Computing Resource offered by AWS and managed by AWS.

Serverless computing in AWS

Serverless computing in AWS allows you to Build & run application without managing underlying Infrastructure.

AWS will take care of provisioning, scaling, maintenance, letting you focus on writing ~~Apps~~ code.

AWS manages the servers

AWS will take care of
- Disaster Recovery
- Security
- patch updates
- deployment

PROBLEM

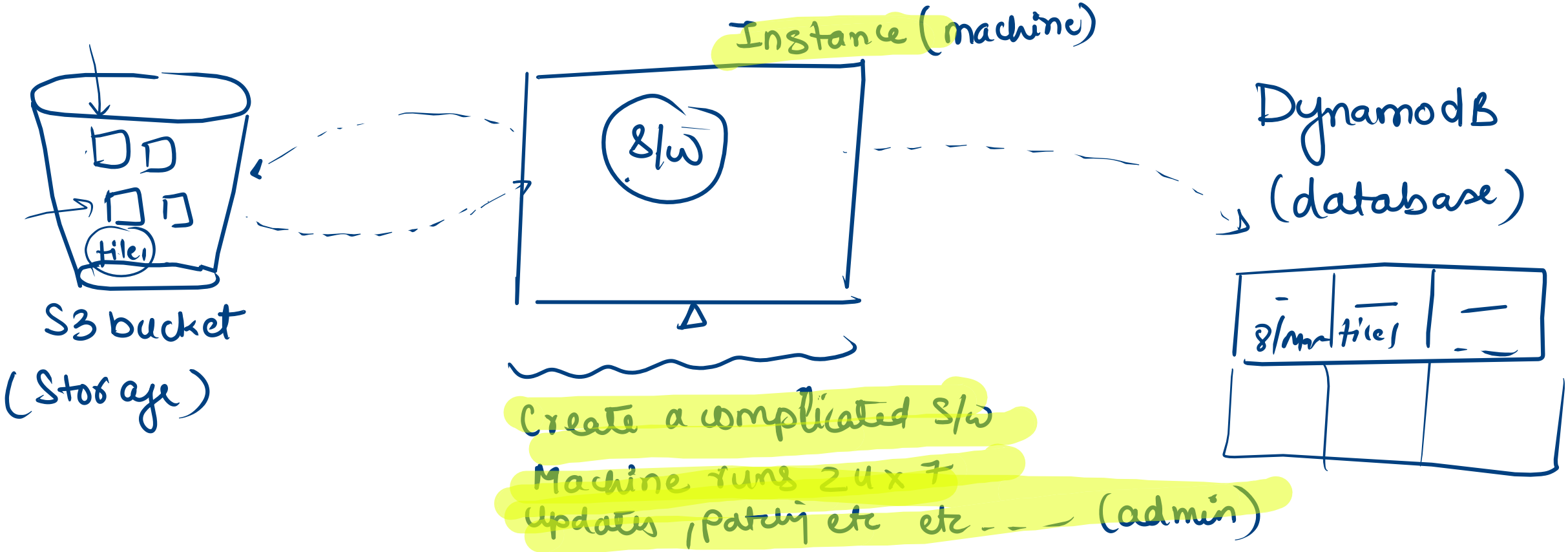
NO control on Infrastructure.

Key AWS Serverless Service

① Lambda function :- Runs the code in Response to events.

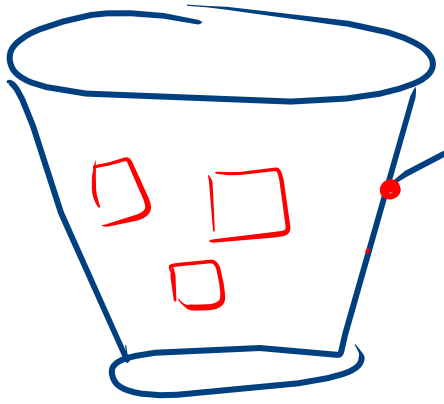
↳ you just need to upload the code in Lambda function on the backend Infra deployment is taken care by AWS.

This Lambda will execute the code in case of some event.



Team, want to track all the activities like which file uploaded, which file Removed, when file uploaded

S3 (storage)



λ function

dyamodb (database)

upload the code (s/w) which pick up meta data from S3 (storage)

Trigger

Whenever a file is uploadd in S3 the λ function get triggered

In λ,

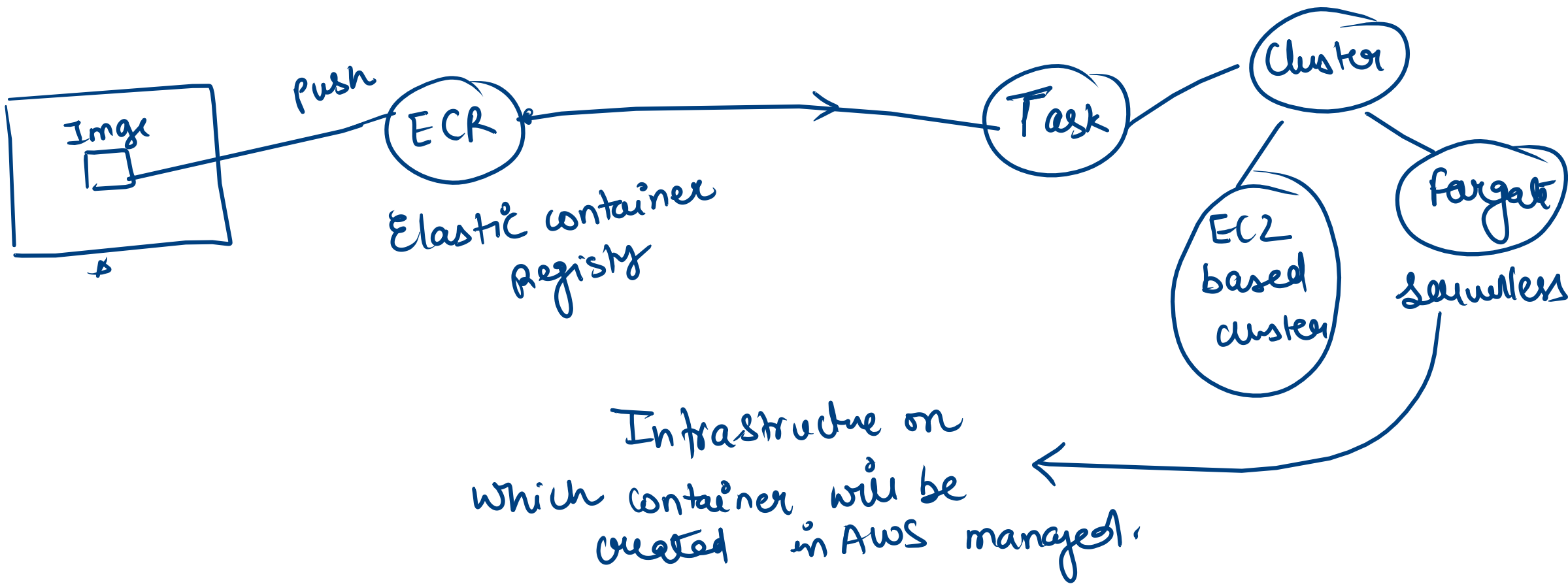
- the servers are managed by Aws
- we need to pay only when the code runs
- patch, update etc (admin task) is Aws managed.

BETTER method

② AWS FARGATE :- Serverless compute engine for containers running on ECS.

(AWS devops training)

→ Elastic container service.



(3) API Gateway :- Create, deploy and manage RESTful & websocket API.

RESTful → HTTP

RESTful → Representational State transfer API (web & app backend)

API → Application programming Interface (set of rules & protocols that allows s/w apps to communicate with each other)

④ DynamodB ÷ Non Relational Database service offered by Aws

- Create the table & we can upload the database
- The Infra creation is taken care by Aws.
- we need to only pay for Read and write operation happening in database

⑤ S3 (simple storage service) ÷ storage for static assests, backup & hosting.