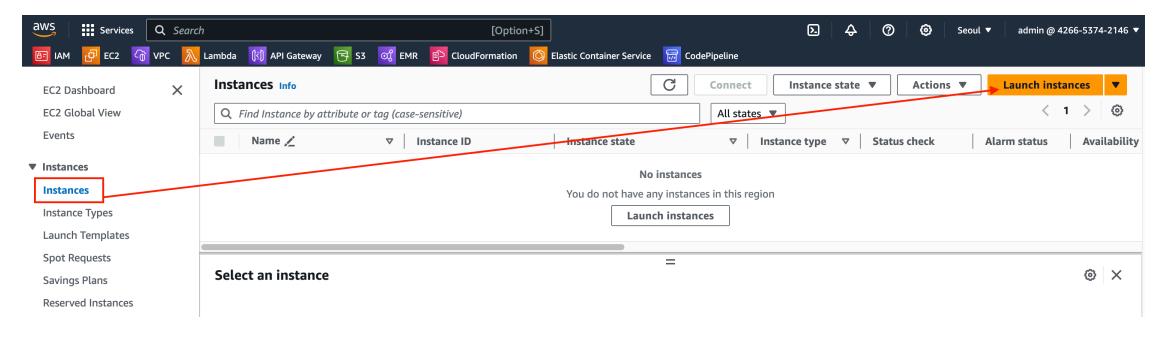
aws ec2 생성

단계1: Launch instances



단계2: Instances name



단계3: Application and OS Images

▼ Application and OS Images (Amazon Machine Image) Info

An AMI is a template that contains the software configuration (operating system, application server, and applications) required to launch your instance. Search or Browse for AMIs if you don't see what you are looking for below

Q Search our full catalog including 1000s of application and OS images

Ubuntu

Recents My AMIs Quick Start

Amazon Linux **aws**

Mac

macOS



Windows



Red Hat



SUSE Li



Q

Browse more AMIs

Including AMIs from AWS, Marketplace and the Community

Amazon Machine Image (AMI)

Ubuntu Server 24.04 LTS (HVM), SSD Volume Type

Free tier eligible

ami-062cf18d655c0b1e8 (64-bit (x86)) / ami-09cb0f54fe24c54a6 (64-bit (Arm))

Virtualization: hvm ENA enabled: true Root device type: ebs

Description

Ubuntu Server 24.04 LTS (HVM), EBS General Purpose (SSD) Volume Type. Support available from Canonical (http://www.ubuntu.com/cloud/services).

Architecture

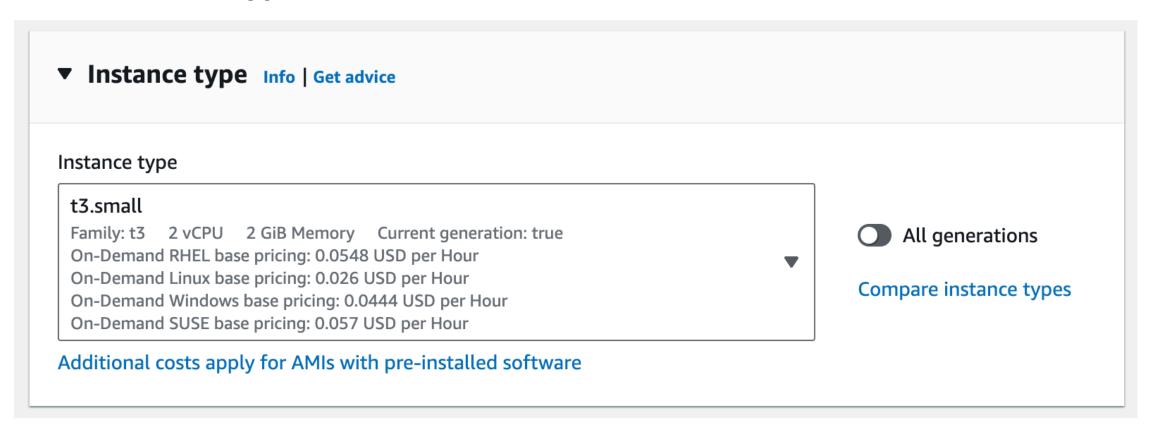
AMI ID

64-bit (x86)

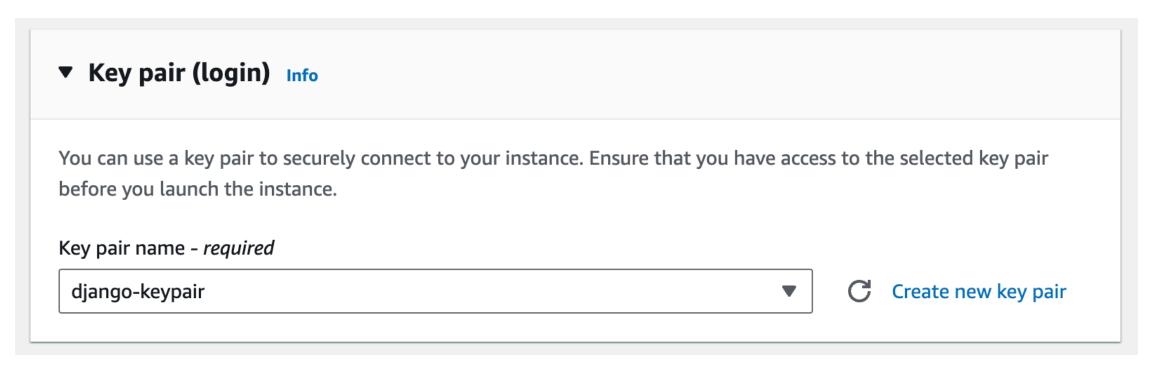
ami-062cf18d655c0b1e8

Verified provider

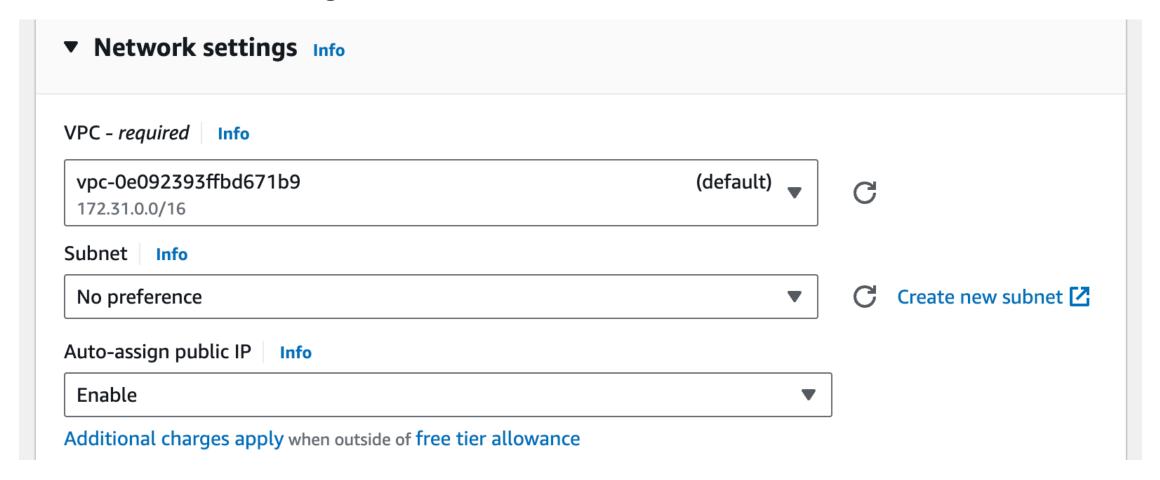
단계4: Instance type



단계5: Key pair



단계6: Network settings



Firewall (security groups)	Info
------------	------------------	------

A security group is a set of firewall rules that control the traffic for your instance. Add rules to allow specific traffic to reach your instance.



Create security group

Select existing security group

Security group name - required

django-sg

This security group will be added to all network interfaces. The name can't be edited after the security group is created. Max length is 255 characters. Valid characters: a-z, A-Z, 0-9, spaces, and ._-:/()#,@[]+=&;{}!\$*

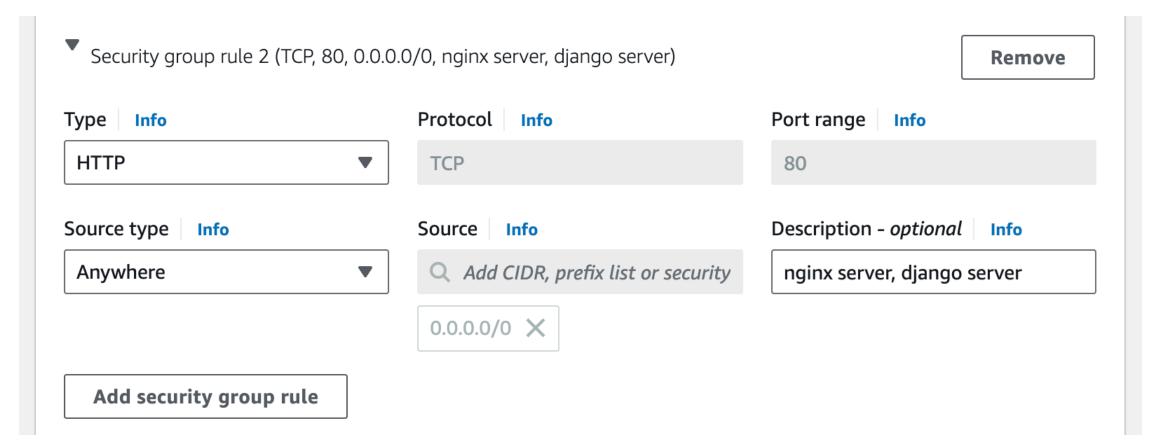
Description - required Info

django-sg created 2024-07-26T23:10:29.398Z

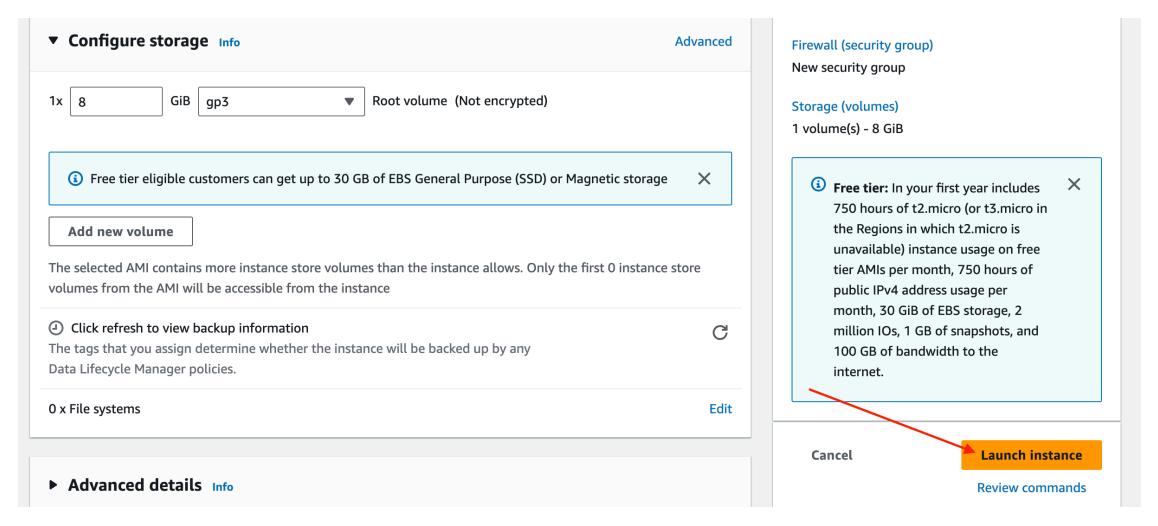
ssh protocol

Firewall (security groups) Info A security group is a set of firewall rules that controlinstance.	l the traffic for your instance. Add rules to allow s	specific traffic to reach your
 Create security group 	Select existing security group	
Security group name - required		
django-sg		
This security group will be added to all network inte 255 characters. Valid characters: a-z, A-Z, 0-9, space		ty group is created. Max length is
Description - required Info		
django-sg created 2024-07-26T23:10:29.39	98Z	

nginx server, django server

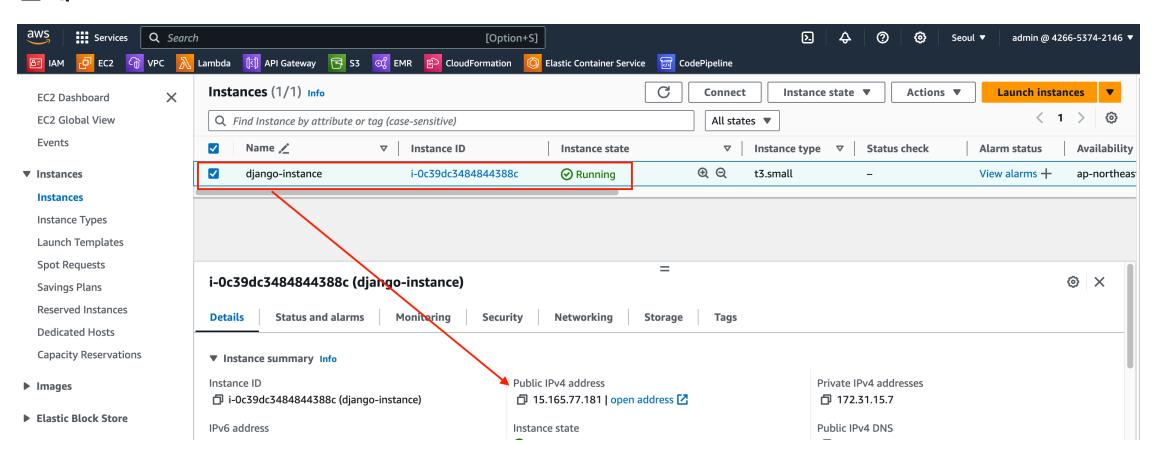


단계7: configure storage & Launch instance

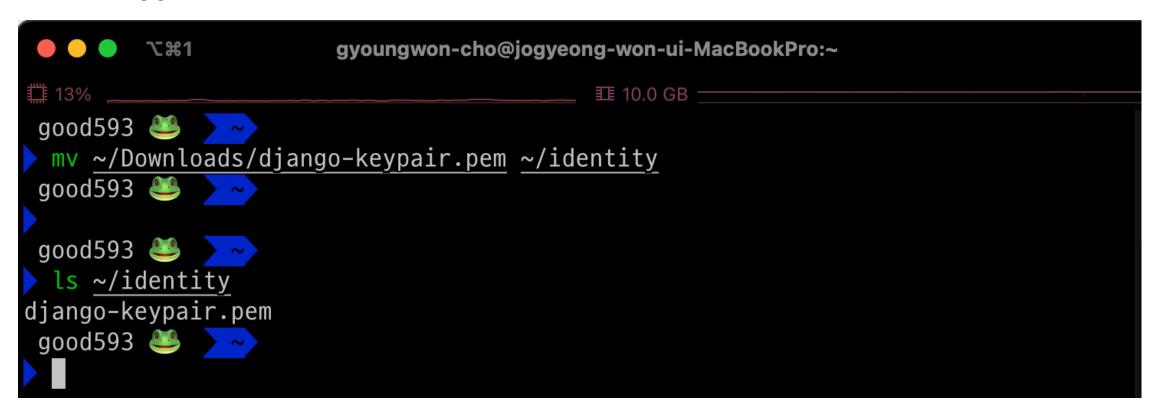


ec2 접속

단계1: Public IPv4 address



단계2: keypair 이동



단계3: (윈도우 생략) 권한 변경

pem 키 권한 변경 -> 600이 아닐 경우 보안 취약으로 판단 chmod 600 ~/identity/django-keypair.pem



단계4: config 수정

```
vim ~/.ssh/config
```

```
vim ~/.ssh/config

11%

Host django-instance

# aws Public IPv4 address

HostName 15.165.77.181

User ubuntu

# aws key pair

IdentityFile ~/identity/django-keypair.pem
```

단계5: ec2 접속 by ssh

```
ubuntu@ip-172-31-15-7: ~
                                        Ⅲ 9.5 GB
 clear
good593 🐸 🔪
 ssh django-instance
Welcome to Ubuntu 24.04 LTS (GNU/Linux 6.8.0-1009-aws x86_64)
 * Documentation: https://help.ubuntu.com
                  https://landscape.canonical.com
 * Management:
                  https://ubuntu.com/pro
 * Support:
System information as of Fri Jul 26 23:45:18 UTC 2024
```

docker in ec2 설치

단계1: 우분투 시스템 패키지 업데이트

sudo apt-get update



단계2: 우분투 시스템 패키지 업데이트

sudo apt-get install apt-transport-https ca-certificates curl gnupg-agent software-properties-common -y

```
Ⅲ 9.6 GB
ubuntu@ip-172-31-15-7:~$ sudo apt-get install apt-transport-https ca-certificate
s curl gnupg-agent software-properties-common -y
Reading package lists... Done
Building dependency tree... Done
Reading state information... Done
apt-transport-https is already the newest version (2.7.14build2).
ca-certificates is already the newest version (20240203).
curl is already the newest version (8.5.0-2ubuntu10.1).
gnupg-agent is already the newest version (2.4.4-2ubuntu17).
software-properties-common is already the newest version (0.99.48).
0 upgraded, 0 newly installed, 0 to remove and 26 not upgraded.
ubuntu@ip-172-31-15-7:~$
```

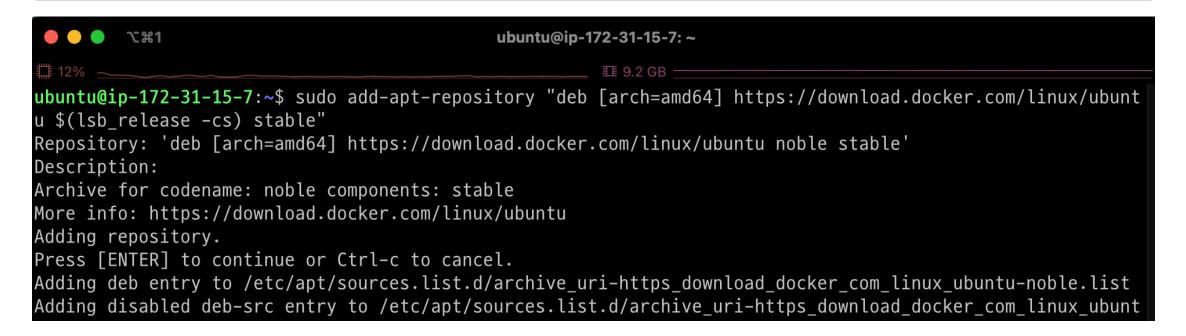
단계3: Docker의 공식 GPG키를 추가

curl -fsSL https://download.docker.com/linux/ubuntu/gpg | sudo apt-key add -



단계4: Docker의 공식 apt 저장소를 추가

sudo add-apt-repository "deb [arch=amd64] https://download.docker.com/linux/ubuntu \$(lsb_release -cs) stable"



단계5: 시스템 패키지 업데이트

sudo apt-get update

```
ubuntu@ip-172-31-15-7:~$ sudo apt-get update
Hit:1 http://ap-northeast-2.ec2.archive.ubuntu.com/ubuntu noble InRelease
Hit:2 http://ap-northeast-2.ec2.archive.ubuntu.com/ubuntu noble-updates InRelease
Hit:3 http://ap-northeast-2.ec2.archive.ubuntu.com/ubuntu noble-backports InRelease
Hit:4 https://download.docker.com/linux/ubuntu noble InRelease
Hit:5 http://security.ubuntu.com/ubuntu noble-security InRelease
Reading package lists... Done
W: https://download.docker.com/linux/ubuntu/dists/noble/InRelease: Key is stored in legacy trusted.gpg key ring (/etc/apt/trusted.gpg), see the DEPRECATION section in apt-key(8) for details.
ubuntu@ip-172-31-15-7:~$
```

단계6: Docker 설치

sudo apt-get install docker-ce docker-ce-cli containerd.io -y

```
ubuntu@ip-172-31-15-7:~

□ 22%

ubuntu@ip-172-31-15-7:~$ sudo apt-get install docker-ce docker-ce-cli containerd.io -y
Reading package lists... Done
Building dependency tree... Done
Reading state information... Done
docker-ce is already the newest version (5:27.1.1-1~ubuntu.24.04~noble).
docker-ce-cli is already the newest version (5:27.1.1-1~ubuntu.24.04~noble).
containerd.io is already the newest version (1.7.19-1).
0 upgraded, 0 newly installed, 0 to remove and 26 not upgraded.
ubuntu@ip-172-31-15-7:~$ ■
```

단계7: Docker 설치 확인

sudo systemctl status docker

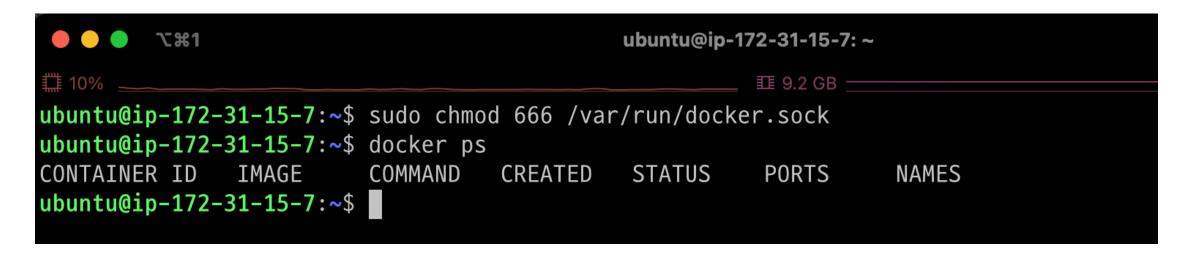
```
● ● ● ₹1
                                            ubuntu@ip-172-31-15-7: ~
                                          ubuntu@ip-172-31-15-7:~$ sudo systemctl status docker

    docker.service - Docker Application Container Engine

     Loaded: loaded (/usr/lib/systemd/system/docker.service; enabled; preset: enabled)
     Active: active (running) since Sat 2024-07-27 00:07:34 UTC; 1min 8s ago
TriggeredBy: ● docker.socket
       Docs: https://docs.docker.com
   Main PID: 3610 (dockerd)
      Tasks: 9
     Memory: 20.8M (peak: 21.5M)
       CPU: 518ms
     CGroup: /system.slice/docker.service
             └─3610 /usr/bin/dockerd -H fd:// --containerd=/run/containerd/containerd.sock
Jul 27 00:07:33 ip-172-31-15-7 systemd[1]: Starting docker.service - Docker Application Container Engine.>
Jul 27 00:07:33 ip-172-31-15-7 dockerd[3610]: time="2024-07-27T00:07:33.855390893Z" level=info msg="Start>
```

단계8: 권한 변경

파일의 권한을 666으로 변경하여 그룹 내 다른 사용자도 접근 가능하게 변경 sudo chmod 666 /var/run/docker.sock docker ps



Django

단계1: search django image

docker search goodwon593

```
Ⅲ 9.1 GB
ubuntu@ip-172-31-15-7:~$ docker search goodwon593
NAME
                                         DESCRIPTION
                                                       STARS
                                                                 OFFICIAL
goodwon593/kubeflow_jupyter
                                                       0
goodwon593/kubeflow_jupyter_tensorflow
                                                       0
goodwon593/kubeflow_codeserver
goodwon593/kubeflow_transformer
goodwon593/helloapache
goodwon593/kubeflow_tensorflow
goodwon593/hellojs-image
goodwon593/django-image
ubuntu@ip-172-31-15-7:~$
```

단계2: pull django image

docker pull goodwon593/django-image

```
ubuntu@ip-172-31-15-7: ~

□ 11%
□ 9.1 GB
□ 9.1 GB
□ Using default tag: latest
latest: Pulling from goodwon593/django-image
262a5f25eec7: Pull complete
fe1e9dc73ada: Pull complete
4499f9c982c7: Pull complete
3ccf698a8df7: Pull complete
```

단계3: django image 확인

docker images

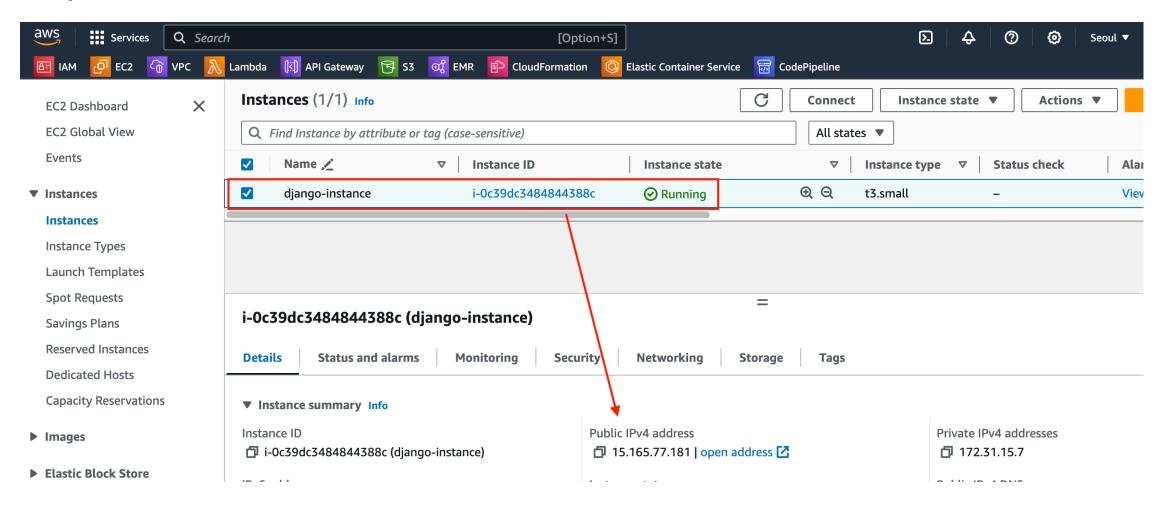
```
● ● ℃第1
                                           ubuntu@ip-172-31-15-7: ~
                                                     Ⅲ 9.1 GB =
ubuntu@ip-172-31-15-7:~$ docker images
                                   IMAGE ID
REPOSITORY
                         TAG
                                                  CREATED
                                                                 SIZE
goodwon593/django-image
                         latest
                                   01fab73f3a86
                                                                 234MB
                                                  37 hours ago
hello-world
                         latest
                                   d2c94e258dcb
                                                  15 months ago
                                                                 13.3kB
ubuntu@ip-172-31-15-7:~$
```

단계4: Create container

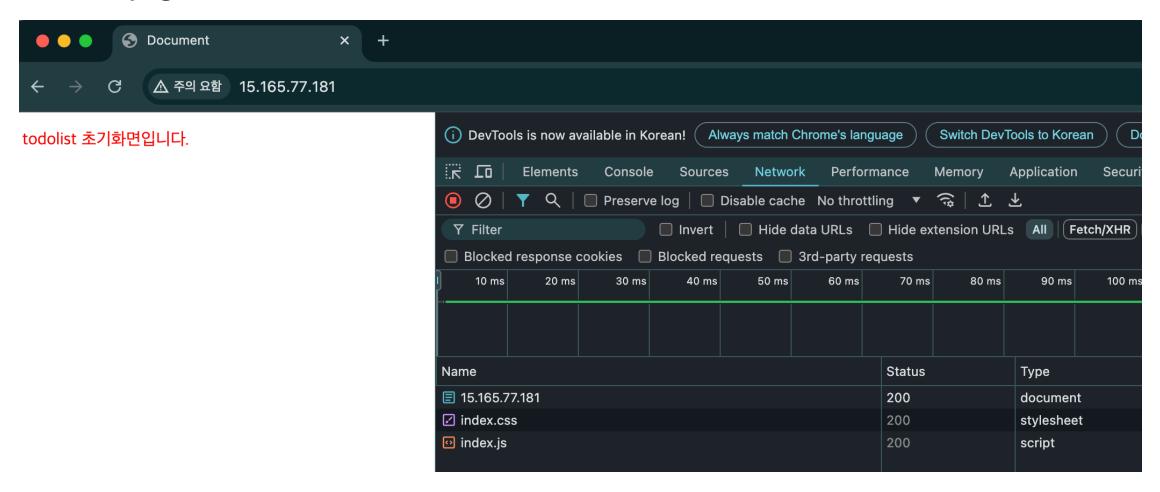
```
# Create container docker run --name django-container -d -p 80:80 goodwon593/django-image # 결과 확인 docker ps
```



단계5: Public IPv4 address



단계6: Djagon 접속 on aws ec2



참고 문서

- https://haengsin.tistory.com/128
- https://velog.io/@osk3856/Docker-Ubuntu-22.04-Docker-Installation