

EC2

Cloud Foundry → Mod 6 → Introduction to Amazon EC2

① EC2 Instances → [Launch instance]

Name [cafewebserver]

Ubuntu → Ubuntu server 24.04 LTS (HVM), SSD vol type

Instance type [t2.micro]

Key pair [rockey]

Network settings → [Edit]

VPC → lab (VPC)

Subnet → Public subnet 1

Auto assign public IP → Enable

Firewall (Security group) → [② Create security group]

Provide security group name → [cafewebsg]

Inbound security group rules → SSH - My IP

Add sg rule → HTTP - Anywhere

Configure Storage

1x [8] GB

Gbps [500]

[Launch instance]

Instances → [cafe webserver] → [Public IP] → [Open]

AWS Details

Download PEM

→ sudo rm -rf labsuser.pem

→ Then download PEM

private instance

Ubuntu 24.04 LTS

Nikwak settings edit

Private is
Durable

Recently graupel bands
(dry)

\$1.63; Download PEM

In Terminal

cd Downloads

Sudo SCP -9 labussum

Kudo Shin -> Saburo. sum ubantu@ public ep

ls
tarun@tarun-pen: ~

sudo apt-get install php apache2 libapache2-mod-

redo get done

cd mompop cafe

sudo cp -rf * /var/www/html/
sudo rm -rf /var/www/html/index.html
sudo systemctl restart apache

Check Browser public eff

cd
sudo ls -l /var/lib/mysql
sudo apt-get update -y
sudo apt-get install mysql-server -y
sudo mysql -u root -p
[root@localhost ~]# mysql -u root -p
sudo nano /etc/mysql/mysql.conf.d/mysqld.cnf
!! bind-address = 0.0.0.0
sudo systemctl restart mysql
sudo mysql -u root -p
> create database coffee;
> create user 'misa'@'%' identified by 'misa@123';
> grant all privileges on coffee.* to 'misa'@'%';
> exit
exit → private instance

mysqladmin --databases cafe-db -u root -p > cafe.sql
 nano cafe.sql
 mysql -h cafe -u admin -p
 > use cafe_db;
 show tables;
 source cafe.sql
 show tables;
 exit
 sudo systemctl stop mariadb.service
 sudo systemctl status mariadb.service work "inactive / dead"
 sudo systemctl restart httpd
 Browser → cafe

② secrets manager
 ab util → retrieve → select → paste (endpoint) → save
 db user → MySQLA
 db password → MySQL1234
 db user → admin
 save

IAM - AWS Identity & Access Management
Cloud Foundation : Mod A → Lab 1 : Introduction to AWS IAM
 ③ IAM
 user groups
 S3 support → Add users → user-1
 EC2 support → Add users → user-2
 EC2 Admin → Add users → user-3
 users
 user-1 (read only access to S3)
 security credentials
 copy console sign in link
 & paste it in incognito window in Browser
 username: user-1
 password: Lab-Password1
 sign in → S3 bucket → only S3 budget access no access for others like IAM
 acc denied.
 ④ S3 : Sample bucket is there we can only view this.

⑤ user-2 (Read only Access to EC2)
 user-2 → security credentials.
 copy console sign in link
 & paste it in incognito window in Browser
 username: user-2
 password: Lab-Password2
 ⑥ EC2 → read only access → can't launch an instance throw an error
 cannot start or stop instance.
 Instance → Instance State
 start instance / Not access
 stop instance

↳ user-3
 user-3 → security credentials
 check region → us-east-1
 N Virginia
 copy console sign in link →
 paste in incognito window → New private window
 username: user-3
 password: Lab-Password3
 ↳ EC2 → you can start & stop instance
 x S3 cannot/fail to create a bucket error
 no view

Instance → LabHost → Instance state
 stop instance ✓
 start instance ✓
 that is right choice for me

Bucket is not available or is not found
 Block all public access
 I acknowledge

Bucket versioning → Enable
 create bucket

Go to created bucket.
 properties → static website hosting → Edit
 enable

Objects → upload → drag drop files
 3 files → cafe.staticWebsite-deployment.pdf
 {css, images, index.html, README.md}

upload

Permissions
 Object ownership → edit
 ACL's enabled → I acknowledge
 save changes

S3 Bucket
 ↳ Cloud Arch' → Mod 4 → challenge lab: creating a static website for the cafe.

↳ S3
 create bucket
 general purpose only
 Bucket name angelcafe.com

keep the bucket name unique.

↳ ACL's disabled
 Uncheck Block all public access
 I acknowledge

Bucket versioning → Enable
 permissions
 ACL → enable

Go to created bucket.
 properties → static website hosting → Edit
 enable

Objects → upload → drag drop files
 3 files → cafe.staticWebsite-deployment.pdf
 {css, images, index.html, README.md}

upload

Permissions
 Object ownership → edit
 ACL's enabled → I acknowledge
 save changes

cd /mnt/myvolume
 sudo touch file.txt
 sudo chown -R ec2-user:ec2-user .
 cat >> file.txt
 This is the ex for ebs volume
 cat file.txt // This is the ex for ebs volume

→ Go to ec2 → volumes
 My volume → Actions ▾ Create snapshot
 Description + Add tag
 key Name value MyvolumeSnapshot
 Create Snapshot ✓ ← refresh

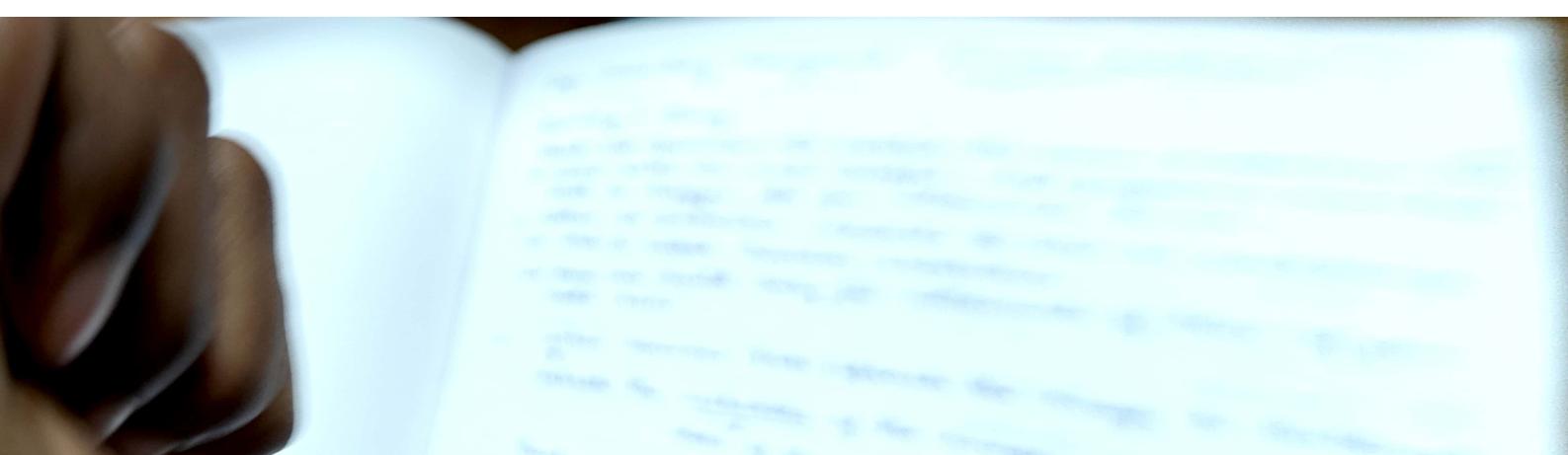
→ Go to Snapshot
 MyvolumeSnapshot → Actions ▾ Create volume from snapshot
 Size (GiB) 1

Add tag
 Key Name value RestoredVolume

Create Volume ✓

→ Go to volumes
 RestoredVolume → Actions ▾ Attach volume
 Instance lab Device name /dev/sde
 Attach volume ✓

→ Go to connect:
 cd
 df -h
 file → /dev/xvde
 sudo mkdir /mnt/resvolume
 sudo mount /dev/xvde /mnt/resvolume
 cd /mnt/resvolume
 ls
 // file.txt exist + found ✓



Cafe Inventory Management: Serverless Architecture (SWA)

running a query

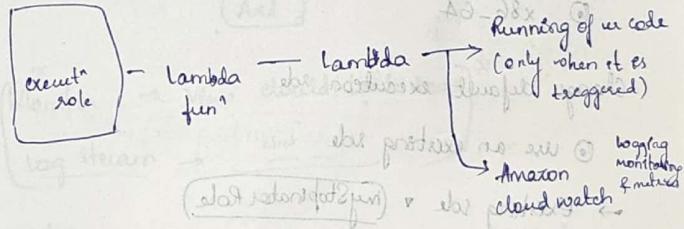
- Need not provision @ maintain the server in order to run code
- come with the code / snippet, that performs a same task that is trigger for few milliseconds to run.
- either on particular schedule @ when an event occurs.
- ⇒ this is called Serverless architecture.
- ⇒ You are build only for milliseconds of time of your code runs.

when someone puts/uploads the image to the s3 bucket

extracts the metadata of the image

data of the image

Event sources



250Mb ← should never exceed

Instance id ← to stop all the servers / ec2 instances.

IAM role ← should be specified: del stop

* Schedule-based Lambda function.

* Event-based Lambda function no step two

* privacy → "Lambda" → no further specific permissions:

effect, action, resources

AWS Lambda is a serverless function service.
Cloud Foundation: Mod 6 → Activity: AWS Lambda

Event Bridge → Lambda function → EC2 instance
EventBridge triggers Lambda function → EC2 instance
Not many events trigger EC2 instances with auto-stopped
one at a time when not triggered it stops

⑨ EC2
instances are released below it with
way instances → Instance ID of previous block was stop
when stop

⑩ Lambda
Create a function (aws lambda) creates new function
Author from scratch with skeleton w/ start
Fun name mylambda
Runtime Python 3.11

⑪ x86-64
Change default execution role → new role
use an existing role
Existing role • myStopInstanceRole

Create function (aws lambda) → Lambda function
functions can interact with the state of the environment
Boto lab instructions at lambda → use MFA
Import boto3 ← copy code
Cut/paste in lambda-function.py
change region = 'us-east-1' ← property of
instance = "port 20" → changes need to be done
Deployment

EC2 instance → Instance 1 & Instance 2 → copy
region = 'us-east-1'
instances = ['instance 2']

my lambda
layers

After deploy →
+ Add trigger

Trigger config → Event Bridge (CloudWatch Events)

⑫ Create a new rule

Rule name myrule

Schedule expression

rate(1 minute)

Add

Monitor → View CloudWatch logs
Log stream → click -> add log

After Add → Go to EC2 instance → check instance had stopped

Go to Lambda → Monitor → View CloudWatch logs

log group: log stream

☰ ☰

Elastic Load Balancing

1. Database: multiple no. of web servers

A source that takes the request from client & distributes the load balance will have the function of monitoring the health of the servers & divert the traffic

- * One website access one or more availability zones

Elastic load Balancer →

(Map)

Map

Load Balancer

Mod 10 ; Lab 6 Scale & Load Balance your Architecture

① EC2

instance
webserver 1 → copy public IP & paste in Browser
http://pub_ip

instance

- Actions
- Image & templates
- Create image

name → myapp

desc → my app

* Key - Name Value - my app name

Load Balancer

Create a load balancer

App Load Bal

Create

lb name mydb

① Internet-facing

② IPv4

VPC Lab (VPC)

Availability zones & subnets:

us-east-1a → public subnet 1

us-east-1b → public subnet 2

Security groups web security group default

Listeners & routing

① Forward to target groups

create target group →
(myec2 target group) HTTP

create

public IP A.S.A.

Basic config

② Instances

tg name myec2targetgroup

Next

create target group

create load balancer

→ launch template

Create

name myapptemplate

ami blank

provide guidance to help me set up

My AMI

① owned by me

myapp

instance type t2.micro

key pair name Vockey

Network settings Don't include in launch template

Web Security group

Advanced IAM instance profile

EC2 Instance profile Dont include in launch template

Detailed Cloud Watch monitoring

Enable

Create launch template

Launch template

Actions → create auto scaling group

Addtional settings
① Choose instance needs for publications → DLAMI & basic monitoring
② Enable group metrics collection without CloudWatch Metrics

- ① Name myarg automatically selected
Next Launch template

- ② Network Lab (VPC) availability zones & subnets
Next Next

- private subnet 1
private subnet 2
 my-autoscaling

Next

- ③ Load balancing

- ① Attach to an existing load balancer

choose from your load balancers showing

existing load balancer target groups

[my ecs target group | HTTP]

Health checks.

Additional health check

CloudWatch Metrics Health Check
Next

- Desired capacity

Scaling

max' target tracking MAU limit
min target tracking MAU limit
cooldown target tracking MAU limit

Automatic scaling → ① Target tracking scaling policy
target tracking MAU limit
metric type Average CPU utilization
target value 60 seconds

+ Add tag
Key Name mywebserver
Value mywebserver
Next Next

Create Auto scaling group

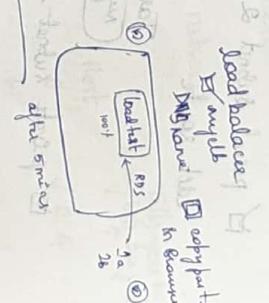
① EC2 instances mywebserver
Next Next

Cloud Watch Alarms

In alarm → malwares

after this
EC2 instance one more instance will
be running

mywebserver



Cloud \rightarrow NFT 10 \rightarrow challenge (left): creating a scalable & highly available solution
each subnet has 8 hosts \rightarrow 8 IP addresses \rightarrow 8 ports \rightarrow 8 vps \rightarrow 8 route tables

vpc \rightarrow route table

NAT gateway

create NAT gateway

my nat

public subnet 2

key [Name] value [mynat]

port 8080 + 8081

private subnet 4

key [Name] value [mynat]

port 8080 + 8081

✓ private subnet 2

244 \rightarrow No reward

* Identify the network and its hosts \rightarrow to define an IP address of an network

• 24 bits are faked in 32

Network identifier (hosting part)

192.0.0.2

value from 0 to 255

flexible

Tells you how many hosts you have

Host

124

fixed

IP address

192.0.0.2

Network addresses \rightarrow 192.0.0.0

first IP address is allocated to router

router: map from 1 network to another network

switch: connect devices within a network

hub: pathway: \rightarrow within a system to reach internet

In internet tunnel:

route -n

11 Rethinker Gateway \rightarrow Tunnel 192.168.1.1 \rightarrow 172.18.181.1 \rightarrow allocated to router

Network bogus \rightarrow 123 \rightarrow port 8 \rightarrow 13.14.15.16

unique address \rightarrow identify the system in an system

IP address: uniquely address identify the system in an system

IPV4: 32bit, A decimal represent 8 bit binary values

it can vary from 0 to 255

layer of OSI (datasink layer)

switch works in

works for MAC address

works from one network to another network

uses data from one network

uses HARP protocol

function: works in 3 layers of OSI model

looks for IP address

MAC address & IP address

well subscriber source & destination address.

well subscriber based IP

AWS → always kept reserved

Network address → Instant communication

10.0.0.0 → Domain Name

10.0.0.1 → Future care

10.0.0.2 → Network broadcast address

10.0.0.3 → Network broadcast address

10.0.0.255 → Network broadcast address

Route table → set of rules ~~for w~~ for w has source & destination of address

- * acts at the subnet level

VPC Networking

resource → ec2, lambda, elastic load balancer.

Internet gateway

allows resource to communicate to outside world

Managed highly scalable resource

All resource will have private IP address

Go to NAT > converting private IP address to public IP address

& vice versa

Any traffic of 0.0.0.0/0 → should go through NAT

NAT (Network address translation)

acts as target

converts private to public & vice versa in public subnet

NAT gateway

use a NAT gateway in any one public subnets

will block anyone trying to access the private instance

Only allows the resources to access to communicate to the private instance.

NAT instance is an unmanaged service & doesn't provide bandwidth or throughput.

Route table ^{with target gateway: NAT gateway} the public & private subnets.

subnets are for visibility purpose, requirement of client isolation in VPC

VPC sharing

multiple accounts, kinda of different business account, AWS organization

is what happens are

VPC sharing
One account will create VPC & share subnets of same organization
multiple accounts A & B & launch instances (ec2, lambda, etc)
owner is the one who owns it willing to share.
participants can manage, configure,
to efficiently use the subnet.

pass-through

VPC peering: can't speak to each other through private

2 VPC in same region can speak through Internet.

but can speak through same VPC instance

To speak to each other through same VPC

It is a Network connection b/w two VPCs that allows the VPC to communicate each other through

same & update the route table & TD is kept.

To communication to each other as if they are in same Network without knowing the AWS Networking.

only possible through peering.

→ only 2 VPC in same region, different regions.

→ passing b/w VPC's of 2 accounts.

both accounts can belong to any organization.

No two VPC should have same IP ^{and} range

No transitive peering. A → B → C X.

A → B ✓ directly & connect

AWS site-to-site VPN

VPN connections → secure.

customer device → captures the VPN

→ Route table → through virtual private gateway.

secure the services to private tunnel

encrypted format data.

AWS Direct Connect

- AWS Direct Connect
 - private dedicated fiber → data center to AWS service location
 - encrypted connection to AWS service location
 - VPC endpoint: aws manages connection between VPC and AWS services
 - VPC connection to connect AWS resources

Newark access control tests (Newark ACT) since 1st saved

- * Grants are NACI attached to domain.
 - * only one NACI attaches the traffic of specified protocol.
 - * NACI will restrict the traffic of specified protocol.
 - * NACI will be evaluated 1st.
 - * lower the no. of rule will be evaluated last.
 - * higher the no. of rule can be mentioned.
 - * Allow/Deny of two can be mentioned.
 - * Allow/Deny of two can be mentioned.
 - * NACI are stateless. \rightarrow it doesn't remember.
 - * NACI are stateful which is allowed & not allowed.

Scanned with CamScanner

Amazon S3 Intelligent

- Monitoring & intelligently moves to std @ Std-In

Amazon S3 Glacier → archive & preservation, retention.

- to store the data for very long period of time.
- move the data quickly
- data which are not frequently used
- can't upload directly

Lifecycle policy:

- After 30 days → move to std, move to Gla → automatically deleted after 90 months
- Data in or transition of data.

→ long backups, long term storage, disaster recovery file.

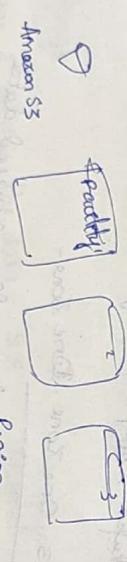
Amazon S3 Pack

→ backup, restore, migration, data preservation

Amazon S3 Bucket

- buckets → name globally unique.
- DNS compliant.

• Data is region specific stored in the region. long term.



Region

S3 → be those areas, app running of any websites.
content delivery, big data analysis → lake house pipeline

Storage buckets, use as one of the fastest storage.

pricing → GB per month.
Paid on different request, has different pricing.

data transfer in - is free
data transfer out - unpaid - get download.

If data goes out of region → same region → not paid.

different have
object storage
amount of data

block storage
amount of data

large latency, performance
but latency, performance
& throughput is given

Amazon Elastic File System (EFS)

- A storage that is accessible for now & sap

After job ends? & suddenly
spare space? then
for temporary & even
operations - snapshots

C

spare space

CFA

Cloud Arch: Mod 11: Guided Lab: Automating Infrastructure deployment with AWS CloudFormation

IAC - lets you to define your infrastructure & app
After provision, configurations after launching is config management
↳ updating, installing

- * Terraform - provision, multi-cloud
Ansible, puppet, chef - config management, open source tool
- * OpsWork - provides chef & puppet version
- * mandatory part on JSON & YAML files are resources, stack, test/pool
- * users can give input during runtime - reconfigurable of resources
- * output VPC id, subnet id, bucket id, take one output & provide as input.
- * deploy in layers with database, network

parameter → makes reusable allowing user to put input of their choice

mapping: ami id is different for different regions 32bit os 64bit os

↳ maps the key to name value pair

System manager to map key - n -
↳ ssm

conditions → define when a resource is created @ property

↳ true or false condition defined

↳ true or false condition between two resources

① EC2
 Instances → web server → storage
 Security group → id → add inbound rule
 Snapshots

Cloud formation → Stack
 Cloud formation → lab application → delete

In EC2 → snapshots → snapshot → 100 GB

- ④ CloudFormation
- ⑤ AWS Lambda
- ⑥ S3 Bucket
- ⑦ Code Commit
- ⑧ Code Pipeline

CloudFormation

open in Cloud9

touch create-bucket.yaml

S3-bucket-create - updated.yaml → change BucketName

copy path save

aws s3

aws cloudformation validate - template - template-body

aws cloudformation validate - template - file://create-bucket.yaml

aws configure get region

aws cloudformation create - stack - stack-name mybucket

-template - body file://create-bucket.yaml

StackId → enabled static website properties.

S3 - Bucket create - Stack - create - refer - file

BucketName → mybucket → General

BucketName → mybucket → StaticWebsiteConfiguration

code commit

repository

```
git commit repository -p branch -m message
```

clone URL
clone HTTPS

①

end

cd ..

pwd

get clone

cd clonepath

get status

cd templates/

aws cloudformation validate-template

aws lambda update-function

git add filename

git commit -m "updated" filename

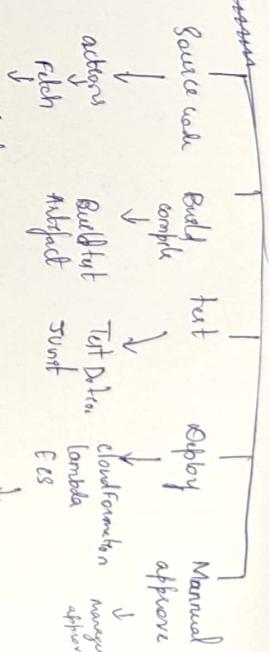
git push

CF → stacks → update-cafe-app → outputs → stack → CF → browser

aws cloudformation

code pipeline (CD pipeline)

process



save artifact

get add cafe-app.yaml

get commit -m "updated" cafe-app.yaml

get push

CF → stacks → update-cafe-app → outputs → stack → CF → browser

aws cloudformation

• Static var

papergrid
Date: / /

cd ..

cd 3-containereized-microservices

cd users

copy 3 & 4 from ECR mb-users

view push commands

cd ..

cd threads

copy 2,3 & 4 from ECR mb-threads

view push commands

cd ..

cd posts

copy 2,3 & 4 from ECR mb-posts

view push commands

Go to EC2 → Load balancer

copy DNS

DNS/api/users

DNS/api/users/2

DNS/api/threads

1 api | posts | user-thread | 2

copied back

run

user | user | user in to stack

123 456

copy dns

copy - 14 January 1 user - d14

stack

Static website hosting

1. Download zip file
extract them

15

papergrid

Date: / /

Cloud Architecture

Module 11

Guided lab: Automating Infrastructure with AWS Configuration

lab application

update stack

make a direct update

Replace existing template

lab-application.yaml

Cloud formation

Create stack

next

with new resources

next

submit

choose an existing template

EC2

upload a template file

Security group

choose file

you can see two inbound rules

download lab-network.yaml

next

snapshots

stack name : lab-network

one snapshots are present

next

tags

Name:
appvalue:
Cafe

Cloud formation → stack → lab application

click on delete

submit

Snapshot is created because of deletion
policy

Create stack

with new resources

Cloud formation → Infrastructure composer

choose an existing template

Menu → template file

choose file

choose any lab-network or lab application

download lab-application.yaml

create template.

from aws page

next

name: lab-application

next

Tag

Name:
appvalue:
cafe

submit

11

Cloud Foundation

US - east - 1b

Module 10

Public subnet 2

Lab 6

Scale and load balance your Application

Security group

EC2

Uncheck the default network

Instances

Add web security group (HSTS)

Web service 1

Actions

Listeners and scaling

Image and template

Routing actions

Create image

Forward to target groups

Image name: myimage

Create target group

Image desc: EBS AMI

Add tag:

Specify group details

Key: Name

Instances

Value: New AMI

Target group name: mytargetgroup

Create image

EC2

Create target group

Load balancer

Create Load Balancer

Target group

Application Load Balancer

mytargetgroup

Create

Name: New LB

Create Load Balancer

IPV4

EC2

Auto Scaling group

Network mapping

Instances

Launch templates

VPC

Create Launch templates

Lab NPC

Name: newtemplate

Availability zone

Auto Scaling

US - east - 1a

Public subnet 1

child scaling group guidance
 Provide guidance to define one set up

name: NEW ASG

next

specification and OS images

My AMI

own by me

Amazon Machine image (AMI)

my image

Network

VPC

Lab VPC

availability zones and subnet

us-east-1a (private secondary)

us-east-1b (private secondary)

next

instance type

t2.micro

key pair

Vockey

Networking setting

select existing group

web security group sg

attach to an existing load balancer

- choose from your load balancer

my target group | HTTP

Health check

✓ Turn on elastic load balancing

health checks

next

Advanced details

Desired capacity

2

Detailed Cloud Watch monitoring

Min desired

2

Enable

Max desired

Create launch template

4

Select the launch template

Auto scaling

Action

Target tracking scaling policy

Create auto scaling group

Instance warmup

60 seconds

additional settings

enable group metrics

next

next

add tag

Value	Name
AG	Name

next

Create Auto Scaling group

EC2

instance

API

Cloud watch

alarm

total: 6

14

Cloud architecture

Module 14

(optional) Guided lab:

Breaking Monolithic Node.js application
in Microservices

go back to npm start wala terminal

ctrl + c

cd ..

ed 2-containereized-monolithic.js

ls

All details

docker build -t mb-repo .

copy RAB IDE url

copy LAB IDE password

region us-west-1

Go to ECR

create repository

name: mb-repo

In terminal

Create

pwd

Select mb-repo

Copy curl command.

view push commands

Copy it and paste it in terminal

cd 1-no-containe

1. authentication

2. build

3. tag

4. push

npm start

Go to ECR and refresh

new terminal

curl http://localhost:3000

Go to ECS

curl http://localhost:3000/api/users

clusters

curl http://localhost:3000/api/users/1

Create cluster

curl http://localhost:3000/api/thread

Name: mb-cluster

curl http://localhost:3000/api/posts/^{in-thread}/1

Fargate and self managed service

curl http://localhost:3000/api/posts/by-user/1

EC2 instance type

t2 medium

Allocated capacity

Minimum 2

Maximum 6

Deploy

Create service

name: mb-taskdefinition - resources

Network settings

IDE VPC

Environment

Launch type

EC2

use existing security group

ECSSG

Networking

IDE/VPC

Create

use existing security group

uncheck default

task definition

Create new task definition

mb-taskdefinition

ECSSG

Load Balancing

Check use load balancing

Create a new load balancer

name: mb-lb

uncheck aws Fargate

check armazen EC2 instance

CPU

Memory

.5 vCPU

1 GiB

Target group

Create new target group

name: mb-target

Create

Container - 1

Go to EC2 services | Step 1 [2/10]

name

Load balance

mb-container

Copy DNS

Image URI

paste it in browser | api | user

Copy from Econtainer registry URI

Container port 3000

ECR ECR

CPU Memory hard limit Memory soft
0.5 1 1

Create repo

Mb-users / Mb-threads / Mb-polls

Create

Create

cd ..

cd 3-containervized-microservices

cd users

copy 3 & 4 from ECR mb-jobs

view push commands.

cd ..

cd threads

copy 3 & 4 from ECR mb-threads

view push commands.

cd ..

cd posts

copy 2,3 & 4 from ECR mb-posts

view push commands.

Go to EC2 → Load balancer

copy DNS

DNS | api | users

DNS | api | users | 2

DNS | api | threads

| api | posts | user-thread | 2

Cloud Architecture

Module 11

Guided lab: Automating Infrastructure with AWS Configuration

Lab application

Update stack

Make a direct update

Replace existing template

Lab - application 2 .yaml

Cloud formation

Create stack

with new resources

Next

Next

Submit

choose an existing template

upload a template file

EC2

choose file

Security group

download lab-network.yaml

you can see two inbound rules

from www page

Next

Snapshots

Stack name : Lab - network

no snapshots are present

Next

Tags

Name: app value: cafe

Cloud formation → stack → lab application

click on delete

Submit

Snapshot is created because of deletion policy

Create stack

with new resources

Cloud formation → Infrastructure composer

choose an existing template

Menu → template file

choose file

choose any lab - network or lab application

download lab-application.yaml

Create template.

from www page

Next

Name: lab-application

Next

Tag

Name: app value: cafe

Submit

Cloud architecture

Microbiology 11

Automating Infrastructure Deployment

After class we have some time

buscando en el libro de la am

particulars & state of ownership well

stebbe no stebbe

and to be caused before he becomes

四百九

PM → increased + rapidly well

Kata doig

W. Holzmann & Umwelt
Fak. für Biowissenschaften

Eleutherodactylus carrihei

and so I'm not able to do much
but go around and talk to people

Iron, manganosite, da

state-of-the-art

Good 30th anniversary

osuocuqo - 100

11

100

9

Implementing serverless architecture on AWS

Cloud architecture

Event name: inventory load

Module 14

Event types

Guided lab: Implementing serverless
architecture on AWS.

object creation

 all object create events

Lambda

Destination

Create a function

Lambda function

Function name: loadInventoryLambda

Lambda function

Runtime: Python 3.9

loadInventoryLambda

Change default execution role

Save changes

@ use an existing role

Existing role

lambda -> Load -> Inventory-Role

go download CSV file

Create function

name: inventory.csv

paste contents

Code

Code source

uploaded it to the S3 bucket

copy code from 10. source code

plus add .py to end

paste it

Lambda

deploy it

loadInventoryLambda

monitor

inform7 stars

S3

view cloud watch logs

Create bucket

name: myinventory

log stream

create bucket

click on it

in step 8

myInventory

DynamoDB

Properties

Explore items in the table

Event notification

Create inventory notification

Inventory log -> integrate square

by item and item items are displayed

Guided lab

AWS details

Dashboard link

Endpoint

RSPutinaylik.msi.mfe9005@.mru

Start lab

Create function

Function name: Stock notification

Runtime: Python 3.9

Create subscription

Go to your mail

Confirm subscription

use existing role

Lambda - check - Stock - Role

Create function

Code

Code source

copy code from 49 source
code

paste it

deploy it

SNS

Topics

Create topics @standalone:
name: No Stock

display name

Create topic

Go to Lambda (Stock notification role)

Trigger

Dynamo DB

Amazon Kinesis

Dynamo table

Inventory

Add.

cal.csv to

name cal.csv

S3 bucket

upload cal.csv

get an email.

Create subscription

Details

Protocol

Email