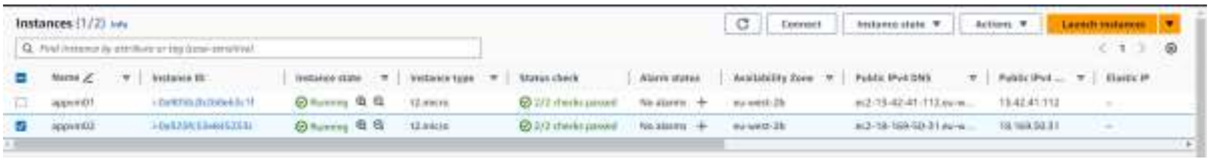
😊 IAM POLICY: START AND STOP EC2

1. For this lab you need to create two EC2 instances based on Linux on your root account.

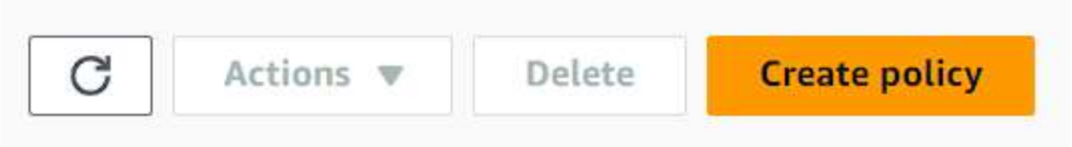


Instances (1/2) Info

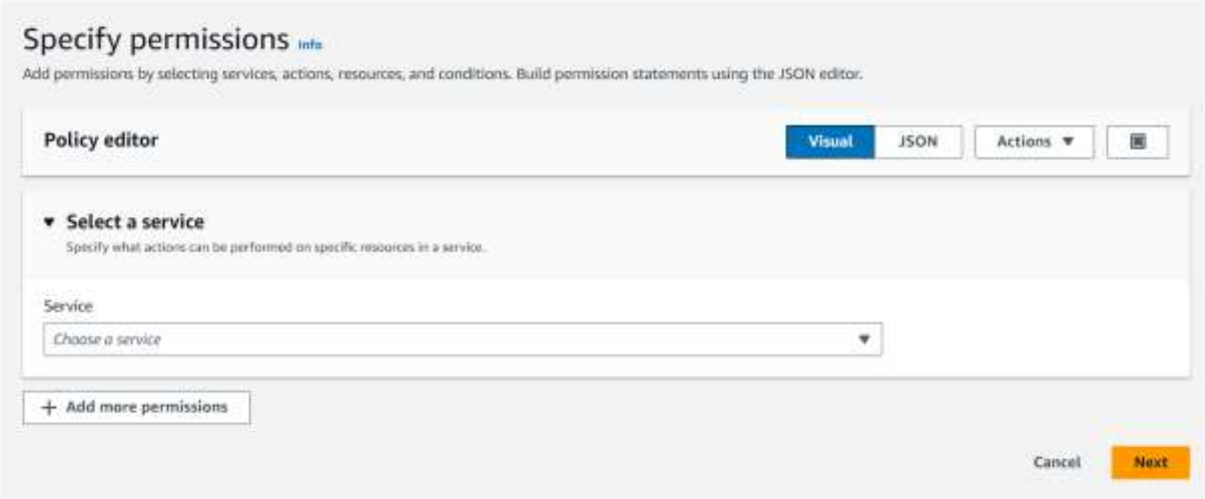
Find instance by attribute or tag (case-sensitive)

☐	Name	Instance ID	Instance state	Instance type	Status check	Alarm status	Availability Zone	Public IPv4 DNS	Public IPv4 ...	Elastic IP
☐	[illegible]	[illegible]	Running	t2.micro	2/2 checks passed	No alarms +	eu-west-2b	ec2-13-42-41-112.eu-w...	13.42.41.112	–
☑	[illegible]	[illegible]	Running	t2.micro	2/2 checks passed	No alarms +	eu-west-2b	ec2-18-169-50-31.eu-w...	18.169.50.31	–

2. Then after creating them, you have to navigate to IAM to create a policy for your IAM user account to view instances in EC2 with that start and stop them too.
3. On the IAM go to policies right away.
4. Then click on Create policy.



5. This time you need to choose service for EC2.



Specify permissions Info

Add permissions by selecting services, actions, resources, and conditions. Build permission statements using the JSON editor.

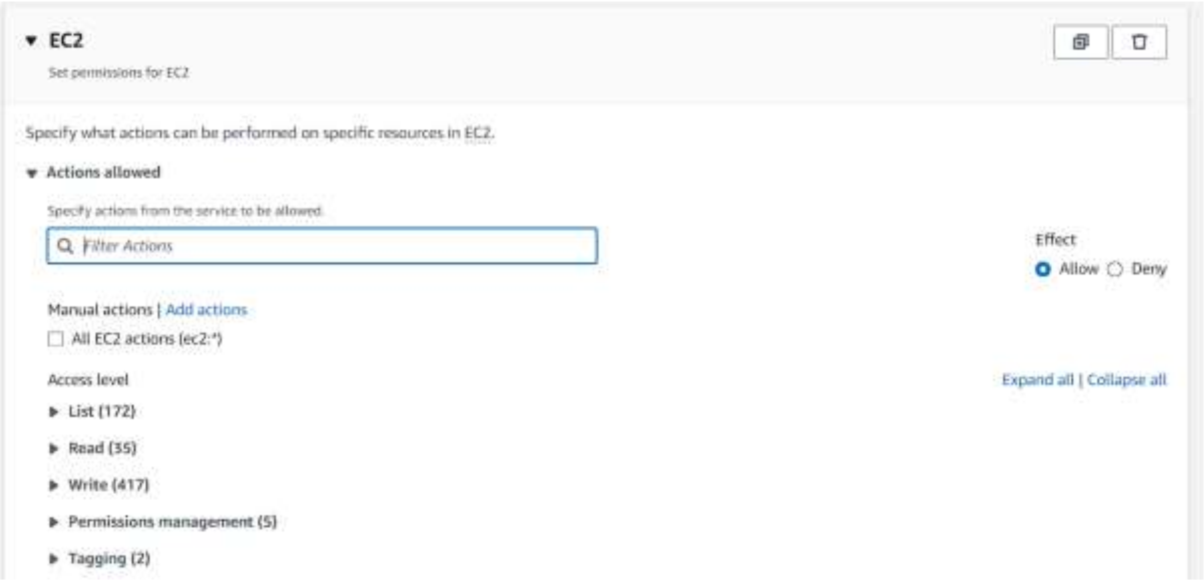
Policy editor

▾ Select a service

Specify what actions can be performed on specific resources in a service.

Service

Choose a service ▼



▾ **EC2**

Set permissions for EC2

Specify what actions can be performed on specific resources in EC2.

▾ **Actions allowed**

Specify actions from the service to be allowed.

Filter Actions

Effect

● Allow ○ Deny

Manual actions | Add actions

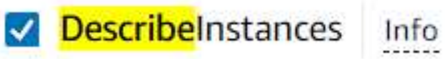
□ All EC2 actions (ec2:*)

Access level

Expand all | Collapse all

- ▸ List (172)
- ▸ Read (35)
- ▸ Write (417)
- ▸ Permissions management (5)
- ▸ Tagging (2)

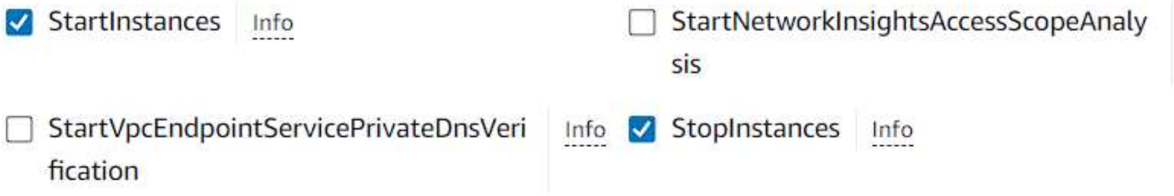
6. For the first permission you need to give is in **List,** there you need to give permission for Describe Instances. This permission will help you to list your EC2 instances. Choose this permission accordingly because you have to search it.



☑ DescribeInstances | Info

7. After adding this permission, you need to click on Add more permission.

8. There you need to again select EC2, now expand **Write** operation this time and select Start and Stop instances permission.



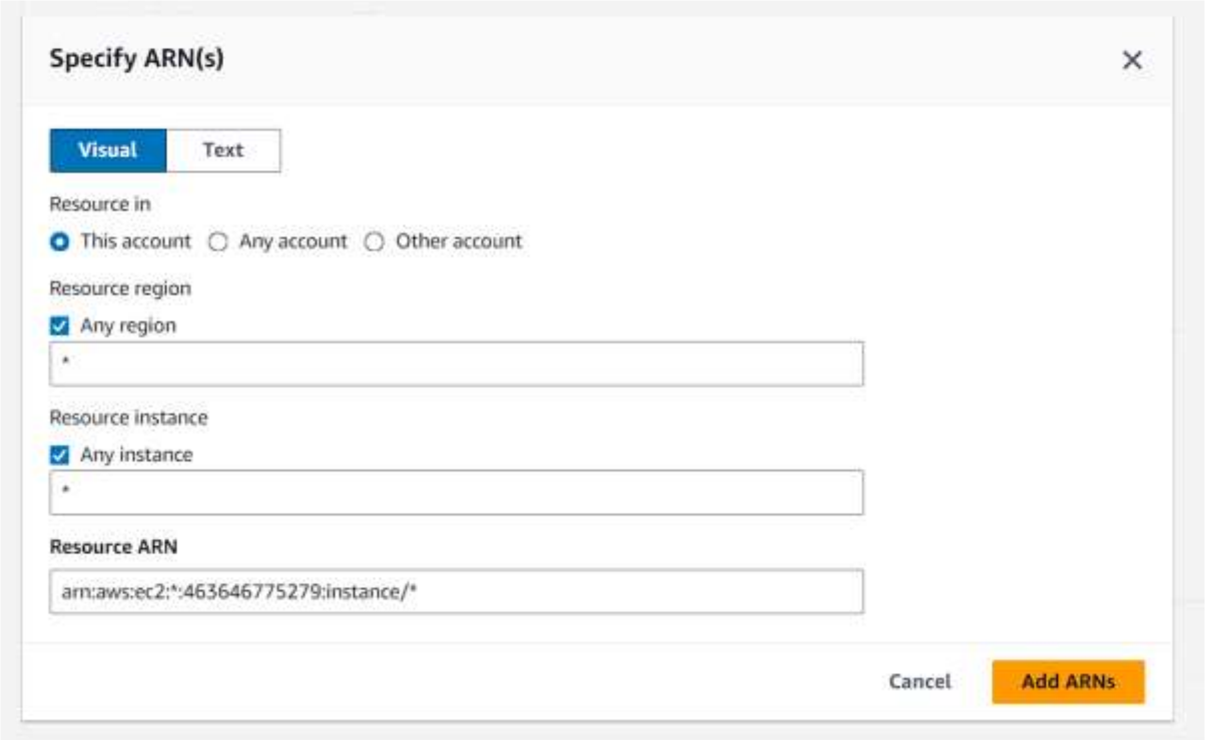
☑ StartInstances | Info

□ StartNetworkInsightsAccessScopeAnalysis

□ StartVpcEndpointServicePrivateDnsVerification | Info

☑ StopInstances | Info

9. After that you need to add ARN for start and stop instances permission.
10. Choose these settings accordingly.
11. Then click on add ARN and move to next page.



Specify ARN(s)

Visual | Text

Resource in

● This account ○ Any account ○ Other account

Resource region

☑ Any region

*

Resource instance

☑ Any instance

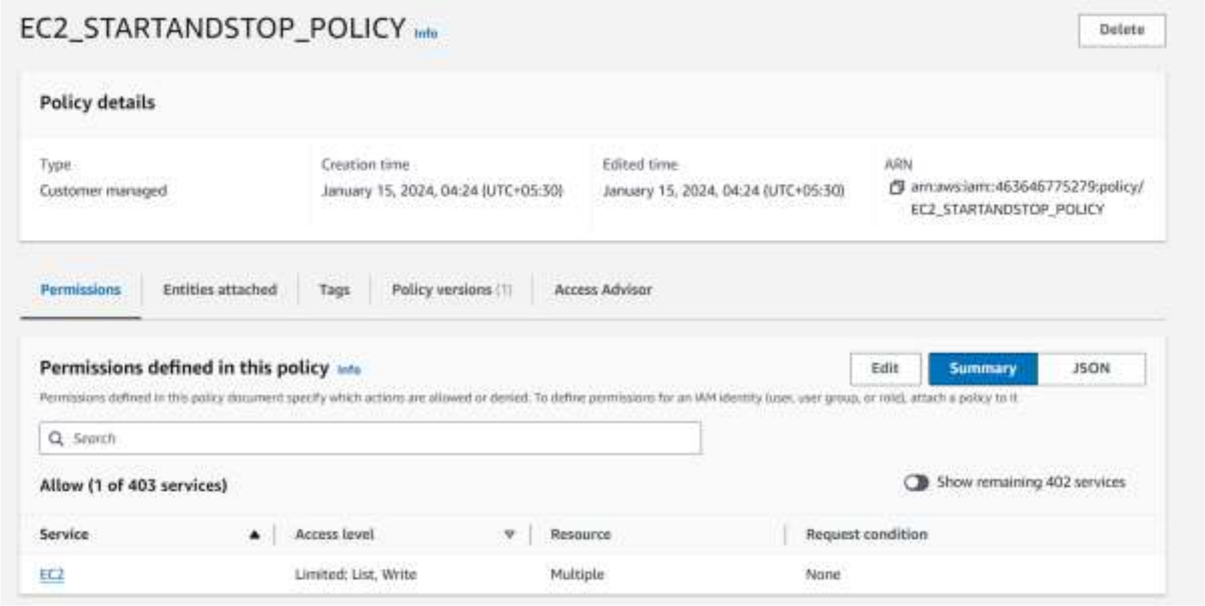
*

Resource ARN

arn:aws:ec2:*:463646775279:instance/*

Cancel | Add ARNs

12. Now attach your policy to the IAM User, then you need to log in with your IAM account.



EC2_STARTANDSTOP_POLICY Info

Delete

Policy details

Type	Creation time	Edited time	ARN
Customer managed	January 15, 2024, 04:24 (UTC+05:30)	January 15, 2024, 04:24 (UTC+05:30)	arn:aws:iam::463646775279:policy/EC2_STARTANDSTOP_POLICY

Permissions defined in this policy Info

Edit | Summary | JSON

Permissions defined in this policy document specify which actions are allowed or denied. To define permissions for an IAM identity (user, user group, or role), attach a policy to it.

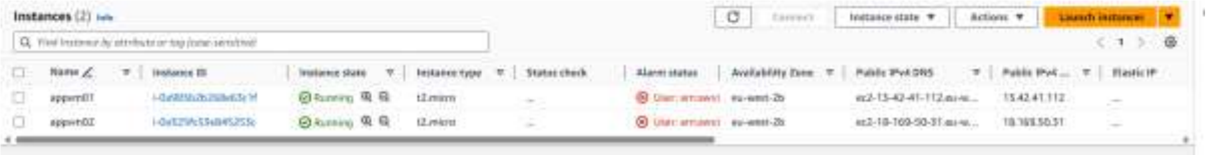
Search

Allow (1 of 403 services)

Show remaining 402 services

Service	Access level	Resource	Request condition
EC2	Limited: List, Write	Multiple	None

13. After logging in, you need to navigate to EC2 and select the region where you created your instances.
14. Here you can see your instances up and running.



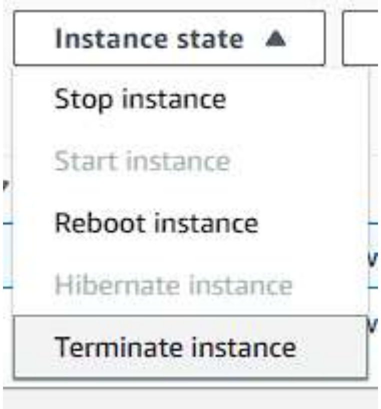
Instances (2) Info

Find Instance by attribute or tag (case-sensitive)

□	Name	Instance ID	Instance state	Instance type	Status check	Alarm status	Availability Zone	Public IPv4 DNS	Public IPv4 ...	Elastic IP
□	appvm01	[illegible]	Running	t2.micro	–	User: arn:aws:i	eu-west-2b	ec2-13-42-41-112.eu-w...	13.42.41.112	–
□	appvm02	[illegible]	Running	t2.micro	–	User: arn:aws:i	eu-west-2b	ec2-18-169-50-31.eu-w...	18.169.50.31	–

15. Now you need to select your instance and try to stop it.

16. As you can see you have 3 options, stop, reboot and terminate.
17. You can choose whatever option you like.


Instance state ▲
Stop instance
Start instance
Reboot instance
Hibernate instance
Terminate instance