

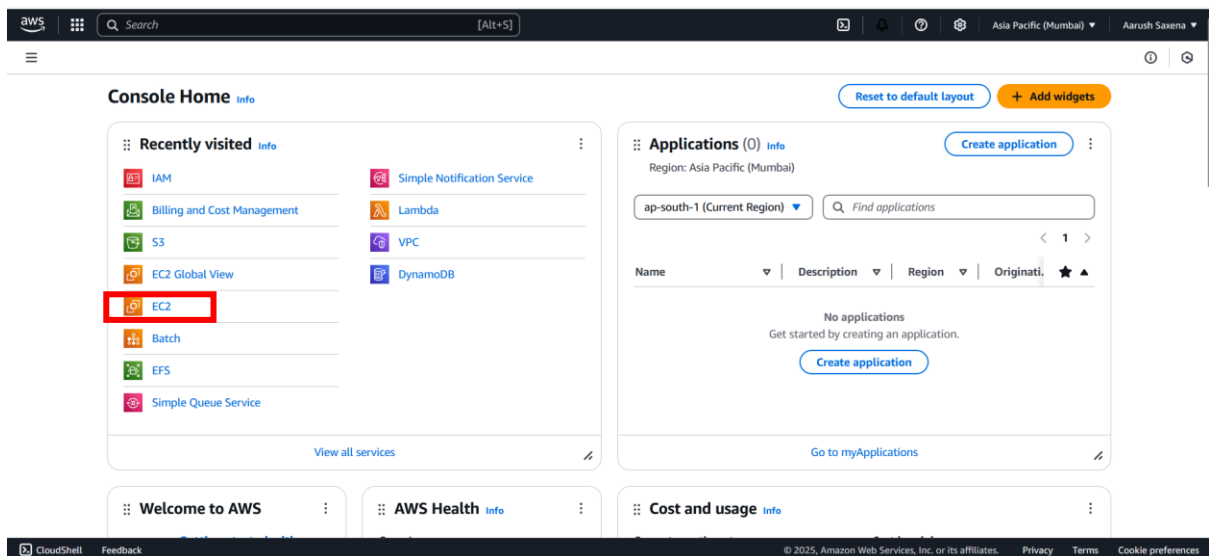
PLACEMENT GROUPS

In AWS, placement groups are used to control the physical placement of EC2 instances within an Availability Zone, allowing you to optimize network performance for specific workloads by placing related instances close together for fast speed, spread in each availability zone for high availability, or provide own set of racks.

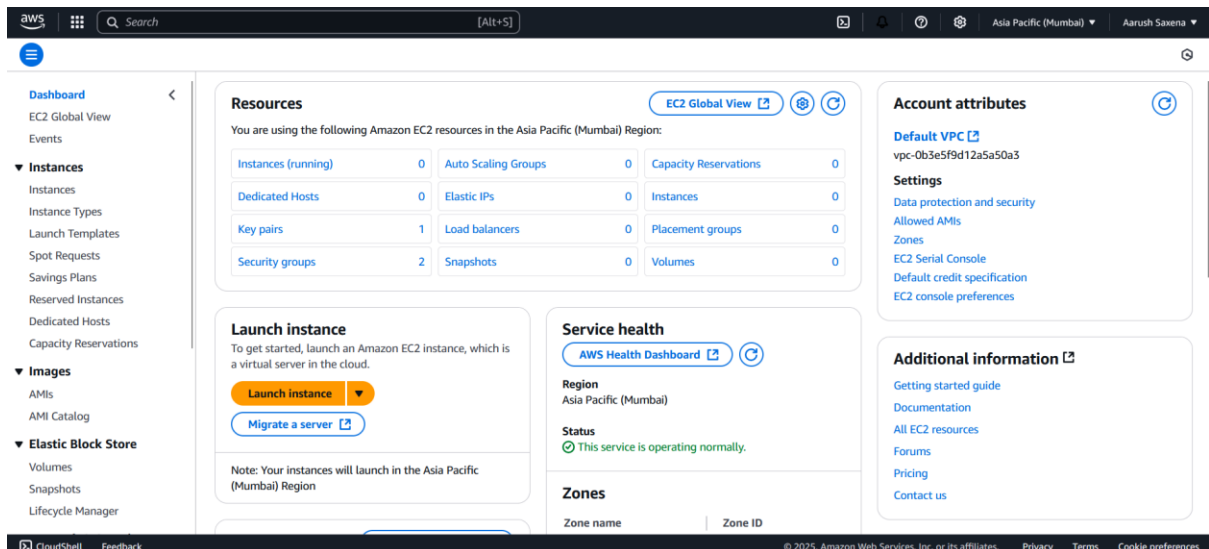
They are of three types:

1. Cluster
2. Spread
3. Partition

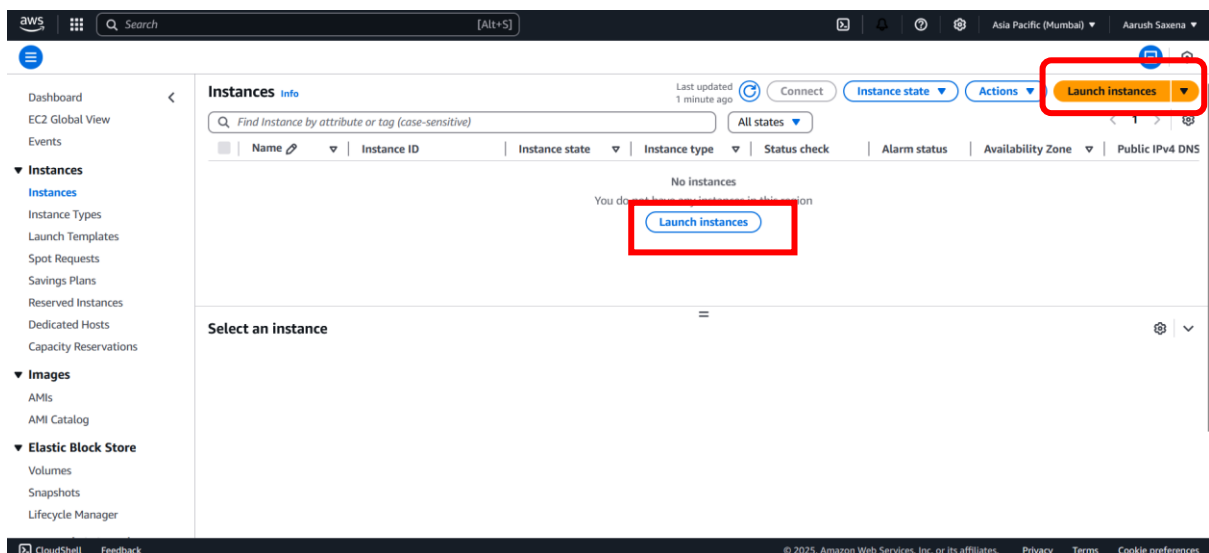
Step1: Log-in to your aws account and search for EC2 and click on it. As shown in image given below.



If you cannot able to see it in your recent visited tab then click on search-bar and search for EC2.



Click on Instances and click on Launch Instances. Give name to your instance as we are creating instances for placement groups we give it(instance) as instanceForPlacementGroup select the ami according to your choice and scroll down create a key pair or attach existing key pair scroll down go with default security groups or select or create one for you. Leave other things to default settings and scroll down inside of Advance details you can see a option for Placement Groups.



Instead of t2.micro we need to attach compute instance type

aws

Q Search

[Alt+5]

Asia Pacific (Mumbai)

Aarush Saxena

EC2 > Instances > Launch an instance

Network settings Info

Network Info

vpc-0b3e5f9d12a5a50a3

Subnet Info

No preference (Default subnet in any availability zone)

Auto-assign public IP Info

Enable

Additional charges apply when outside of free tier allowance

Firewall (security groups) Info

A security group is a set of firewall rules that control the traffic for your instance. Add rules to allow specific traffic to reach your instance.

Create security group

Select existing security group

Common security groups Info

Select security groups

launch-wizard-1 sg-0ad71504e6320b750 X

VPC: vpc-0b3e5f9d12a5a50a3

Security groups that you add or remove here will be added to or removed from all your network interfaces.

Compare security group rules

Configure storage Info

Advanced

Summary

Number of instances Info

1

Software Image (AMI)

Amazon Linux 2023 AMI 2023.6.2...read more

ami-096f476985f829eb4

Virtual server type (instance type)

t2.micro

Firewall (security group)

launch-wizard-1

Storage (volumes)

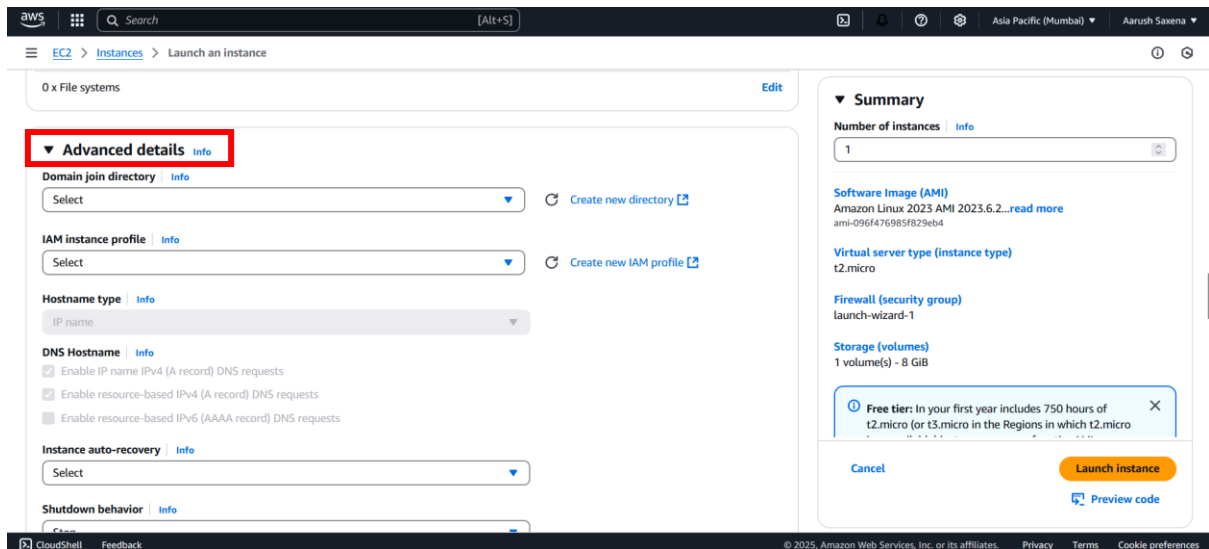
1 volume(s) - 8 GiB

Free tier: In your first year includes 750 hours of t2.micro (or t3.micro in the Regions in which t2.micro is available)

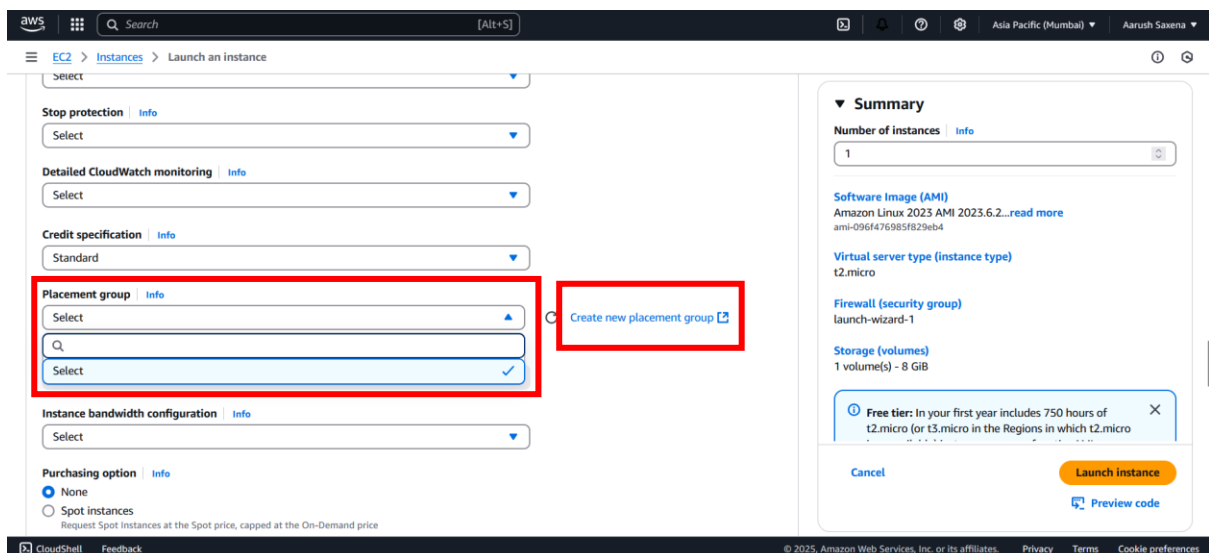
Cancel

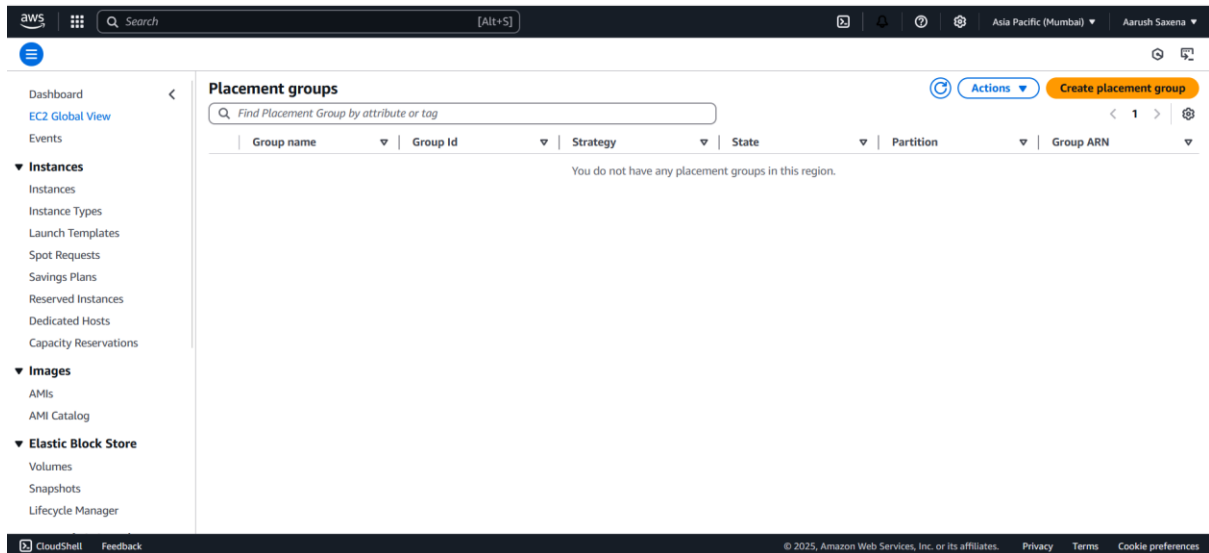
Launch instance

Preview code

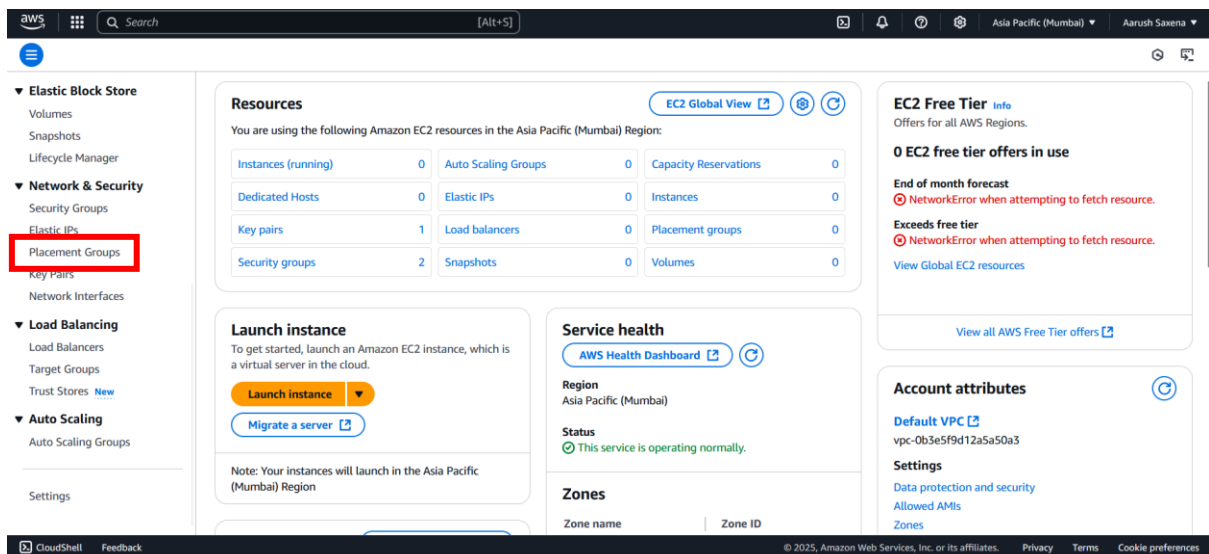


As shown in image given below if you click on it you cannot see any placement group so by clicking on create new placement group you will redirect to placement group option.





Another way to create placement groups from the EC2 dashboard on the left side scroll down and you will find placement group under network and security. After clicking on it again you will see the same dashboard as shown in image above.



Click on create placement group, give name to your placement group and select the strategy and click on create group.

Create placement group [Info](#)

Placement group settings

Name
clusterinstance

Placement strategy
Determines how the instances are placed on the underlying hardware.
Cluster

Tags - optional

Key
Q name

Value - optional
Q cluster

[Remove](#)

[Add new tag](#)
You can add up to 49 more tags.

[Cancel](#) [Create group](#)

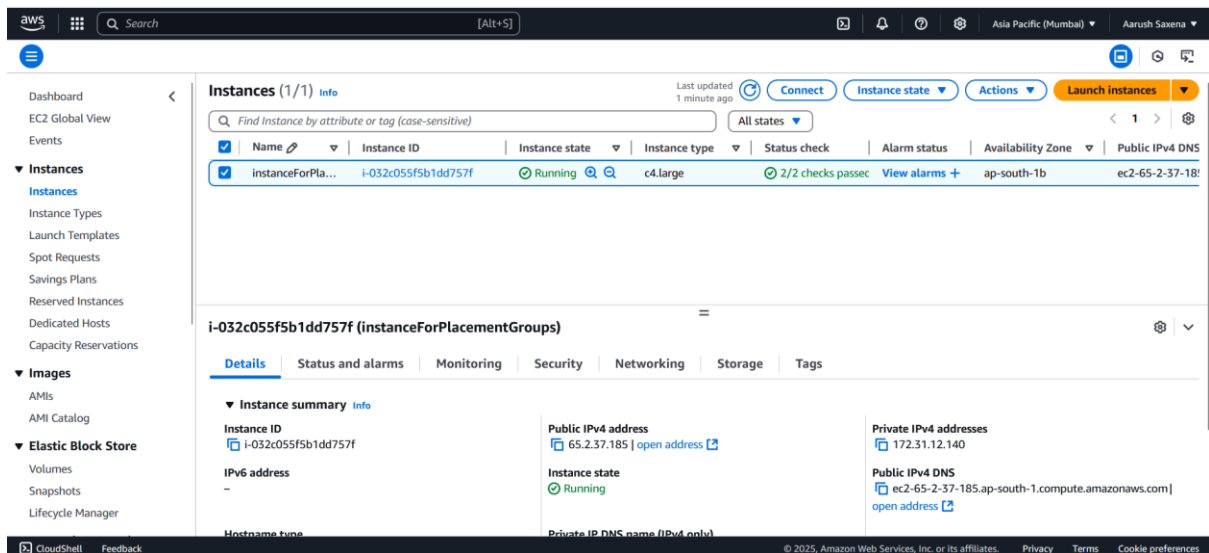
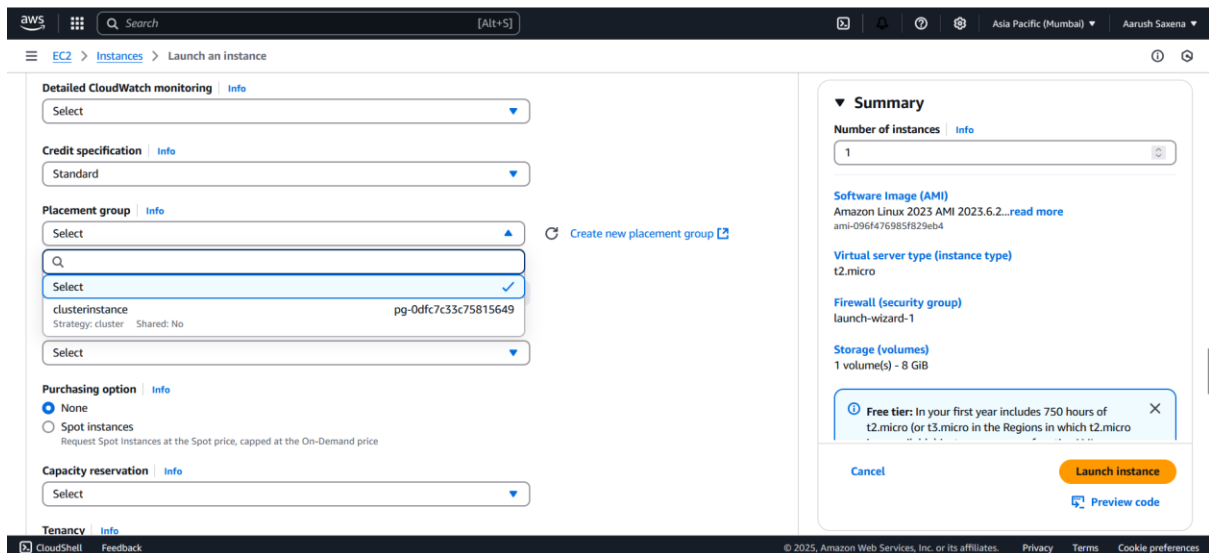
Now you can see your instance has been created now go back to your ec2 page.

Placement groups (1)

[Find Placement Group by attribute or tag](#)

	Group name	Group Id	Strategy	State	Partition
<input type="radio"/>	clusterinstance	pg-0dfc7c33c75815649	cluster	available	-

And click on refresh button and now you can see your placement group click on it and click on Launch instances.



Your placement group has been created and attached to your instance follow same steps and attach other strategies as same.