

CAPSTONE PROJECT

Highly Scalable and Available Infrastructure on AWS

Who I am:

Samuel Tadrissi

“If you can think it, you can automate it!”

-- Coach Michael



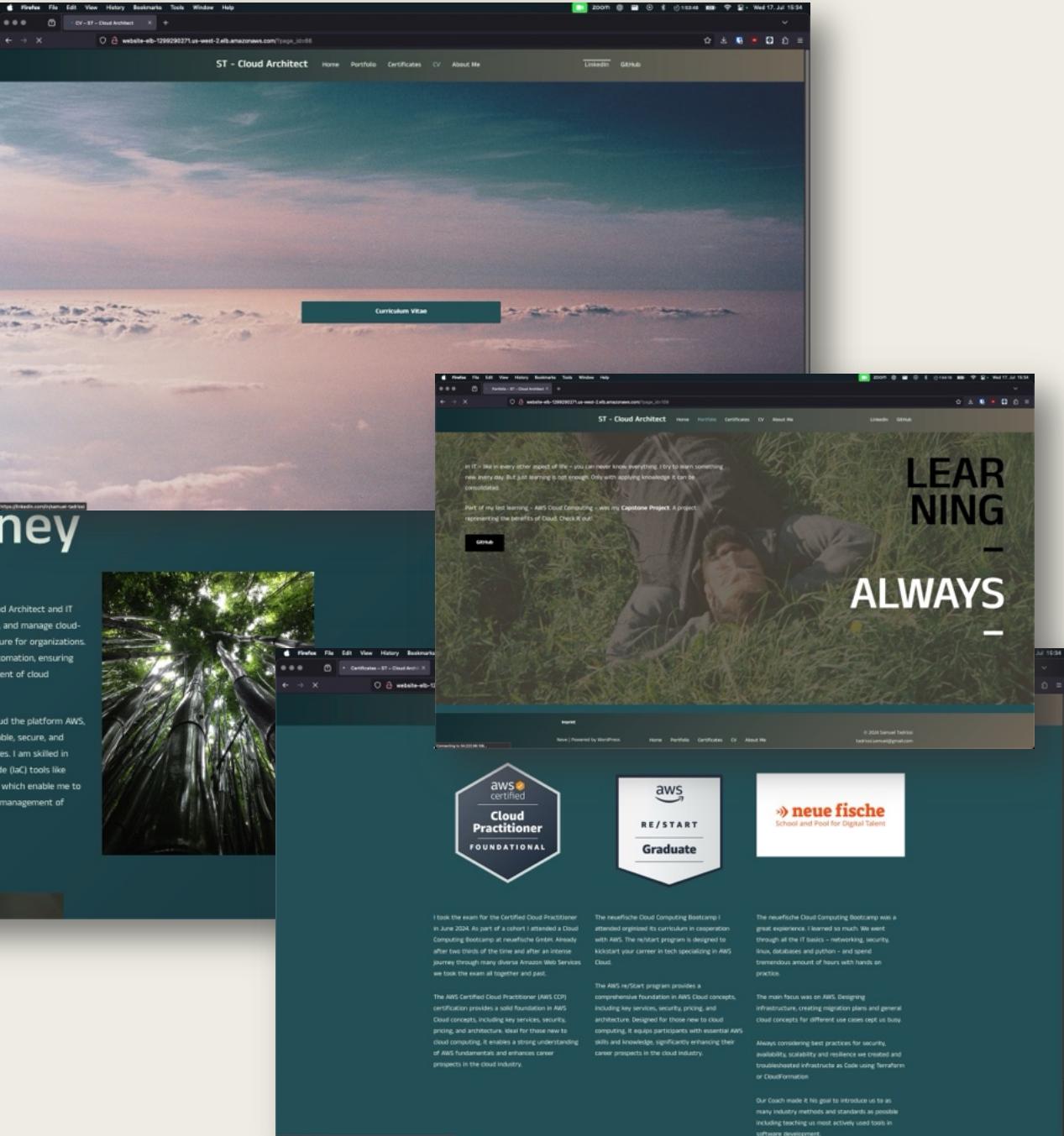
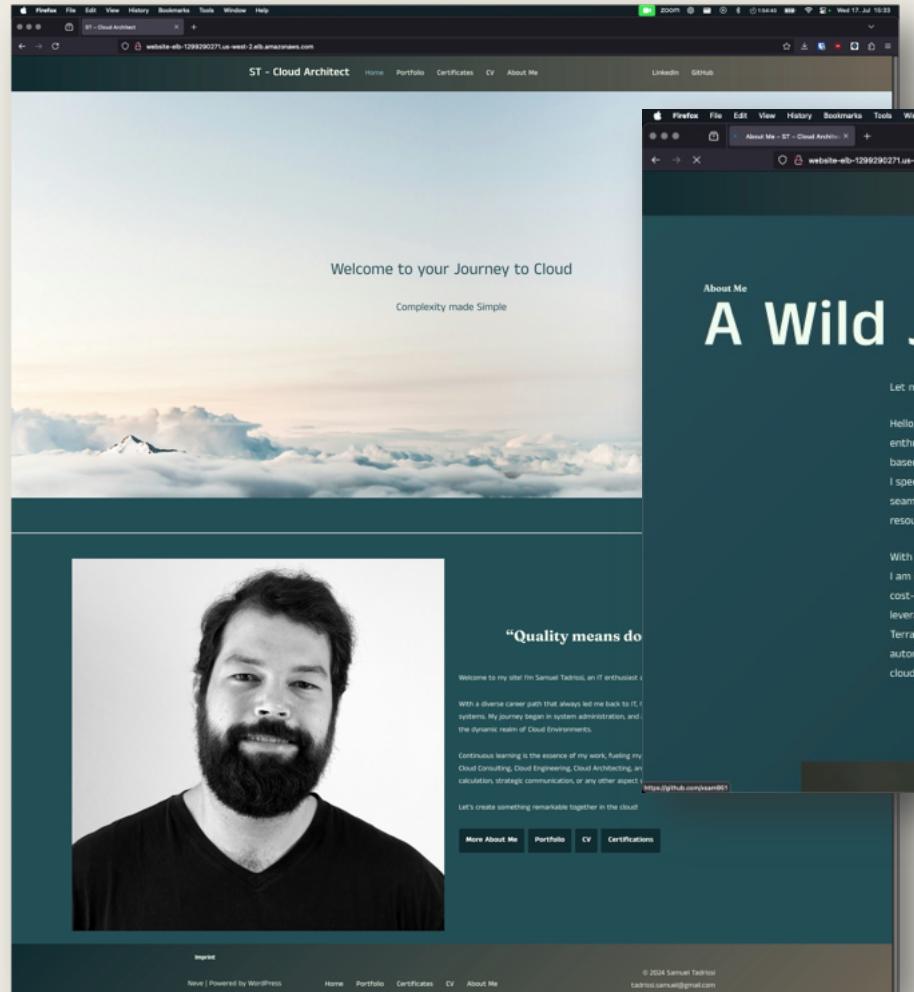
The Project

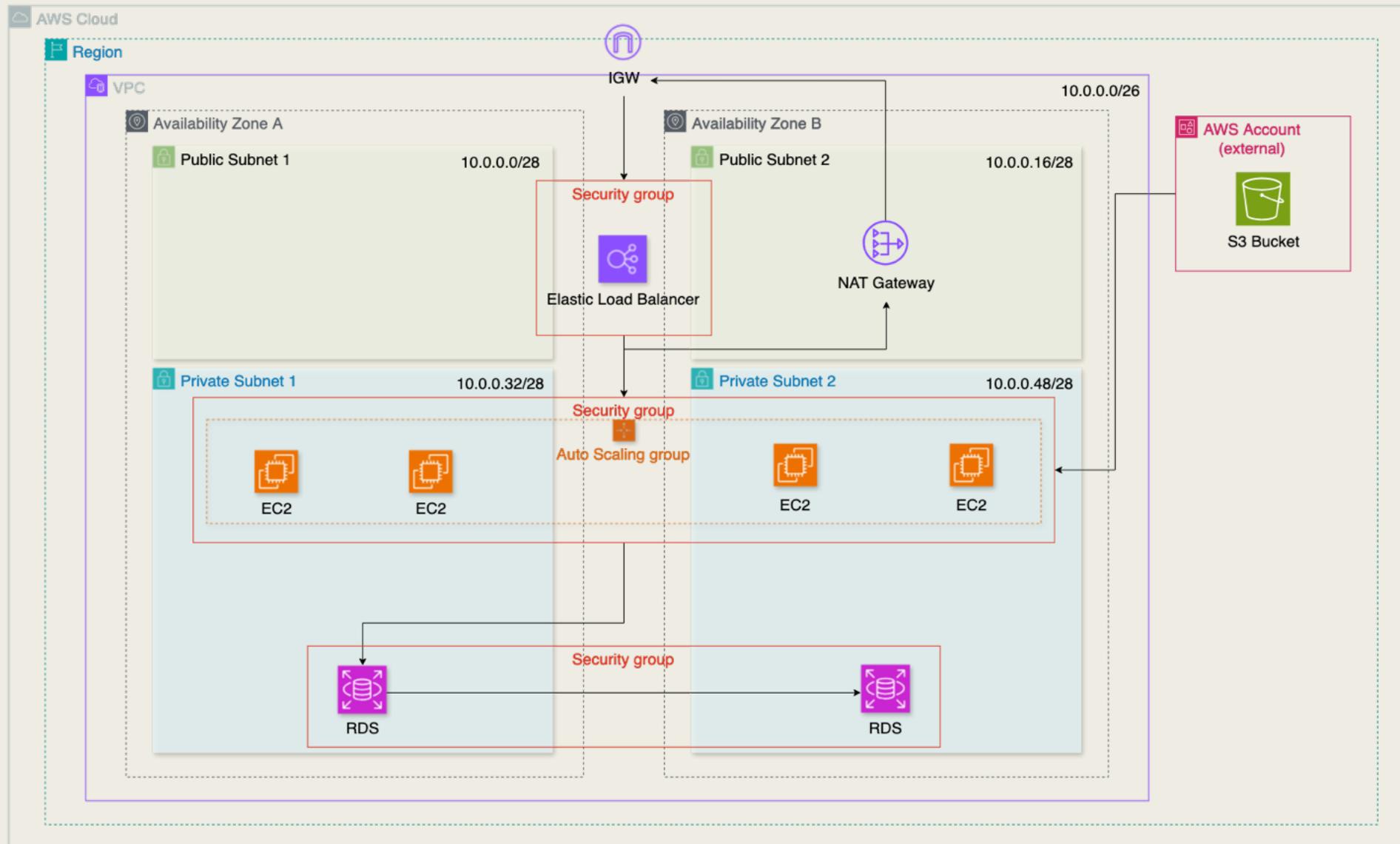
Agenda

1. Goal
2. Tools
3. Steps
4. Future improvements

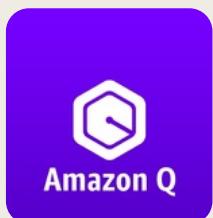


The Project

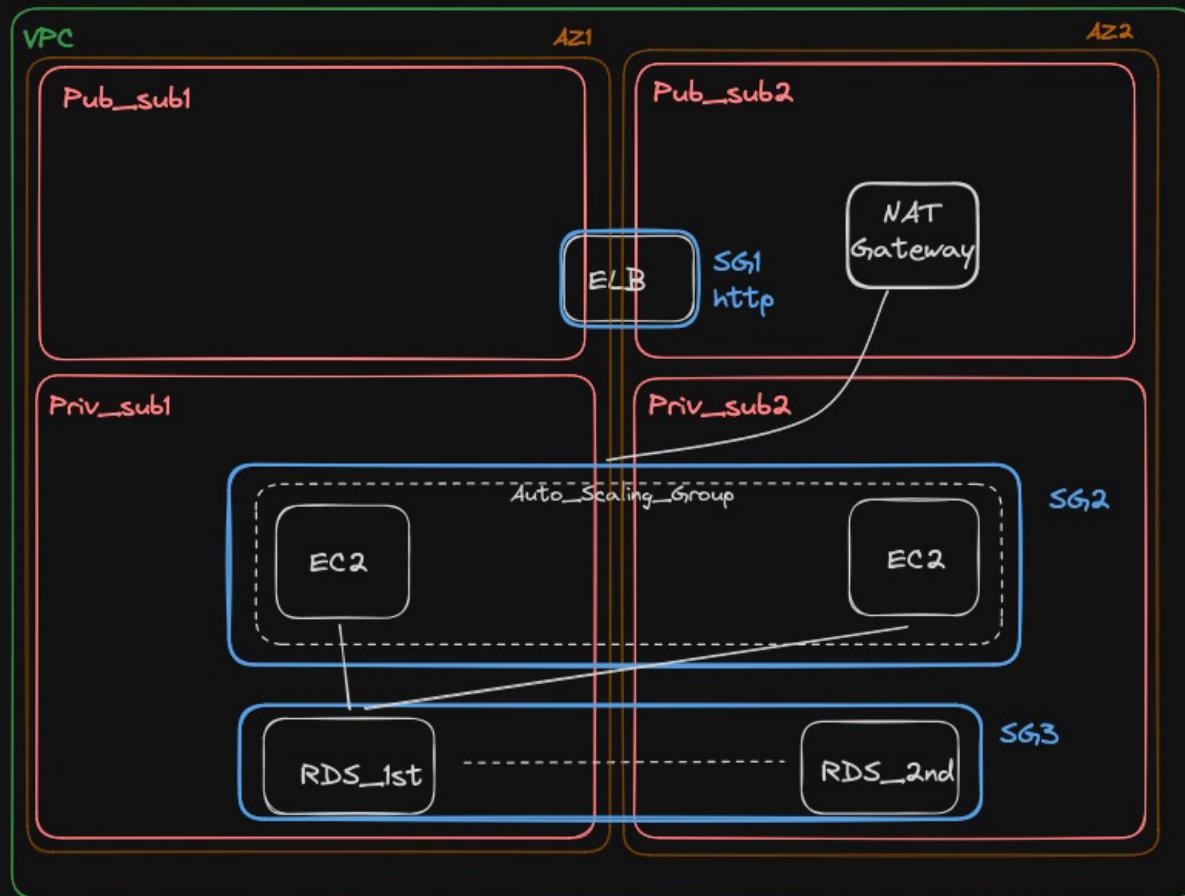




Tools:



GOAL



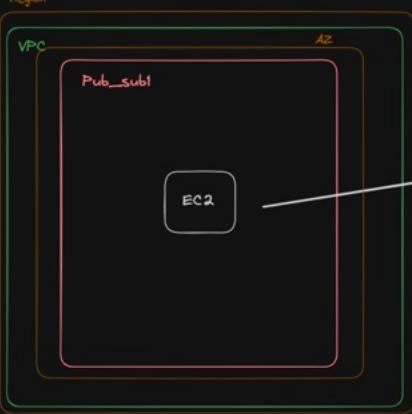
http: inbound: only from SG1
outbound: to NAT
ssh: only from SG4

mysql: only from SG2

Step 1

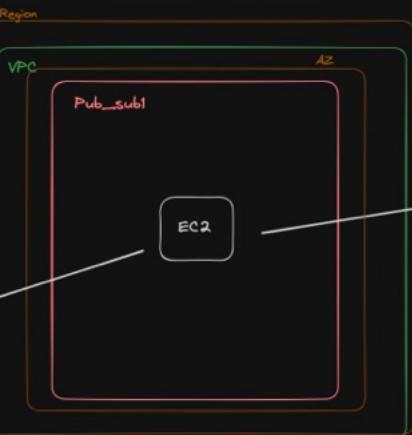


Step 2



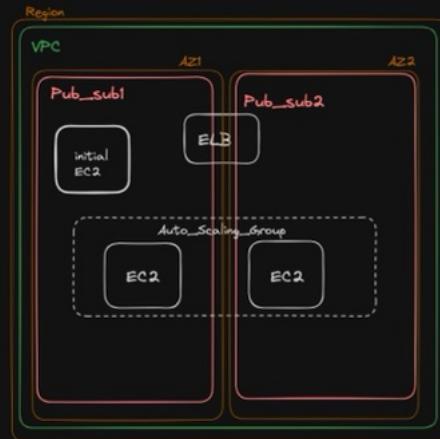
Create Website
and local Database

Step 3

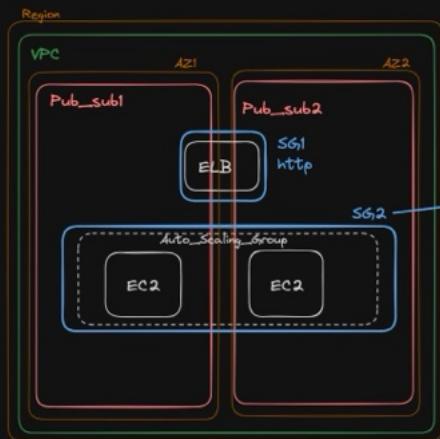


automate wordpress
deployment from s3

Step 4

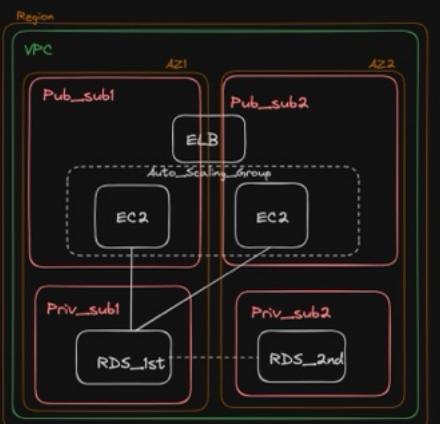


Step 5



http: only from SG1
ssh: only from myIP

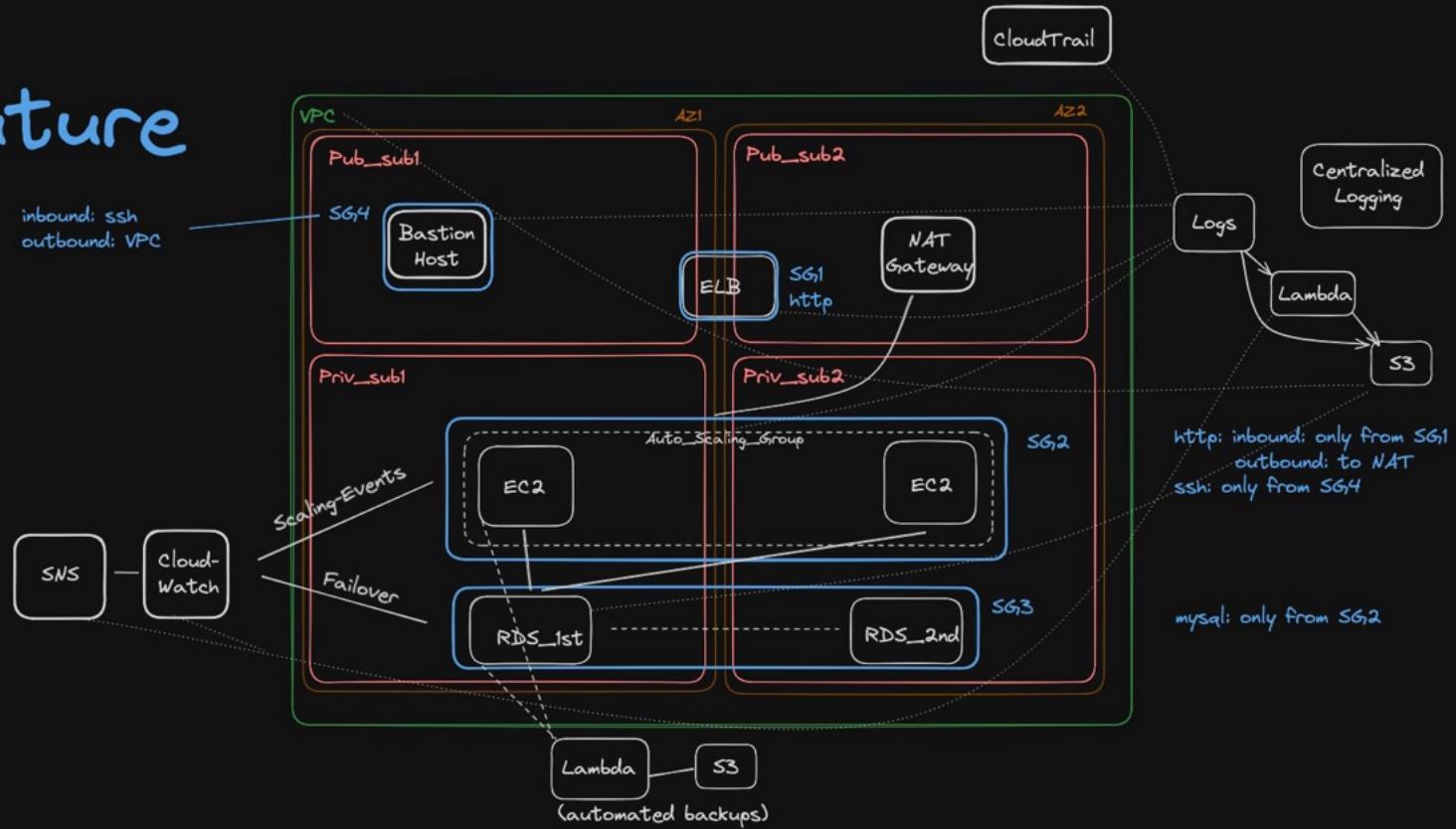
Step 6



Future improvements

- Performance
- Security
- Backup & Recovery
- New Services and Tools

Future



Cost Estimation

Assumed Conditions:

- 3 Page Views per Visit
- 100 Visits per Month
- 10 S3 Requests per Month
- average Web Page Size \approx 75KB

Costs for 3 a year contract (on demand):

monthly

53,80 \$ – 62,27 \$

Usage:

- all Services – 24/7
- Data processed monthly by
 - *ELB* \approx 0.0215
 - *NAT* \approx 0.0215
 - *S3* \approx 1GB

yearly

645,58 \$ – 747,19 \$

Thank You for your time and attention...



Project-Repo:

github.com/xsam951/capstone_deham14



LinkedIn:

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