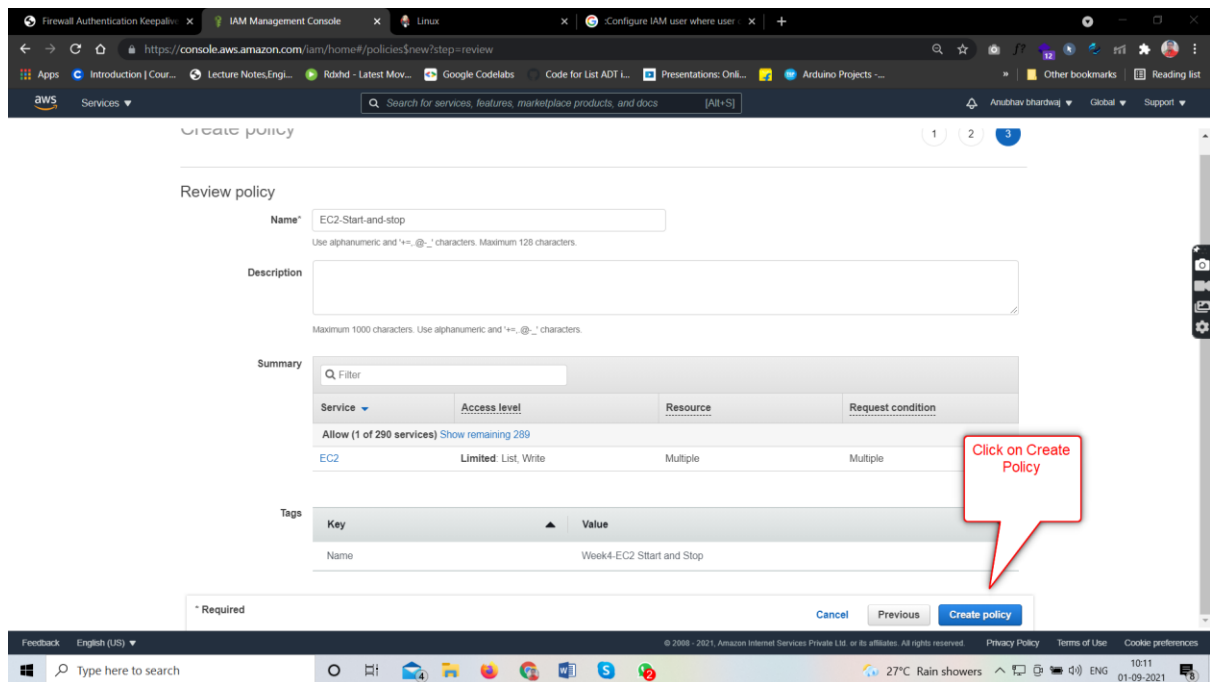
Key: Name, Value - optional: Week4-EC2 Start and Stop, Remove tag

Add tag

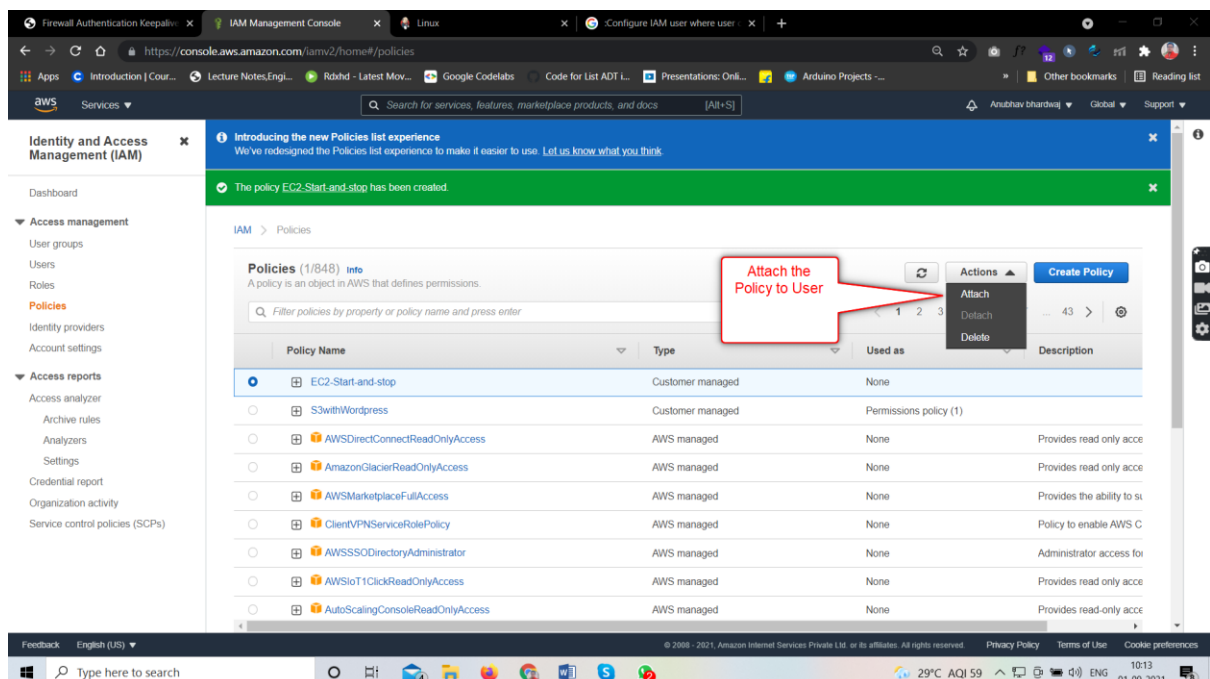
You can add up to 50 tags

Buttons: Cancel, Previous, Next: Review

## 6. Click on Create Policy



## 7. Attach the Policy to the User



## 8. Before, Attaching the Policy First We ned to Create the IAM User

Firewall Authentication Keepaliv... IAM Management Console IAM Management Console Linux .Configure IAM user where user... +

https://console.aws.amazon.com/iam/home#/users\$new?step=details&accessKey&login&userNames=EC2-USER&passwordReset&passwordType=manual

Services ▾ Search for services, features, marketplace products, and docs [All+S]

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### Add user

1 2 3 4 5

#### Set user details

You can add multiple users at once with the same access type and permissions. [Learn more](#)

User name\* EC2-USER

[Add another user](#)

#### Select AWS access type

Select how these users will access AWS. Access keys and autogenerated passwords are provided in the last step.

Access type\* ☒ Programmatic access  
Enables an access key ID and secret access key for the AWS API, other development tools.

☒ AWS Management Console access  
Enables a password that allows users to sign-in to the AWS Management Console.

Console password\* ☐ Autogenerated password  
☒ Custom password  
Anubhav@123

☒ Show password

Require password reset\* ☒ User must create a new password at next sign-in  
Users automatically get the IAMUserChangePassword policy to allow them to change their own password.

\* Required

Cancel [Next: Permissions](#)

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## 9. Attach the Policy to the User During IAM User Creation

Firewall Authentication Keepaliv... IAM Management Console IAM Management Console Linux .Configure IAM user where user... +

https://console.aws.amazon.com/iam/home#/users\$new?step=permissions&accessKey&login&userNames=EC2-USER&passwordReset&passwordType=...

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### Add user

1 2 3 4 5

#### Set permissions

[Add user to group](#) [Copy permissions from existing user](#) [Attach existing policies directly](#)

[Create policy](#)

Filter policies ▾ Q EC2-

Policy name	Type	Used as
<input checked="" type="checkbox"/> EC2-Start-and-stop	Customer managed	None

Showing 1 result

▸ Set permissions boundary

Cancel [Previous](#) [Next: Tags](#)

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### Add user

1 2 3 4 5

#### Review

Review your choices. After you create the user, you can view and download the autogenerated password and access key.

User details

User name	EC2-USER
AWS access type	Programmatic access and AWS Management Console access
Console password type	Custom
Require password reset	Yes
Permissions boundary	Permissions boundary is not set

Permissions summary

The following policies will be attached to the user shown above.

Type	Name
Managed policy	EC2-Start-and-stop
Managed policy	IAMUserChangePassword

Tags

The new user will receive the following tag

Key	Value
-----	-------

Cancel Previous **Create user**

Click on Create User to Create the New IAM User

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## 10. Login to AWS Console with IAM User Access

← → ↻ 🔍 https://signin.aws.amazon.com/oauth?redirect\_uri=https%3A%2F%2Fconsole.aws.amazon.com%2Fiam%2Fhome%3Fstate%3DhashArgs%2523%252Fpolicies%... ☆ Other bookmarks Reading list

aws

### Sign in as IAM user

Account ID (12 digits) or account alias

384690841080

IAM user name

EC2-USER

Password

.....

**Sign in**

Sign in using root user email

Forgot password?

**LightSail**

The easiest way to get started on AWS

**Learn more »**

English

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Login through IAM User

## 11. First time it will ask to Change the Password

https://signin.aws.amazon.com/dlm?action=changepassword&userType=iam&redirect\_uri=https%3A%2Fconsole.aws.amazon.com%2Fiam%2Fhome%3Fst...

aws

You must change your password to continue

AWS account 384690841080

IAM user name EC2-USER

Old password \*\*\*\*\*

New password \*\*\*\*\*

Retype new password \*\*\*\*\*

Confirm password change

[Sign in using root user email](#)

English

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## 12. Go to EC2 and Try to Start an Instance

https://ap-south-1.console.aws.amazon.com/ec2/v2/home?region=ap-south-1#instances:

Services

Search for services, features, marketplace products, and docs [Alt+S]

EC2-USER @ 3846-9084-1080 Mumbai Support

New EC2 Experience

EC2 Dashboard

Events

Tags

Limits

Instances

Instances new

Instance Types

Launch Templates

Spot Requests

Savings Plans

Reserved Instances new

Dedicated Hosts

Capacity Reservations

Images

AMIs

Elastic Block Store

Volumes

Snapshots

Lifecycle Manager new

Network & Security

Security Groups

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Successfully started i-0e5c8eff8ea975c0e

Instances (1/8) Info

Filter instances

Name	Instance ID	Instance state	Instance type	Status check	Alarm status	Availability	Public IPv4 DNS	Public IPv4
✓ Wee3-Task(Check Private)	i-0e5c8eff8ea975c0e	Pending	t2.micro	⊗ You are not auth...	⊗ User: amaws...	ap-south-1b	-	-
□ Wee3-Task(Check Private)	i-0189d631ef5b63c54	Stopped	t2.micro	⊗ You are not auth...	⊗ User: amaws...	ap-south-1b	-	-
□ terraform	i-00f7e475c233177a8	Stopped	t2.micro	⊗ You are not auth...	⊗ User: amaws...	ap-south-1b	-	-
□ Ansible Testing	i-0df175483b40d4c16	Stopped	t2.micro	⊗ You are not auth...	⊗ User: amaws...	ap-south-1b	-	-
□ Jenkins-Master	i-0e5e0f292187cd685	Stopped	t2.micro	⊗ You are not auth...	⊗ User: amaws...	ap-south-1b	-	-
□ nemkeurbano	i-007e063e99b7d184e	Stopped	t2.micro	⊗ You are not auth...	⊗ User: amaws...	ap-south-1b	-	-

Instance: i-0e5c8eff8ea975c0e (Wee3-Task(Check Private))

Details Security Networking Storage Status checks Monitoring Tags

Instance summary Info

Instance ID	Public IPv4 address		Private IPv4 addresses
i-0e5c8eff8ea975c0e (Wee3-Task(Check Private))	-		10.0.2.187
IPv6 address	Instance state	Public IPv4 DNS	
-	⊗ Pending	-	
Private IPv4 DNS	Instance type	Elastic IP addresses	
ip-10-0-2-187.ap-south-1.compute.internal	t2.micro	⊗ Failed to retrieve Elastic IP addresses	



https://ap-south-1.console.aws.amazon.com/ec2/v2/home?region=ap-south-1#Instances:

Search for services, features, marketplace products, and docs [Alt+S]

EC2-USER @ 3846-9084-1080 Mumbai Support

New EC2 Experience

EC2 Dashboard

Events

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Instances

Instances New

Instance Types

Launch Templates

Spot Requests

Savings Plans

Reserved Instances New

Dedicated Hosts

Capacity Reservations

Images

AMIs

Elastic Block Store

Volumes

Snapshots

Lifecycle Manager New

Network & Security

Security Groups

Instances (1/8) Info

Filter instances

Name	Instance ID	Instance state	Instance type	Status check	Alarm status	Availability Zone	Public IPv4 DNS	Public IPv4
Wee3-Task(Ch...	i-0e5c8eff8ea975c0e	Running	t2.micro	You are not authc	User: amaws	ap-south-1a	-	-
Wee3-Task(Ch...	i-0189d631ef5b63c54	Stopped	t2.micro	You are not authc	User: amaws	ap-south-1a	-	-
terraform	i-00f7e475c233177a8	Stopped	t2.micro	You are not authc	User: amaws	ap-south-1b	-	-
Ansible Testing	i-0df175483b40d4c16	Stopped	t2.micro	You are not authc	User: amaws	ap-south-1b	-	-
Jenkins-Master	i-0e5e0f292187cd685	Stopped	t2.micro	You are not authc	User: amaws	ap-south-1b	-	-
pemkeychang...	i-007e063e99b7d38de	Stopped	t2.micro	You are not authc	User: amaws	ap-south-1b	-	-
Task-1	i-0be2c9c166d692cbb	Stopped	t2.micro	You are not authc	User: amaws	ap-south-1b	-	-

Instance: i-0e5c8eff8ea975c0e (Wee3-Task(Check Private))

Details Security Networking Storage Status checks Monitoring Tags

Instance summary Info

Instance ID i-0e5c8eff8ea975c0e (Wee3-Task(Check Private))

Public IPv4 address -

Instance state Running

Instance type t2.micro

Private IPv4 addresses 10.0.2.187

Public IPv4 DNS -

Elastic IP addresses Failed to retrieve Elastic IP addresses

ip-10-0-2-187.ap-south-1.compute.internal

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## 13. Trying to Stop the Instance

Successfully stopped i-0e5c8eff8ea975c0e

Instances (1/8) Info

Filter instances

Name	Instance ID	Instance state	Instance type	Status check	Alarm status	Availability Zone	Public IPv4 DNS	Public IPv4
Wee3-Task(Ch...	i-0e5c8eff8ea975c0e	Stopping	t2.micro	You are not authc	User: amaws	ap-south-1a	-	-
Wee3-Task(Ch...	i-0189d631ef5b63c54	Stopped	t2.micro	You are not authc	User: amaws	ap-south-1a	-	-
terraform	i-00f7e475c233177a8	Stopped	t2.micro	You are not authc	User: amaws	ap-south-1b	-	-
Ansible Testing	i-0df175483b40d4c16	Stopped	t2.micro	You are not authc	User: amaws	ap-south-1b	-	-
Jenkins-Master	i-0e5e0f292187cd685	Stopped	t2.micro	You are not authc	User: amaws	ap-south-1b	-	-
pemkeychang...	i-007e063e99b7d38de	Stopped	t2.micro	You are not authc	User: amaws	ap-south-1b	-	-
Task-1	i-0be2c9c166d692cbb	Stopped	t2.micro	You are not authc	User: amaws	ap-south-1b	-	-

Instance: i-0e5c8eff8ea975c0e (Wee3-Task(Check Private))

Details Security Networking Storage Status checks Monitoring Tags

Instance summary Info

Instance ID i-0e5c8eff8ea975c0e (Wee3-Task(Check Private))

Public IPv4 address -

Instance state Stopping

Instance type t2.micro

Private IPv4 addresses 10.0.2.187

Public IPv4 DNS -

Elastic IP addresses Failed to retrieve Elastic IP addresses

ip-10-0-2-187.ap-south-1.compute.internal

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14. If I will try to Terminate the Instance it will gives us Error because we don't provide rights in policy to terminate the instance

Successfully stopped i-0e5c8eff8ea975c0e

Failed to [terminate an instance]: you are not authorized to perform this operation. Encoded authorization failure message: udDvBoHg4vYdxxCCNGOQr6zqOHA3M5m6x3gK1mww7N2v91989PYMAVzbPe6YN9s5Ea\_8GBUS48nNwOuxm0ggPBcsSe7wsRZL7\_TClmSc-dksBqll-u8SfSe5pPydx-9HEpiC940jmJ6wUca10tuDlToHfN6\_3F7zB5\_CN\_db6nH\_VyrgeCk42M0pGzZxc91dFPF5WfFurk86E9ouje7Y5UvdtJBLT1DzQ5IRRL5F13PDFHLbRHEZZ79gqPhppuRZ3SRJ-bBluHIRPYa4uzo-ginBf3p3OpPse4wAYX7mYzQmby58bJcbH74-limw-sprHpk3M9TdwhQilw3SVNTqgKdZx05m4-TBU\_4evdufYD5Q525eN4d5Z7148IE0J9pGCO29vA2bVqG6eZL8phtxJCOn0S58BTpJusGvud4H0QB11IN0\_CfB0WbN2an8UQwmeTEn65y4U34KggWfYfYpIqHfPYPRbV\_Nak0YDLEndg3DBno6yCCKEPSFOT4m5KebGLuw3uJ63HLZ09L5-c3Gr6AAJgkR8kdxU8T1peeg7bH8MLZUJRpNwYlaBnd-ELTWAOQyavibCnp3qZT18QIm6FqMJCMAVq8op711qnl0ZrhuA1H0Z\_nKS1L10uXm5skk2AkzyM4p7-dPRBJ30s4-BACWpouyZKp5VqLWQcGIG09VqDAVSUjJhR3\_muNXXDcZrOTTLvG4\_TXWsqB8zmDerbp8wL\_YieY250Uhyo4-woaScVeJWokGoka]

On Terminate the Instance it shows Error

Name	Instance ID	Instance type	Status check	Alarm status	Availability Zone	Public IPv4 DNS	Public IPv4
Wee3-Task[Ch...	i-0e5c8eff8ea975c0e	t2.micro	You are not authc	User: amaws	ap-south-1a	-	-
Wee3-Task[Ch...	i-0189d631ef5b63c54	t2.micro	You are not authc	User: amaws	ap-south-1a	-	-
terraform	i-00f7e475c233177a8	t2.micro	You are not authc	User: amaws	ap-south-1b	-	-
Ansible Testing	i-0df175483b40d4c16	t2.micro	You are not authc	User: amaws	ap-south-1b	-	-

Instance: i-0e5c8eff8ea975c0e (Wee3-Task[Check Private])

Instance summary

Instance ID: i-0e5c8eff8ea975c0e (Wee3-Task[Check Private])

Public IPv4 address: -

Private IPv4 addresses: 10.0.2.187