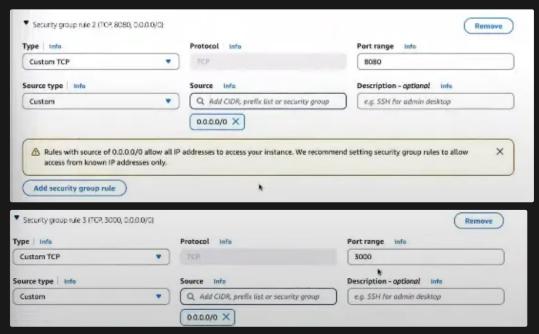
黑客松 - 語音助理

EC2

- 1. 查詢 ec2 lunch instance
- 2. 命名 voice agent
- 3. 作業系統一律選 ubuntu
 - a. 22.04 的第二個
 - b. instance type t3 xlarge
 - c. (不一定要 key)



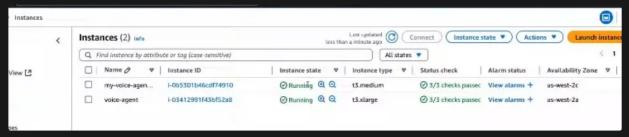
- 4. Network setting
 - a. create security group
 - b. allow SSH
 - c. 右上角 edit 點下去
 - d. add security group rule
 - e. 項目



5. 項目



- 6. 右邊確認 model launch instance
- 7. 回到上一動確認 instance



8. 點進剛剛建立好的 ec2 - 進去後右邊點 connect - 再進去之後再進去 connect - 就可以連線進入 terminal

以下是建立玩 CloudFront 之後才做的事情

以下是環境的安裝

• 回到 terminal

複製文件裡面的 Docker

```
all Docker & Docker Compose
ker: https://docs.docker.com/engine/install/ubuntu/
ker Compose: https://docs.docker.com/compose/install/linux/
le installation commands are as follows:
figure apt source
    # Add Docker's official GPG key:
    sudo apt-get update
    sudo apt-get install ca-certificates curl
    sudo install -m 0755 -d /etc/apt/keyrings
    sudo curl -fsSL https://download.docker.com/linux/ubuntu/gpg -o /etc/apt/keyrings/docker.asc
    sudo chmod a+r /etc/apt/keyrings/docker.asc
   # Add the repository to Apt sources:
    echo \
    "deb [arch=$(dpkg --print-architecture) signed-by=/etc/apt/keyrings/docker.asc] https://download.docker.com/linux/ubuntu \
$(. /etc/os-release && echo "$VERSION_CODENAME") stable" | \
    sudo tee /etc/apt/sources.list.d/docker.list > /dev/null
貼上 terminal 之後按 enter
Il the latest Docker
  sudo opt-get install docker-ce docker-ce-cli containerd.io docker-buildx-plugin docker-compose-plugin
```

再貼上後按 enter · 中間 y/n 要記得按 y

```
sudo docker run hello-world
```

48 Q D D : X

看到 Hello from docker 就代表裝好了

貼上 terminal 之後按 enter

```
w regular users to execute Docker

# Create the docker group.
sudo groupadd docker

# Add your user to the docker group
sudo usermod -aG docker $USER

newgrp docker

# verify
docker run hello-world
```

貼上 terminal 之後按 enter

以上是環境的安裝

以下開始建立語音的 code



貼到 terminal 後按 enter

```
2. Prepare configuration files
In the project's root directory, execute the following commands to provide configuration files.

| Operation | Operatio
```

貼到 terminal 後按 enter

這部分不用貼

接下來要進入 terminal 改環境變數

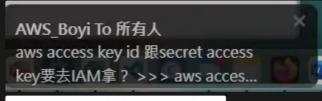
- Terminal 打 vim .env 按 enter 會看到藍色字體的 terminal
- 按 i 會出現 insert 這時候就可以開始改了. 改完要離開要按 i 之後按 esc. 之後再打一個: wq
- 要改

```
# Agora App ID and Agora App Certificate
# required: this variable must be set
AGORA_APP_ID=
AGORA_APP_ID=
AGORA_APP_ID=
AGORA_APP_CERTIFICATE=
AGORA_APP_CERTIFICATE=
AGORA_APP_CERTIFICATE=
AGORA_APP_CERTIFICATE=
AGORA_APP_CERTIFICATE=
AGORA_APP_CERTIFICATE=
APP_CERTIFICATE=
APP_CERTIFICATE=
APP_CERTIFICATE=
APP_CERTIFICATE=
# Extension: bedrock_llm
# Extension: polly_tts
# Extension: transcribe_asr
AWS_ACCESS_KEY_ID=
AWS_ACCESS_KEY_ID=
AWS_ACCESS_KEY_ID=
AWS_ACCESS_KEY_ID=
# model id supported by Bedrock Converse API
AWS_BEDROCK_MODEL=us.amazon.nova-pro-v1:0

AWS_REGION=us-west-2 # the Region you're using
```

agora_app_id、agora_app_certification、AWS_access_key_id、AWS_secret_access_key 她影片裏面沒有說這是從哪裡來的

(我不知道這些實際資訊會在哪裡,似乎會在文件裡面)



```
# Agora App ID and Agora App Certificate
# required: this variable must be set
AGORA_APP_ID-vapour-agora-app-id>
AGORA_APP_CERTIFICATE=xyour-agora-app-certificate>

# Extension: bedrock_lln
# Extension: polly_tts
# Extension: transcribe_asr
AMS_ACCESS_KEY_ID=xyour-ams-access-key-id>
AMS_SECRET_ACCESS_KEY=xyour-ams-access-key-id>
AMS_SECRET_ACCESS_KEY=xyour-ams-access-key-id>
AMS_SECRET_ACCESS_KEY=xyour-ams-access-key-id>
AMS_SECRET_ACCESS_KEY_accour-ams-access-key-id>
AMS_SECRET_ACCESS_KEY_accour-ams-access-key-id>
AMS_SECRET_ACCESS_KEY=xyour-ams-access-key-id>
AMS_SECRET_ACCESS_KEY
```

MS_REGION-us-west-2

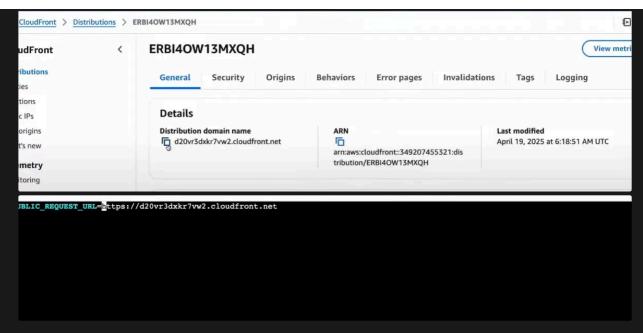
- AWS REGION 都是 us-west-2
- 要存好設定要按 esc 再打: wq 這樣就好了

這樣就改完第一個 .env

再來改第二個

:buntu@ip-172-31-22-118:~/Astra.ai\$ cd playground/ :buntu@ip-172-31-22-118:-/Astra.ai/playground\$ vim .env

- 打 cd playgroud/ 進入後打 vim .env
- 回到 distribution 複製 8080 的 domain name



• esc:wq

以上就改好兩個環境變數

wq 回到上一層之後到文件複製

```
docker compose up

r normal startup, you should see output similar to the following:
```

記得不要在 playground 執行,要打 cd.. 回到 Astra.ai

• 貼上 docker compose up

出現 local host 3000 就完成了

```
Astra_playground_dev | > Astra-playground@0.1.0 start

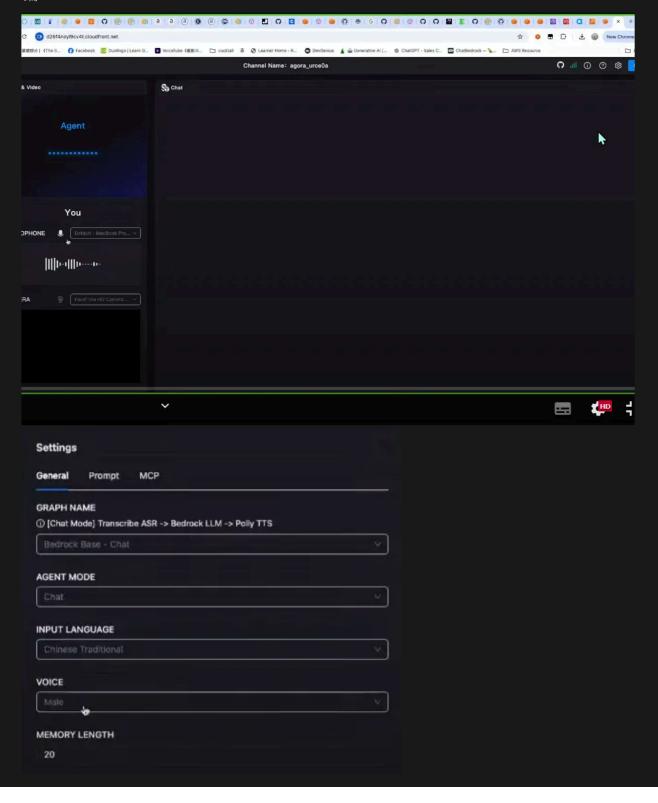
Astra_playground_dev | > next start

Astra_playground_dev |

Astra_playground_dev | Astra_playground_dev | Astra_playground_dev | - Local: http://localhost:3000

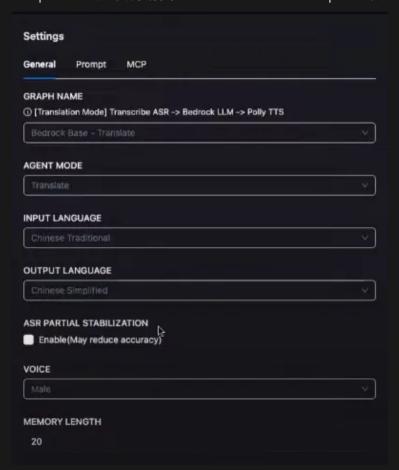
http://localhost:3000
```

3000 的 port 的 domain name 也先複製起來‧直接貼在網址搜尋就可以進入語音助理的前端



設定完之後案右上角的 connect

如果是粵語的話就再進到設定 選 bedrock base - translate · 再改 output 為 chinese Simplified 改完後再切回 bedrock base chat · input 也要是 chinese traditional



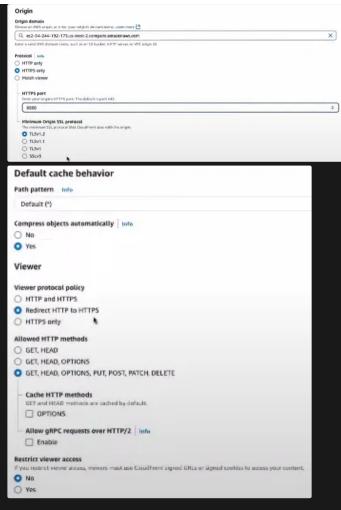
這樣語音前端就完全建立完成了

CloudFront (要建立兩個 CloudFront)

- 1. 搜尋 CloudFront (紫色的圖)
 - create CloudFront distribuion
 - Origin domain 回到剛剛建立的 instance 複製右手邊的 IPv4 DNS



• 回到 CloudFront origin



- Create distribution
- Firewall 選 Do not enable
- create 這樣建立完第一個

回到上一動 - 建立下一個



- 右上角 create
- 接下來動作都跟上一部一樣,只有 HTTPs port 改 3000

Default cache	behavior
Path pattern Info	
Default (*)	
Compress objects a	stomatically info
O No	
O Yes	
Viewer	
Viewer protocol pol	icy
O HTTP and HTTP:	
O Redirect HTTP to	HTTPS
O HTTPS only	•
Allowed HTTP meth	ods
O GET, HEAD	
O GET, HEAD, OPTI	ONS
O GET, HEAD, OPTI	ONS, PUT, POST, PATCH, DELETE
Cache HTTP me	thods
	hods are cached by default.
☐ OPTIONS:	