EC2 [원격 설정]

접속할 시 login as 문구에 ubuntu 입력하여 접속

ubuntu 버전 : 20.04 LTS

저장소 세팅 [ubuntu 20.05(LTS)]

```
$ sudo apt-get update
$ sudo apt-get install software-properties-common
$ sudo add-apt-repository universe
$ sudo apt-get update
```

certbot 설치

```
$ sudo apt-get update
$ sudo apt-get install certbot python3-certbot-nginx
```

SSL 설정 - certbot 이용 자동화 (유효기간 90일)

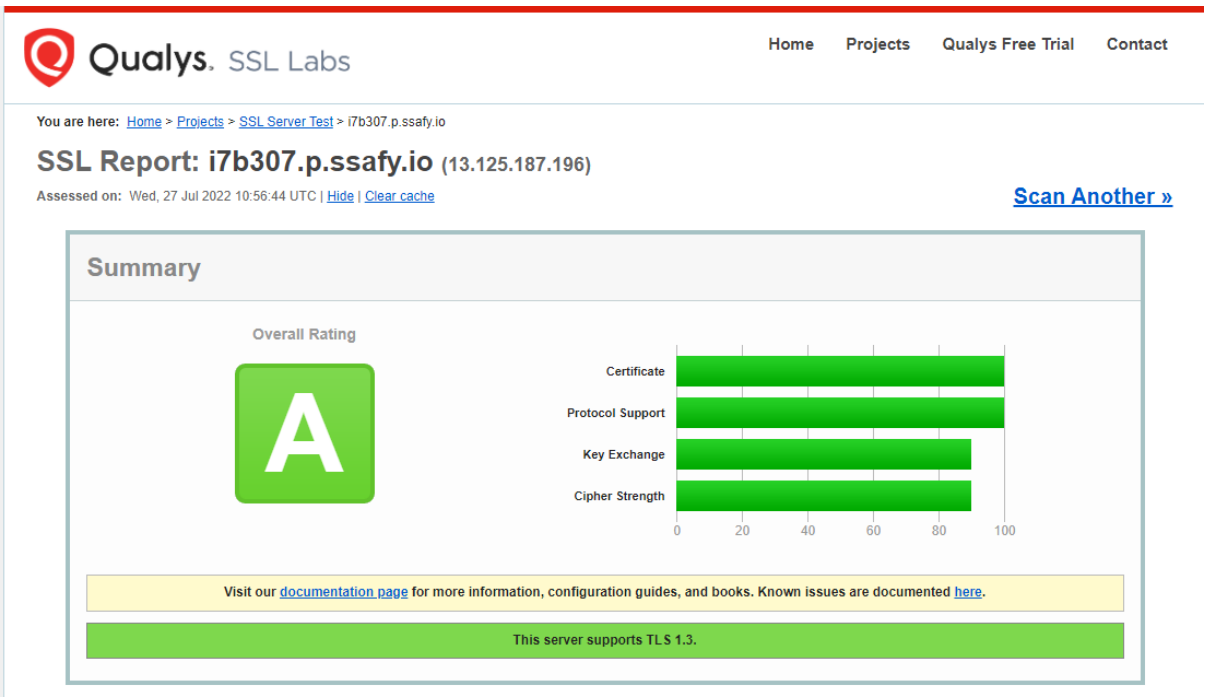
```
[SSL 설정]
sudo certbot --nginx -d i7b307.p.ssafy.io

[갱신 테스트]
sudo certbot renew --dry-run

[인증서 만료일 확인]
certbot ceritificates
```

인증서 파일 위치

/etc/letsencrypt/live/i7b307.p.ssafy.io



https://www.ssllabs.com/ssltest/ - SSL 적용 확인 및 평가

Crontab을 이용한 SSL 자동 갱신

```
[Crontab 보기]
sudo crontab -l

[Crontab 편집]
sudo crontab -e

[Crontab 실행 로그]
view /var/log/syslog
```

```
# ┌──────────── min (0 - 59)
# │ ┌────────── hour (0 - 23)
# │ │ ┌──────── day of month (1 - 31)
# │ │ │ ┌────── month (1 - 12)
# │ │ │ │ ┌──── day of week (0 - 6) (0 to 6 are Sunday to
# │ │ │ │ │                  Saturday, or use names; 7 is also Sunday)
# │ │ │ │ │
# │ │ │ │ │
# * * * * *  command to execute
```

```
매월 1일 새벽 3시에 갱신되도록 설정
0 18 1 * * /usr/bin/certbot renew --renew-hook="sudo systemctl restart nginx"

18이 새벽 3시인 이유 : 서버시간에 맞춰서 진행 (date로 서버시간 확인)
```

Nginx 세팅

```
$ sudo vi /etc/nginx/site-avaliable/default
```

```
server {
        listen 80 default_server;
        listen [::]:80 default_server;

        location / {
                root /var/www/html;
                index index.nginx-debvian.html;
        }

        server_name www.i7b307.p.ssafy.io;

        return 301 https://www.i7b307.p.ssafy.io$request_uri;
}

server {
        listen          443 ssl;
        listen          [::]:443;
        server_name     www.i7b307.p.ssafy.io;


        ssl_certificate /etc/letsencrypt/live/i7b307.p.ssafy.io/fullchain.pem; # managed by Certbot
        ssl_certificate_key /etc/letsencrypt/live/i7b307.p.ssafy.io/privkey.pem; # managed by Certbot
        include /etc/letsencrypt/options-ssl-nginx.conf; # managed by Certbot
        ssl_dhparam /etc/letsencrypt/ssl-dhparams.pem; # managed by Certbot


        location / {
                #root /home/ubuntu/dist;
                root /var/www/html;
                index index.nginx-debian.html;
        }

#       location /demo {
#               proxy_pass http://localhost:8081;
#               proxy_redirect off;
#               charset utf-8;
#
#               proxy_set_header X-Readl-IP $remote_addr;
#               proxy_set_header X-Forwarded-For @proxy_add_x_forwarded_for;
#               proxy_set_header X-Forwarded-Proto $scheme
#               proxy_set_header X-NginX-Proxy true;
#       }

}
```

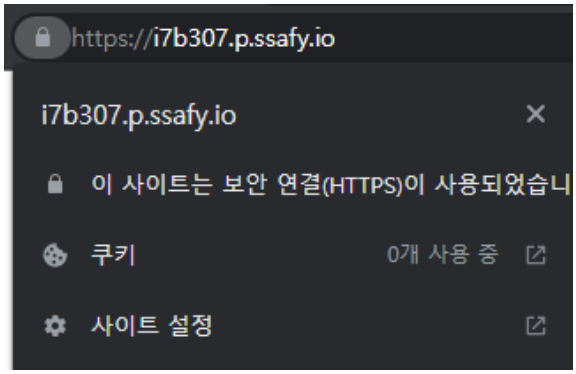
```
//nginx 서버 상태
sudo systemctl status nginx

//nginx 서버 켜기
sudo systemctl start nginx

//nginx 서버 중지
sudo systemctl stop nginx
```

```
//nginx 서버 재시작
sudo systemctl restart nginx
```

```
● nginx.service - A high performance web server and a reverse proxy server
     Loaded: loaded (/lib/systemd/system/nginx.service; enabled; vendor preset: enabled)
     Active: active (running) since Wed 2022-07-27 05:35:24 UTC; 2s ago
       Docs: man:nginx(8)
    Process: 90070 ExecStartPre=/usr/sbin/nginx -t -q -g daemon on; master_process on; (code=exited, status=0/SUCCESS)
    Process: 90079 ExecStart=/usr/sbin/nginx -g daemon on; master_process on; (code=exited, status=0/SUCCESS)
   Main PID: 90080 (nginx)
      Tasks: 5 (limit: 19204)
     Memory: 5.2M
     CGroup: /system.slice/nginx.service
             ├─90080 nginx: master process /usr/sbin/nginx -g daemon on; master_process on;
             ├─90081 nginx: worker process
             ├─90082 nginx: worker process
             ├─90083 nginx: worker process
             └─90084 nginx: worker process
```



MySQL

MySQL APT Repository 추가

```
sudo wget https://dev.mysql.com/get/mysql-apt-config_0.8.13-1_all.deb
```

MySQL APT Repository 패키지 다운로드

```
sudo dpkg -i mysql-apt-config_0.8.13-1_all.deb
//pubkey 등록 시
sudo apt-key adv --keyserver keyserver.ubuntu.com  --recv-keys <pubkey>
```

Respository 업데이트 및 mysql-server 설치

```
sudo apt-get update
sudo apt-get install mysql-server
```

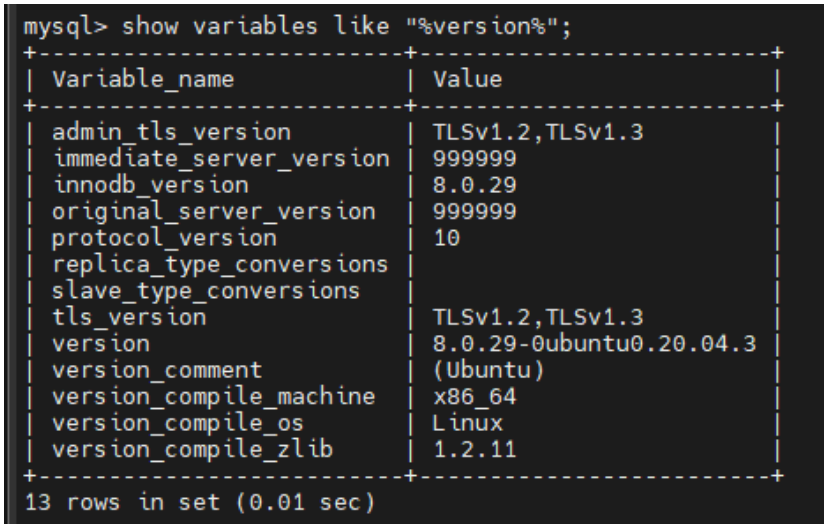
기본세팅

```
sudo ufw allow mysql -- 외부접속 기능 활성화
sudo systemctl start mysql -- 서비스 시작
sudo systemctl enable mysql -- 서버 재시작 시 mysql 재시작
```

접속 및 버전확인

```
sudo /usr/bin/mysql -u root -p
```

```
show variables like "%version%";
```



root 계정 비밀번호 변경

```
alter user 'root'@'localhost' identified with mysql_native_password by 'new password';
flush privileges;
```

Mysql 외부 원격 접속 설정

/etc/mysql/mysql.conf.d/mysqld.cnf 파일 수정

bind-address 127.0.0.1 적힌 줄 앞에 #를 붙여 주석처리

User 생성 및 권한 부여

```
create user '[username]'@'%' identified by '[password]';
grant all privileges on *.* to '[username]'@'%' with grant option;
flush privileges;
```