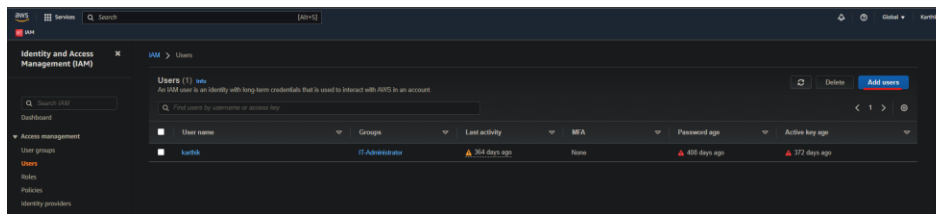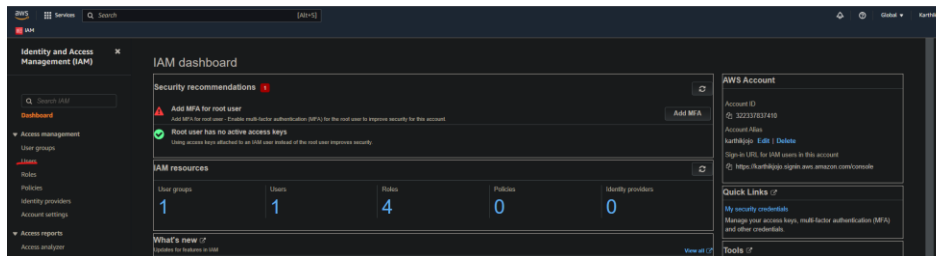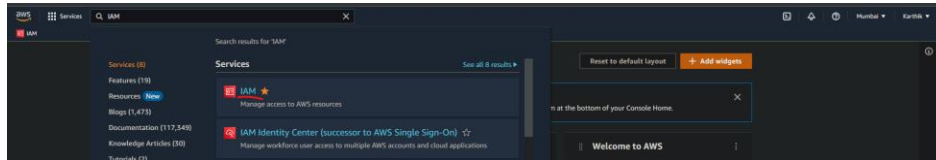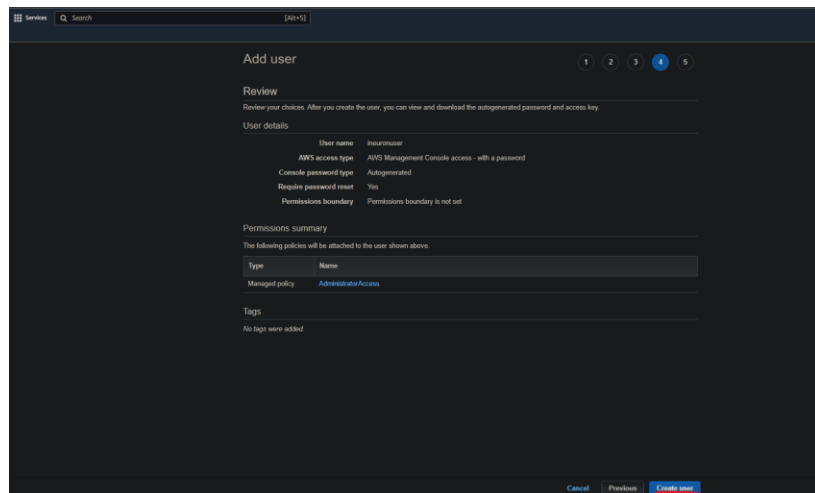# IAM Assignment 30th OCT'22

Assignment 1:- Create an IAM user with username of your own wish and grant administrator policy.

Steps:

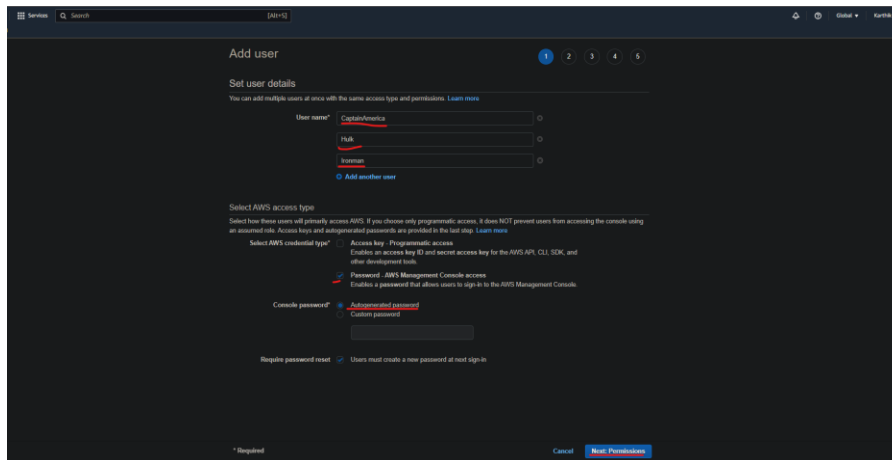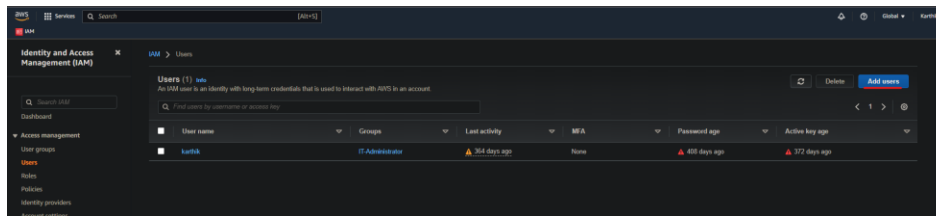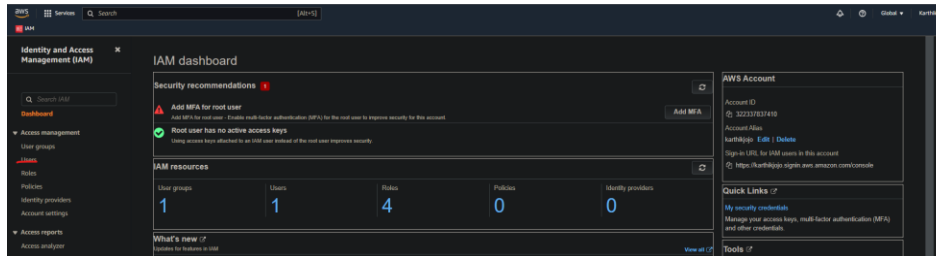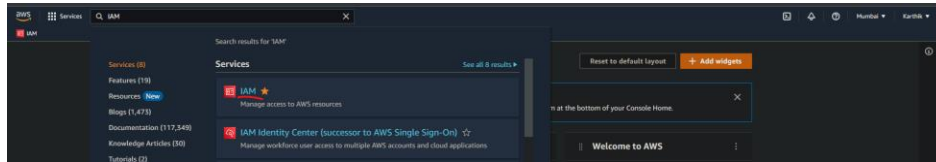**Screen 1 — Add user (Step 2): Set permissions**

Services Q Search [Alt+S]

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 Search Showing 801 results

Policy name	Type	Used as
AdministratorAccess	Job function	Permissions policy (1)
AdministratorAccess-Amplify	AWS managed	None
AdministratorAccess-AWSElasticBeanstalk	AWS managed	None
AlexaForBusinessDeviceSetup	AWS managed	None
AlexaForBusinessFullAccess	AWS managed	None
AlexaForBusinessGatewayExecution	AWS managed	None
AlexaForBusinessLifesizeDelegatedAccessPolicy	AWS managed	None
AlexaForBusinessPolyDelegatedAccessPolicy	AWS managed	None
AlexaForBusinessReadOnlyAccess	AWS managed	None
AmazonAPIGatewayAdministrator	AWS managed	None
AmazonAPIGatewayInvokeFullAccess	AWS managed	None
AmazonAPIGatewayPushToCloudWatchLogs	AWS managed	None
AmazonAppFlowFullAccess	AWS managed	None
AmazonAppFlowReadOnlyAccess	AWS managed	None
AmazonAppStreamFullAccess	AWS managed	None
AmazonAppStreamPCAAccess	AWS managed	None
AmazonAppStreamReadOnlyAccess	AWS managed	None

Cancel Previous Next: Tags

Screen 2 — Add user (Step 4): Review

Services Q Search [Alt+S]

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	Ineuronuser
AWS access type	AWS Management Console access - with a password
Console password type	Autogenerated
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	AdministratorAccess

Tags

No tags were added.

Cancel Previous Create user

Screen 3 — Add user (Step 5): Success

Services Q Search [Alt+S]

Add user 1 2 3 4 5

✓ Success
You successfully created the users shown below. You can view and download user security credentials. You can also email users instructions for signing in to the AWS Management Console. This is the last time these credentials will be available to download. However, you can create new credentials at any time.

Users with AWS Management Console access can sign-in at: https://karthikjojo.signin.aws.amazon.com/console

⬇ Download .csv

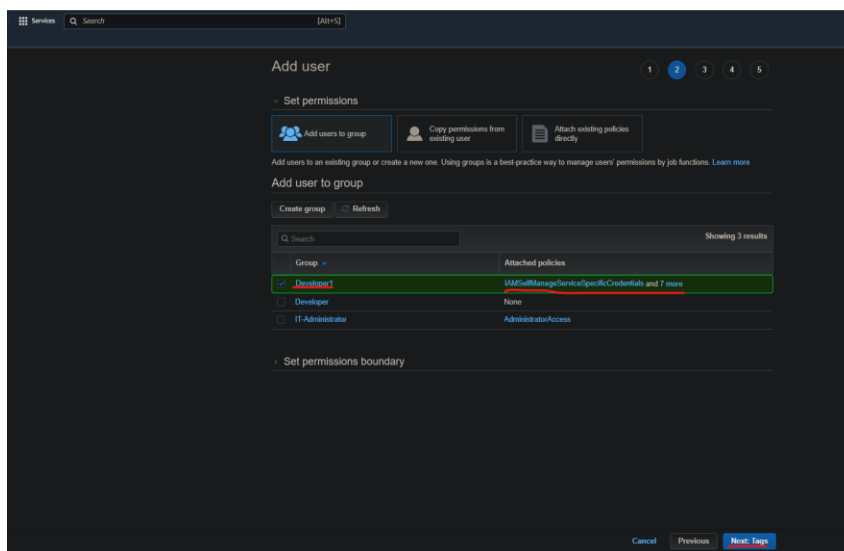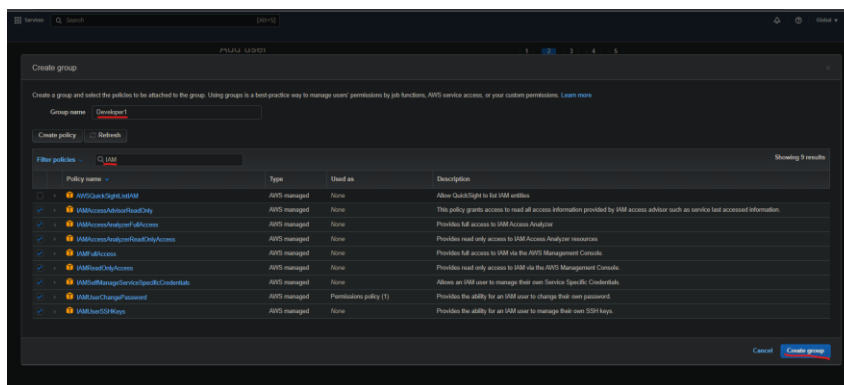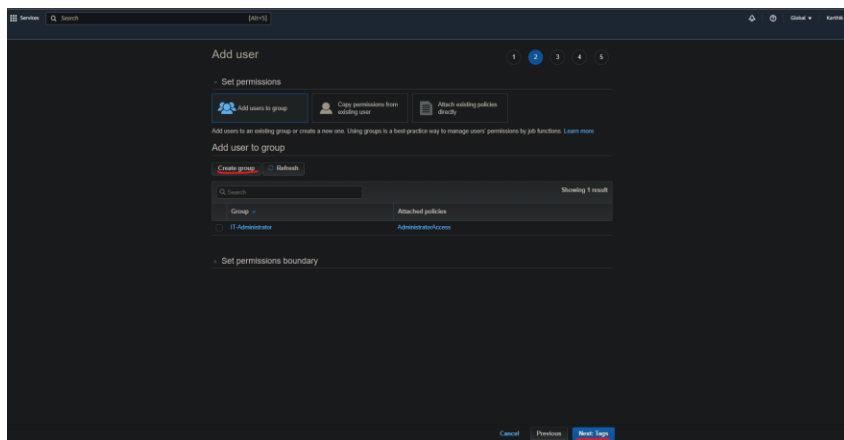| User	Password	Email login instructions
✓ Ineuronuser	********* Show	Send email ↗

Close

Assignment 2:- Hello students, in this assignment you need to prepare a developers team of avengers.- Create 3 IAM users of avengers and assign them in developer's groups with IAM policy.

Steps:

Assignment 3:- Define a condition in policy for expiration like
```
"DateGreaterThan":{"aws:CurrentTime":"2020-04-01T00:00:00Z"},
"DateLessThan":{"aws:CurrentTime":"2020-06-30T23:59:59Z"}
```

Define the span of 4 months as per your wish

Assignment 4:- Prepare 15 authentic MCQ questions related to IAM.

```
Q.IAM policy documents are written in which format
    XML
    HTML
-> JSON
    YAML

Q.One of the elements is an optional element of an IAM policy document, which one is it?
    Action
    Version
    Effect
-> Condition
Q.What you need to allow a lambda function to do an action on S3 Bucket?

-> IAM Role and IAM Policy
    IAM User and IAM Policy
    IAM Role and IAM User
    STS token and S3 bucket url

Q.This IAM resource can be reused across multiple identities, guess who?
     IAM inline policies
     IAM Role
     IAM User
 -> IAM Managed Policies
Q.What is the name of the tool which tells if identities within your account would be able to take actions?
    The Policy Advisor
```

```
   -> The Policy Simulator
      The Access Advisor
      The Access Simulator


Q.Which of the following are managed by using IAM
      KMS
   -> MFA
      Security Groups
Q.IAM policy documents are written in which format
      XML
      HTML
   -> JSON
      YAM
Q.One of the elements is an optional element of an IAM policy document, which one is it?
      Action
      Version
      Effect
   -> Condition
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      IAM User and IAM Policy
      IAM Role and IAM User
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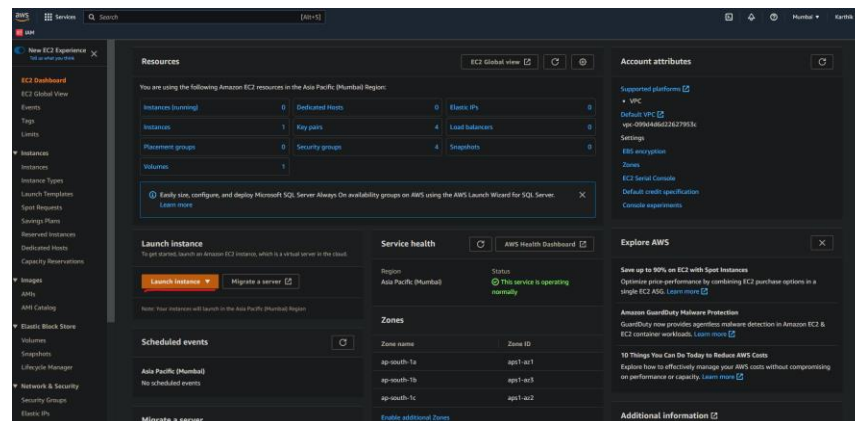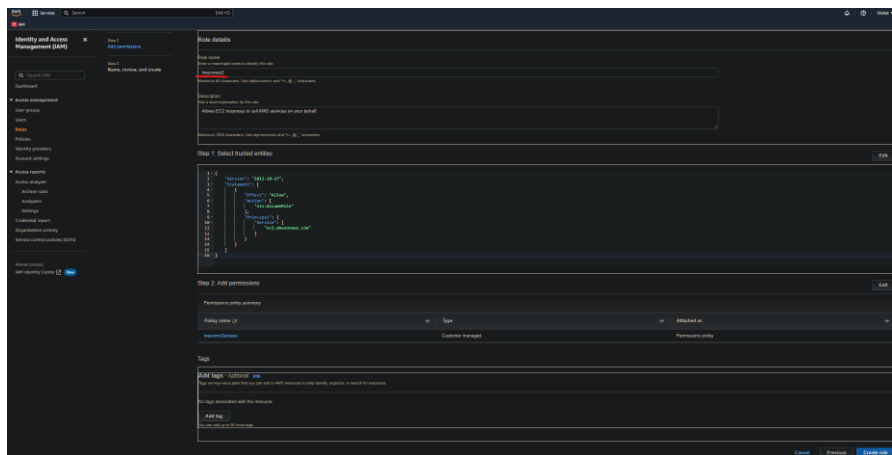
Assignment 5:- Launch your Linux instance in IAM and update your machine.

Step:

EC2 > Instances > Launch an instance

Launch an instance Info

Amazon EC2 allows you to create virtual machines, or instances, that run on the AWS Cloud. Quickly get started by following the simple steps below.

Name and tags Info

Name

| ineuron1 | Add additional tags |

▼ Application and OS Images (Amazon Machine Image) Info

An AMI is a template that contains the software configuration (operating system, application server, and applications) required to launch your instance. Search or Browse for AMIs if you don't see what you are looking for below

🔍 Search our full catalog including 1000s of application and OS images

Quick Start

Amazon Linux	macOS	Ubuntu	Windows	Red Hat	S	🔍 Browse more AMIs

Including AMIs from AWS, Marketplace and the Community

Amazon Machine Image (AMI)

Amazon Linux 2 AMI (HVM) - Kernel 5.10, SSD Volume Type   Free tier eligible
ami-074dc0a6f6c764218 (64-bit (x86)) / ami-019774e5caffd1685 (64-bit (Arm))
Virtualization: hvm   ENA enabled: true   Root device type: ebs

▼ Summary

Number of instances Info

| 1 |

Software Image (AMI)
Amazon Linux 2 Kernel 5.10 AMI...read more
ami-074dc0a6f6c764218

Virtual server type (instance type)
t2.micro

Firewall (security group)
New security group

Storage (volumes)
1 volume(s) - 8 GiB

ⓘ **Free tier:** In your first year includes 750 hours of t2.micro (or t3.micro in the Regions in which t2.micro is unavailable) instance usage on free tier AMIs per month, 30 GiB of EBS storage, 2 million IOs, 1 GB of snapshots, and 100 GB of bandwidth to the internet. ✕

| Cancel | **Launch instance** |

1x | 8 | GiB | gp2 ▾   Root volume (Not encrypted)

ⓘ Free tier eligible customers can get up to 30 GB of EBS General Purpose (SSD) or Magnetic storage ✕

Add new volume

0 x File systems   Edit

▼ Advanced details Info

Purchasing option Info
☐ Request Spot Instances
Request Spot Instances at the Spot price, capped at the On-Demand price

Domain join directory Info
| Select ▾ | 🔄 Create new directory ⧉

IAM instance profile Info
| Ineuronec2
arn:aws:iam::322337837410:instance-profile/Ineuronec2 ▾ | 🔄 Create new IAM profile ⧉

Hostname type Info
| IP name ▾ |

DNS Hostname Info
☐ Enable IP name IPv4 (A record) DNS requests
☐ Enable resource-based IPv4 (A record) DNS requests
☐ Enable resource-based IPv6 (AAAA record) DNS requests

Instance auto-recovery Info
| Select ▾ |

▼ Summary

Number of instances Info

| 1 |

Software Image (AMI)
Amazon Linux 2 Kernel 5.10 AMI...read more
ami-074dc0a6f6c764218

Virtual server type (instance type)
t2.micro

Firewall (security group)
New security group

Storage (volumes)
1 volume(s) - 8 GiB

ⓘ **Free tier:** In your first year includes 750 hours of t2.micro (or t3.micro in the Regions in which t2.micro is unavailable) instance usage on free tier AMIs per month, 30 GiB of EBS storage, 2 million IOs, 1 GB of snapshots, and 100 GB of bandwidth to the internet. ✕

| Cancel | **Launch instance** |