# 03/13/25 - EC2 and Lambda

## EC2

Elasticity: easily (and programmatically) scale instances up or down as needed

You can use one of the standard AMIs or provide your own AMI if pre-config is needed

- AMI: Amazon Machine Image

## EC2 Lifecycle

Launch

Start/Stop

Terminate

Reboot

## Where Can You Store Data?

Instance store: temporary, high-speed storage tied to the instance lifecycle

EFS

EBS

- Unformatted

S3

## Common EC2 Use Cases

Web Hosting: run a website/web server and associated apps

Data Processing

Machine Learning

Disaster Recovery

# Ubuntu VM Commands

```
sudo apt update
sudo apt upgrade


source .bashrc

conda create -n ds4300-env python-3.11
conda activate ds4300-env
```