



# MEMBANGUN INFRASTRUKTUR BERBASIS CLOUD

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Small Project 2 – Ibnu Z.I.

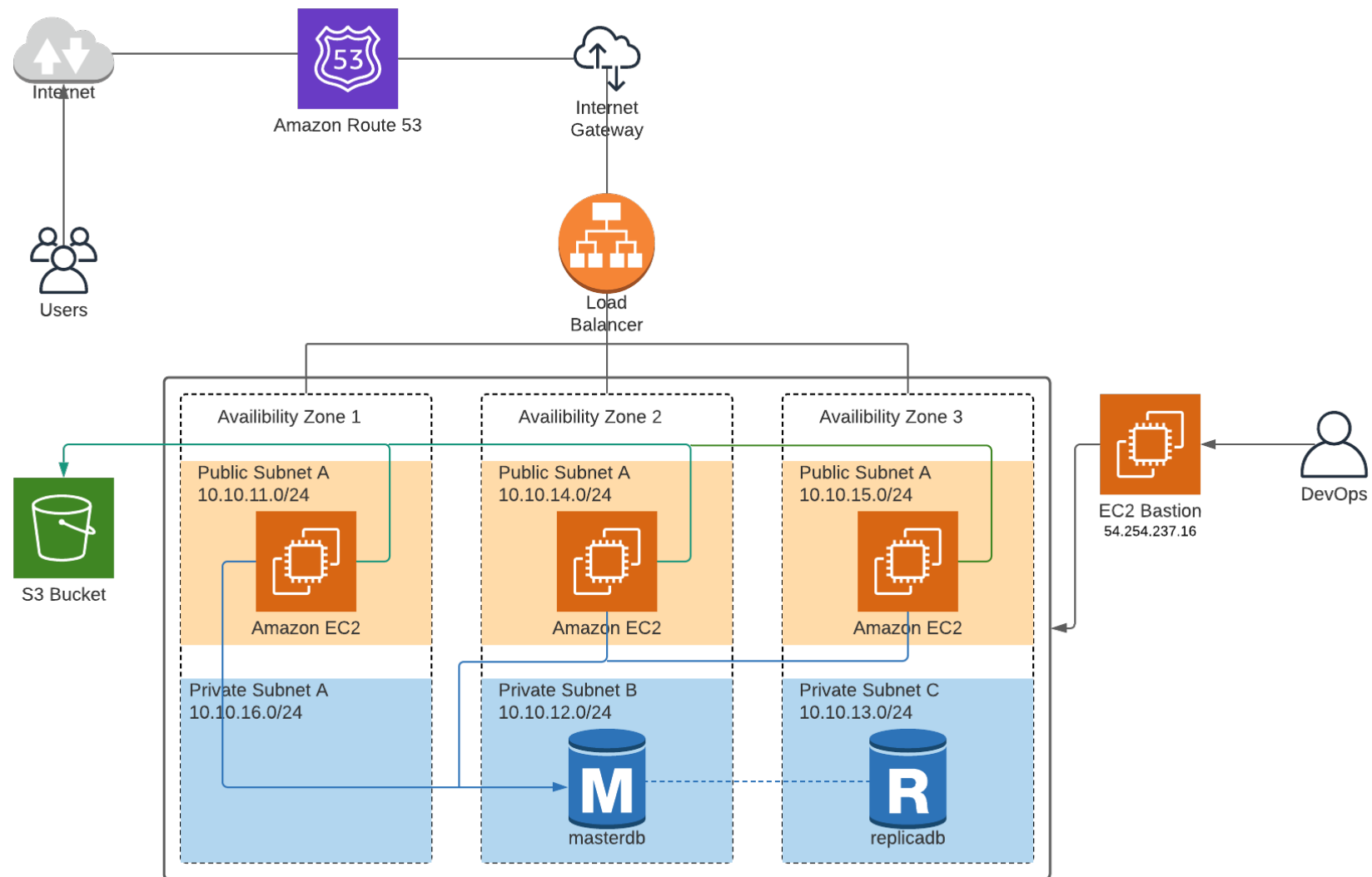
# BACKGROUND

**Sebuah perusahaan yang bernama Gawai Studio memiliki sebuah layanan web yang dijalankan di beberapa server yang telah running selama 5 tahun dan sudah mendekati batas maksimal kapasitas penggunaan. Perusahaan tersebut memutuskan akan melakukan migrasi dari server on premises yang mereka miliki ke sistem cloud karena kebutuhan pengguna yang sangat meningkat.**

# REQUIREMENT OF THE PROJECT

- VPC & 3 AZ
- EC2
- RDS
- S3
- Auto Scaling & Load Balancer
- Domain + SSL

# TOPOLOGY



# BILLING ESTIMATE

My Estimate

[Edit](#)

Add service

Add support

Add group

Clear estimate

Export estimate

Share

Estimate summary

Info

Upfront cost

0.00 USD

Monthly cost

105.35 USD

Total 12 months cost

1,264.20 USD

Getting Started with AWS

Contact Us

Sign in to the Console

Services (5)

Amazon Virtual Private Cloud (VPC)

Description: NAT GW

Region: Asia Pacific (Singapore)

Edit

Action

Network Address Translation (NAT) Gateway

Number of NAT Gateways (1)

Monthly:

43.66 USD

Amazon Route 53

Description: Domain

Region: Asia Pacific (Singapore)

Edit

Action

Amazon Route 53

Hosted Zones (1)

Monthly:

0.50 USD

Amazon Simple Storage Service (S3)

Region: Asia Pacific (Singapore)

Edit

Action

S3 Standard storage (100 GB per month)

Monthly:

2.50 USD

Amazon RDS for MySQL

Description: DB

Region: Asia Pacific (Singapore)

Edit

Action

RDS for MySQL

Storage for each RDS instance (General Purpose SSD (gp2), Storage amount (20 GB), Quantity (1), Instance type (db.t2.micro), Utilization (On-Demand only) (100 %Utilized/Month), Deployment option (Multi-AZ), Pricing strategy (OnDemand)

Monthly:

43.48 USD

Amazon EC2

Description: Web Server

Region: Asia Pacific (Singapore)

Edit

Action

Quick estimate

Operating system (Linux), Quantity (2), Pricing strategy (EC2 Instance Savings Plans 1 Year No Upfront), Storage amount (8 GB), Instance type (t2.micro)

Monthly:

15.21 USD

# PROVISIONING

**Instances (4)** [Info](#)

Instance state: running

<input type="checkbox"/>	Name	Instance ID	Instance state	Instance type	Status check	Alarm status	Availability Zone
<input type="checkbox"/>	app-sosmed	I-Ofb4f5da8e89e909d	Running	t2.micro	2/2 checks passed	No alarms	ap-southeast-1a
<input type="checkbox"/>	app-sosmed	I-Ofec97154c40658c5	Running	t2.micro	2/2 checks passed	No alarms	ap-southeast-1c
<input type="checkbox"/>	app-sosmed-original	I-03f28df1bc50701d3	Running	t2.micro	2/2 checks passed	No alarms	ap-southeast-1b
<input type="checkbox"/>	Bastion	I-0e5e4d7729a083ec0	Running	t2.micro	2/2 checks passed	No alarms	ap-southeast-1a

<input type="checkbox"/>	Record name	Type	Routin...	Differ...	Value/Route traffic to
<input type="checkbox"/>	konservatif.xyz	A	Simple	-	dualstack.konservatif-alb-1872974846.ap-southeast-1.elb.amazonaws.com.

**Buckets (1)** [Info](#)

Buckets are containers for data stored in S3. [Learn more](#)

<input type="radio"/>	Name	AWS Region	Access	Creation date
<input type="radio"/>	app-sosmed	Asia Pacific (Singapore) ap-southeast-1	Objects can be public	October 28, 2021, 01:11:52 (UTC+07:00)

## RDS > Databases

### Databases

☒ Group resources

<input type="checkbox"/>	DB identifier	Role	Engine	Region & AZ	Size	Status
<input type="radio"/>	sp2-masterdb	Primary	MySQL Community	ap-southeast-1c	db.t2.micro	Available
<input type="radio"/>	sp2-replicadb	Replica	MySQL Community	ap-southeast-1b	db.t2.micro	Available

# AUTO SCALING & LOAD BALANCER

Create Load Balancer

Actions ▾

Filter by tags and attributes or search by keyword

	Name	DNS name	State	VPC ID	Availability Zones	Type
	konservatif-alb	konservatif-alb-1872974846.ap-southeast-1.elb.amazonaws.com	Active	vpc-02f680547085bab6c	ap-southeast-1b, ap-southeast-1a,...	application

Load balancer: konservatif-alb

Description

Listeners

Monitoring

Integrated services

Tags

## Basic Configuration

Name	konservatif-alb
ARN	arn:aws:elasticloadbalancing:ap-southeast-1:643549573960:loadbalancer/app/konservatif-alb/c8b9e830d5c4efc4
DNS name	konservatif-alb-1872974846.ap-southeast-1.elb.amazonaws.com (A Record)
State	Active
Type	application
Scheme	internet-facing
IP address type	ipv4
	Edit IP address type
VPC	vpc-02f680547085bab6c
Availability Zones	subnet-03771e23dc7e88ba0 - ap-southeast-1b IPv4 address: Assigned by AWS
	subnet-04190515d45cb3ec7 - ap-southeast-1a IPv4 address: Assigned by AWS
	subnet-0d77c2ff8541b7182 - ap-southeast-1c IPv4 address: Assigned by AWS
	Edit subnets

## Group details

Desired capacity  
2

Minimum capacity  
2

Maximum capacity  
5

Auto Scaling group name  
konservatif-asg

Date created  
Thu Oct 28 2021 22:05:22 GMT+0700 (Western Indonesia Time)

Amazon Resource Name (ARN)  
arn:aws:autoscaling:ap-southeast-1:643549573960:autoScalingGroup:de3905d2-97b2-4208-9870-d6f7ab3e12fb:autoScalingGroupName/konservatif-asg

## Target Tracking Policy

Policy type:

Target tracking scaling

Enabled or disabled?

Enabled

Execute policy when:

As required to maintain Average CPU utilization at 80

Take the action:

Add or remove capacity units as required

Instances need:

300 seconds to warm up before including in metric

Scale in:

Enabled



# **AUTO SCALING GROUP CLOUDWATCH**

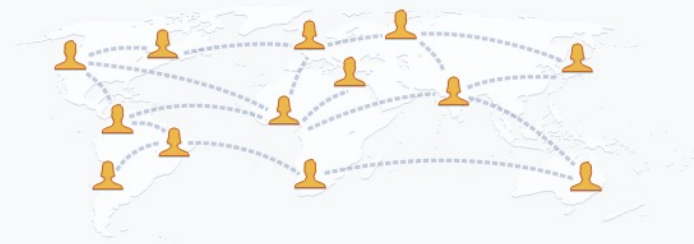


# Selamat datang di Pesbuk

Bergabunglah bersama jutaan orang lainnya...

Masuk

Daftar



# PROVISIONING ELASTIC BEANSTALK

Elastic Beanstalk > Environments > Landingpage-env-2

Landingpage-env-2


Landingpage-env-2.eba-vivpp9ne.ap-southeast-1.elasticbeanstalk.com (e-ihyisnpps)

Application name: landing-page

Refresh

Actions

Health



Ok


Causes

Running version

landing-page-source-2

Upload and deploy

Platform



Tomcat 8.5 with Corretto 11 running on 64bit Amazon Linux 2/4.2.7

Change

Recent events

Show all

< 1 >

Time	Type	Details
2021-10-29 00:13:52 UTC+0700	INFO	Environment health has transitioned from Pending to Ok. Initialization completed 17 seconds ago and took 2 minutes.
2021-10-29 00:13:11 UTC+0700	INFO	Successfully launched environment: Landingpage-env-2
2021-10-29 00:13:10 UTC+0700	INFO	Application available at Landingpage-env-2.eba-vivpp9ne.ap-southeast-1.elasticbeanstalk.com.
2021-10-29 00:12:52 UTC+0700	INFO	Added instance [i-016bece89b96a9187] to your environment.
2021-10-29 00:12:38 UTC+0700	INFO	Instance deployment completed successfully.

<input type="checkbox"/>	Record name	Type	Routin...	Differ...	Value/Route traffic to	
<input type="checkbox"/>	welcome.konservatif.xyz	A	Simple	-	landingpage-env-2.eba-vivpp9ne.ap-southeast-1.elasticbeanstalk.com.	

TEKKADAN

[ABOUT](#)[SERVICES](#)[PORTFOLIO](#)[CONTACT](#)

# BUAT APLIKASI IMPIANMU BERSAMA KAMI

Tekkadan merupakan sebuah startup software developent yang menyediakan pembuatan website beserta sistem yang terintegrasi dengan Cloud Platfrom AWS

[TEMUKAN LEBIH BANYAK](#)



**Thank You!**