Review

Topics

Review repository structure
Branching
Tasks
Deployment

Structure

Frontend

Backend

Database

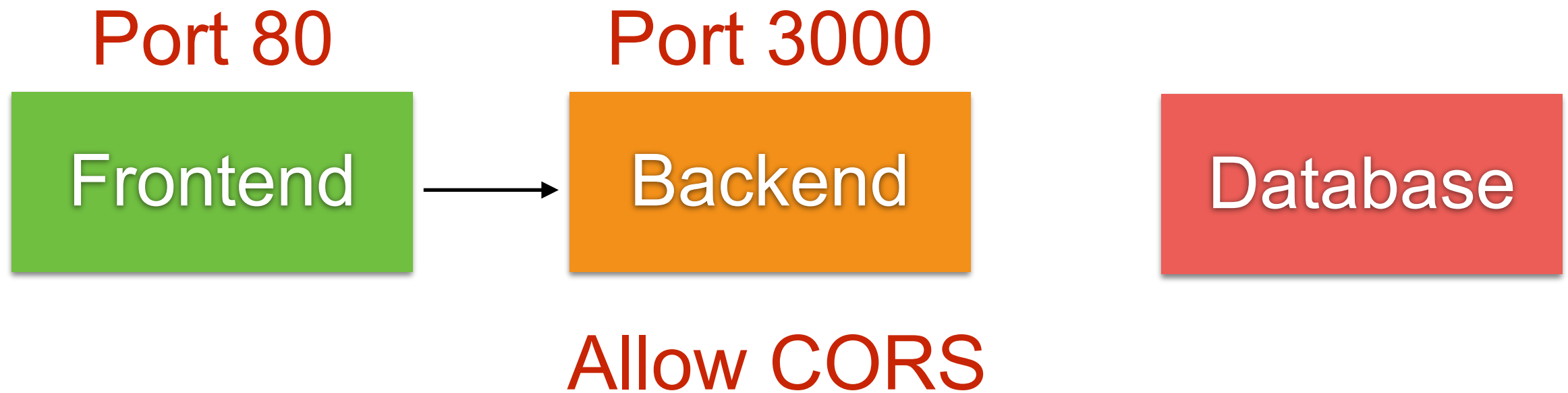# Issue !!
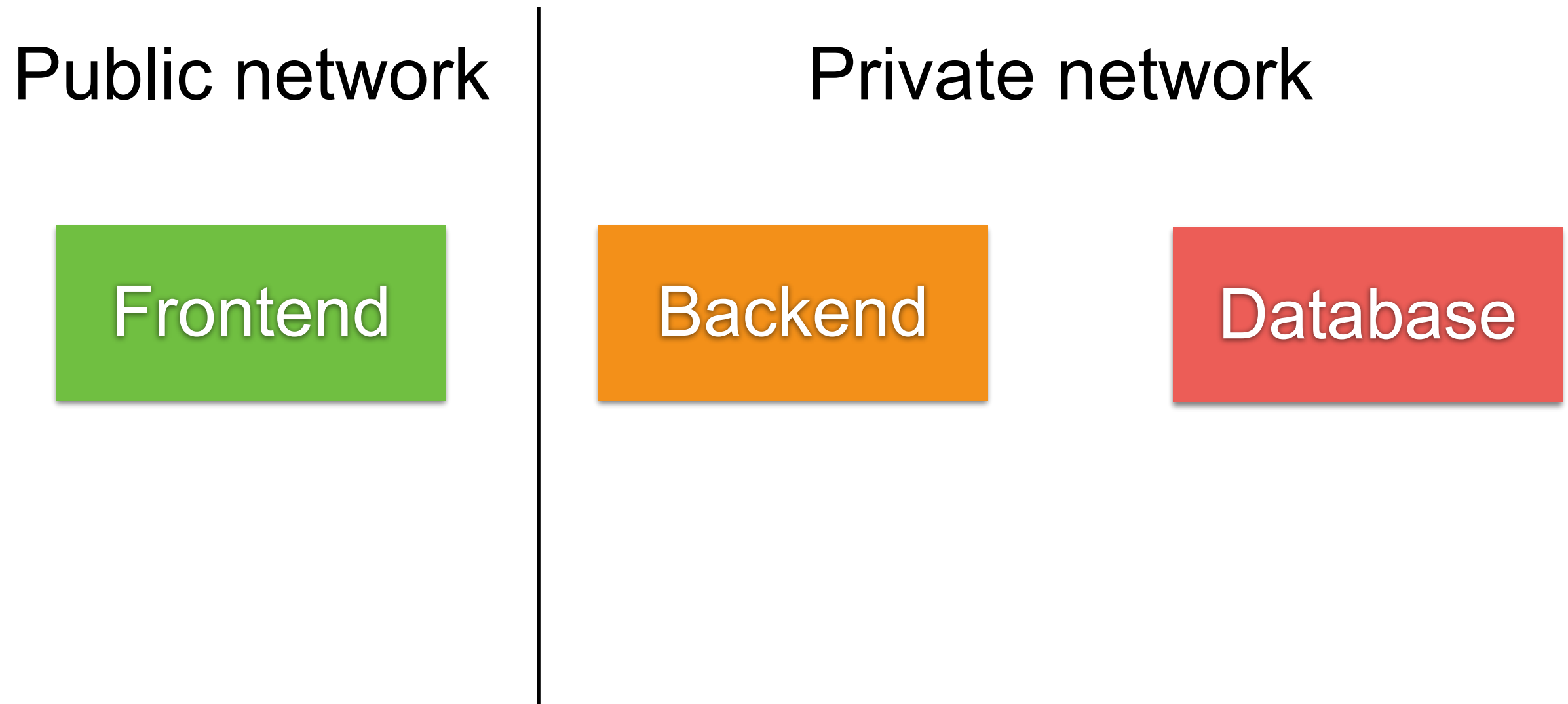

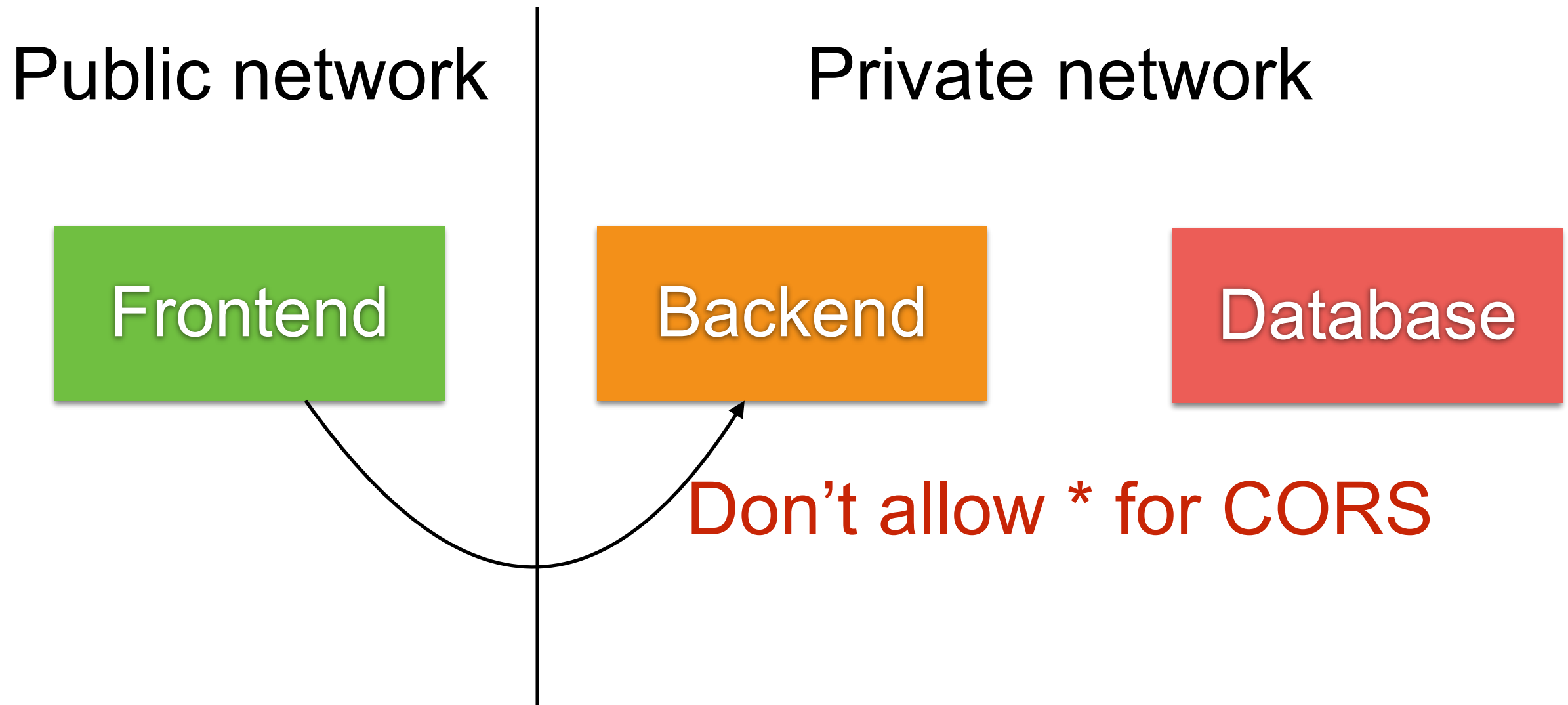Frontend → Backend   Database

localhost !!

Issue !!

Frontend → Backend

Database

Same instance

Issue !!

Better deployment structure

Deployment

Public network | Private network

Frontend

Backend

Database

Deployment

Public network | Private network

Frontend

Backend

Database

Don't allow * for CORS

https://owasp.org/www-community/attacks/CORS_OriginHeaderScrutiny

Deployment

Public network | Private network

Frontend

Backend

Database

Use Reverse proxy
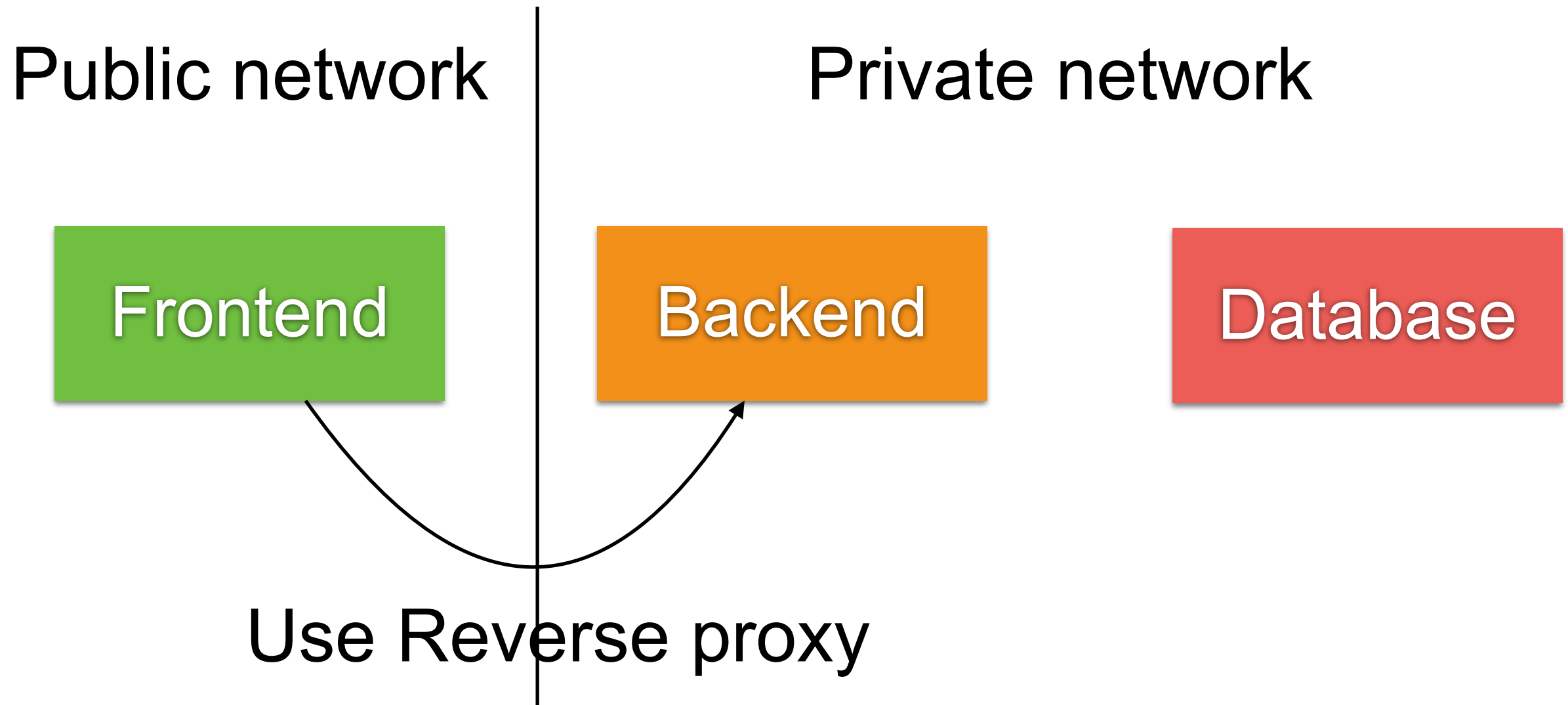
Working with Docker

Frontend

Backend

Database

Dockerfile   Dockerfile   Dockerfile

Review Dockerfile

Bad Dockerfile

```
1    FROM node:16
2
3    WORKDIR /backend
4
5    COPY . /backend
6
7    EXPOSE 3030
```

Bad Dockerfile

```
1    FROM node:16.14-alpine
2
3    WORKDIR /usr/app
4
5    COPY package*.json ./
6
7    RUN npm install
8
9    COPY ./ ./
10
11   EXPOSE 8000
12
13   CMD ["npm", "run", "serve"]
```

Review Docker compose

Docker compose

```yaml
app:
  build: .
  container_name: go_container
  volumes:
  - './backend:/app'
  working_dir: /app
  env_file:
    - db.env
  ports:
  - 3000:3000
  command: go run main.go
  depends_on:
    - db
networks:
  - fullstack
```

Docker compose

```yaml
app:
  build: .
  container_name: go_container
  volumes:
  - './backend:/app'
  working_dir: /app
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    - db.env
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  - 3000:3000
  command: go run main.go
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networks:
  - fullstack
```

Use

Working with Docker

Frontend	Backend	Database

Dockerfile | Dockerfile | Dockerfile

Features for APIs

Graceful shutdown

Health check

Logging

Configuration with Environment variables