



AWS+AIoT Platform Application Expert Course

(Korea Chamber of Commerce and Industry, Gwangju Human Resources Development Institute)

GOLDEN HUD

(I know the AWS billing details you used yesterday.)

November 3, 2025



Team: Billionaire

(Taeyun Kim, Seoyeon Son)

Presenter: Seoyeon Son



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••• Team Introduction

Team Name



“Manage your AWS bills like a pro
and let’s become cloud **BILLIONAIRES** together!”



TAEYUN KIM

- APP
- DEV
- CI & CD

Team Member



SEOYEON SON

- INFRA
- Presentation
- PT Document



Project Introduction

Golden HUD

- An app that displays daily usage and details for AWS account users.

Technology Stack



App

TypeScript

AWS Infra

Terraform, EKS

CI/CD

GitOps, Argo CD



Project Schedule

Task



AWS Infra
(Terraform, EKS)

App (TypeScript)

CI/CD
(GitOps, Argo CD)

Presentation
(PPT)

Timeline



10.27. Mon.

10.28. Tue.

10.29. Wed.

10.30. Thu.

10.31. Fri.

11.3. Mon.

Son



Kim



Kim



Son

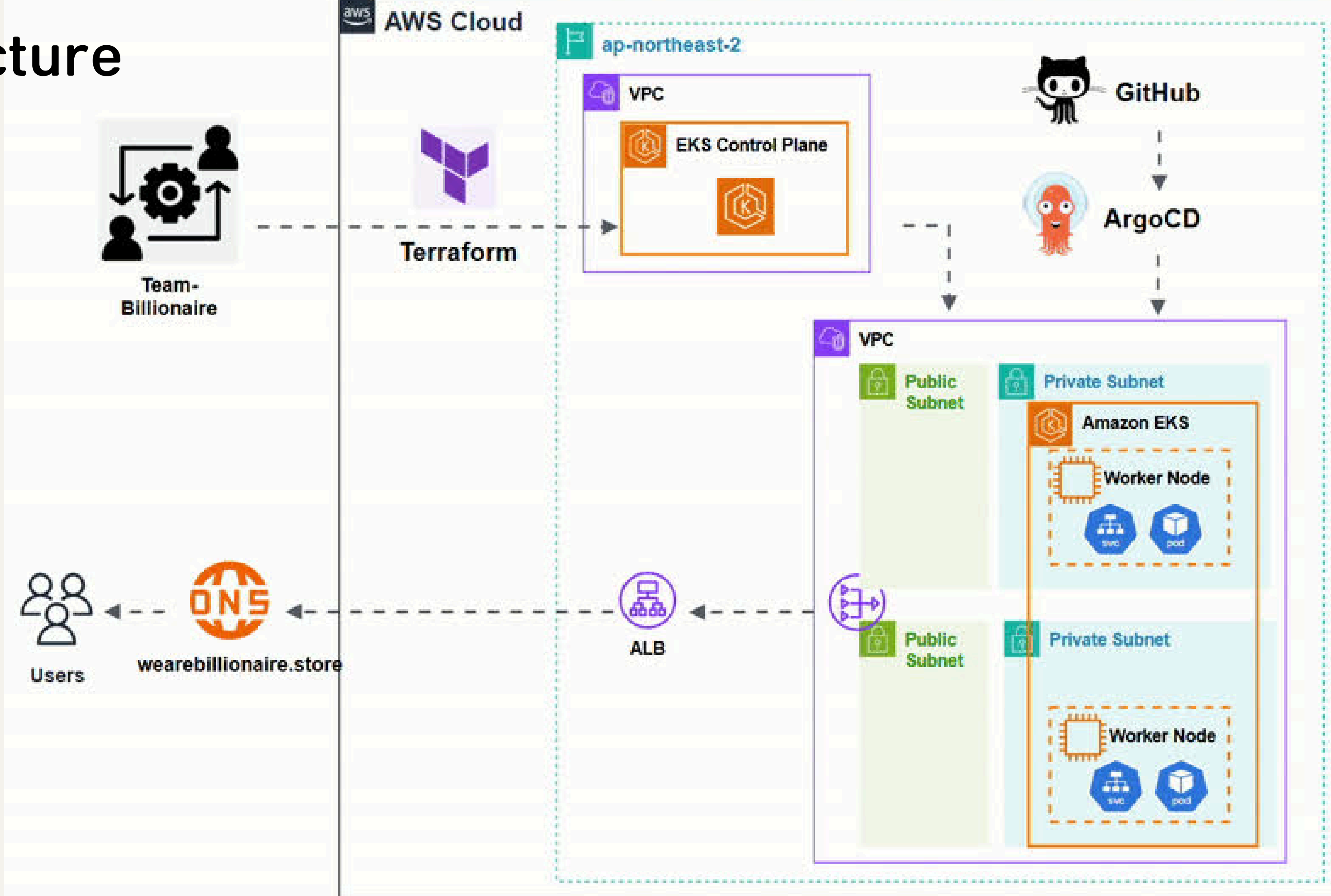


Presen-
-tation

Day

Architecture

- Total



... Architecture – Tree

```
infra/
├── envs/
│   ├── dev/
│   │   ├── backend.tf      # S3 backend (key: dev/terraform.tfstate), DynamoDB tf-lock
│   │   ├── providers.tf   # AWS provider (ap-northeast-2)
│   │   └── main.tf         # VPC(+NAT) + EKS(Node Group: On-demand/Spot)
│   ├── stg/
│   │   ├── backend.tf      # key: stg/terraform.tfstate
│   │   ├── providers.tf
│   │   └── main.tf
│   └── prod/
│       ├── backend.tf      # key: prod/terraform.tfstate
│       ├── providers.tf
│       └── main.tf
```

... Architecture – Tree (dev)

dev/

├── backend.tf

├── providers.tf

├── main.tf

└── .terraform\

 ├── modules\

 ├── eks\

 ├── eks.kms\

 └── vpc\

.github , docs, examples, modules, templates, test

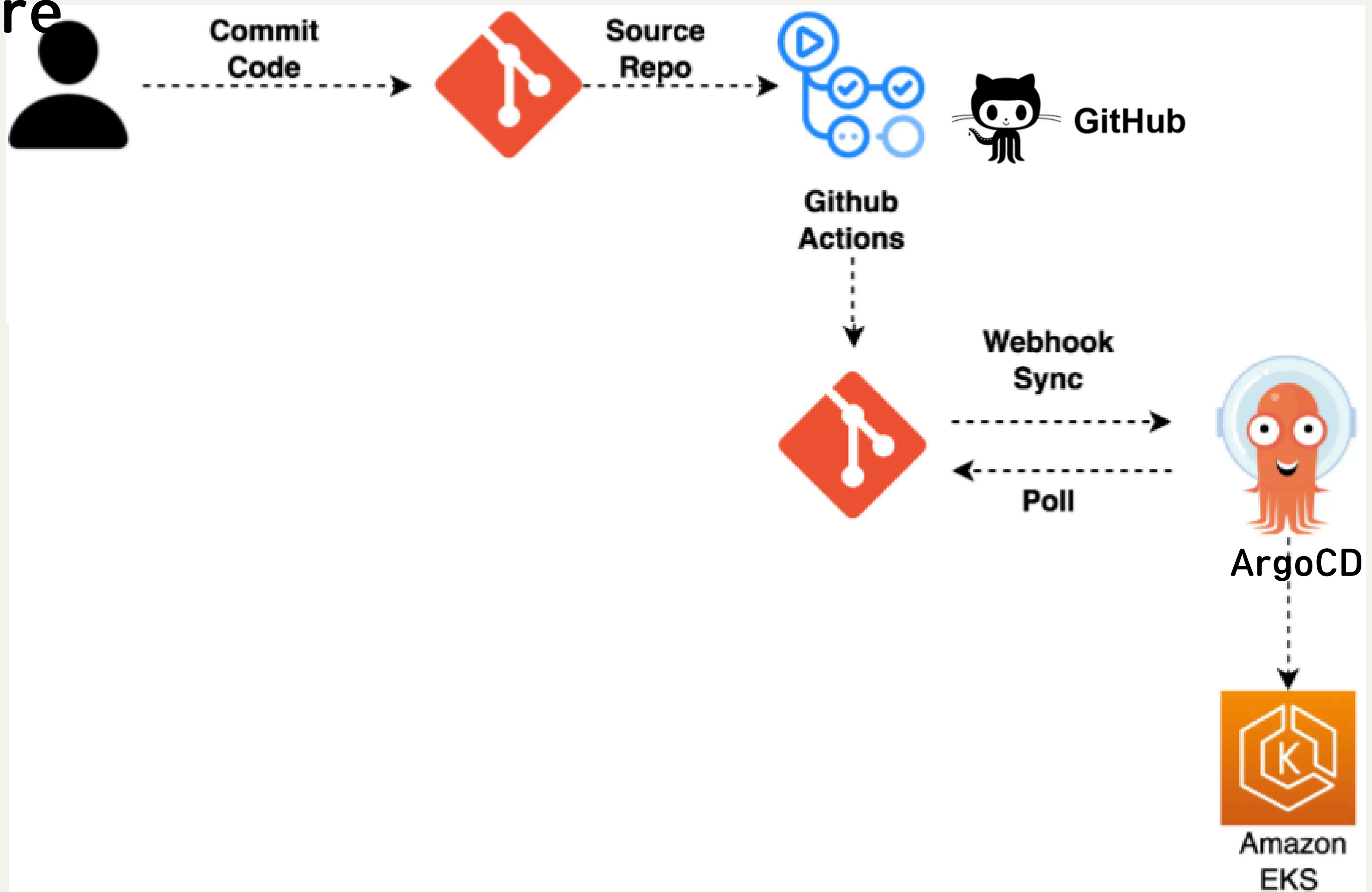
.github , examples

.github , examples, modules



Architecture

– CI/CD
Github,
ArgoCD



Argo CD

Manage Kubernetes deployments with Git and automatically reflect changes to the cluster. GitOps automation tools

Applications / golden-hud-dev

APPLICATION DETAILS TREE

DETAILS

DIFF

SYNC

SYNC STATUS

HISTORY AND ROLLBACK

DELETE

REFRESH

APP HEALTH

Healthy

SYNC STATUS

Synced

to main (2b5ddb4)

Auto sync is enabled.

Author: SuperTaeyun <155500196+SuperTaeyun@users.noreply.github.com>

Comment: Merge pull request #3 from SuperTaeyun/chore/golden-hud-dev-117026b golden-hud(dev): 117026b

LAST SYNC

Sync OK

to 2b5ddb4

Succeeded an hour ago (Thu Oct 30 2025 09:15:45 GMT+0900)

golden-hud-dev

ns

20 hours

golden-hud

SVC

20 hours

golden-hud

deploy

20 hours

rev:5

golden-hud

rs

an hour

rev:5

golden-hud

rs

17 hours

rev:4

golden-hud

rs

19 hours

rev:3

golden-hud

rs

20 hours

golden-hud

pod

100%

golden-hud

pod

... Architecture – APP TypeScript

1.

join the membership

2.

Create an IAM Role

Provided by the site
Using CloudFormation

4

Usage Inquiry

Created Role Usage

3.

verification

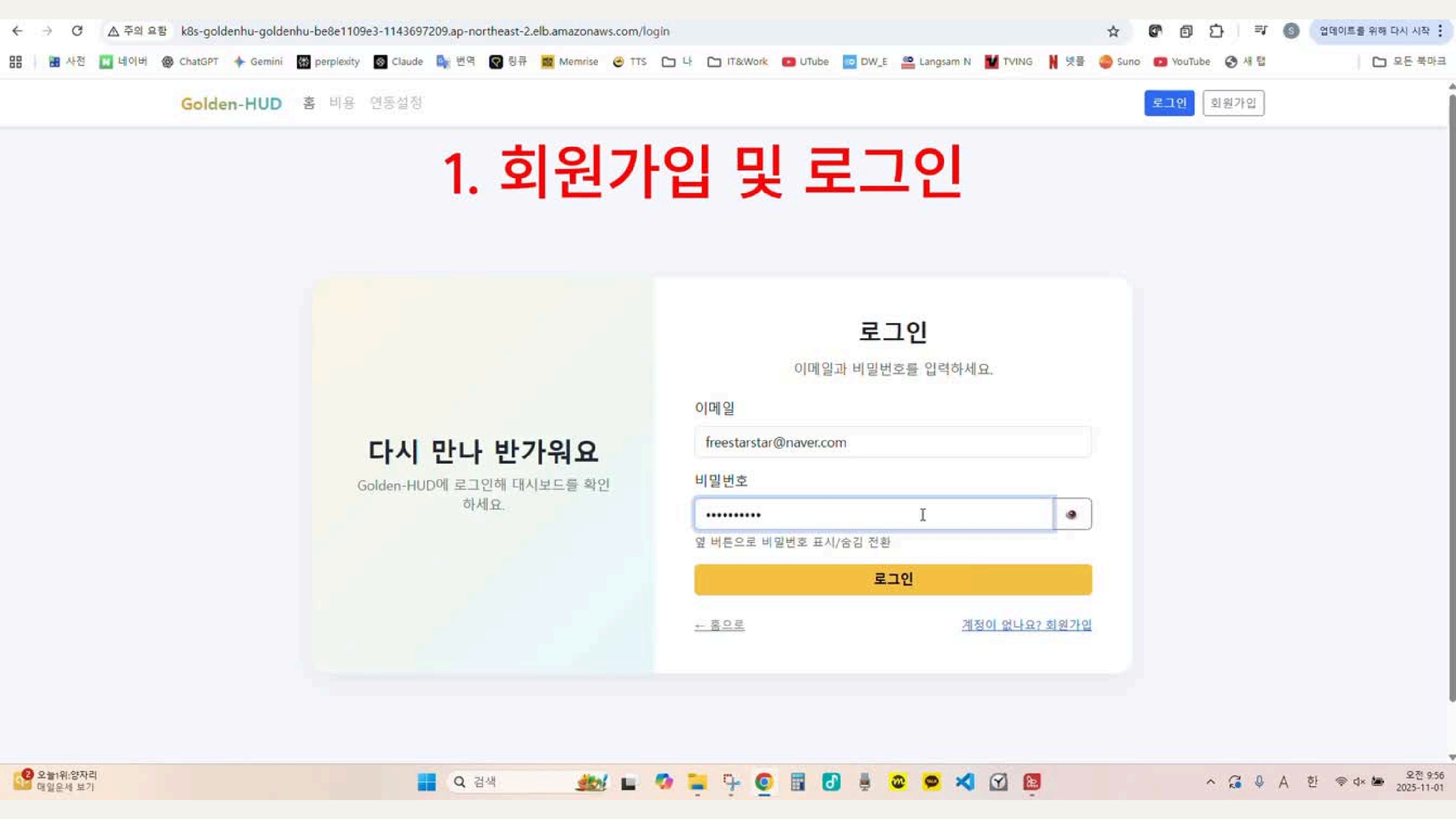
5.

Data display

... 시연

http://wearebillionaire.store

<http://wearebillionaire.store/>



1. 회원가입 및 로그인

다시 만나 반가워요

Golden-HUD에 로그인해 대시보드를 확인하세요.

로그인

이메일과 비밀번호를 입력하세요.

이메일

freestarstar@naver.com

비밀번호

.....

옆 버튼으로 비밀번호 표시/숨김 전환

로그인

[← 홈으로](#)

[계정이 없나요? 회원가입](#)

Limitations & Development Direction

1

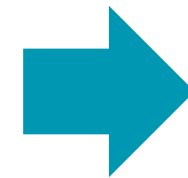
Overcoming project time



constraints through division of labor
and teamwork

2

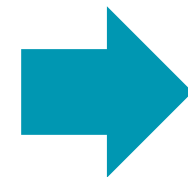
Problems caused by a mismatch between
development and operating environments



Role Assume setting

3

Cost issues (excessive AWS costs)



Some clusters are being reorganized
through consultation.



Q & A

...

Thank You

