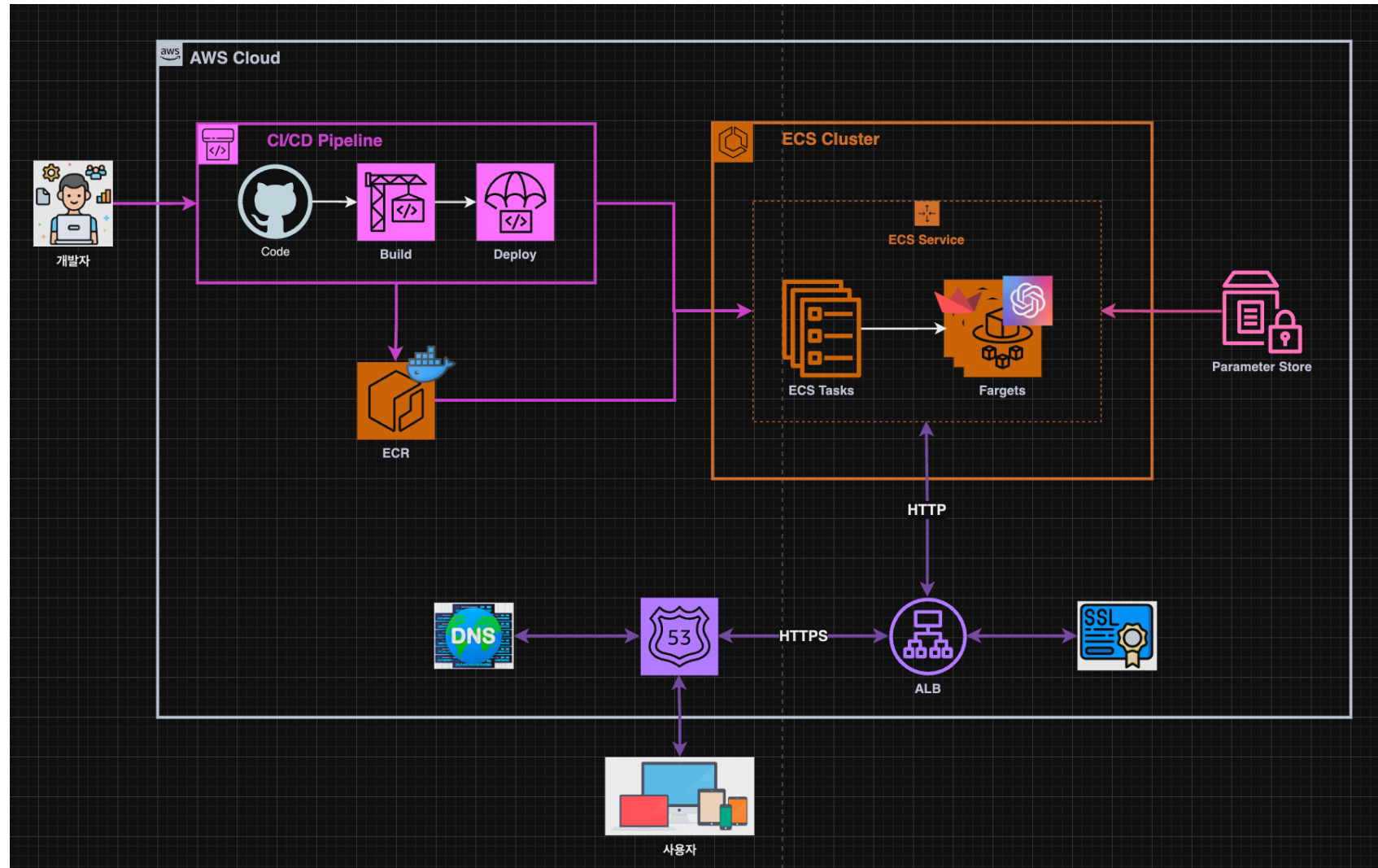
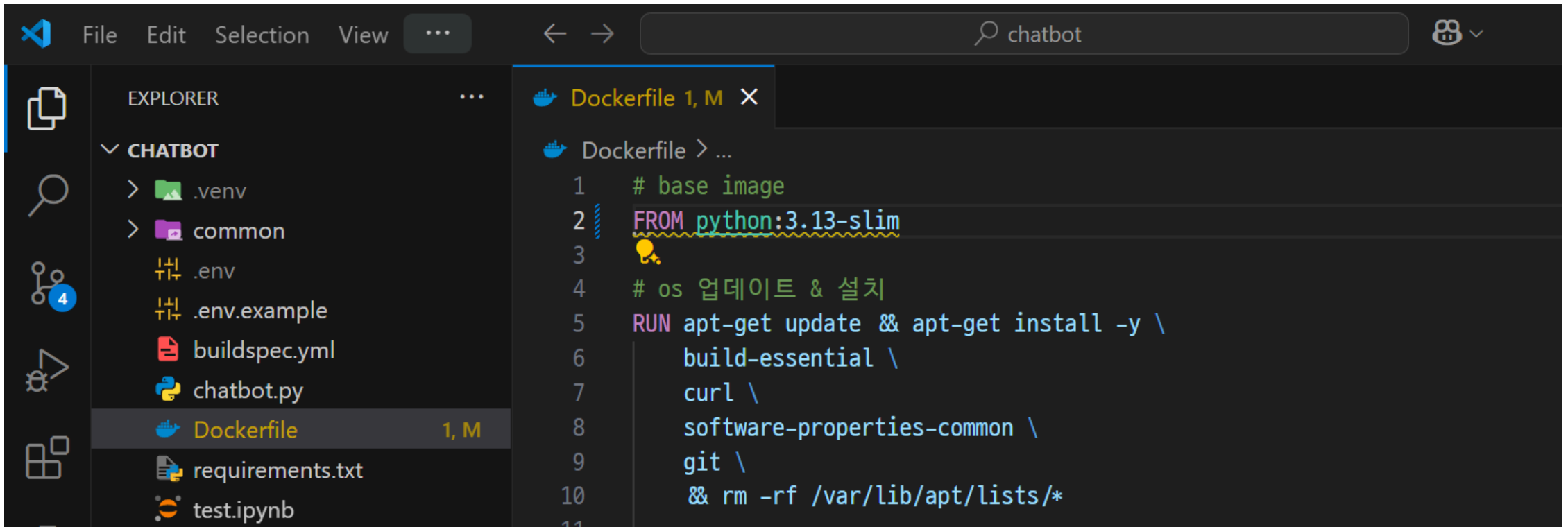


Architecture



ChatBot on Docker

단계1: Dockerfile



```
File Edit Selection View ... chatbot
```

EXPLORER

CHATBOT

- > .venv
- > common
- .env
- .env.example
- buildspec.yml
- chatbot.py
- Dockerfile 1, M
- requirements.txt
- test.ipynb

Dockerfile 1, M X

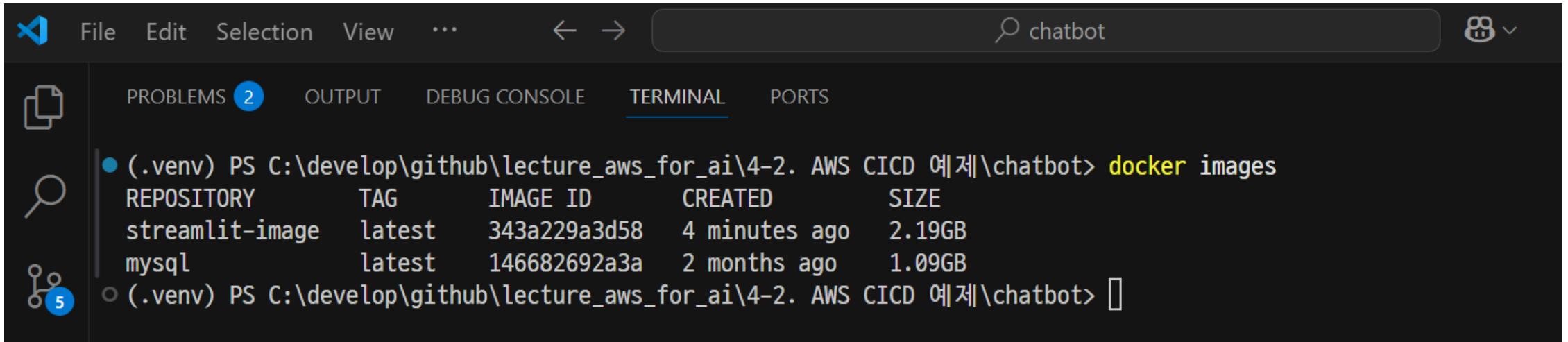
Dockerfile > ...

```
1 # base image
2 FROM python:3.13-slim
3
4 # os 업데이트 & 설치
5 RUN apt-get update & apt-get install -y \
6     build-essential \
7     curl \
8     software-properties-common \
9     git \
10     & rm -rf /var/lib/apt/lists/*
11
```

단계2: Make docker image

- 명령어: `docker build --platform linux/amd64 -t [이미지명] .`

```
# Make docker image
docker build --platform linux/amd64 -t streamlit-image .
docker images # 생성된 이미지 확인
```



File Edit Selection View ... chatbot

PROBLEMS 2 OUTPUT DEBUG CONSOLE TERMINAL PORTS

```
(.venv) PS C:\develop\github\lecture_aws_for_ai\4-2. AWS CICD 예제\chatbot> docker images
```

REPOSITORY	TAG	IMAGE ID	CREATED	SIZE
streamlit-image	latest	343a229a3d58	4 minutes ago	2.19GB
mysql	latest	146682692a3a	2 months ago	1.09GB

```
(.venv) PS C:\develop\github\lecture_aws_for_ai\4-2. AWS CICD 예제\chatbot> 
```

단계3: Run container

- 명령어: `docker run --name [컨테이너명] -d -e [환경변수] -p 8501:8501 [이미지명]`

리눅스

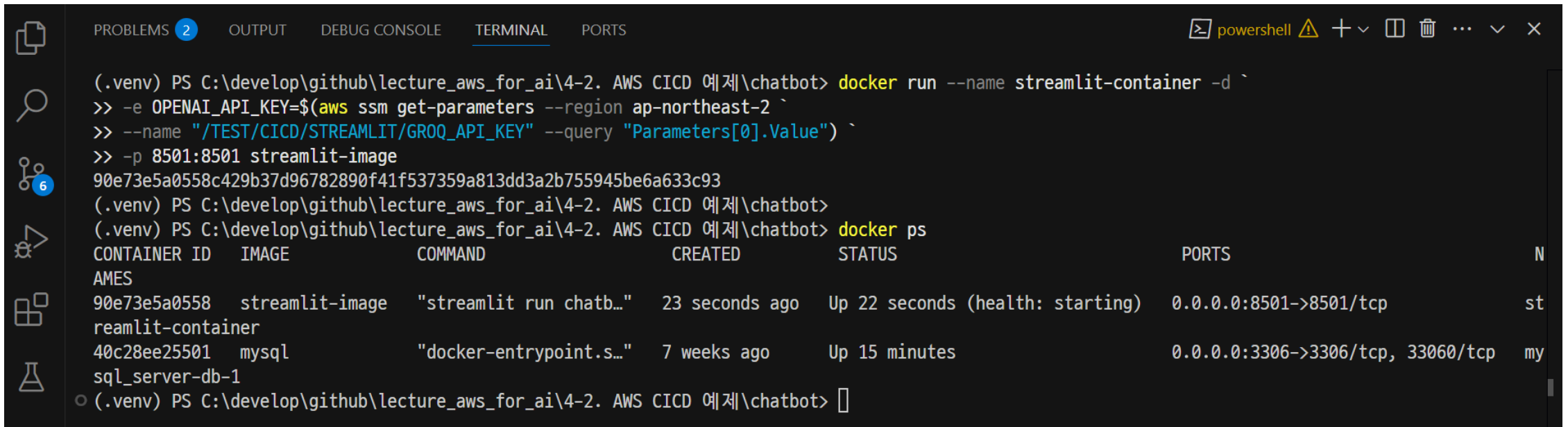
```
docker run --name streamlit-container -d \  
-e GROQ_API_KEY=$(aws ssm get-parameters --region ap-northeast-2 \  
--name "/TEST/CICD/STREAMLIT/GROQ_API_KEY" --query "Parameters[0].Value" | tr -d '"') \  
-p 8501:8501 streamlit-image
```

```
docker ps # 실행 중인 컨테이너 확인
```

윈도우

```
docker run --name streamlit-container -d `
-e GROQ_API_KEY=$(aws ssm get-parameters --region ap-northeast-2 `
--name "/TEST/CICD/STREAMLIT/GROQ_API_KEY" --query "Parameters[0].Value") `
-p 8501:8501 streamlit-image
```

docker ps # 실행 중인 컨테이너 확인



The screenshot shows a PowerShell terminal window with the following content:

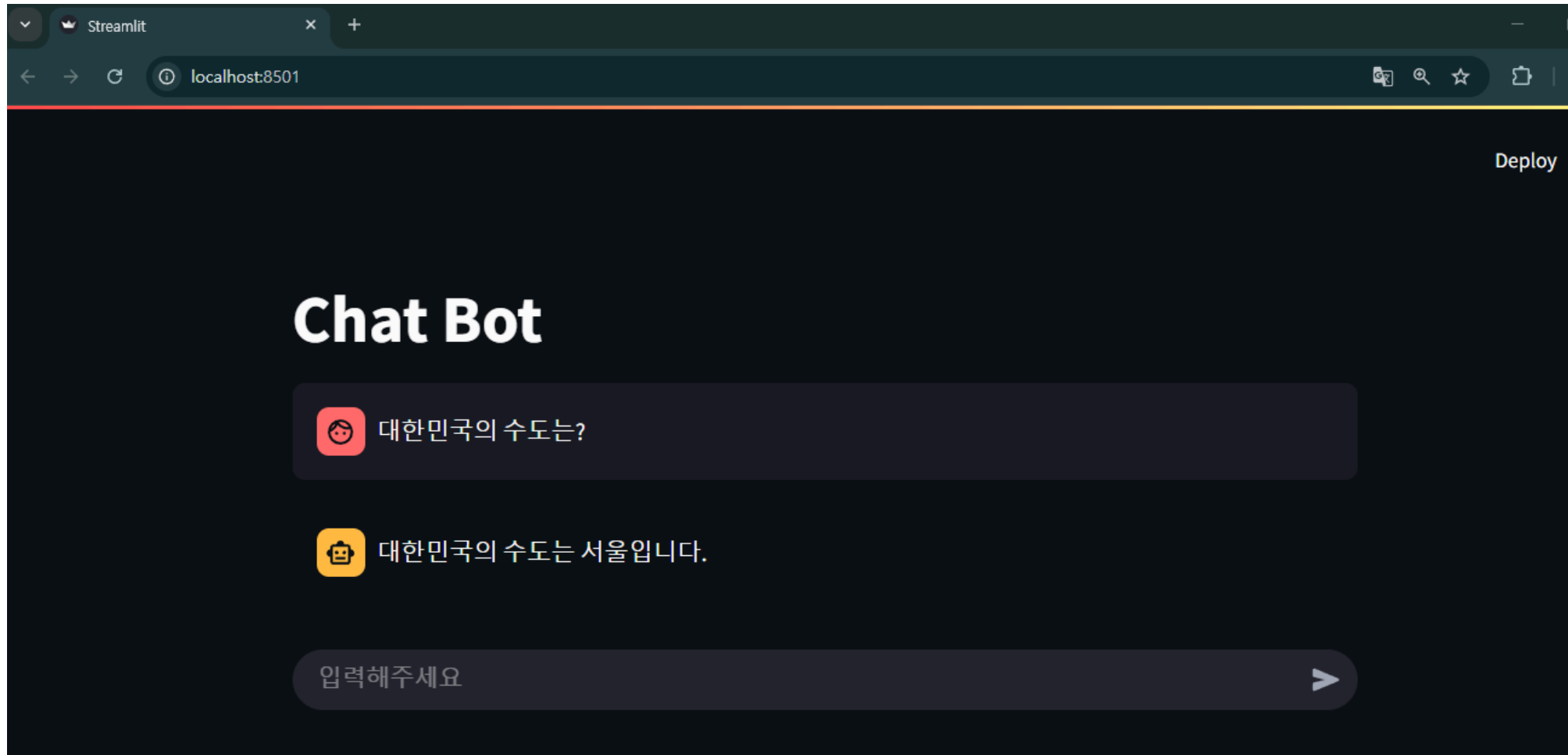
```
(.venv) PS C:\develop\github\lecture_aws_for_ai\4-2. AWS CICD 예제\chatbot> docker run --name streamlit-container -d `
>> -e OPENAI_API_KEY=$(aws ssm get-parameters --region ap-northeast-2 `
>> --name "/TEST/CICD/STREAMLIT/GROQ_API_KEY" --query "Parameters[0].Value") `
>> -p 8501:8501 streamlit-image
90e73e5a0558c429b37d96782890f41f537359a813dd3a2b755945be6a633c93
(.venv) PS C:\develop\github\lecture_aws_for_ai\4-2. AWS CICD 예제\chatbot>
(.venv) PS C:\develop\github\lecture_aws_for_ai\4-2. AWS CICD 예제\chatbot> docker ps
```

CONTAINER ID	IMAGE	COMMAND	CREATED	STATUS	PORTS	N
AMES						
90e73e5a0558	streamlit-image	"streamlit run chatb..."	23 seconds ago	Up 22 seconds (health: starting)	0.0.0.0:8501->8501/tcp	st
reamlit-container						
40c28ee25501	mysql	"docker-entrypoint.s..."	7 weeks ago	Up 15 minutes	0.0.0.0:3306->3306/tcp, 33060/tcp	my
sql_server-db-1						


```
o (.venv) PS C:\develop\github\lecture_aws_for_ai\4-2. AWS CICD 예제\chatbot> []
```

단계4: 접속 및 실행

Local URL: `http://localhost:8501`



단계5: HEALTH CHECK

 docker.desktop

PERSONAL

Ctrl+K ?

Containers

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Containers

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Container CPU usage ⓘ
0.53% / 2800% (28 CPUs available)

Container memory usage ⓘ
518.37MB / 15.14GB

 ☒ Only show running containers

<input type="checkbox"/>	Name	Container ID	Image	Port(s)
<input type="checkbox"/>	<div><div></div>streamlit-container</div>	2f3b33ab65e7	streamlit-image	8501:8501
<input type="checkbox"/>	> <div><div></div>mysql_server</div>	-	-	-


```
curl --fail http://localhost:8501/_stcore/health
```

 **docker desktop** PERSONAL

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Containers / streamlit-container

streamlit-container

<  2f3b33ab65e7  [streamlit-image:latest](#)
[8501:8501](#) 

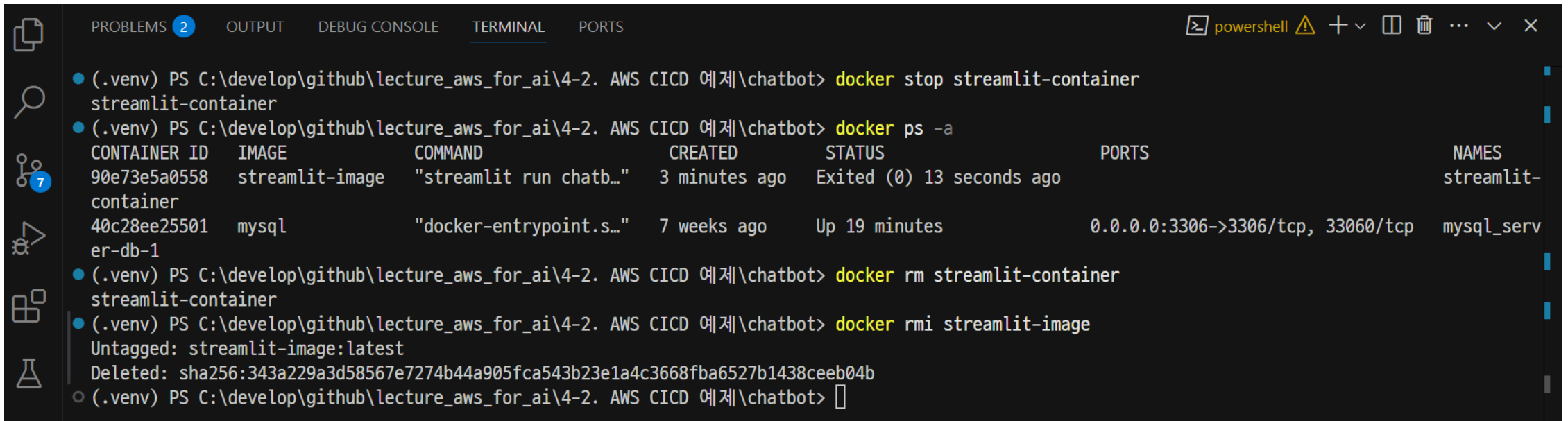
Logs Inspect Bind mounts **Exec** Files Stats

 **Docker Debug brings the tools you need to debug your container with one click.**
Requires a paid Docker subscription. [Learn more.](#)

```
# curl --fail http://localhost:8501/_stcore/health  
ok#
```

참고

```
docker stop streamlit-container # 컨테이너 멈춤
docker ps -a # 컨테이너 멈춤 확인
docker rm streamlit-container # 컨테이너 삭제
docker rmi streamlit-image # 이미지 삭제
```



The screenshot shows a PowerShell terminal window with the following commands and output:

```
(.venv) PS C:\develop\github\lecture_aws_for_ai\4-2. AWS CICD 예제\chatbot> docker stop streamlit-container
streamlit-container
(.venv) PS C:\develop\github\lecture_aws_for_ai\4-2. AWS CICD 예제\chatbot> docker ps -a
```

CONTAINER ID	IMAGE	COMMAND	CREATED	STATUS	PORTS	NAMES
90e73e5a0558	streamlit-image	"streamlit run chatb..."	3 minutes ago	Exited (0) 13 seconds ago		streamlit-container
40c28ee25501	mysql	"docker-entrypoint.s..."	7 weeks ago	Up 19 minutes	0.0.0.0:3306->3306/tcp, 33060/tcp	mysql_serv

```
(.venv) PS C:\develop\github\lecture_aws_for_ai\4-2. AWS CICD 예제\chatbot> docker rm streamlit-container
streamlit-container
(.venv) PS C:\develop\github\lecture_aws_for_ai\4-2. AWS CICD 예제\chatbot> docker rmi streamlit-image
Untagged: streamlit-image:latest
Deleted: sha256:343a229a3d58567e7274b44a905fca543b23e1a4c3668fba6527b1438ceeb04b
(.venv) PS C:\develop\github\lecture_aws_for_ai\4-2. AWS CICD 예제\chatbot> 
```