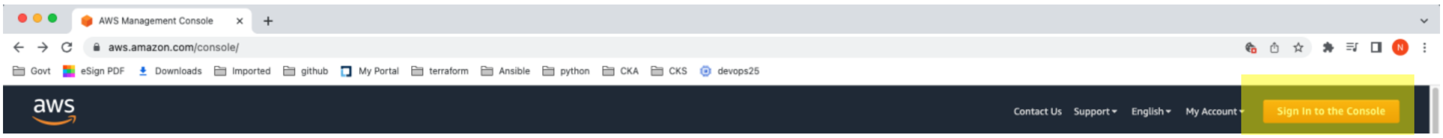
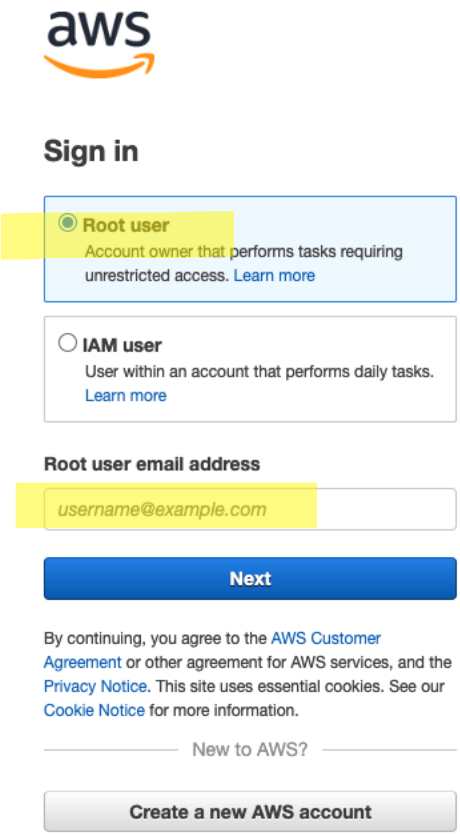
How to Login to AWS EC2

Using AWS SSM (Session Manager) OR Using the Connect Option on AWS Console

Login to AWS Account

https://aws.amazon.com/console/





Sign in

● Root user
Account owner that performs tasks requiring unrestricted access. Learn more

○ IAM user
User within an account that performs daily tasks. Learn more

Root user email address

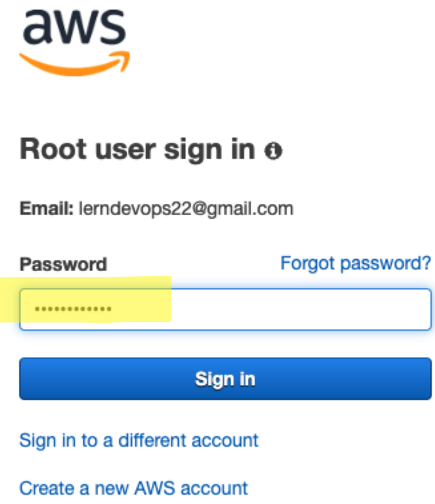
username@example.com

Next

By continuing, you agree to the AWS Customer Agreement or other agreement for AWS services, and the Privacy Notice. This site uses essential cookies. See our Cookie Notice for more information.

New to AWS?

Create a new AWS account



Root user sign in

Email: lerndevops22@gmail.com

Password — Forgot password?

•••••••••••••

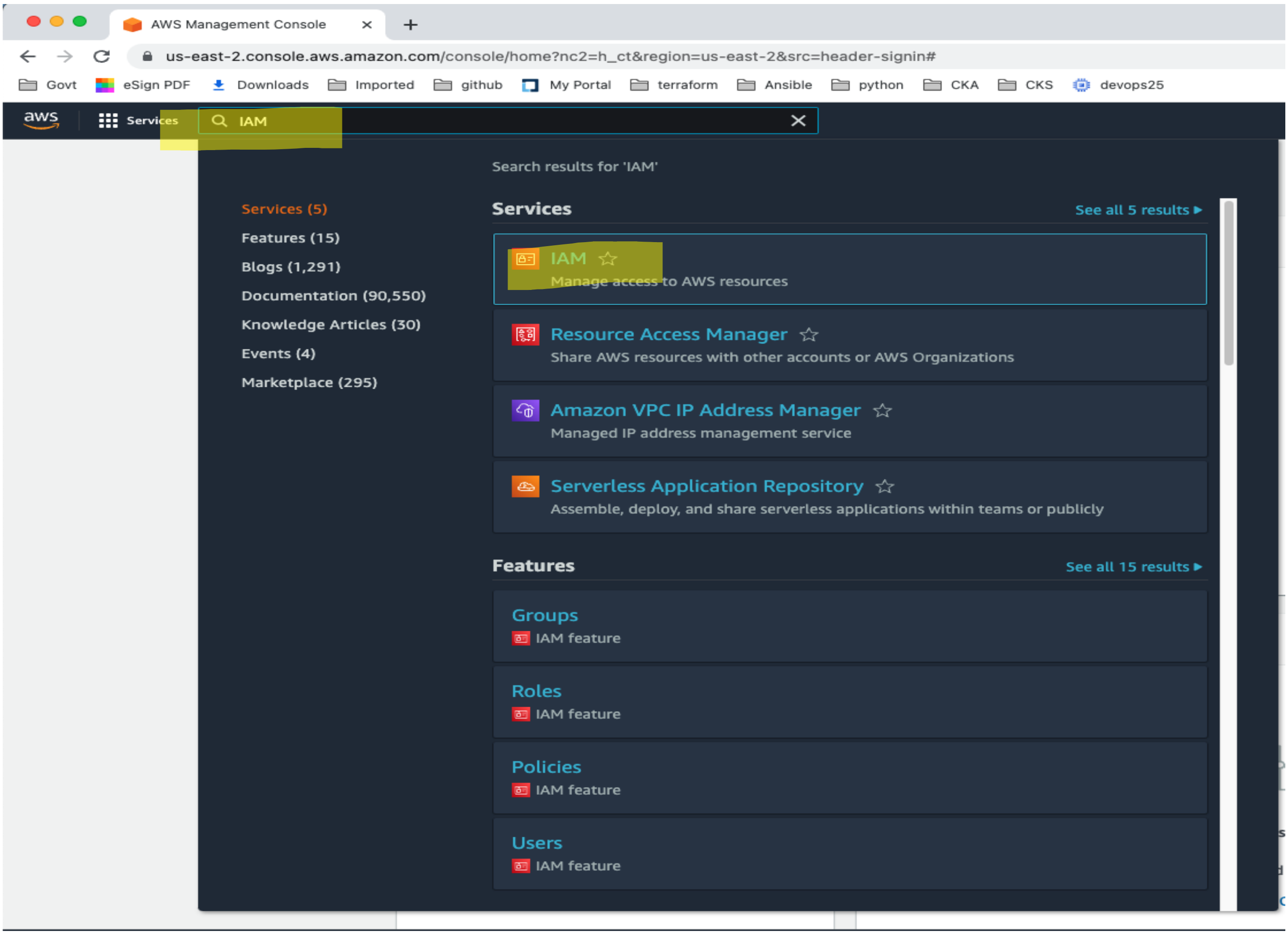
Sign in

Sign in to a different account

Create a new AWS account

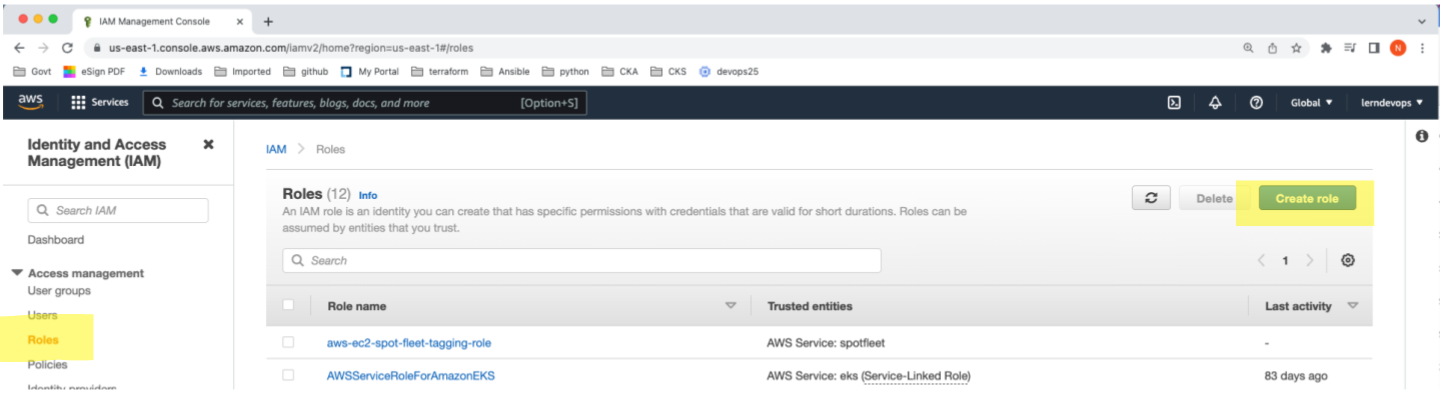
Create an IAM Role

go to IAM



AWS Management Console
us-east-2.console.aws.amazon.com/console/home?nc2=h_ct&region=us-east-2&src=header-signin#
Govt
eSign PDF
Downloads
Imported
github
My Portal
terraform
Ansible
python
CKA
CKS
devops25
aws
Services
IAM
Search results for 'IAM'
Services (5)
Features (15)
Blogs (1,291)
Documentation (90,550)
Knowledge Articles (30)
Events (4)
Marketplace (295)
Services
See all 5 results ▸
IAM ☆
Manage access to AWS resources
Resource Access Manager ☆
Share AWS resources with other accounts or AWS Organizations
Amazon VPC IP Address Manager ☆
Managed IP address management service
Serverless Application Repository ☆
Assemble, deploy, and share serverless applications within teams or publicly
Features
See all 15 results ▸
Groups
IAM feature
Roles
IAM feature
Policies
IAM feature
Users
IAM feature

Click on Roles & then Create Role

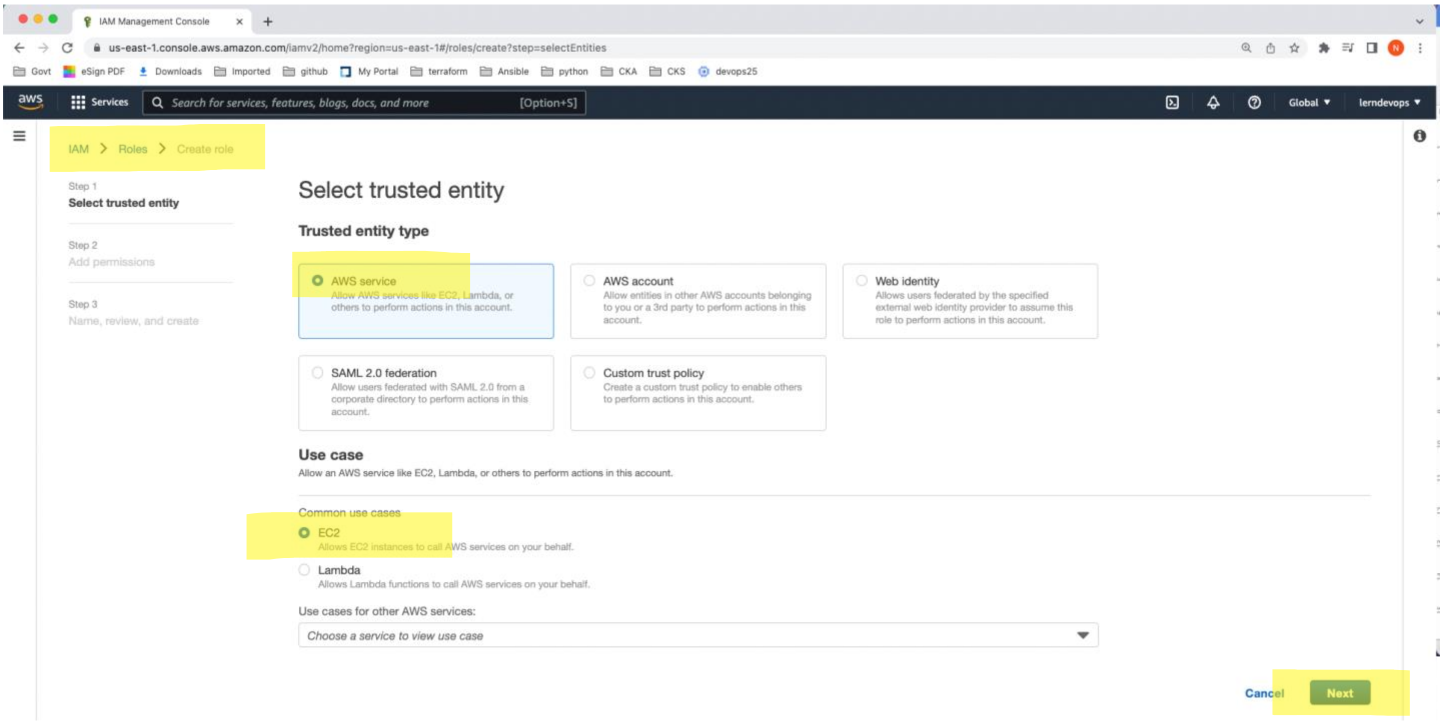


Roles (12) Info

An IAM role is an identity you can create that has specific permissions with credentials that are valid for short durations. Roles can be assumed by entities that you trust.

Role name	Trusted entities	Last activity
aws-ec2-spot-fleet-tagging-role	AWS Service: spotfleet	-
AWSServiceRoleForAmazonEKS	AWS Service: eks (Service-Linked Role)	83 days ago

Select the Options as Below & Click on Next


IAM Management Console
us-east-1.console.aws.amazon.com/iamv2/home?region=us-east-1#/roles/create?step=selectEntities
Govt
eSign PDF
Downloads
Imported
github
My Portal
terraform
Ansible
python
CKA
CKS
devops25
aws
Services
Search for services, features, blogs, docs, and more
[Option+S]
Global ▼
lerndevops ▼

IAM > Roles > Create role

Step 1
Select trusted entity

Step 2
Add permissions

Step 3
Name, review, and create

Select trusted entity

Trusted entity type

● AWS service
Allow AWS services like EC2, Lambda, or others to perform actions in this account.

○ AWS account
Allow entities in other AWS accounts belonging to you or a 3rd party to perform actions in this account.

○ Web identity
Allows users federated by the specified external web identity provider to assume this role to perform actions in this account.

○ SAML 2.0 federation
Allow users federated with SAML 2.0 from a corporate directory to perform actions in this account.

○ Custom trust policy
Create a custom trust policy to enable others to perform actions in this account.

Use case
Allow an AWS service like EC2, Lambda, or others to perform actions in this account.

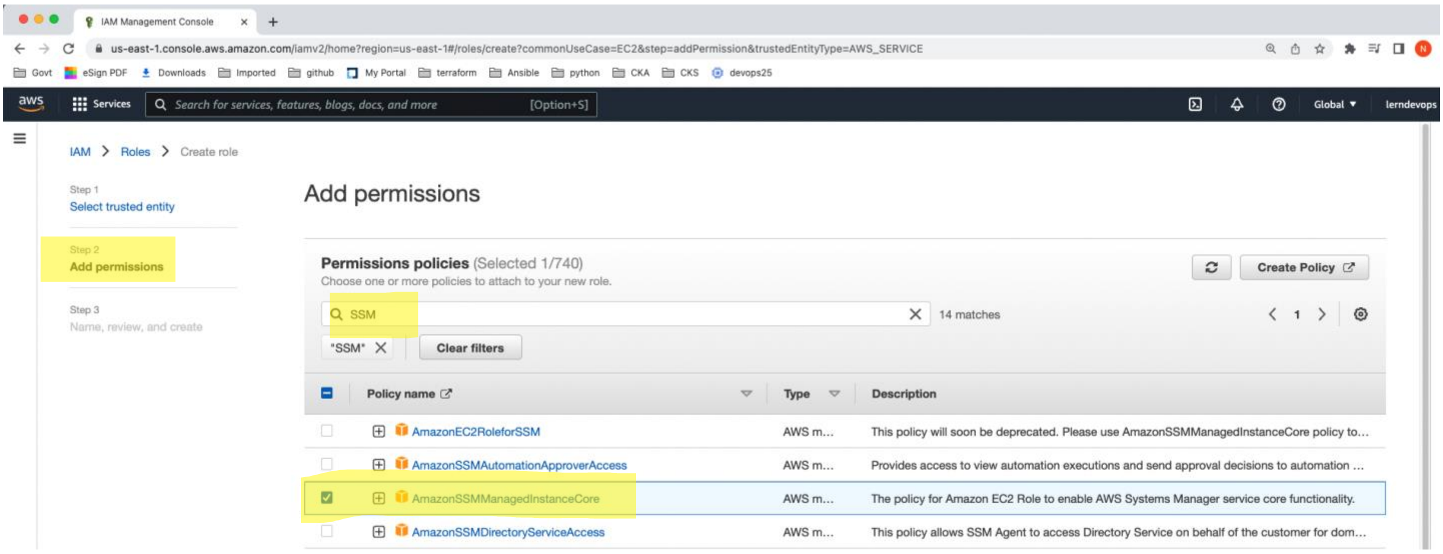
Common use cases

● EC2
Allows EC2 instances to call AWS services on your behalf.

○ Lambda
Allows Lambda functions to call AWS services on your behalf.

Use cases for other AWS services:
Choose a service to view use case

Add permissions as below & click on Next


IAM Management Console
us-east-1.console.aws.amazon.com/iamv2/home?region=us-east-1#/roles/create?commonUseCase=EC2&step=addPermission&trustedEntityType=AWS_SERVICE
Govt
eSign PDF
Downloads
Imported
github
My Portal
terraform
Ansible
python
CKA
CKS
devops25
aws
Services
Search for services, features, blogs, docs, and more
[Option+S]
Global ▼
lerndevops

IAM > Roles > Create role

Step 1
Select trusted entity

Step 2
Add permissions

Step 3
Name, review, and create

Add permissions

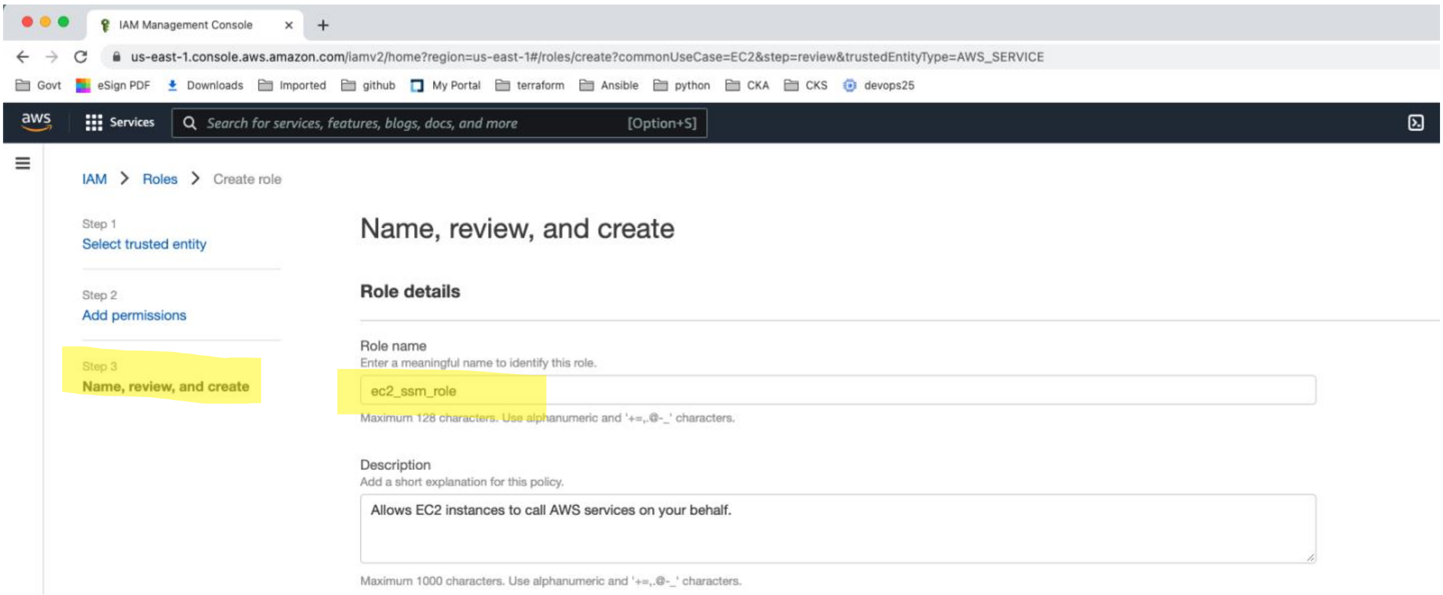
Permissions policies (Selected 1/740)
Choose one or more policies to attach to your new role.

SSM — 14 matches

"SSM" ✕ Clear filters

	Policy name	Type	Description
□	AmazonEC2RoleforSSM	AWS m...	This policy will soon be deprecated. Please use AmazonSSMManagedInstanceCore policy to...
□	AmazonSSMAutomationApproverAccess	AWS m...	Provides access to view automation executions and send approval decisions to automation ...
☑	AmazonSSMManagedInstanceCore	AWS m...	The policy for Amazon EC2 Role to enable AWS Systems Manager service core functionality.
□	AmazonSSMDirectoryServiceAccess	AWS m...	This policy allows SSM Agent to access Directory Service on behalf of the customer for dom...

Enter the role name & click on Create role



us-east-1.console.aws.amazon.com/iamv2/home?region=us-east-1#/roles/create?commonUseCase=EC2&step=review&trustedEntityType=AWS_SERVICE

IAM > Roles > Create role

Step 1
Select trusted entity

Step 2
Add permissions

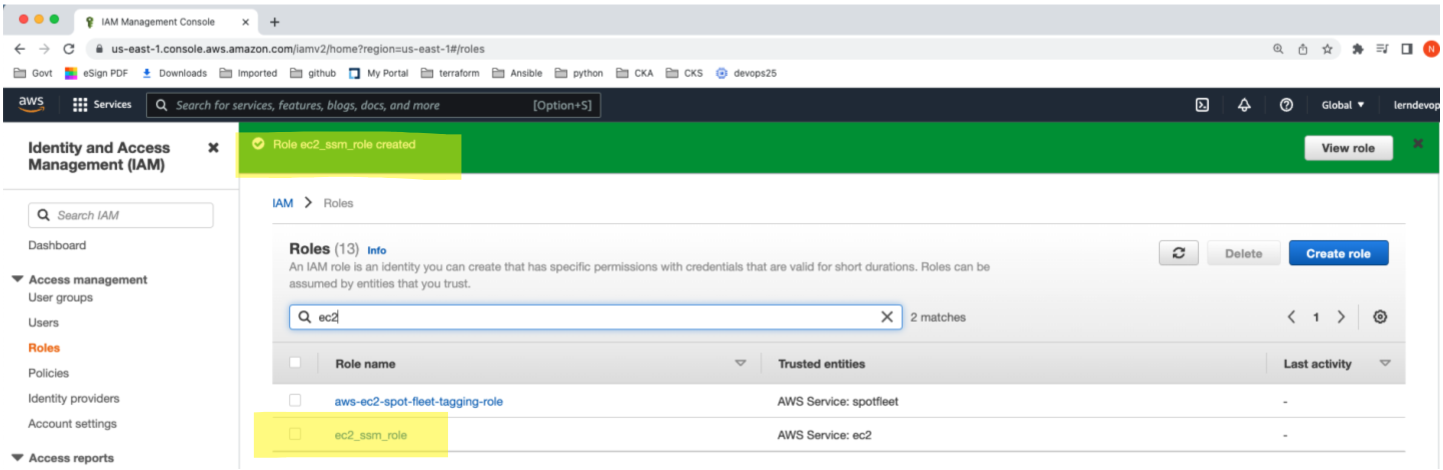
Step 3
Name, review, and create

Name, review, and create

Role details

Role name
Enter a meaningful name to identify this role.
ec2_ssm_role
Maximum 128 characters. Use alphanumeric and '+=,.@-_' characters.

Description
Add a short explanation for this policy.
Allows EC2 instances to call AWS services on your behalf.
Maximum 1000 characters. Use alphanumeric and '+=,.@-_' characters.



us-east-1.console.aws.amazon.com/iamv2/home?region=us-east-1#/roles

Role ec2_ssm_role created

IAM > Roles

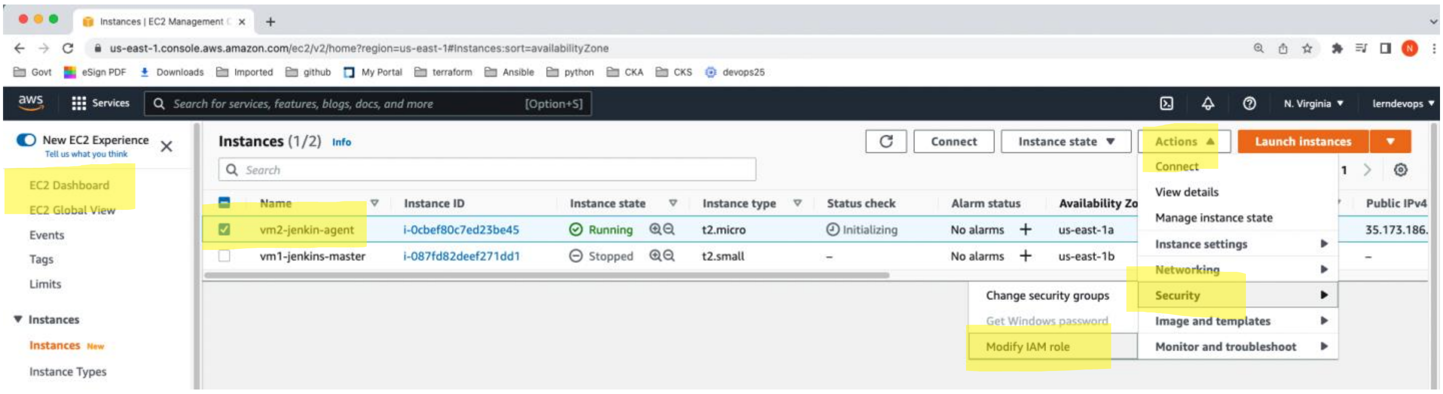
Roles (13) Info
An IAM role is an identity you can create that has specific permissions with credentials that are valid for short durations. Roles can be assumed by entities that you trust.

ec2 — 2 matches

	Role name	Trusted entities	Last activity
□	aws-ec2-spot-fleet-tagging-role	AWS Service: spotfleet	-
□	ec2_ssm_role	AWS Service: ec2	-

Attach IAM Role to Existing EC2 Instance

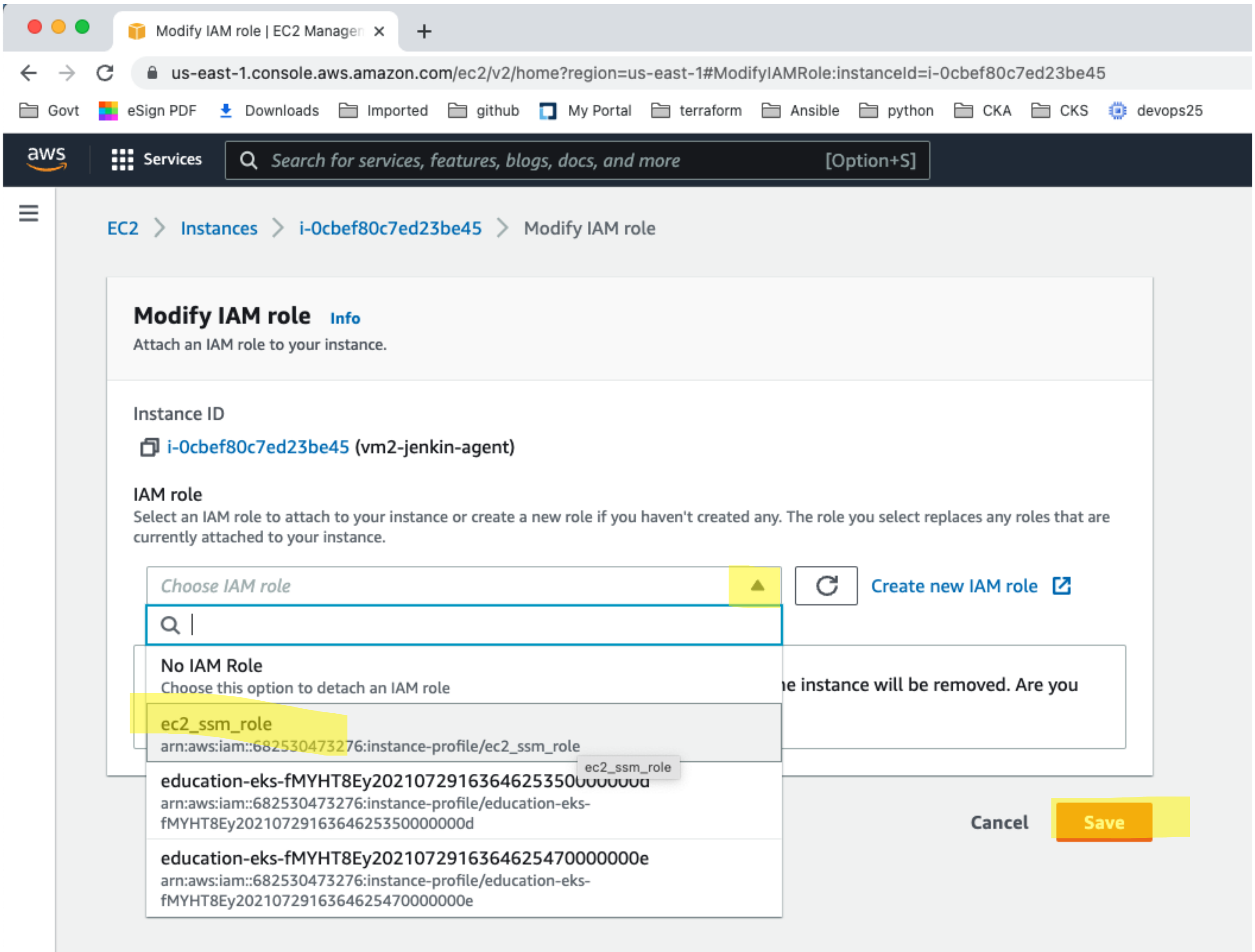
Go to EC2 Dashboard, Select any Instance & Actions as Below



Instances (1/2) Info

	Name	Instance ID	Instance state	Instance type	Status check	Alarm status	Availability Zo	Public IPv4
☑	vm2-jenkin-agent	i-0cbef80c7ed23be45	Running	t2.micro	Initializing	No alarms	us-east-1a	35.173.186.
□	vm1-jenkins-master	i-087fd82deef271dd1	Stopped	t2.small	–	No alarms	us-east-1b	–

Choose IAM role & Save



Modify IAM role Info

Attach an IAM role to your instance.

Instance ID

i-0cbef80c7ed23be45 (vm2-jenkin-agent)

IAM role

Select an IAM role to attach to your instance or create a new role if you haven't created any. The role you select replaces any roles that are currently attached to your instance.

Choose IAM role

No IAM Role
Choose this option to detach an IAM role

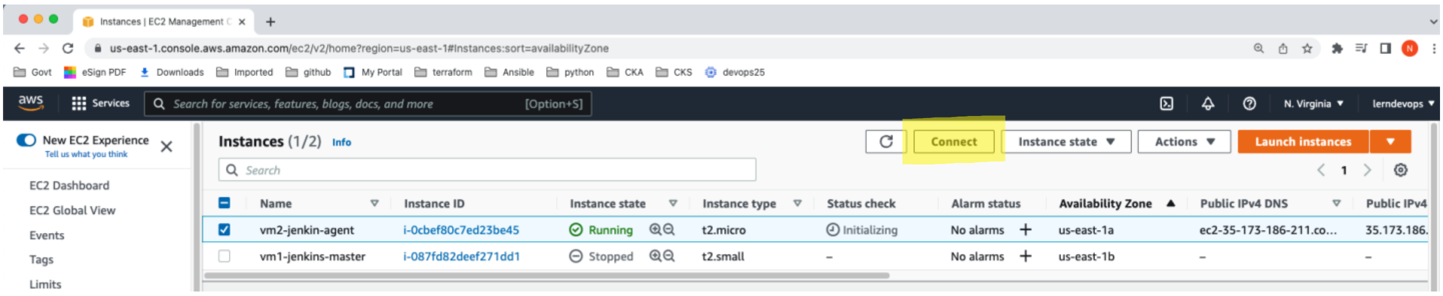
ec2_ssm_role
arn:aws:iam::682530473276:instance-profile/ec2_ssm_role

education-eks-fMYHT8Ey2021072916364625350000000d
arn:aws:iam::682530473276:instance-profile/education-eks-fMYHT8Ey2021072916364625350000000d

education-eks-fMYHT8Ey2021072916364625470000000e
arn:aws:iam::682530473276:instance-profile/education-eks-fMYHT8Ey2021072916364625470000000e

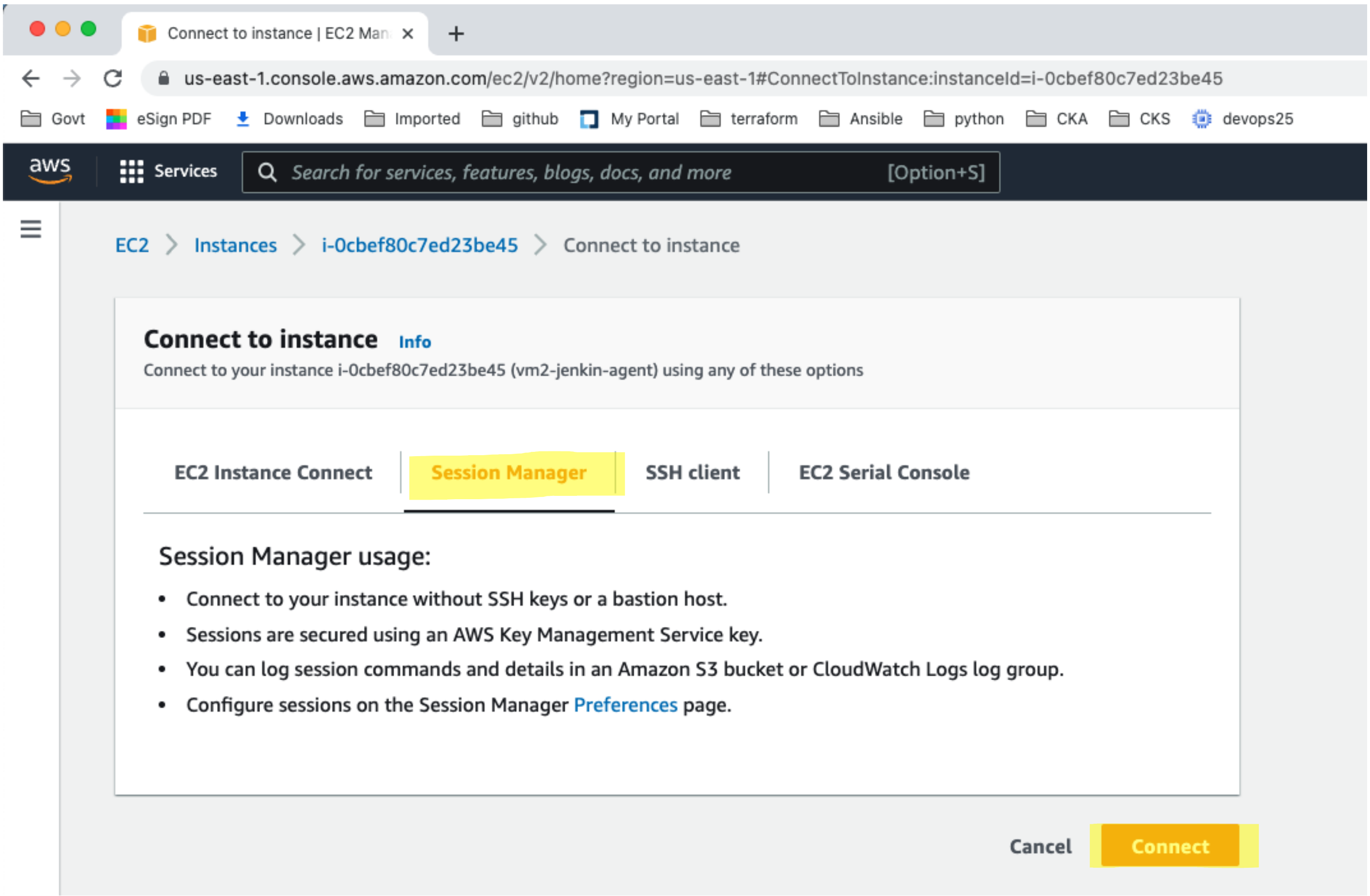
e instance will be removed. Are you

Connect to EC2



Instances (1/2) Info

☐	Name	Instance ID	Instance state	Instance type	Status check	Alarm status	Availability Zone	Public IPv4 DNS	Public IPv4
☑	vm2-jenkin-agent	i-0cbef80c7ed23be45	Running	t2.micro	Initializing	No alarms	us-east-1a	ec2-35-173-186-211.co...	35.173.186.
☐	vm1-jenkins-master	i-087fd82deef271dd1	Stopped	t2.small	–	No alarms	us-east-1b	–	–


Connect to instance | EC2 Man
us-east-1.console.aws.amazon.com/ec2/v2/home?region=us-east-1#ConnectToInstance:instanceId=i-0cbef80c7ed23be45
Govt
eSign PDF
Downloads
Imported
github
My Portal
terraform
Ansible
python
CKA
CKS
devops25
aws
Services
Search for services, features, blogs, docs, and more
[Option+S]
EC2 > Instances > i-0cbef80c7ed23be45 > Connect to instance

Connect to instance Info

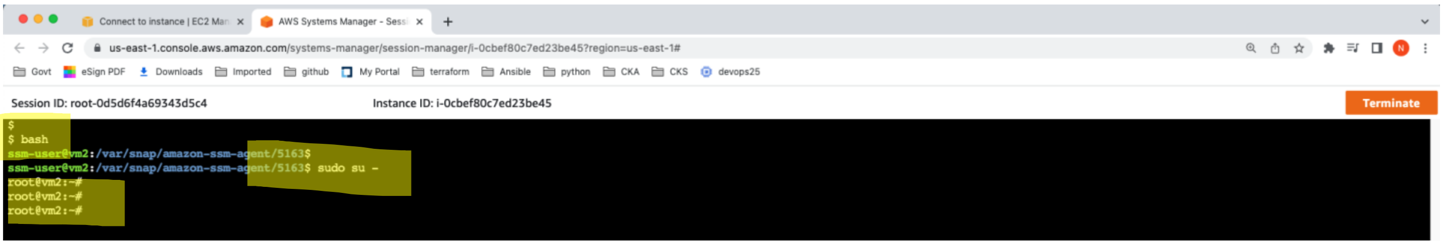
Connect to your instance i-0cbef80c7ed23be45 (vm2-jenkin-agent) using any of these options

EC2 Instance Connect | Session Manager | SSH client | EC2 Serial Console

Session Manager usage:

- Connect to your instance without SSH keys or a bastion host.
- Sessions are secured using an AWS Key Management Service key.
- You can log session commands and details in an Amazon S3 bucket or CloudWatch Logs log group.
- Configure sessions on the Session Manager Preferences page.

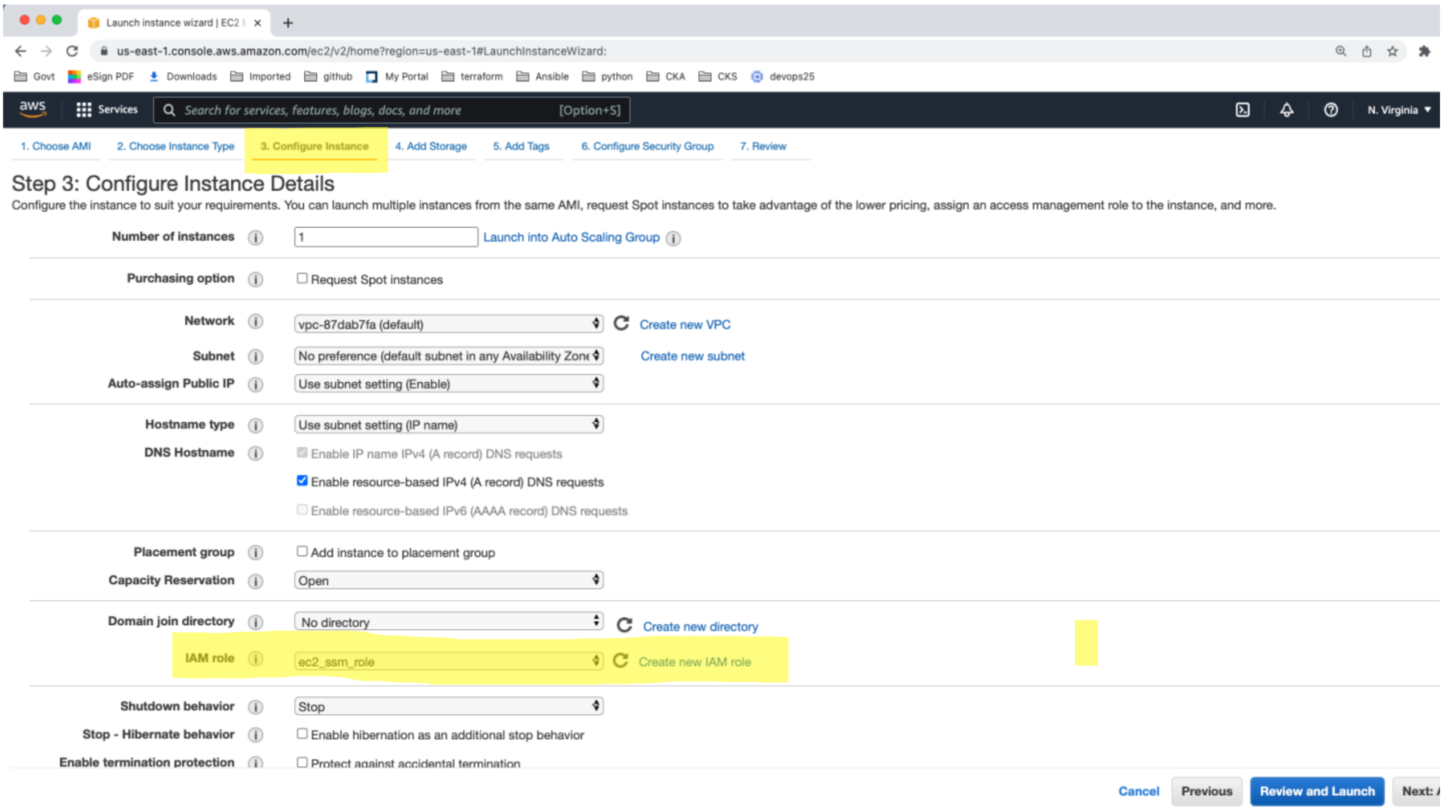
Cancel | Connect


Connect to instance | EC2 Man
AWS Systems Manager - Sessi
us-east-1.console.aws.amazon.com/systems-manager/session-manager/i-0cbef80c7ed23be45?region=us-east-1#
Govt
eSign PDF
Downloads
Imported
github
My Portal
terraform
Ansible
python
CKA
CKS
devops25
Terminate

Session ID: root-0d5d6f4a69343d5c4   Instance ID: i-0cbef80c7ed23be45

```
$
$ bash
ssm-user@vm2:/var/snap/amazon-ssm-agent/5163$
ssm-user@vm2:/var/snap/amazon-ssm-agent/5163$ sudo su -
root@vm2:~#
root@vm2:~#
root@vm2:~#
```

Attach IAM Role While Creating EC2 Instance



Step 3: Configure Instance Details

Configure the instance to suit your requirements. You can launch multiple instances from the same AMI, request Spot instances to take advantage of the lower pricing, assign an access management role to the instance, and more.

Number of instances: 1 — Launch into Auto Scaling Group

Purchasing option: □ Request Spot instances

Network: vpc-87dab7fa (default) — Create new VPC

Subnet: No preference (default subnet in any Availability Zone — Create new subnet

Auto-assign Public IP: Use subnet setting (Enable)

Hostname type: Use subnet setting (IP name)

DNS Hostname: ☑ Enable IP name IPv4 (A record) DNS requests

☑ Enable resource-based IPv4 (A record) DNS requests

□ Enable resource-based IPv6 (AAAA record) DNS requests

Placement group: □ Add instance to placement group

Capacity Reservation: Open

Domain join directory: No directory — Create new directory

IAM role: ec2_ssm_role — Create new IAM role

Shutdown behavior: Stop

Stop - Hibernate behavior: □ Enable hibernation as an additional stop behavior

Enable termination protection: □ Protect against accidental termination

more info:

https://docs.aws.amazon.com/systems-manager/latest/userguide/session-manager.html