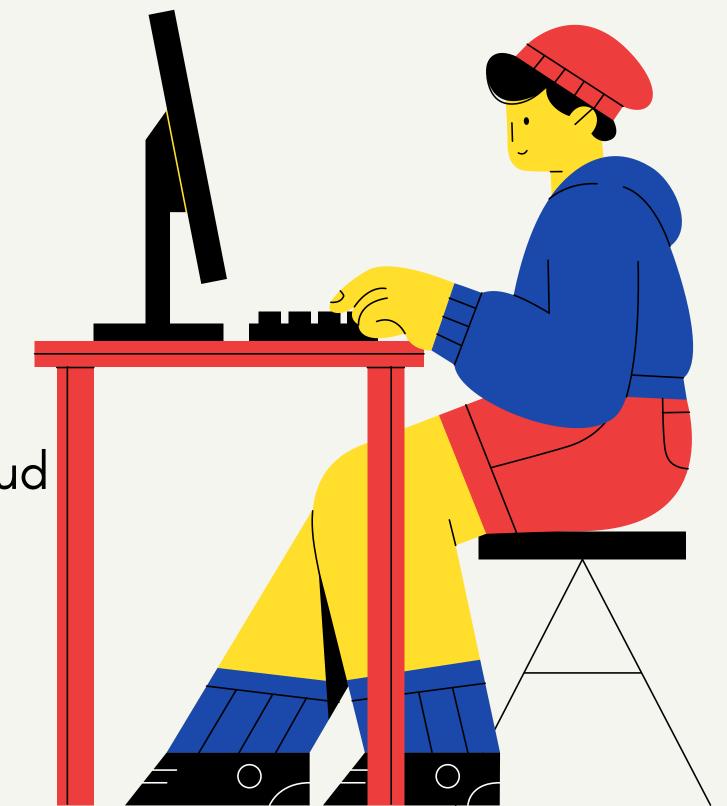
(>

Small Project 2

Membangun Infrastruktur Berbasis Cloud

by FAISAL





>

Background

Overview of the project

Sebuah perusahaan 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. Akhirnya, perusahaan tersebut akan melakukan migrasi dari server on premises yang mereka miliki menjadi sistem cloud karena kebutuhan pengguna yang sangat meningkat.





(**>**

Requirement of the Project

VPC & 3 AZ

Menentukan region, dimana tempat project akan dibangun, beserta VPC, konfigurasi IP dan routing nya

EC2

Menggunakan service AWS yakni EC2 sebagai instance/VM server aplikasi.

RDS

Menentukan service database yang akan digunakan, seperti MySQL, dan jumlah instancenya

— 03

S3

Menggunakan service S3 sebagai object storage untuk menyimpan file aplikasi

Auto Scaling & LB

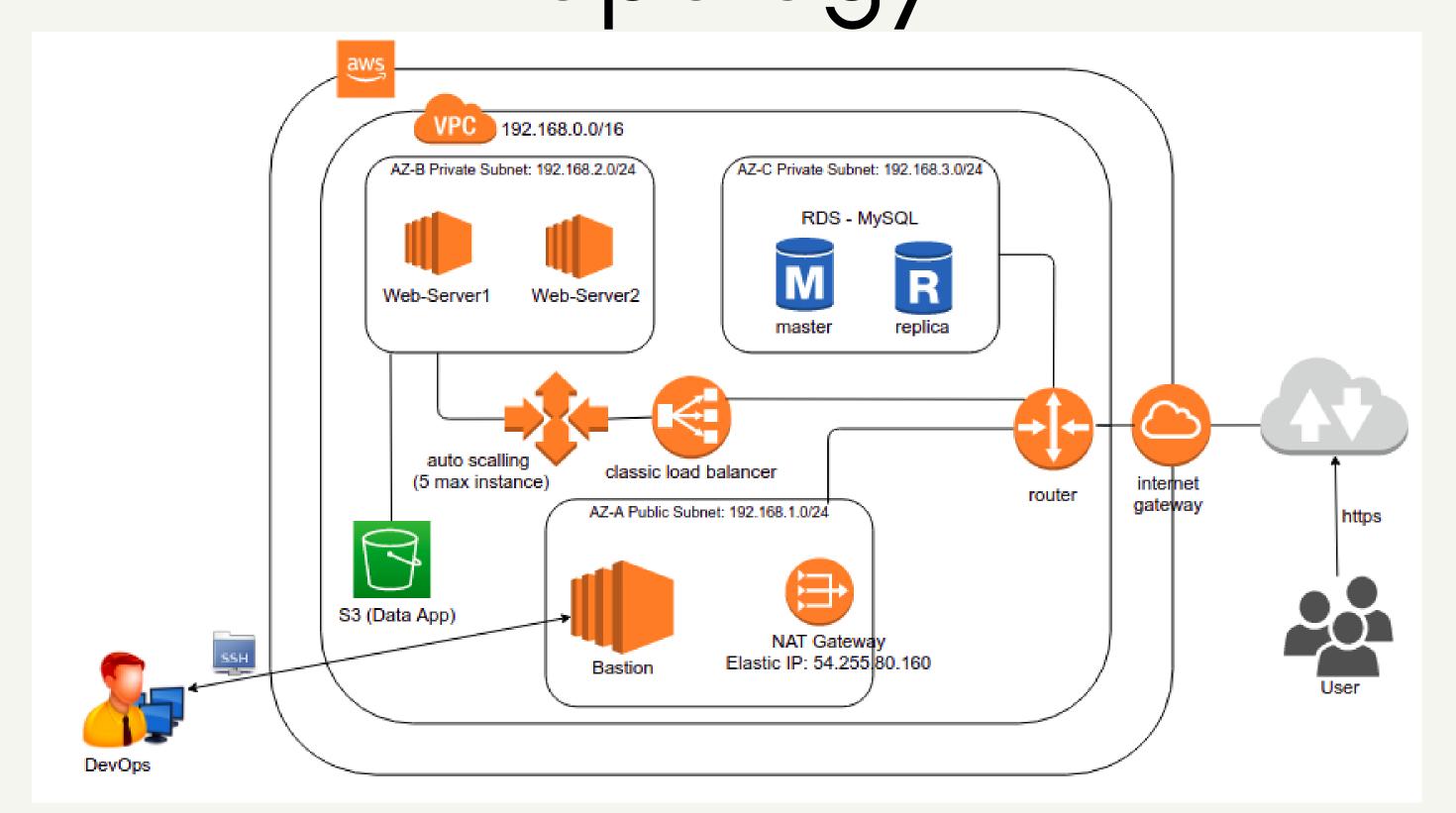
Agar aplikasi yang dibangun High Availability maka perlu diterapkan Auto Scaling & Load Balancer

Domain & SSL

Menentukan nama domain dari aplikasi yang dibangun serta diterapkan SSL sebagai protokol keamanan terenskripsi



Cloud Infrastuctur Topology



<u>></u>



Cost Budget

Budget details Edit

Name

Gawai Studio Project Budget

Period

Monthly

Start Date

Feb 1, 2021

End Date

Mar 1, 2021

Budgeted amount

\$200

Advanced Options

Aggregate costs by: Unblended costs

Include costs related to: Taxes, Support charges, Other subscription costs, Recurring reservation charges, Upfront reservation fees, Discounts

Exclude costs related to: Credits, Refunds

Thresholds

Edit

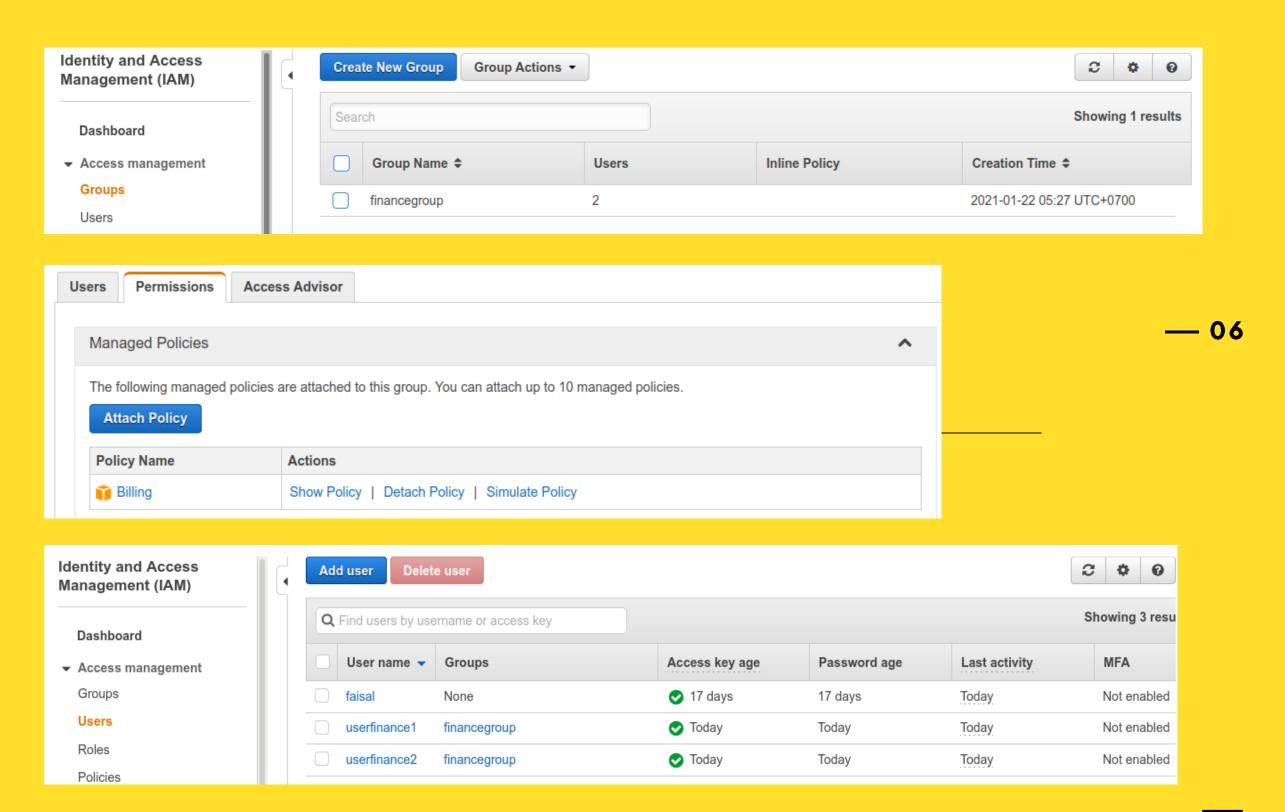
Threshold 1 - Actual cost is greater than 80% (\$160.00) | 1 email recipients

Threshold 2 - Forecasted cost is greater than 80% (\$160.00) | 1 email recipients

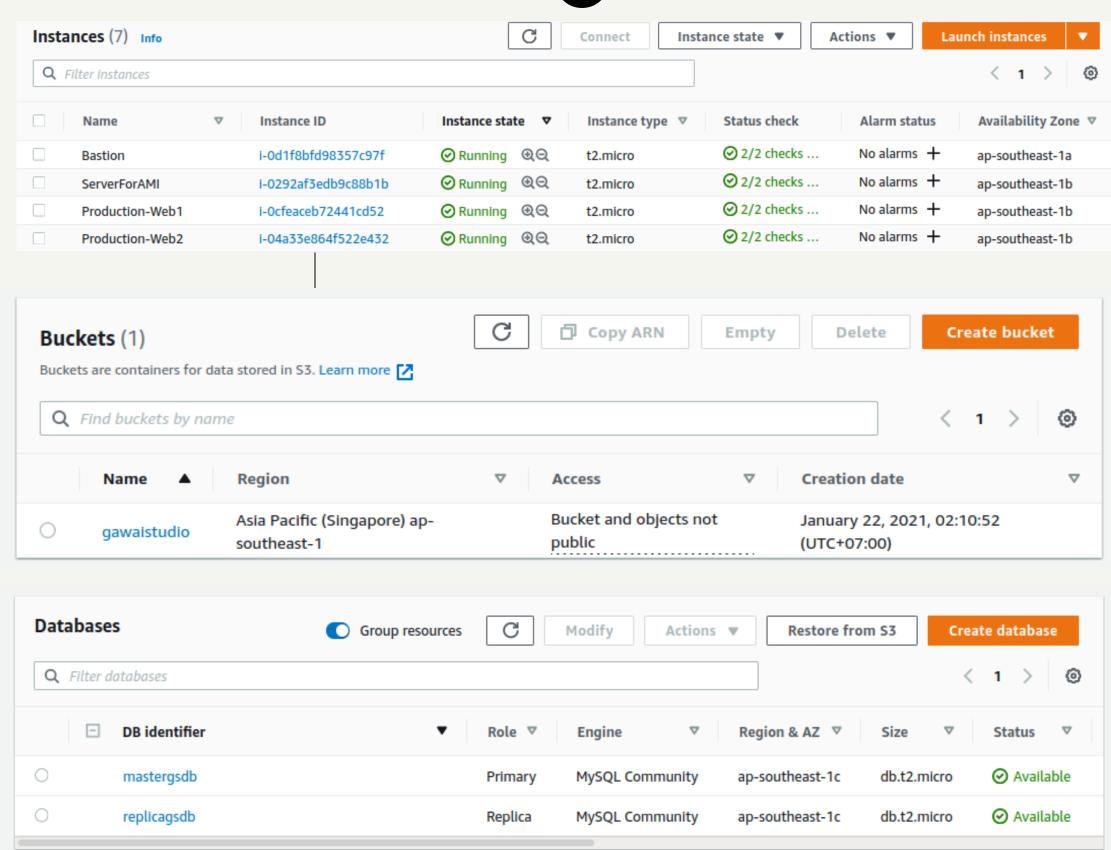
| Services | Туре | Estimate (per month) | Count | Total (USD) |
|-----------------------------|--|----------------------|-------|-------------|
| EC2 | t2.micro, Memory 1GB , vCPUs 1 | 2,117 | 2 | 4,234 |
| Elastic Block Storage (EBS) | SSD 20GB | 3,6 | 2 | 7,2 |
| S3 | S3 Standard 10GB, with calculate data transfer 100GB | 17,53 | 1 | 17,53 |
| RDS For MySQL | db.t3.micro, Memory 1GB, vCPUs2 | 19,105 | 2 | 38,21 |
| NAT Gateway | 10GB data process per month | 43,66 | 1 | 43,66 |
| | | TOTAL (per month) | | 110,834 |

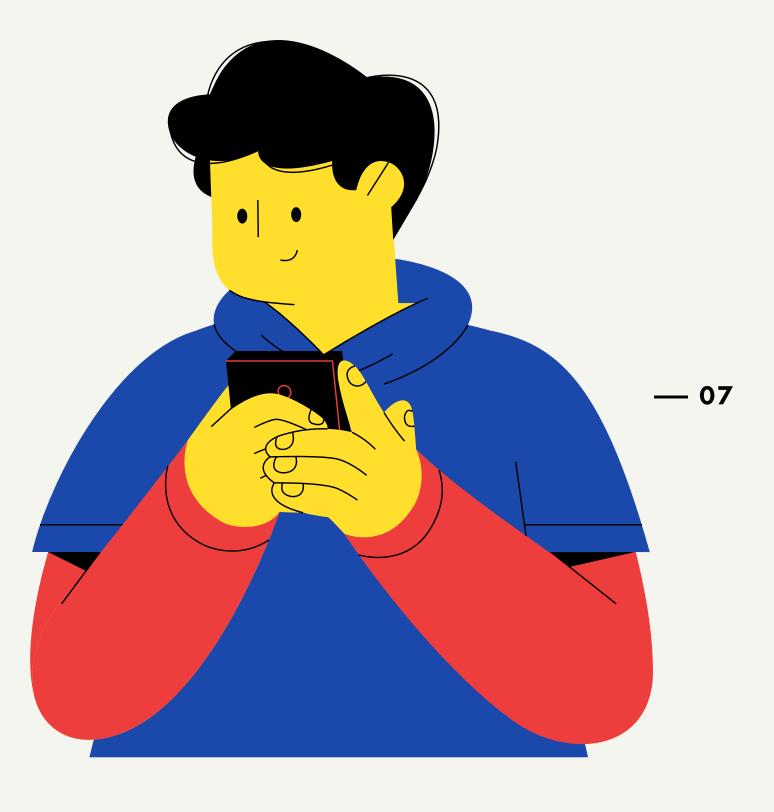


IAM User
For Finance



Provisioning

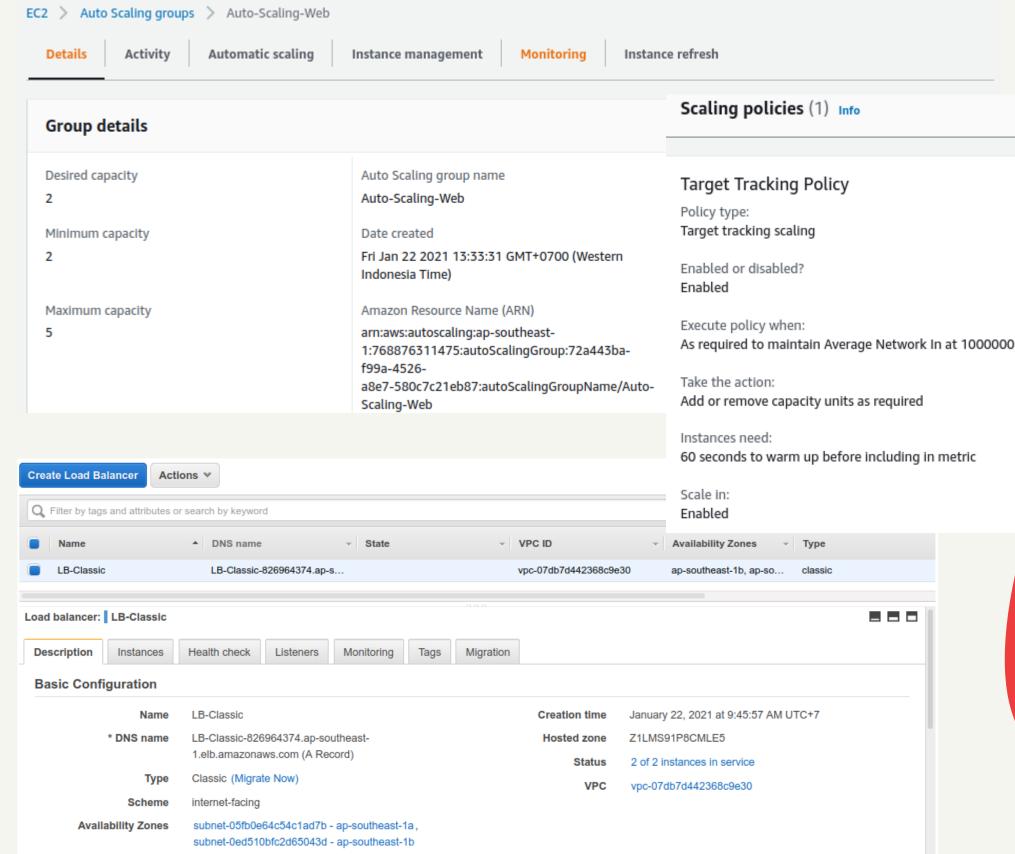


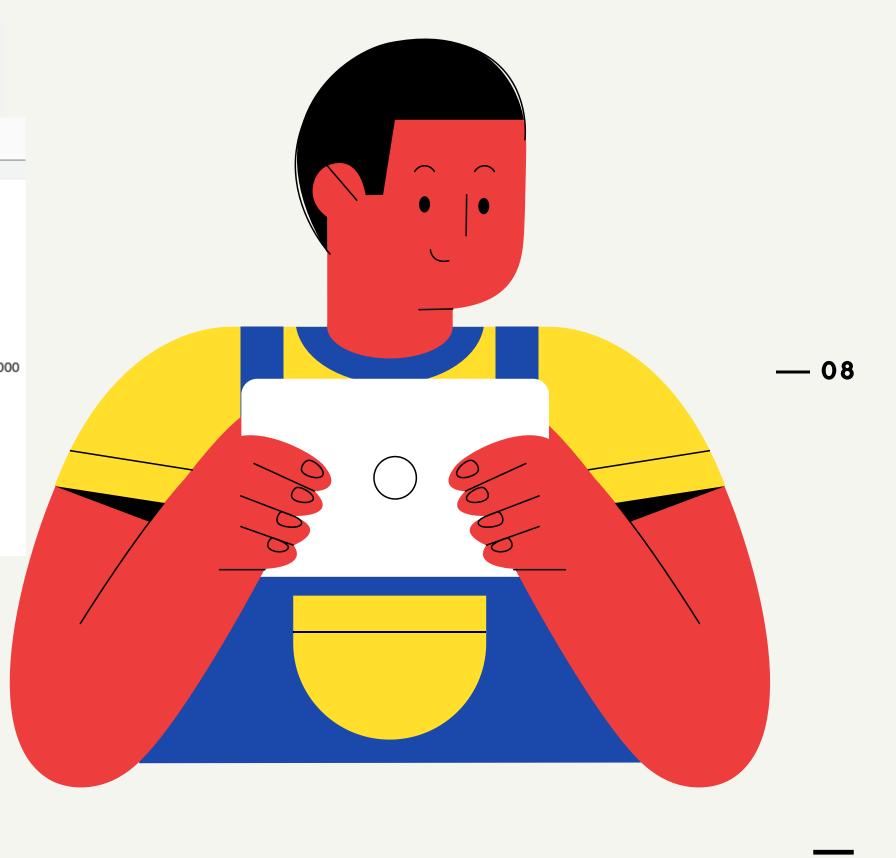




Auto Scaling & ELB

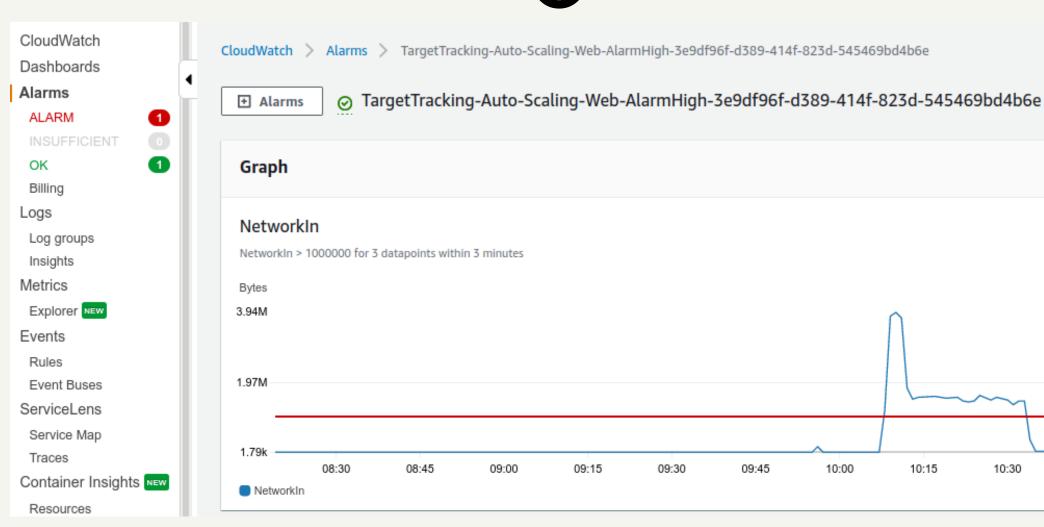


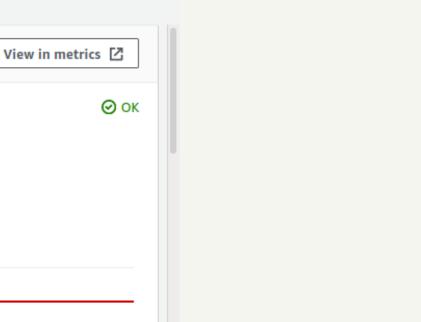




Monitoring Cloudwatch







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11:00

10:45

Actions ▼

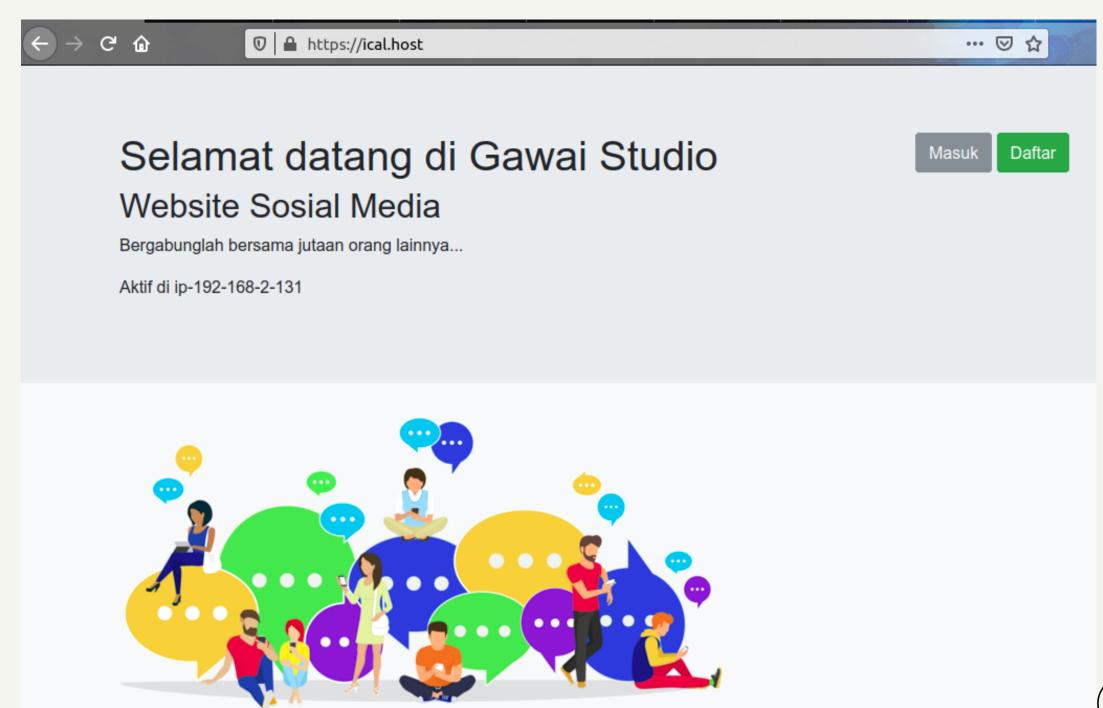
11:15





Result











Thank You!

FAISAL

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