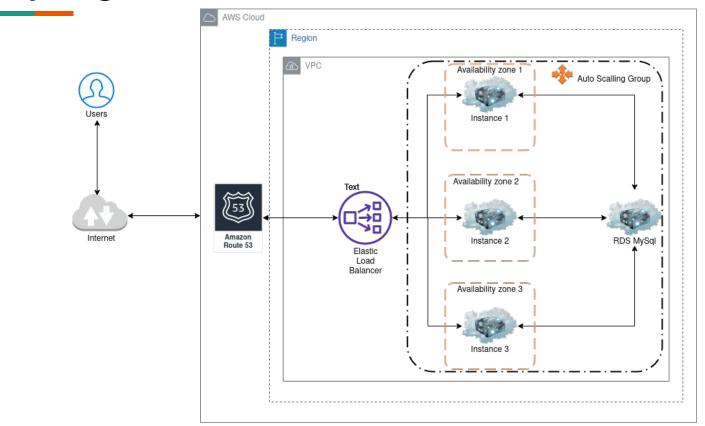
Small Project 2 Membangun Infrastruktur Berbasis Cloud

By Tresna Indra Raspati

Background & Goal

Perusahaan Gawai studio sedserverang mengalami peningkatan layanan, selama 5 tahun terakhir perusahaan hanya menggunakan layanan server on premises, sehingga akan melakukan migrasi ke sistem cloud, karena penggunaan yang meningkat. Kita akan membuat infrastruktur berbasis cloud sesuai requirement yang diperlukan.

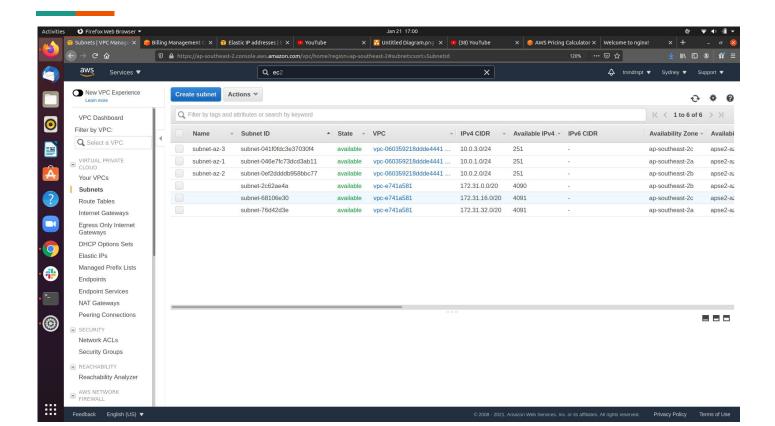
Topologi Infrastruktur Cloud



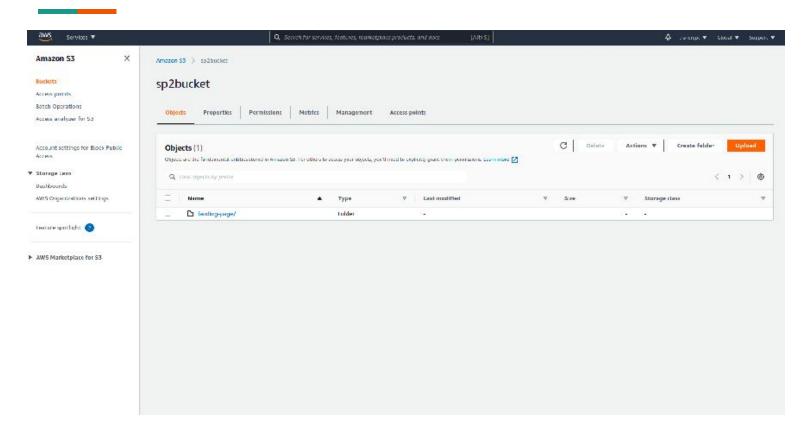
Budgeting

SERVICE	Specifications	Price/Month
Amazon EC2	Operating system (Linux), Quantity (1), Pricing strategy (EC2 Instance Savings Plans 1 Year No Upfront), Storage amount (30 GB), Instance type (r6g.medium)	26.21 USD
Amazon RDS for MySQL	Quantity (1), Pricing strategy (Standard Reserved Instances 1 Year No Upfront), Storage for each RDS instance (General Purpose SSD (gp2)), Storage amount (30 GB), Instance type (db.t3.micro)	19.11 <u>USD</u>
Amazon Elastic IP	Number of EC2 instances (3), Number of EIPs per instance (3)	21.90 USD
Elastic Load Balancing	Number of Classic Load Balancers (1), Processed bytes per CLB (3 GB per hour)	37.96 USD
Amazon Route 53	Hosted Zones (1)	52.20 USD

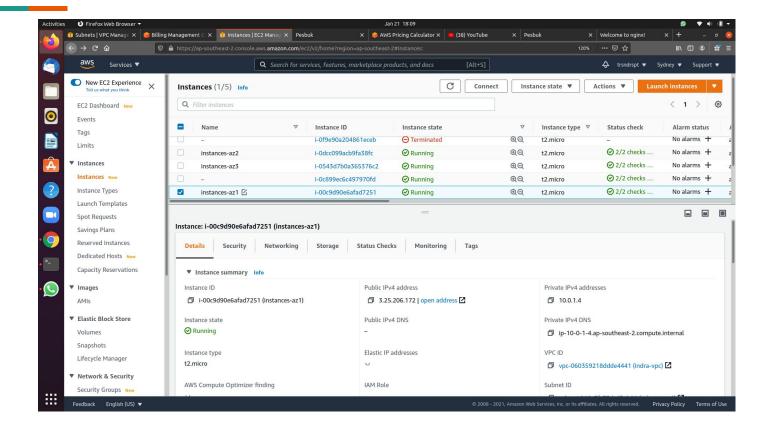
VPC



Bucket S3 & Landing Page



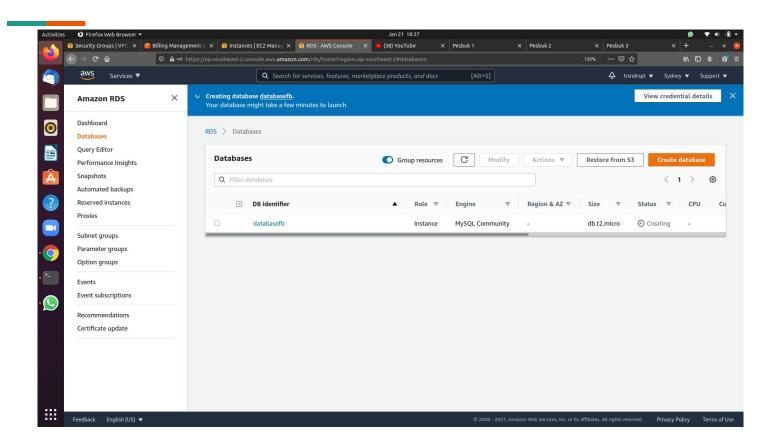
Instance



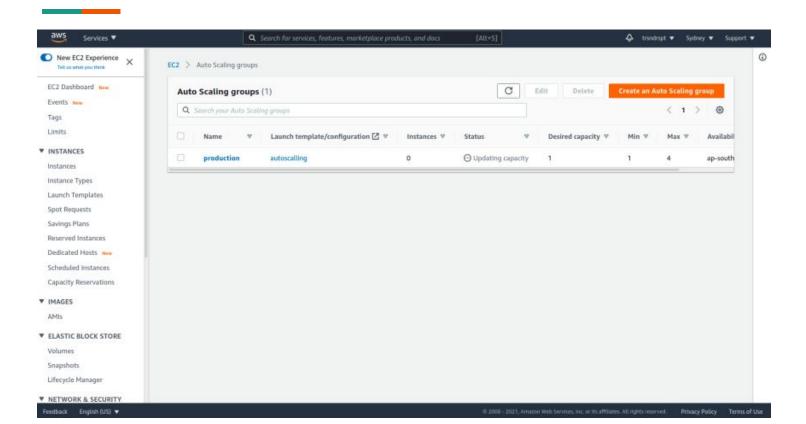
Mounting S3

```
25 packages can be updated.
0 updates are security updates.
New release '20.04.1 LTS' available.
Run 'do-release-upgrade' to upgrade to it.
*** System restart required ***
Last login: Thu Jan 21 10:43:37 2021 from 180.245.107.48
ubuntu@ip-10-0-2-86:~$ sudo apt-get install s3fs
Reading package lists... Done
Building dependency tree
Reading state information... Done
The following NEW packages will be installed:
  s3fs
0 upgraded, 1 newly installed, 0 to remove and 25 not upgraded.
Need to get 200 kB of archives.
After this operation, 557 kB of additional disk space will be used.
Get:1 http://ap-southeast-2.ec2.archive.ubuntu.com/ubuntu bionic/universe amd64 s3fs amd64 1.82-1 [200 kB]
Fetched 200 kB in 0s (16.2 MB/s)
Selecting previously unselected package s3fs.
(Reading database ... 85879 files and directories currently installed.)
Preparing to unpack .../archives/s3fs_1.82-1_amd64.deb ...
Unpacking s3fs (1.82-1) ...
Setting up s3fs (1.82-1) ...
Processing triggers for man-db (2.8.3-2ubuntu0.1) ...
ubuntu@ip-10-0-2-86:~$ echo AKIARKDIT5BH65IYQWXV:MrrcshGlH6BqA7TqM1iUcCQYCZ5ZmpY+XhvypFo0 > ~/.passwd-s3fs
ubuntu@ip-10-0-2-86:~$ chmod 600 .passwd-s3fs
ubuntu@ip-10-0-2-86:~$ sudo mkdir ~/buckets3
ubuntu@ip-10-0-2-86:~$ sudo s3fs s2bucket ~/buckets3/
```

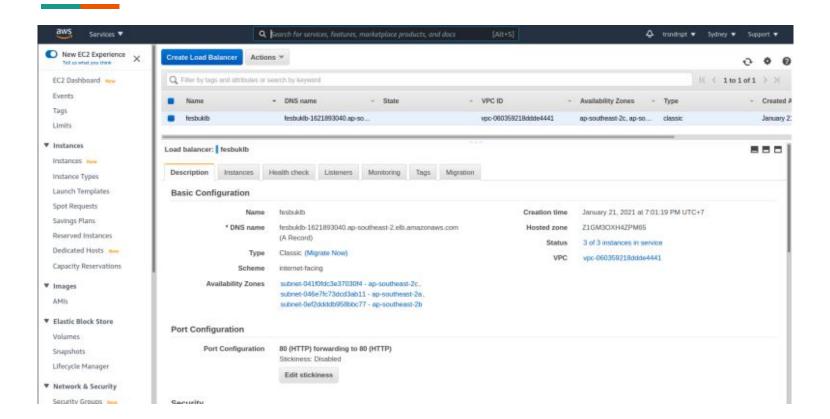
Database RDS



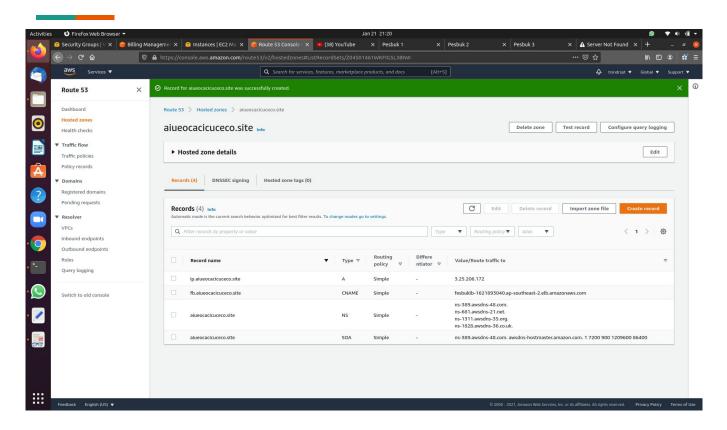
Auto Scalling

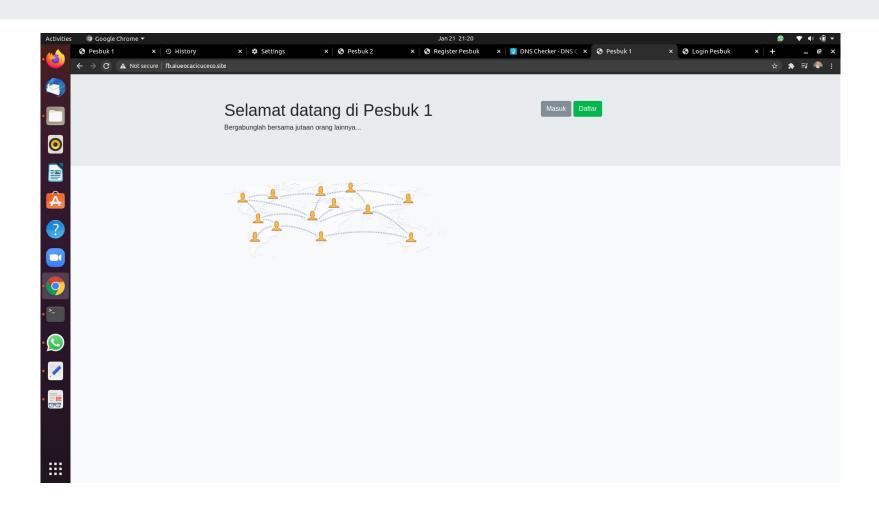


ELB Elastic Load Balancing

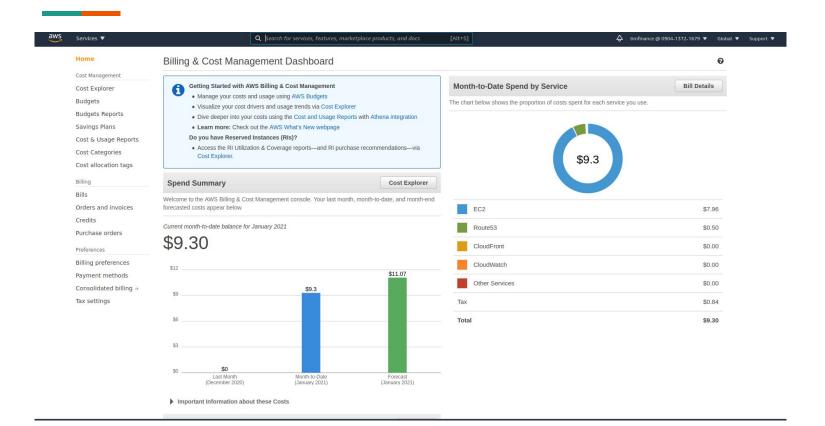


Route 53





Akun IAM



Terima Kasih

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Github: https://github.com/indrspt