Amazon Machine Image (AMI) - AWS •••

- AMI stands for Amazon Machine Image. It is a template that contains the software configuration
- (operating system, application server, and applications) required to launch an instance.
- Purpose: To provide the operating system and necessary software to a server.
- Provided by: AWS Cloud offers AMIs to all users.
- Types: Free & Paid
- Free AMIs: 17 (as of today)

NOTEBY- HIRALAL SINGH →

AMI Categories

- 1. Quick Start: Provided by AWS
- 2. My AMI: Custom AMIs created by you
- 3. Marketplace: Buy and sell AMIs
- 4. Community: Use AMIs created by others for free

NOTEBY- HIRALAL SINGH

→

Steps to Create and Configure a Server

•••

1. Login to the server using: sudo -i

2. Update server: apt update

3. Install Apache: apt install apache2 -y

4. Clone a GitHub repo: git clone https://github.com/Ironhack-Archive/online-clone-amazon.git

- 5. Move content: mv online-clone-amazon/* /var/www/html

NOTEBY- HIRALAL SINGH

→

Creating AMI

•••

1. Select your EC2 instance (Server-1)

2. Click on Actions > Image and Templates > Create Image

3. Enter Image Name (e.g., Swiggy-Image)

4. Save. It will take a few minutes to be available.

5. Launch an instance using the new AMI

→

Migrating Server Between Regions ●●●

1. Select AMI

2. Actions > Copy AMI

3. Destination: e.g., Mumbai

4. Copy and use the AMI to create new server in another region

NOTEBY- HIRALAL SINGH →

Recovering Deleted AMI

•••

1. Use Recycle Bin feature in AWS
2. Go to Recycle Bin > Create Retention Rule
3. Retention Rule Name: rule01
4. Resource Type: AMI
5. Retention Period: 7 days
6. To recover: Recycle Bin > Resources > Select AMI > Recover

NOTEBY- HIRALAL SINGH →

Learnings and Key Points

• • •

 Earning 1: When using more servers, AWS may block CPUs. Increase quotas as needed.
- Learning 2: If httpd service is stopped, app won't run. Use:
systemctl start httpd
chkconfig httpd on

NOTEBY- HIRALAL SINGH →

Common Interview Questions

•••

Q1: How do you migrate a server/app from one region to another?

A: Create AMI > Copy AMI to other region > Launch instance from copied AMI

Q2: How do you create backup for a server?

A: Use AMI or Snapshot

Q3: How do you recover a deleted AMI?

A: Recover from Recycle Bin using Retention Rule

NOTEBY- HIRALAL SINGH

→

Common Interview Questions

•••

Q4: What is a Golden AMI?

A: An AMI that includes the latest security patches, logging configuration, and software for consistent deployment.

NOTEBY- HIRALAL SINGH

→

Have you give a thumbs up ?