

AWS CLOUD OVERVIEW

Author: Nho Luong
Skill: DevOps Engineer Lead



The screenshot shows the Alpine Testing Solutions dashboard with the AWS logo. On the left, there is a sidebar with links for HOME, PROFILE, EXAM REGISTRATION, EXAM HISTORY, CERTIFICATIONS, BENEFITS, DIGITAL BADGES, and SUPPORT AND FAQS. The CERTIFICATIONS section is currently selected, showing a list of active certifications:

- PROFESSIONAL**: **AWS Certified Solutions Architect - Professional** (SAP) - Active, issued 2024-06-21, expires 2027-06-21. [VIEW MORE >](#)
- SPECIALTY**: **AWS Certified Security - Specialty** (SCS) - Active, issued 2024-06-19, expires 2027-06-19. [VIEW MORE >](#)
- PROFESSIONAL**: **AWS Certified DevOps Engineer - Professional** (DOP) - Active, issued 2024-06-17, expires 2027-06-17. [VIEW MORE >](#)
- ASSOCIATE**: **AWS Certified Solutions Architect - Associate** (SAA) - Active, issued 2024-06-15, expires 2027-06-21. [VIEW MORE >](#)
- FOUNDATIONAL**: **AWS Certified Cloud Practitioner** (CLF) - Active, issued 2024-05-27, expires 2027-06-21. [VIEW MORE >](#)



AGENDA

Introduction

Ec2 Machine

Storage on AWS

Scalable system

Deployment

Security

Price optimization

EC2

Amazon Elastic Compute Cloud (EC2) is a web service that provides resizable compute capacity in the cloud. In simpler terms, EC2 allows you to rent virtual servers (called instances) from Amazon's cloud infrastructure, which you can use to run your applications or services. You can choose the instance type based on your needs, whether it's for general-purpose computing, memory-intensive tasks, or high-performance computing.

EC2

Amazon Elastic Compute Cloud (EC2) is a web service that provides resizable compute capacity in the cloud. In simpler terms, EC2 allows you to rent virtual servers (called instances) from Amazon's cloud infrastructure, which you can use to run your applications or services. You can choose the instance type based on your needs, whether it's for general-purpose computing, memory-intensive tasks, or high-performance computing.

HOW TO CREATE

EC2 Machine

Ec2 Dashboard

New EC2 Experience
Tell us what you think X

EC2 Dashboard

- EC2 Global View
- Events
- Tags
- Limits
- Instances**
 - Instances
 - Instance Types
 - Launch Templates
 - Spot Requests
 - Savings Plans
 - Reserved Instances
 - Dedicated Hosts
 - Capacity Reservations
- Images**
 - AMIs
 - AMI Catalog
- Elastic Block Store**

Resources

You are using the following Amazon EC2 resources in the Asia Pacific (Mumbai) Region:

Instances (running)	0	Auto Scaling Groups	0	Dedicated Hosts	0
Elastic IPs	0	Instances	0	Key pairs	1
Load balancers	0	Placement groups	0	Security groups	5
Snapshots	0	Volumes	0		

Launch instance

To get started, launch an Amazon EC2 instance, which is a virtual server in the cloud.

Launch instance ▾

Migrate a server

Note: Your instances will launch in the Asia Pacific (Mumbai) Region

EC2 Global view EC ⚙️

Account attributes

Supported platforms ⓘ

- VPC

Default VPC ⓘ
vpc-09a4bb68962f0b7b9

Settings

EBS encryption

Zones

EC2 Serial Console

Default credit specification

Console experiments

Explore AWS

Save up to 90% on EC2 with Spot Instances

Optimize price-performance by combining EC2 purchase options in a single EC2 ASG. [Learn more](#) ⓘ

10 Things You Can Do Today to Reduce AWS Costs

Explore how to effectively manage your AWS costs

Naming of Instance

EC2 > Instances > Launch an instance

Launch an instance Info

Amazon EC2 allows you to create virtual machines, or instances, that run on the AWS Cloud. Quickly get started by following the simple steps below.

Name and tags Info

Name

Testing

Add additional tags

OS Types

▼ Application and OS Images (Amazon Machine Image) [Info](#)

An AMI is a template that contains the software configuration (operating system, application server, and applications) required to launch your instance. Search or Browse for AMIs if you don't see what you are looking for below

Search our full catalog including 1000s of application and OS images

Recents Quick Start

Amazon Linux macOS Ubuntu Windows Red Hat S >

Browse more AMIs Including AMIs from AWS, Marketplace and the Community

Amazon Machine Image (AMI)

Amazon Linux 2023 AMI Free tier eligible

ami-07d3a50bd29811cd1 (64-bit (x86), uefi-preferred) / ami-04daff085607f4847 (64-bit (Arm), uefi)
Virtualization: hvm ENA enabled: true Root device type: ebs

Description

Amazon Linux 2023 AMI 2023.0.20230329.0 x86_64 HVM kernel-6.1

Architecture Boot mode AMI ID

64-bit (x86) uefi-preferred ami-07d3a50bd29811cd1

▼ Summary

Number of instances [Info](#)

1

Software Image (AMI)

Amazon Linux 2023 AMI 2023.0.2...[read more](#)
ami-07d3a50bd29811cd1

Virtual server type (instance type)

t2.micro

Firewall (security group)

New security group

Storage (volumes)

1 volume(s) - 8 GiB

Free tier: In your first year includes 750 hours of t2.micro (or t3.micro in the Regions in which t2.micro is available)

Cancel **Launch instance** [Review commands](#)

OS Types

▼ Application and OS Images (Amazon Machine Image) Info

An AMI is a template that contains the software configuration (operating system, application server, and applications) required to launch your instance. Search or Browse for AMIs if you don't see what you are looking for below

X

AMI from catalog Recents Quick Start

Amazon Machine Image (AMI)

ubuntu/images/hvm-ssd/ubuntu-jammy-
22.04-amd64-server-20230325
ami-02eb7a4783e7e9317

Free tier eligible
Verified provider

Catalog Published Architecture Virtualization Root device ENAs Enabled

Quickstart AMIs 2023-03-25T06:25:15.00Z x86_64 hvm type ebs Yes

Browse more AMIs Including AMIs from AWS, Marketplace and the Community

Instance Types

The screenshot shows the AWS Launch Wizard interface for launching a new Amazon EC2 instance. The left panel displays configuration steps, and the right panel shows a summary of the selected options.

Instance type: t2.micro
Family: t2 1 vCPU 1 GiB Memory Current generation: true
On-Demand Linux pricing: 0.0124 USD per Hour
On-Demand Windows pricing: 0.017 USD per Hour
On-Demand RHEL pricing: 0.0724 USD per Hour
On-Demand SUSE pricing: 0.0124 USD per Hour

Key pair (login): Testing1

Summary:

- Number of instances: 1
- Software Image (AMI): Ubuntu Server 22.04 LTS (HVM),...[read more](#)
ami-02eb7a4783e7e9317
- Virtual server type (instance type): t2.micro
- Firewall (security group): New security group
- Storage (volumes): 1 volume(s) - 8 GiB

Free tier: In your first year includes 750 hours of t2.micro (or t3.micro in the regions in which t2.micro is available)

Buttons: Cancel, Launch instance

Network Setting for traffic

The screenshot shows the AWS Launch Wizard interface for setting up a new Amazon EC2 instance. It is divided into two main sections: 'Network settings' on the left and 'Summary' on the right.

Network settings:

- Network**: Info, vpc-09a4bb68962f0b7b9
- Subnet**: Info, No preference (Default subnet in any availability zone)
- Auto-assign public IP**: Info, Enable
- Firewall (security groups)**: Info, A security group is a set of firewall rules that control the traffic for your instance. Add rules to allow specific traffic to reach your instance.
 - Create security group
 - Select existing security group
- We'll create a new security group called 'launch-wizard-5' with the following rules:
 - Allow SSH traffic from Anywhere 0.0.0.0/0
 - Helps you connect to your instance
 - Allow HTTPS traffic from the internet
 - To set up an endpoint, for example when creating a web server
 - Allow HTTP traffic from the internet
 - To set up an endpoint, for example when creating a web server
- A warning message: **⚠️ Rules with source of 0.0.0.0/0 allow all IP addresses to access your instance. We recommend setting security group rules to allow access from known IP addresses only.**

Edit

Summary:

- Number of instances**: Info, 1
- Software Image (AMI)**: Ubuntu Server 22.04 LTS (HVM),...[read more](#), ami-02eb7a4783e7e9317
- Virtual server type (instance type)**: t2.micro
- Firewall (security group)**: New security group
- Storage (volumes)**: 1 volume(s) - 8 GiB

Free tier: In your first year includes 750 hours of t2.micro (or t3.micro in the Regions in which t2 micro is available)

Cancel **Launch instance** **Review commands**

Storage to install OS on EC2

The screenshot shows the AWS EC2 instance creation process. On the left, under 'Configure storage', a root volume of 8 GiB gp2 is selected. A note indicates that free-tier eligible customers can get up to 30 GB of EBS General Purpose (SSD) or Magnetic storage. On the right, the 'Summary' section shows 1 instance, the AMI as Ubuntu Server 22.04 LTS (HVM), the instance type as t2.micro, and a new security group. A note about free tier includes 750 hours of t2.micro usage.

Allow HTTP traffic from the internet
To set up an endpoint, for example when creating a web server

Rules with source of 0.0.0.0/0 allow all IP addresses to access your instance. We recommend setting security group rules to allow access from known IP addresses only. X

Configure storage Info

Advanced

1x 8 GiB gp2 ▼ Root volume (Not encrypted)

Info Free tier eligible customers can get up to 30 GB of EBS General Purpose (SSD) or Magnetic storage X

Add new volume

The selected AMI contains more instance store volumes than the instance allows. Only the first 0 instance store volumes from the AMI will be accessible from the instance

0 x File systems Edit

Summary

Number of instances Info
1

Software Image (AMI)
Ubuntu Server 22.04 LTS (HVM),...read more
ami-02eb7a4783e7e9317

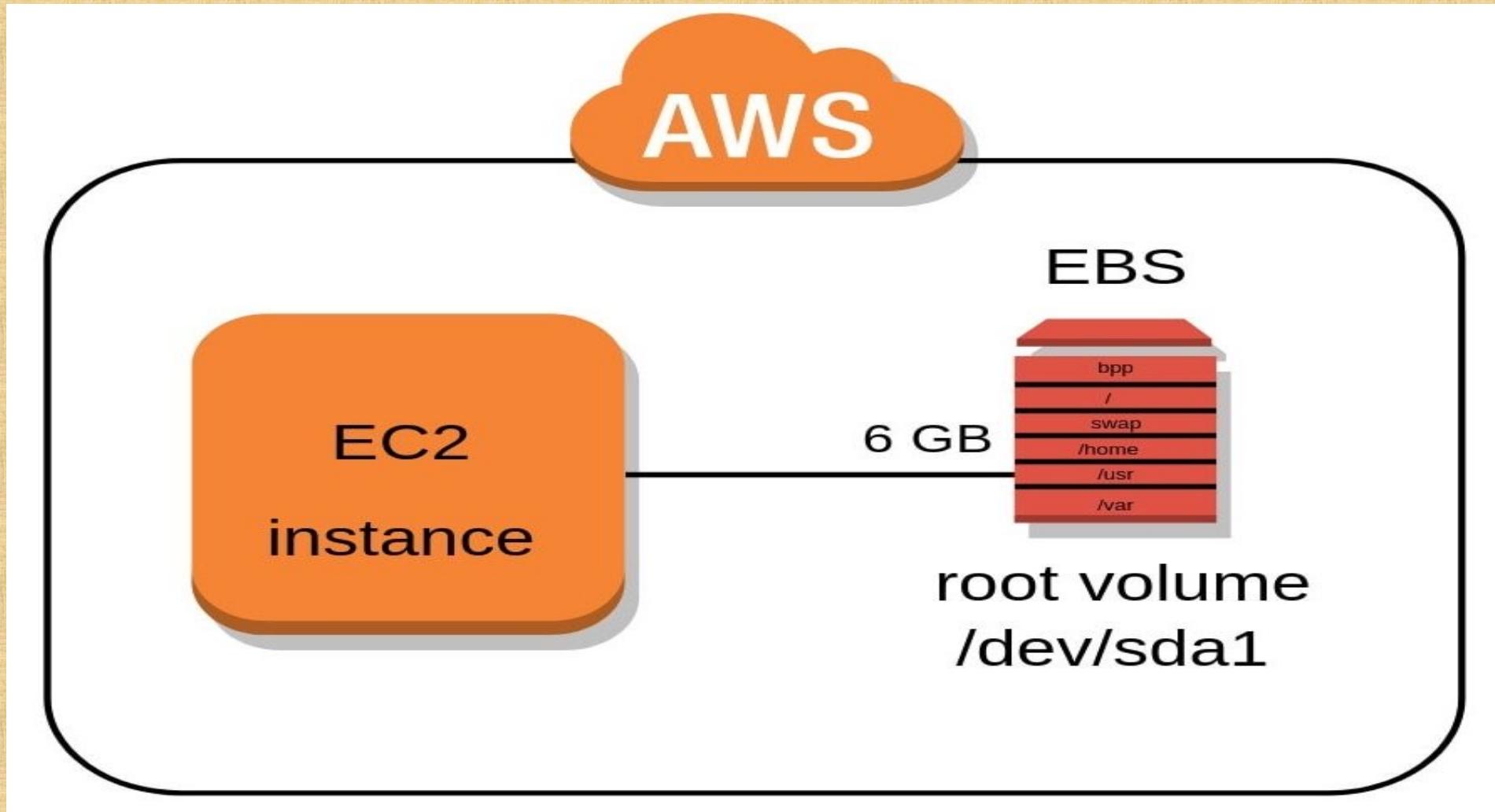
Virtual server type (instance type)
t2.micro

Firewall (security group)
New security group

Storage (volumes)
1 volume(s) - 8 GiB

Info Free tier: In your first year includes 750 hours of t2.micro (or t3.micro in the Regions in which t2 micro is available) X

EC2 EBS



Advance Volume Settings

▼ Storage (volumes) [Info](#)

EBS Volumes Hide details

▶ Volume 1 (AMI Root) (8 GiB, EBS, General purpose SSD (gp2))

▼ Volume 2 (Custom) [Remove](#)

Storage type [Info](#) Device name - required [Info](#) Snapshot [Info](#)
EBS /dev/sdb Select

Size (GiB) [Info](#) Volume type [Info](#) IOPS [Info](#)
8 gp3 3000

Delete on termination [Info](#) Encrypted [Info](#) KMS key [Info](#)
No Not encrypted Select
KMS keys are only applicable when encryption is set on this volume.

Throughput [Info](#)
125

Simple

▼ Summary (i)

Number of instances [Info](#)
1

Software Image (AMI)
Ubuntu Server 22.04 LTS (HVM),... [read more](#)
ami-02eb7a4783e7e9317

Virtual server type (instance type)
t2.micro

Firewall (security group)
New security group

Storage (volumes)
2 volume(s) - 16 GiB

Free tier: In your first year includes 750 hours of t2.micro (or t3.micro in the Regions in which t2.micro is available) X

[Cancel](#) [Launch instance](#) [Review commands](#)

Advance Network Settings

Virtual Private Cloud

▼ Network settings [Info](#)

VPC - required [Info](#)

vpc-09a4bb68962f0b7b9 (default) ▾ C

Subnet [Info](#)

No preference ▾ C Create new subnet [X](#)

Auto-assign public IP [Info](#)

Enable ▾

Firewall (security groups) [Info](#)

A security group is a set of firewall rules that control the traffic for your instance. Add rules to allow specific traffic to reach your instance.

Create security group Select existing security group

Security group name - required

launch-wizard-5

This security group will be added to all network interfaces. The name can't be edited after the security group is created. Max length is 255 characters. Valid characters: a-z, A-Z, 0-9, spaces, and _-:/()#@[]+=;&{}!\$*

Description - required [Info](#)

launch-wizard-5 created 2023-04-19T13:42:07.057Z

▼ Summary

Number of instances [Info](#)

1

Software Image (AMI)

Ubuntu Server 22.04 LTS (HVM),...[read more](#)

ami-02eb7a4783e7e9317

Virtual server type (instance type)

t2.micro

Firewall (security group)

New security group

Storage (volumes)

2 volume(s) - 16 GiB

i Free tier: In your first year includes 750 hours of t2.micro (or t3.micro in the Regions in which t2.micro is available) X

[Cancel](#) [Launch instance](#) [Review commands](#)

Advance Pre-configuration

The screenshot shows the AWS Lambda 'Create Function' configuration interface. On the left, there are three dropdown menus under 'Advanced settings': 'Metadata response hop limit' (set to 'Select'), 'Allow tags in metadata' (set to 'Select'), and 'User data - optional' (with a note to 'Enter user data in the field.' and a large text input area). At the bottom left is a checkbox for 'User data has already been base64 encoded'. On the right, the 'Summary' section shows 'Number of instances' set to '1'. Below it, the 'Software Image (AMI)' is listed as 'Ubuntu Server 22.04 LTS (HVM),...read more ami-02eb7a4783e7e9317'. The 'Virtual server type (instance type)' is 't2.micro'. Under 'Firewall (security group)', it says 'New security group'. Under 'Storage (volumes)', it says '2 volume(s) - 16 GiB'. A tooltip for the 'Free tier' is visible, stating: 'Free tier: In your first year includes 750 hours of t2.micro (or t3.micro in the Regions in which t2.micro is available)'. At the bottom right are buttons for 'Cancel', 'Launch instance' (in orange), and 'Review commands'.

Metadata response hop limit [Info](#)
Select

Allow tags in metadata [Info](#)
Select

User data - optional [Info](#)
Enter user data in the field.

User data has already been base64 encoded

▼ Summary

Number of instances [Info](#)
1

Software Image (AMI)
Ubuntu Server 22.04 LTS (HVM),...[read more](#)
ami-02eb7a4783e7e9317

Virtual server type (instance type)
t2.micro

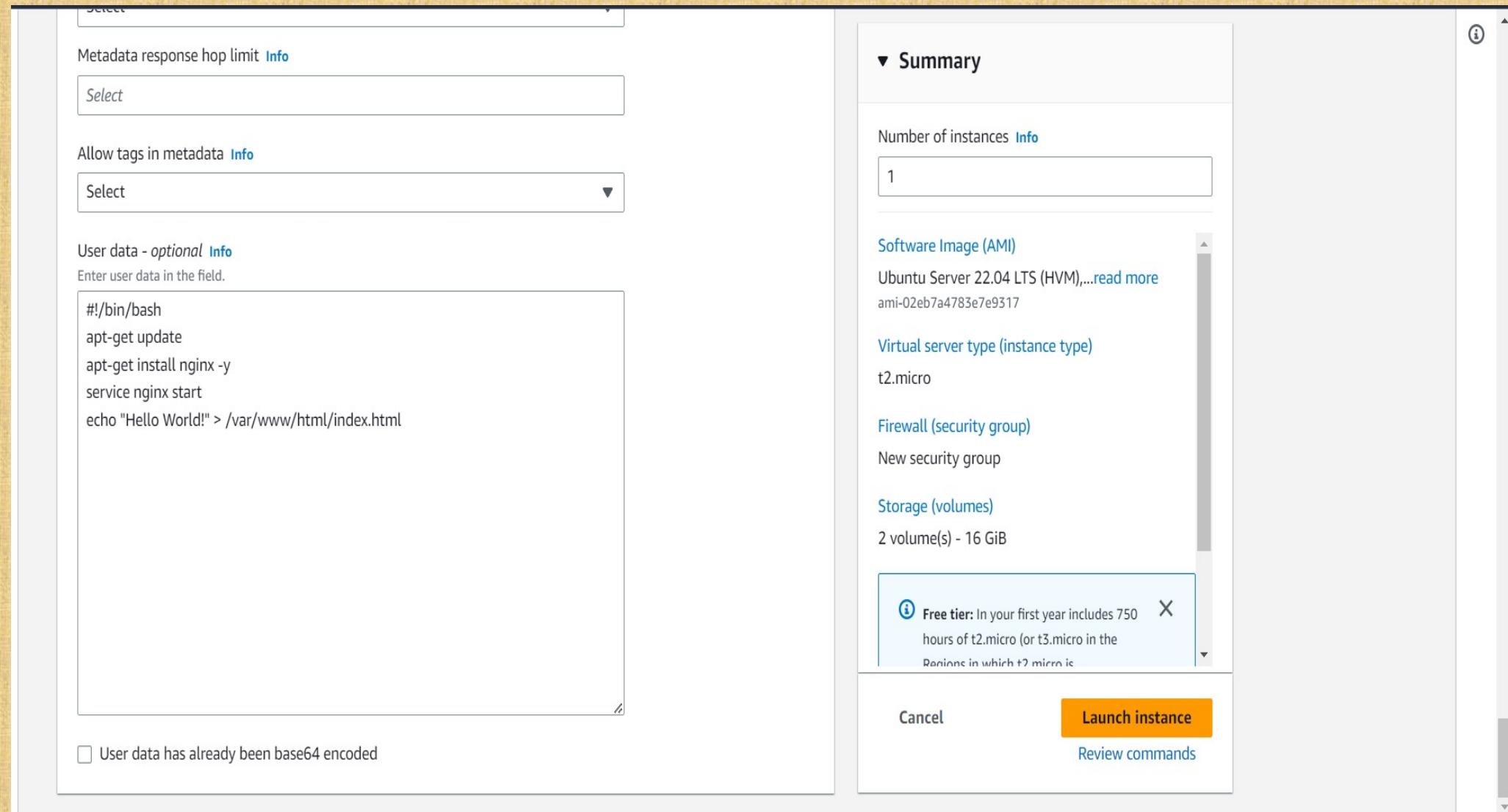
Firewall (security group)
New security group

Storage (volumes)
2 volume(s) - 16 GiB

Free tier: In your first year includes 750 hours of t2.micro (or t3.micro in the Regions in which t2.micro is available)

Cancel **Launch instance** Review commands

Bash Script(as Root user be careful)



Response from EC2

The screenshot shows the Thunder Client interface. At the top, there are tabs for '.gitignore', 'nsdscjkv.txt', 'localhost:3000' (which is the active tab), 'hello.txt.txt', 'babu.txt', 'vxnbf.txt', 'kjkj.txt', and 'secret.txt'. Below the tabs, a search bar contains 'GET http://13.235.254.120' and a 'Send' button. Underneath the search bar, there are tabs for 'Query', 'Headers 2', 'Auth', 'Body 1', 'Tests', and 'Pre Run'. The 'Headers' tab is selected, showing the following configuration:

Header	Value
Accept	*
User-Agent	Thunder Client (https://www.thunderclient.net)
header	value

Next to the headers is a 'Raw' checkbox. On the right side of the interface, under the 'Response' tab, the status is shown as 'Status: 200 OK Size: 612 Bytes Time: 138 ms'. The response body is displayed as a numbered code block:

```
1 <!DOCTYPE html>
2 <html>
3   <head>
4     <title>Welcome to nginx!</title>
5     <style>
6       body {
7         width: 35em;
8         margin: 0 auto;
9         font-family: Tahoma, Verdana, Arial, sans-serif;
10      }
11    </style>
12  </head>
13  <body>
14    <h1>Welcome to nginx!</h1>
15    <p>If you see this page, the nginx web server is successfully installed and
16       working. Further configuration is required.</p>
17
18    <p>For online documentation and support please refer to
19      <a href="http://nginx.org/">nginx.org</a>. <br/>
20      Commercial support is available at
21      <a href="http://nginx.com/">nginx.com</a>.</p>
22
23    <p><em>Thank you for using nginx.</em></p>
24  </body>
```

Below the response body, there is a 'Preview' link.

Ec2 Connection Method

The screenshot shows the 'Connect to instance' page for an EC2 instance. The navigation path is EC2 > Instances > i-094211795e7de4925 > Connect to instance. The main heading is 'Connect to instance' with an 'Info' link. Below it, a sub-header says 'Connect to your instance i-094211795e7de4925 (test) using any of these options'. There are four tabs: 'EC2 Instance Connect' (selected), 'Session Manager', 'SSH client', and 'EC2 serial console'. Under 'EC2 Instance Connect', the 'Instance ID' is listed as 'i-094211795e7de4925 (test)' with a copy icon. The 'Public IP address' is listed as '13.235.254.120' with a copy icon. The 'User name' field contains 'ubuntu'. A note in a box states: 'Note: In most cases, the default user name, ubuntu, is correct. However, read your AMI usage instructions to check if the AMI owner has changed the default AMI user name.' At the bottom right are 'Cancel' and 'Connect' buttons.

EC2 > Instances > i-094211795e7de4925 > Connect to instance

Connect to instance [Info](#)

Connect to your instance i-094211795e7de4925 (test) using any of these options

[EC2 Instance Connect](#) [Session Manager](#) [SSH client](#) [EC2 serial console](#)

Instance ID
[i-094211795e7de4925 \(test\)](#)

Public IP address
[13.235.254.120](#)

User name
Enter the user name defined in the AMI used to launch the instance. If you didn't define a custom user name, use the default user name, ubuntu.

ubuntu

Note: In most cases, the default user name, ubuntu, is correct. However, read your AMI usage instructions to check if the AMI owner has changed the default AMI user name.

Cancel **Connect**

SSH connection from AWS Web

```
<!DOCTYPE html>
<html>
<head>
<title>Welcome to nginx!</title>
<style>
    body {
        width: 35em;
        margin: 0 auto;
        font-family: Tahoma, Verdana, Arial, sans-serif;
    }
</style>
</head>
<body>
<h1>Welcome to nginx!</h1>
<p>If you see this page, the nginx web server is successfully installed and
working. Further configuration is required.</p>
<p>For online documentation and support please refer to
<a href="http://nginx.org/">nginx.org</a>.<br/>
Commercial support is available at
<a href="http://nginx.com/">nginx.com</a>.</p>
<p><em>Thank you for using nginx.</em></p>
</body>
</html>
root@ip-172-31-36-95:~# 
```

i-094211795e7de4925 (test)

Public IPs: 13.235.254.120 Private IPs: 172.31.36.95

X

IP Address

Instances (1/1) [Info](#)

[Find instance by attribute or tag \(case-sensitive\)](#)

<input checked="" type="checkbox"/> Name	Instance ID	Instance state	Instance type	Status check	Alarm status	Availability Zone	Public IPv4 DNS	Public IPv4 ...
testing 1	i-0646ded26ccd3c78b	Running	t2.micro	Initializing	No alarms	ap-south-1a	ec2-65-2-10-242.ap-so...	65.2.10.242

Instance: i-0646ded26ccd3c78b (testing 1)

[Details](#) [Security](#) [Networking](#) [Storage](#) [Status checks](#) [Monitoring](#) [Tags](#)

[▼ Instance summary](#) [Info](#)

Instance ID i-0646ded26ccd3c78b (testing 1)	Public IPv4 address 65.2.10.242 open address	Private IPv4 addresses 172.31.41.54
IPv6 address -	Instance state Running	Public IPv4 DNS ec2-65-2-10-242.ap-south-1.compute.amazonaws.com open address
Hostname type IP name: ip-172-31-41-54.ap-south-1.compute.internal	Private IP DNS name (IPv4 only) ip-172-31-41-54.ap-south-1.compute.internal	Elastic IP addresses -
Answer private resource DNS name IPv4 (A)	Instance type t2.micro	

Resource Monitor

Instances (1/4) [Info](#)

Find instance by attribute or tag (case-sensitive)

Name	Instance ID	Instance state	Instance type	Status check	Alarm status	Availability Zone	Public IPv4 DNS	Public IPv4 ...
<input checked="" type="checkbox"/> test	i-03ce27adce9d1ddba	Running Details	t2.micro	Initializing Details	No alarms +	ap-south-1a	ec2-13-233-225-76.ap...	13.233.225.76
<input type="checkbox"/> test	i-094211795e7de4925	Terminated Details	t2.micro	-	No alarms +	ap-south-1a	-	-
<input type="checkbox"/> Testing	i-0b43a6f03252b2427	Terminated Details	t2.micro	-	No alarms +	ap-south-1a	-	-
<input type="checkbox"/> testing 2	i-0239e3cee6c01de66	Terminated Details	t2.micro	-	No alarms +	ap-south-1a	-	-

Instance: i-03ce27adce9d1ddba (test)

[Details](#) [Security](#) [Networking](#) [Storage](#) [Status checks](#) [Monitoring](#) [Tags](#)

[Manage detailed monitoring](#)

1h 3h 12h 1d 3d 1w Custom [1h](#) [Add to dashboard](#)

CPU utilization (%)

No unit
No data available.
1 Try adjusting the dashboard time range.

0.5

0

13:15 13:30 13:45 14:00

Status check failed (any) (count)

No unit
No data available.
1 Try adjusting the dashboard time range.

0.5

0

13:15 13:30 13:45 14:00

Status check failed (instance) (count)

No unit
No data available.
1 Try adjusting the dashboard time range.

0.5

0

13:15 13:30 13:45 14:00

Status check failed (system) (count)

No unit
No data available.
1 Try adjusting the dashboard time range.

0.5

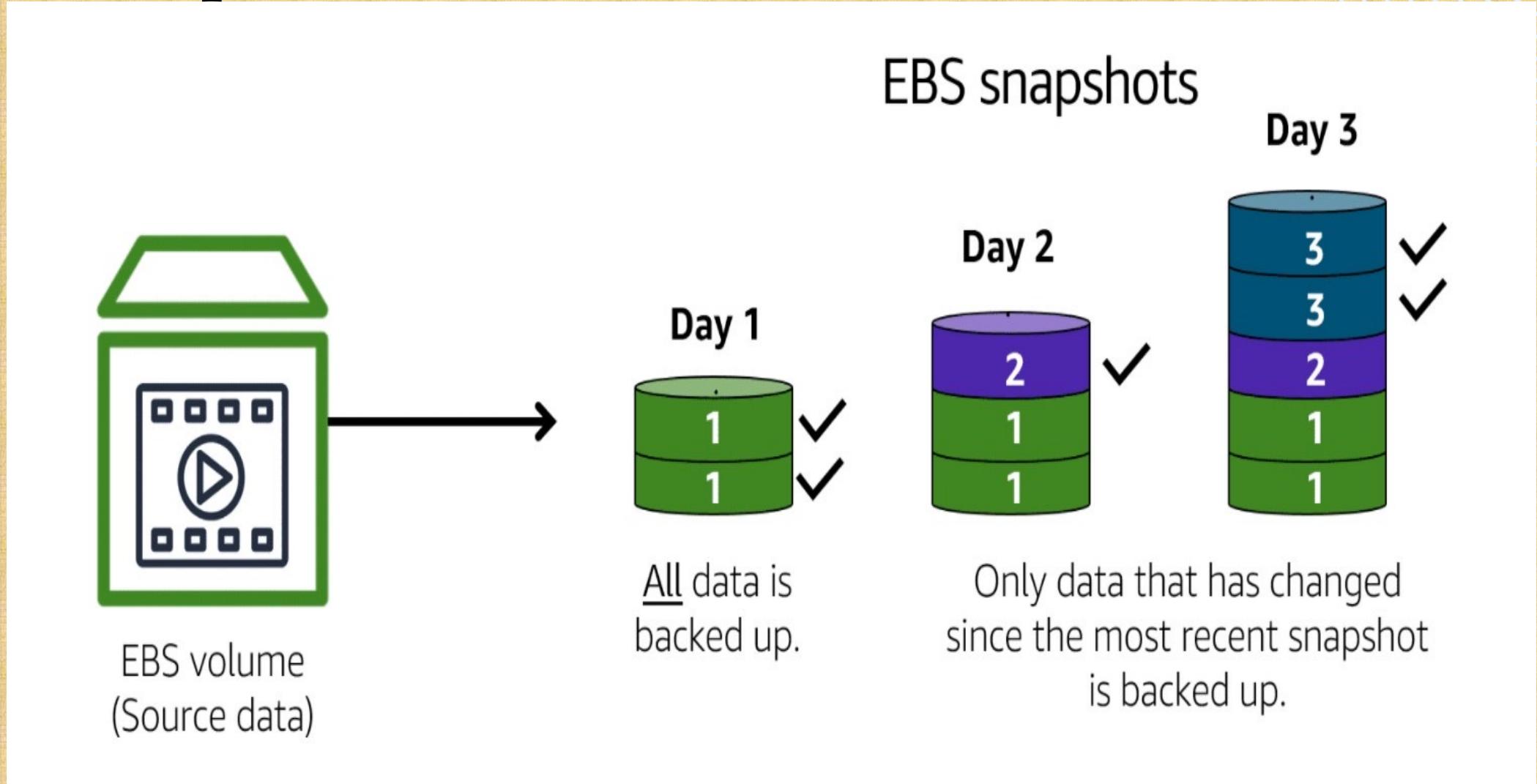
0

13:15 13:30 13:45 14:00

EBS Types

	General Purpose SSD volumes		Provisioned IOPS SSD volumes				
Volume type	gp3	gp2	io2 Block Express ‡	io2	io1		
Durability	99.8% - 99.9% durability (0.1% - 0.2% annual failure rate)		99.999% durability (0.001% annual failure rate)		99.8% - 99.9% durability (0.1% - 0.2% annual failure rate)		
Use cases	<ul style="list-style-type: none"> Transactional workloads Virtual desktops Medium-sized, single-instance databases Low-latency interactive applications Boot volumes Development and test environments 		Workloads that require: <ul style="list-style-type: none"> Sub-millisecond latency Sustained IOPS performance More than 64,000 IOPS or 1,000 MiB/s of throughput 	<ul style="list-style-type: none"> Workloads that require sustained IOPS performance or more than 16,000 IOPS I/O-intensive database workloads 			
Volume size	1 GiB - 16 TiB		4 GiB - 64 TiB	4 GiB - 16 TiB			
Max IOPS per volume (16 KiB I/O)	16,000		256,000	64,000 †			
Max throughput per volume	1,000 MiB/s	250 MiB/s *	4,000 MiB/s	1,000 MiB/s †			
Amazon EBS Multi-attach	Not supported		Supported				
Boot volume	Supported						

EBS Snapshots



Schedule Backup

Step 1
[Specify settings](#)

Step 2
Configure schedule 1 - Schedule Backend backup

Step 3
Review and create

Configure schedule 1 - Schedule Backend backup

Schedules define how often the policy runs and the specific actions that are to be performed. The policy must have at least one schedule.

Info You can add 3 more schedules to this policy. They must have the same retention type as Schedule Backend backup, but they can have their own retention count or age. Snapshot archiving can be enabled for one schedule only.

Schedule details		Info	Remove schedule	Add another schedule
Schedule name				
<input type="text" value="Schedule Backend backup"/>				
Frequency				
<input type="button" value="Daily"/>				
Every				
<input type="button" value="1 hour"/>				
Starting at				
<input type="text" value="09:00"/> UTC				
Retention type	Keep	<input type="button" value="Count"/>	<input type="text" value="10"/>	snapshots in standard tier

Security Practice

Security Groups

27

The screenshot shows the AWS Management Console interface for managing security groups. It is divided into two main sections: 'Inbound rules' and 'Outbound rules'.

Inbound rules:

- Type:** SSH
- Protocol:** TCP
- Port range:** 22
- Source:** My IP
- Description - optional:** development purpose
- Actions:** Delete (button)
- Source:** 180.188.236.190/32 (highlighted with a red box)
- Actions:** Delete (button)

Outbound rules:

- Type:** Custom TCP
- Protocol:** TCP
- Port range:** 0
- Destination:** Anywh...
- Description - optional:** (empty)
- Actions:** Delete (button)
- Destination:** ::/0 (highlighted with a red box)
- Actions:** Delete (button)

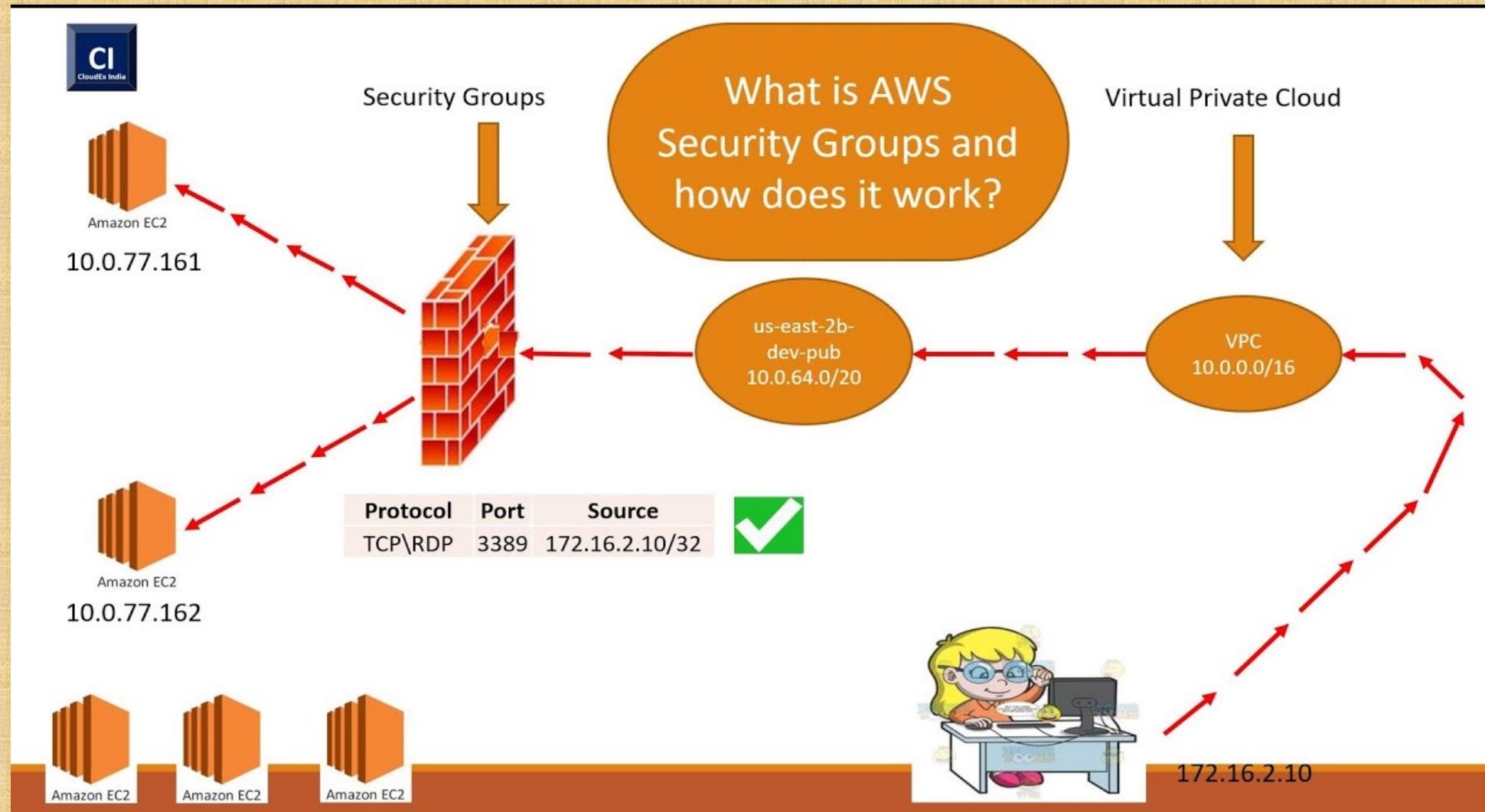
Buttons:

- Add rule (button) under both sections

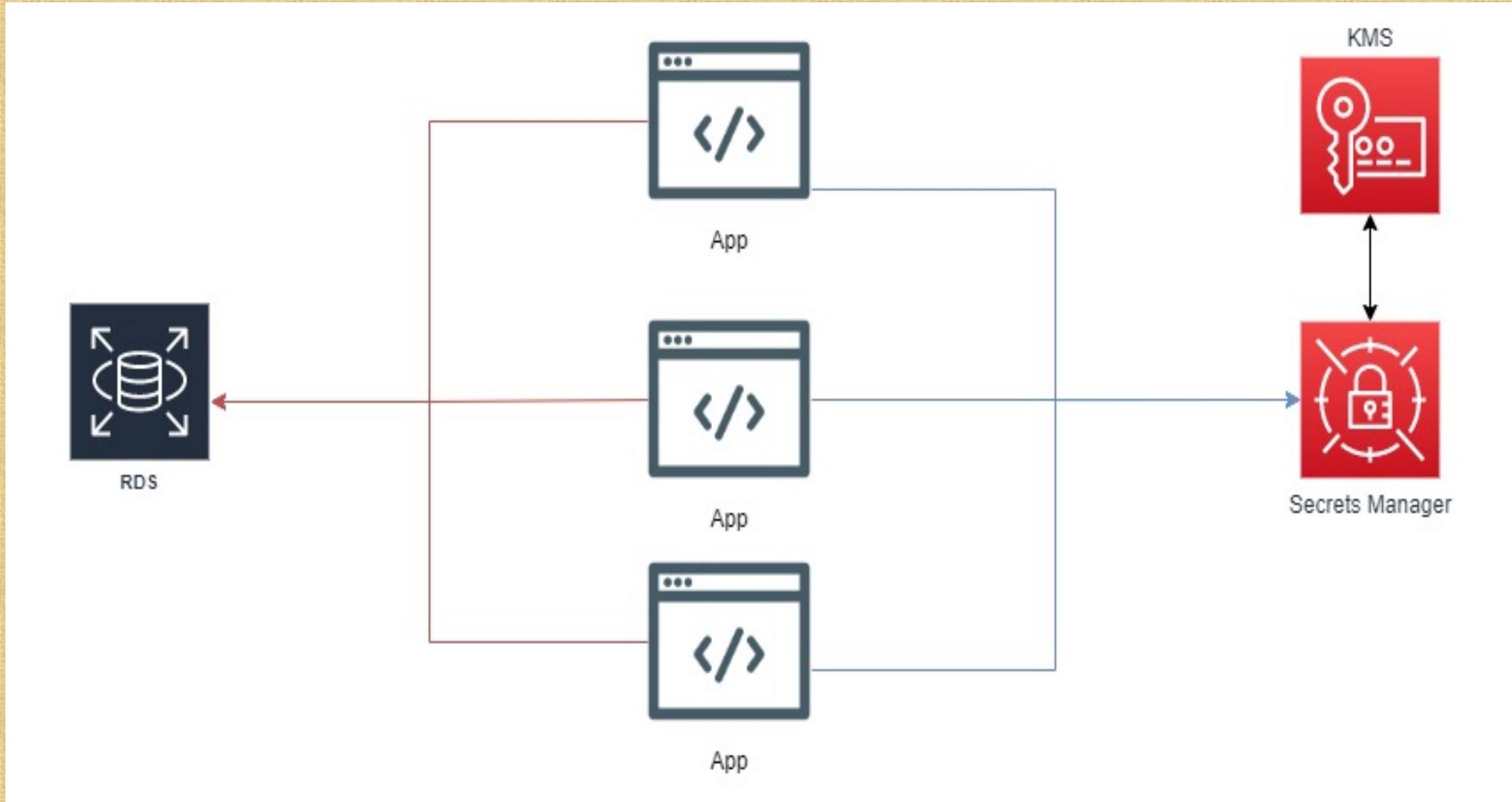
SECURITY GROUPS VISUAL VIEW

Security Groups Overview

29

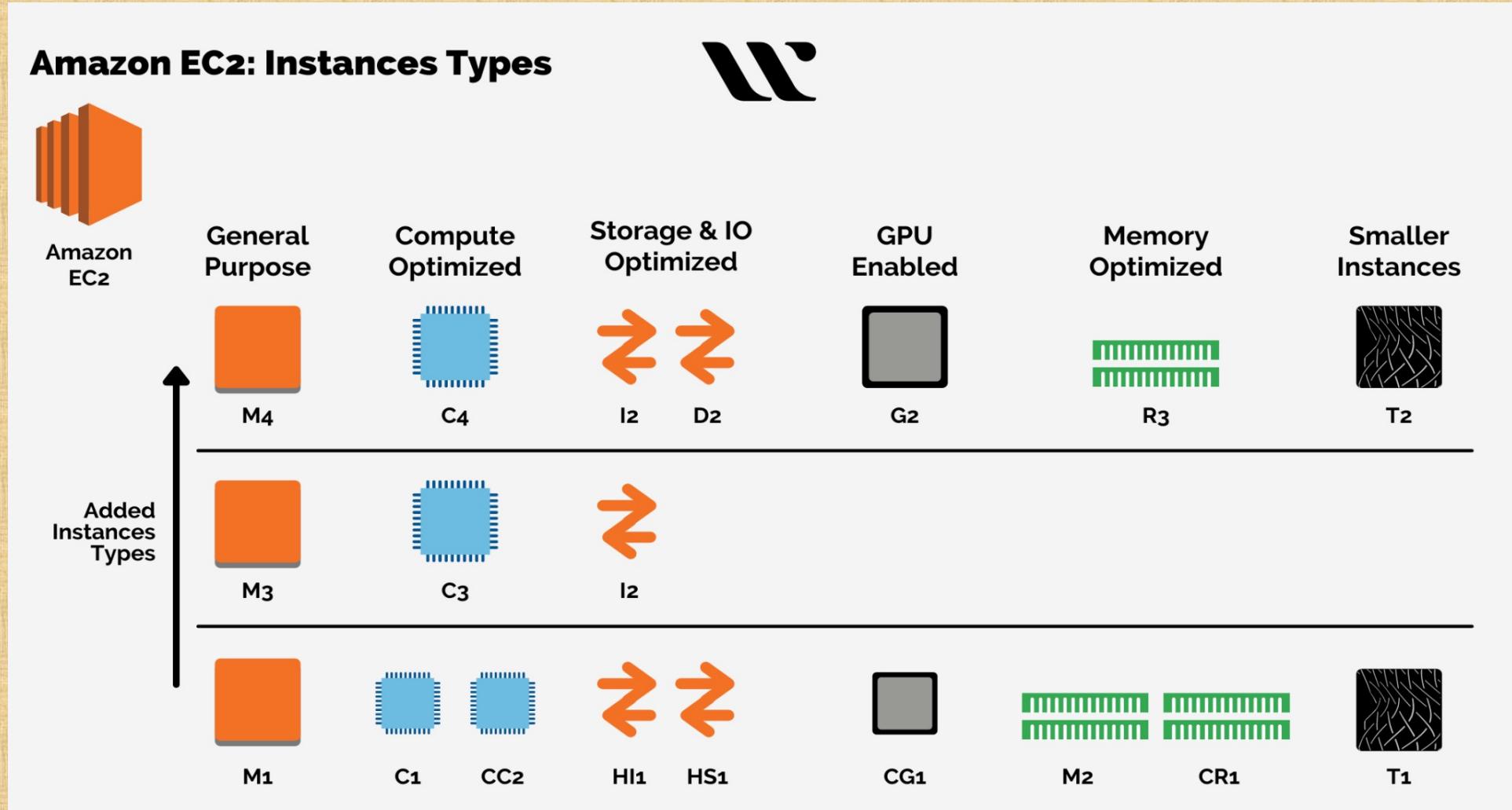


Security Groups Next

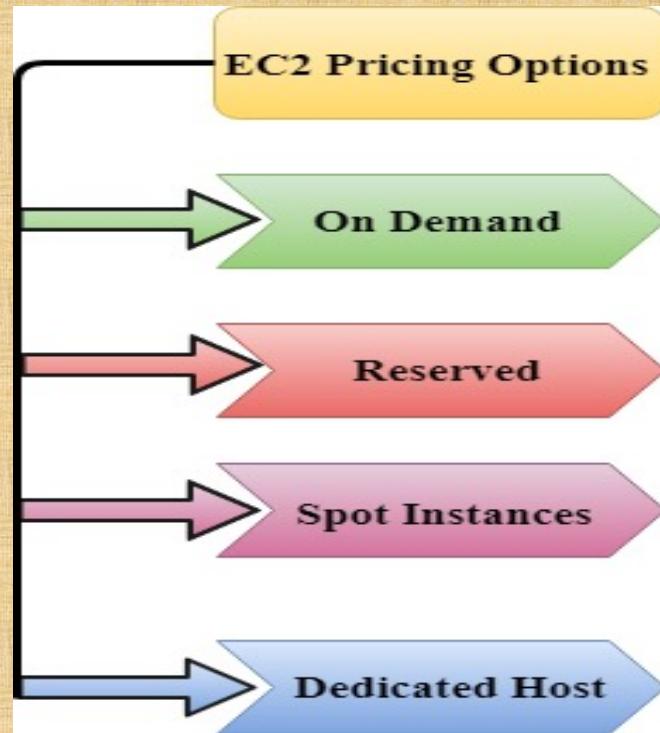


Price Optimization

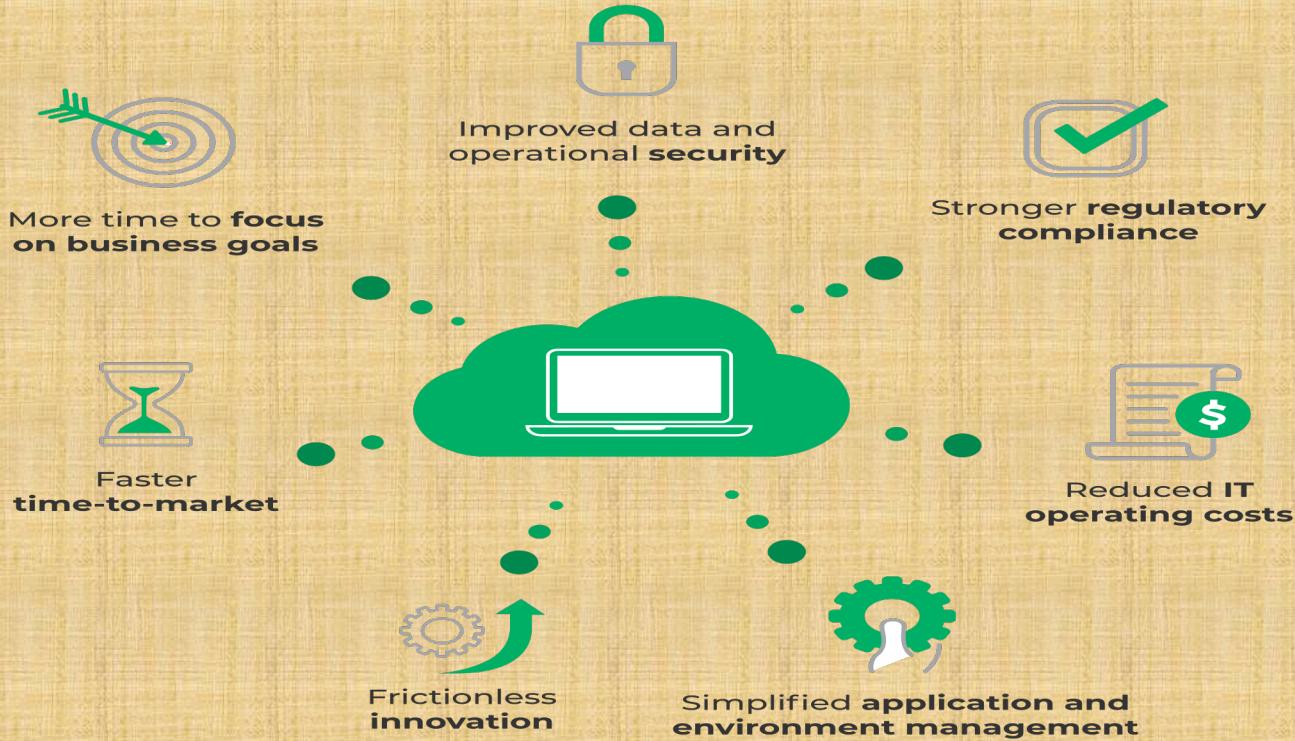
EC2 Instances Types



EC2 Instances Types



AWS Managed Services



AWS Managed Services Benefit



DEVELOPMENT & HOST



ARCHITECTURE & CI-CD SETUP

First define the architecture of project may be monolithic or micro-service



DEVELOPMENT

Now choose any asynchronous framework and do development



TESTING

Now test on the local system and build the production file



GIT-HUB

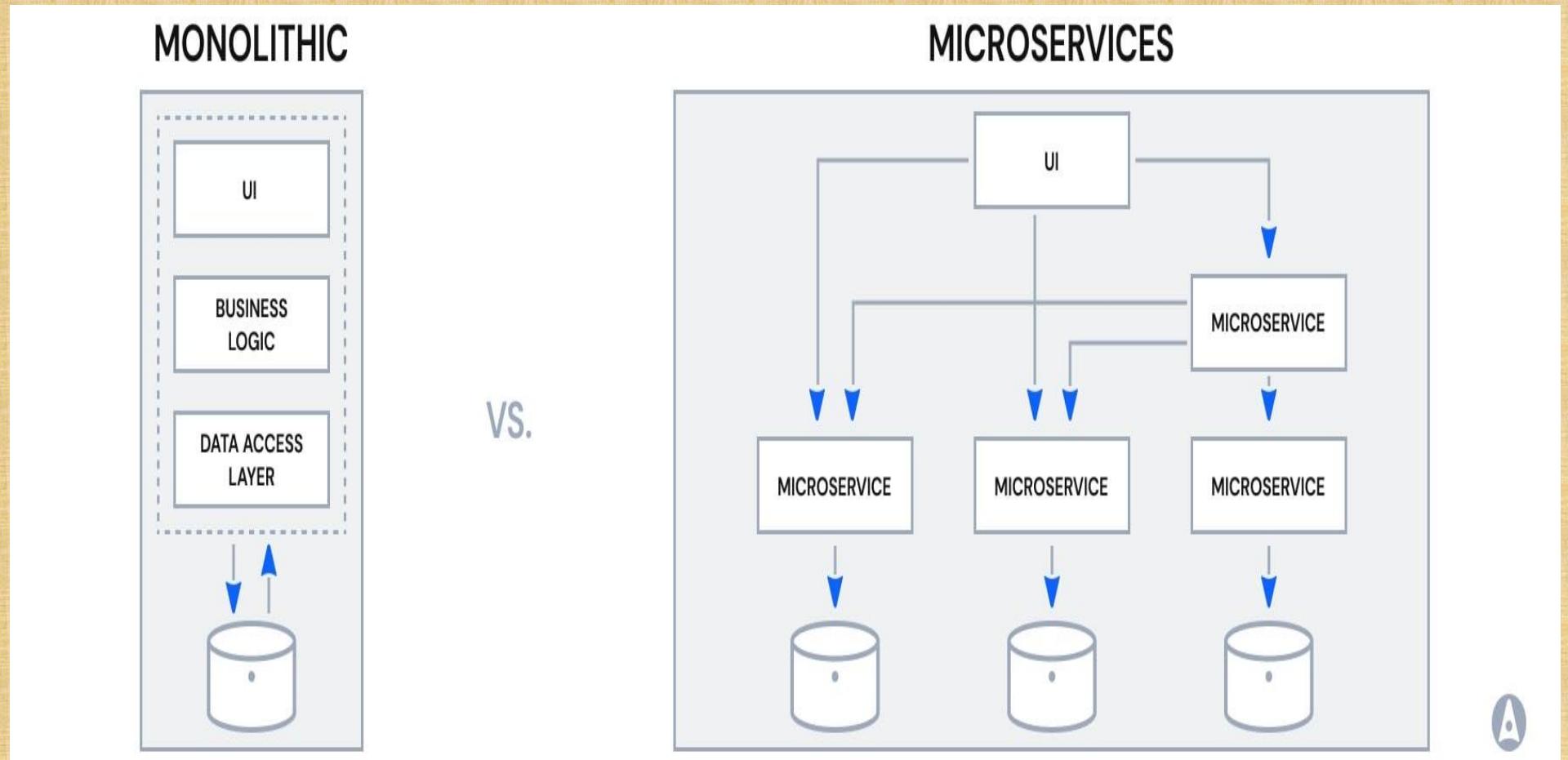
Now push development build file on the git repo



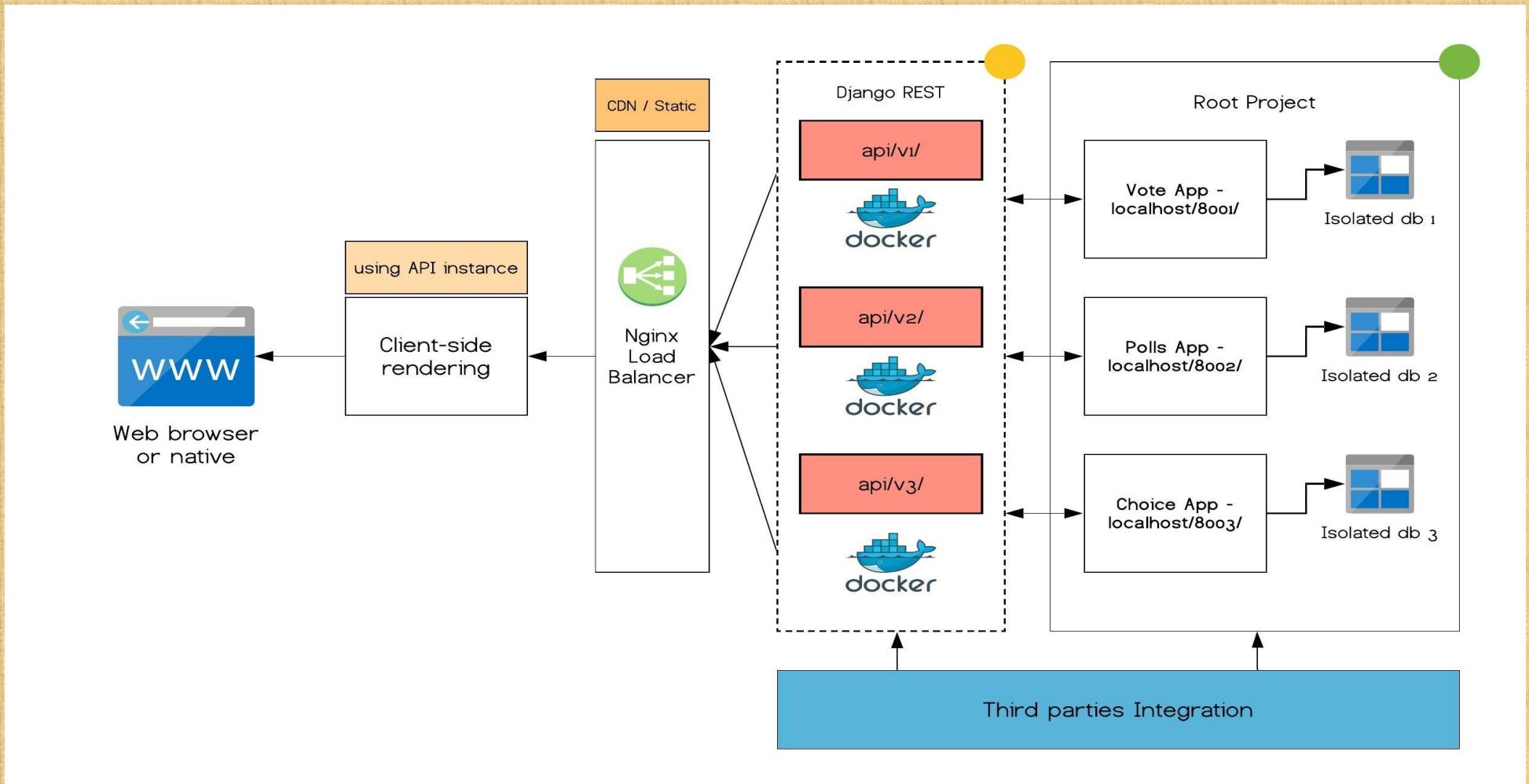
LAUNCH

From git-hub you can set direct AWS pipeline to deploy production server

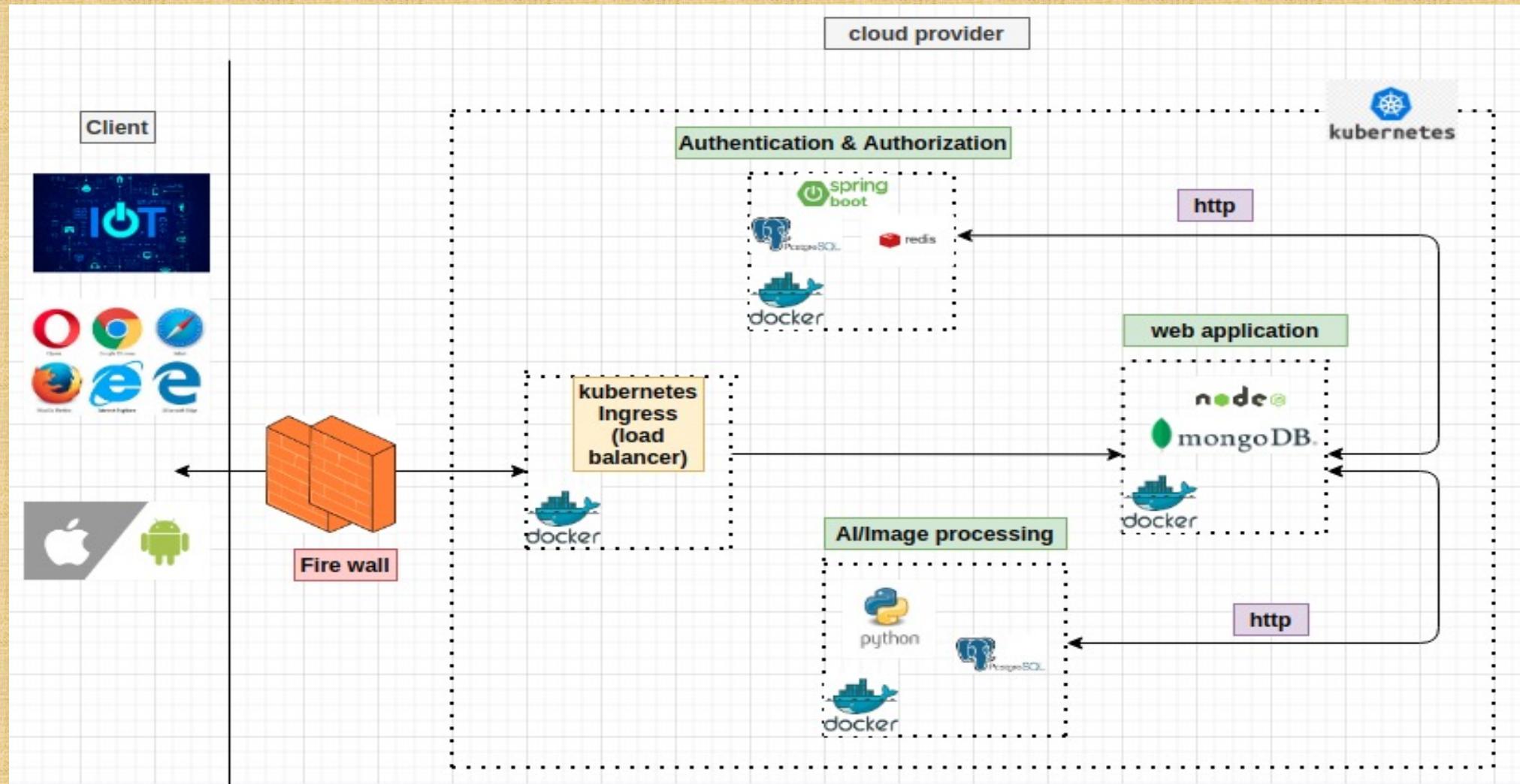
Application Architecture



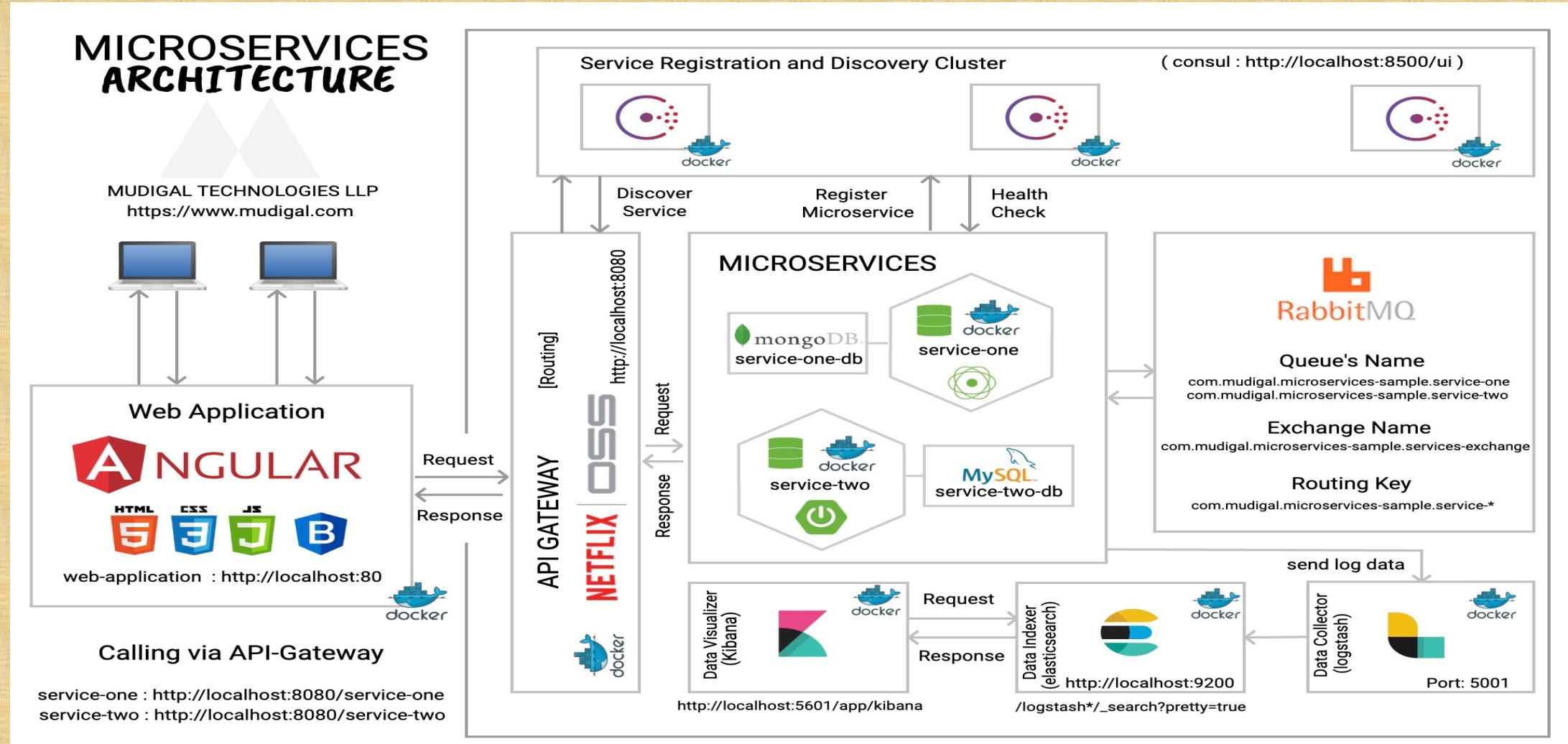
Example



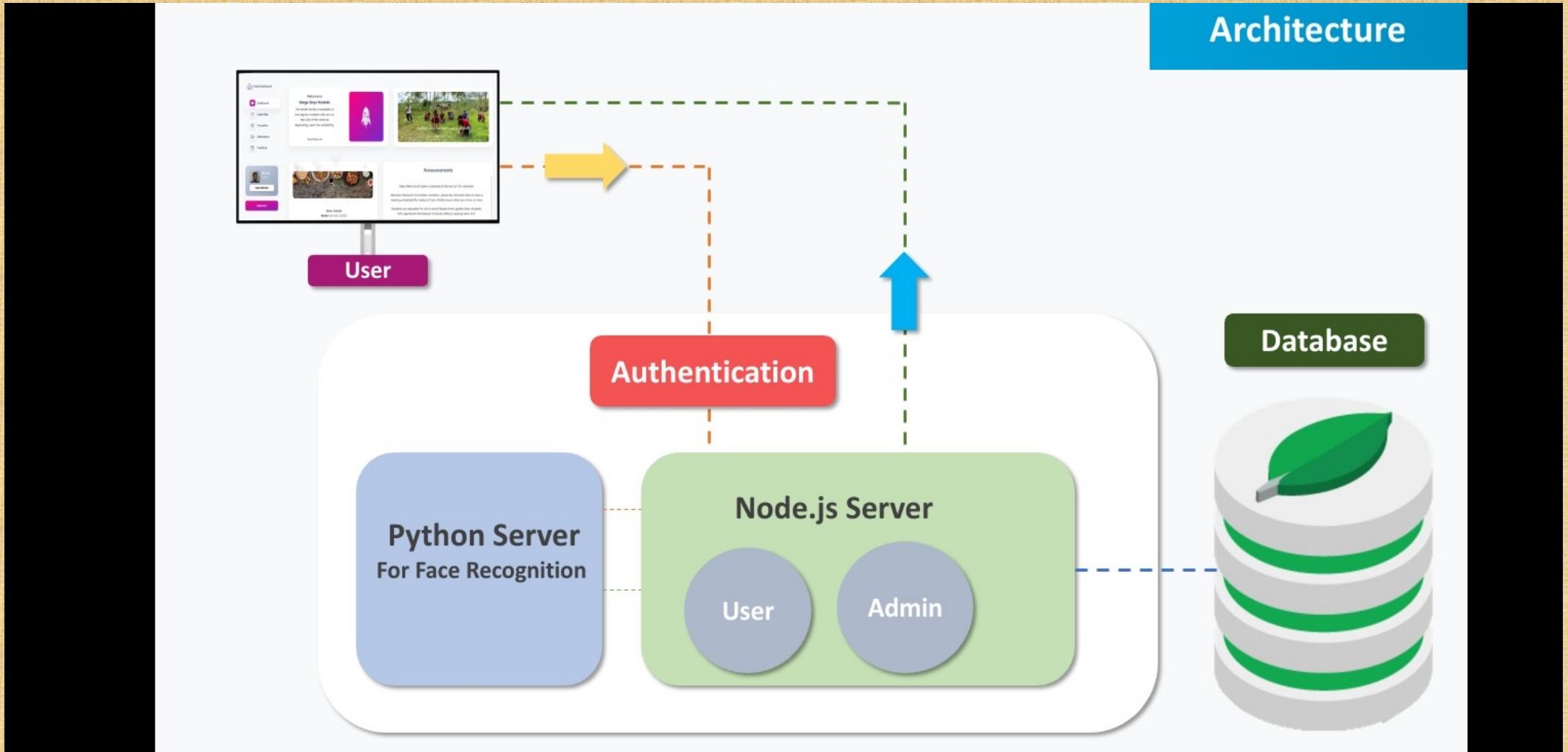
Example



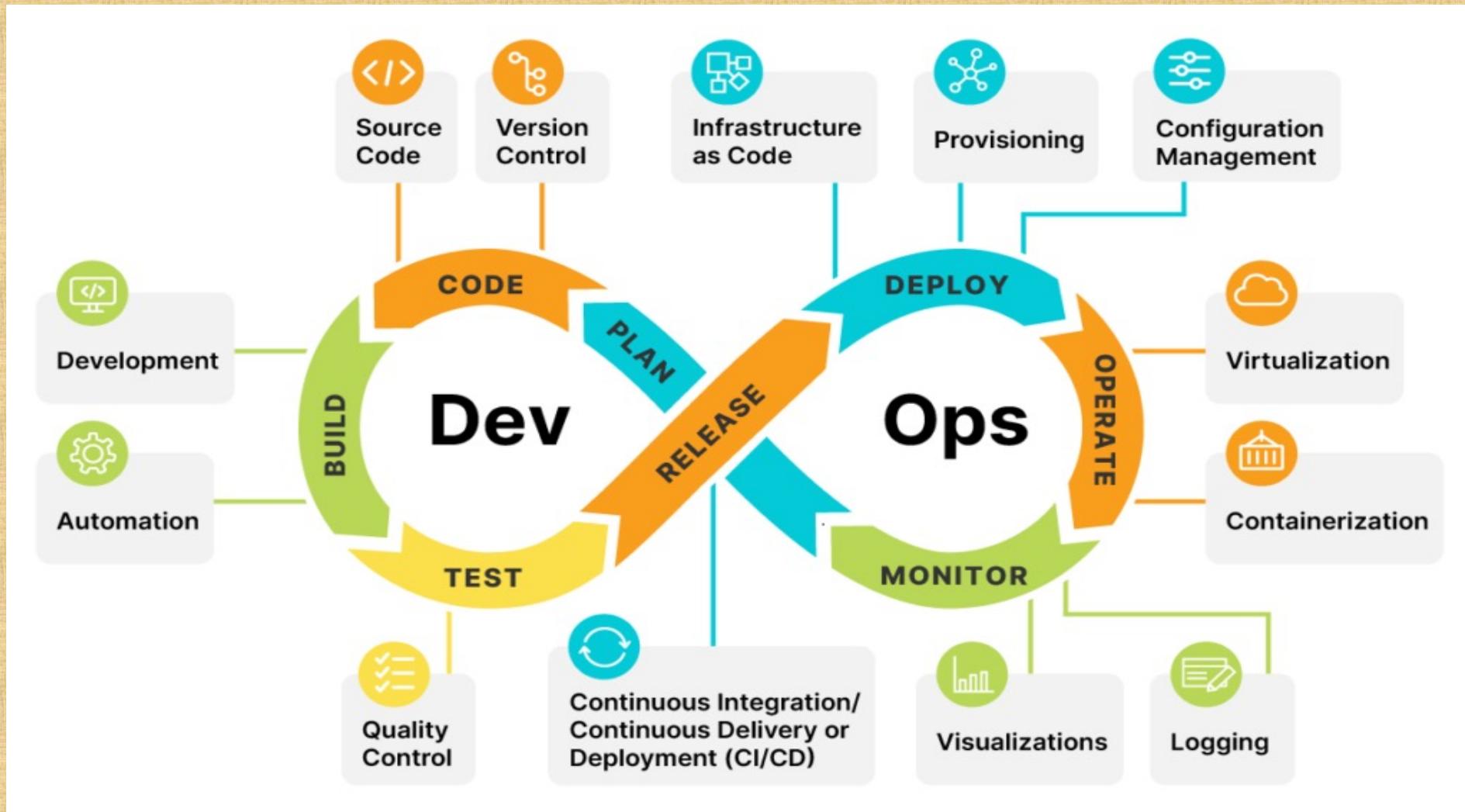
Microservices Architecture Overview



Authemtication Overview



Work Flow in DevOps Overview



ROAD MAP FOR DEVOPS

MEDIUM LEVEL

- Linux
- Networking
- Security
- CI/CD
- AWS
- Infrastructure as code
- Programming

ADVANCE LEVEL

- Containers
- Kubernetes



THANK YOU