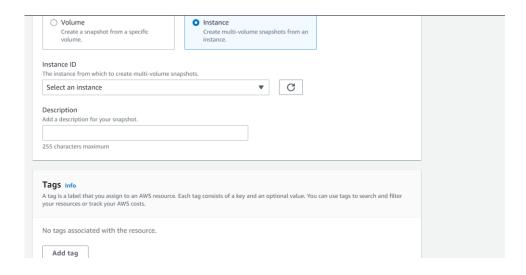
## **Snapshot:**

Using snapshot, we can copy the content of one server to anther (we install nginx in one server using snapshot we can copy the nginx in anther server without install it run in anther server)

You can back up the data on your Amazon EBS volumes to Amazon S3 by taking point-in-time snapshots. Snapshots are *incremental* backups, which means that only the blocks on the device that have changed after your most recent snapshot are saved. This minimizes the time required to create the snapshot and saves on storage costs by not duplicating data.

# When we create snapshot AMI (amazon machine image) also create automatically

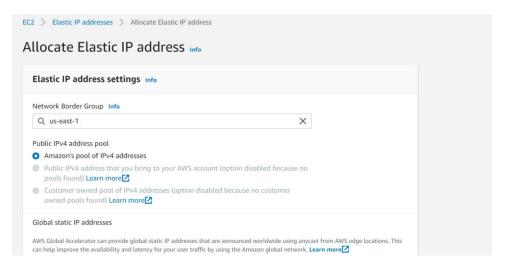
[]EC2 dashboard
[] select snapshot
[] create snapshot
[] instance
[] in instance ID select which instance we want
[] Description whatever
[] in volumes
[] copy tags
🛾 create snapshot

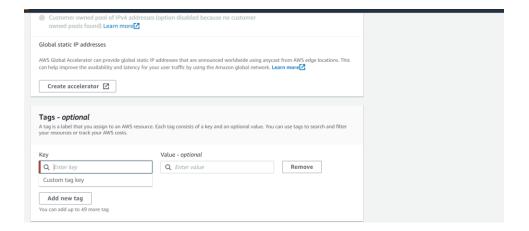


- [] in instance
- [] select instance (which sever want to backup)
- [] right click select image and templates
- [] create image
- [] image names give whatever
- [] description
- [] create image
- [] check the server we get backup of other server content

**Elastic lp:** if we create Elastic ip it helps us when the instance is stop and start it maintains same public ip

- [] in Network and security
- [] select Elastic ips
- [] select allocate Elastic ip address
- [] automatically selected (Amazon 's pool of ipv4)
- [] in tags optional
- [] add new tag
- [] key (give whatever)
- []value (give whatever)
- [] allocate

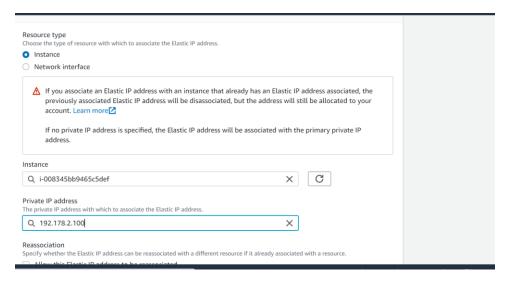




S

- [] select Associate Elastic Ip address
- [] in resource type
- [] automatically selected (instance)
- [] in instance (select which instance want)
- [] in private Ip address (select which private Ip for selected above instance)
- [] associate

(Check the instance it gives same public Ip to turn on and off the instance)



## To release/delete the Elastic ip

- [] Elastic IPs
- [] Actions
- [] click on IP (below of allocated IPv4)
- [] Action
- [] select disassociated

[] then Action release elastic IPs

# **Creating AMI using snapshot:**

- []EC2 dashboard
- [] select snapshot
- [] create snapshot
- [] instance
- [] in instance ID select which instance we want
- [] Description whatever
- [] in volumes
- [] copy tags
- [] create snapshot
- [] in actions
- [] select create image from snapshot
- [] follow below



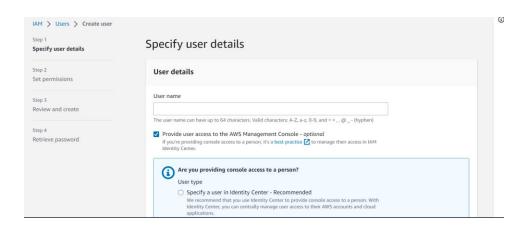
[] check in AMIs image is created

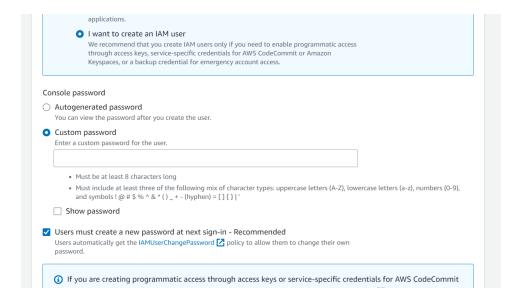
- [] to delete snapshot first we need to delete AMIs right click on image you get option to delete
- [] in snapshot select action in that delete snapshot

# **Identity and Access Management (IAM):**

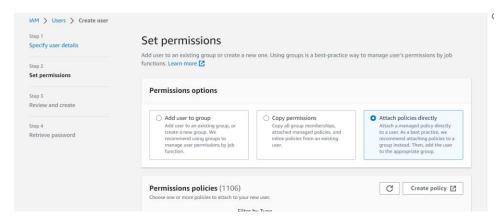
### IAM used to create user and police

- [] IAM (search iam in search bar)
- [] select users
- [] user name
- [] select provide user access to the AWS management console
- [] select I want to create an IAM user
- [] select custom password (give whatever)
- [] Next





## In permissions options:



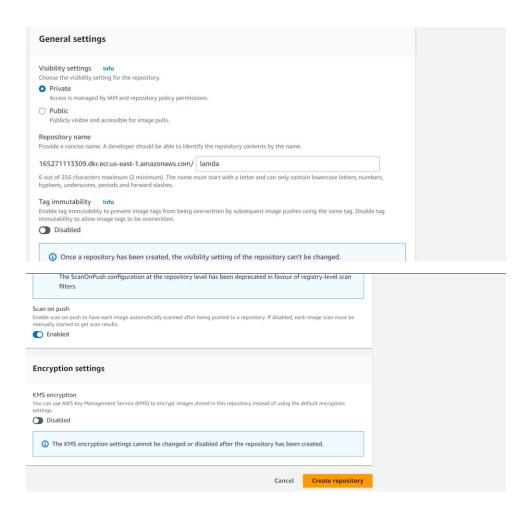
[] based on the requirement we select the options (add user to group for if we have group then we use. 2) copy permissions this is used when we already gave permission to other group, we can copy same permission to other no need to create 3) attach police using this we can select which permission we want)

- [] next
- [] create users
- [] return to users

**ECR (Amazon Elastic container registry):** all AWS developers to **save configurations** and quickly move them into a production environment, thus reducing overall workloads.

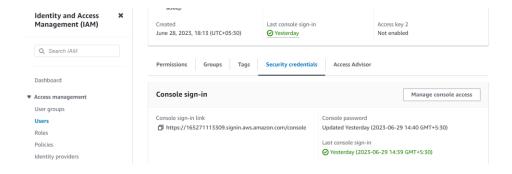
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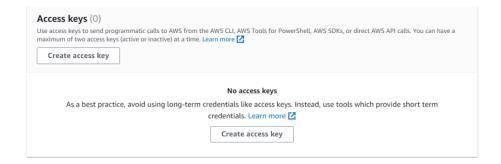
- [] select create repository
- [] repository name (whatever)
- [] in scan on push enabled

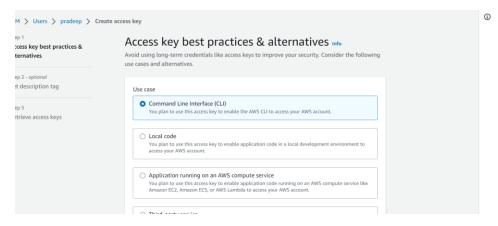


AWS\_ACCESS\_KEY\_ID: & AWS\_SECRET\_ACESS\_KEY:

- [] in iam
- [] select users
- [] select which user want
- [] select security credentials
- [] scroll down
- [] select create access key
- [] select command line interface
- [] select confirm
- [] next







[] type description

[] create access key

"Action": [],

## we need give ECR full access permission for docker push

```
[]Open the AWS Management Console and navigate(search) to the IAM service.

[] Locate and select the IAM user to which you want to attach the policy.

[] In the user scroll down to the "Permissions" section.

[] in add permissions Click on the "Add inline policy" button.

In the policy editor, choose the "JSON" tab to enter the policy code.

Replace the existing policy code with the JSON code provided earlier

{

"Version": "2012-10-17",

"Statement": [

{

"Sid": "Statement1",

"Effect": "Allow",
```

"Resource": []
}
]

### [] next

- [] Provide a name for the policy in the "Name" field.
- [] Click on "Review policy" to verify the policy details.
- []Finally, click on "Create policy" or "Attach policy" to attach the policy to the IAM user or role

