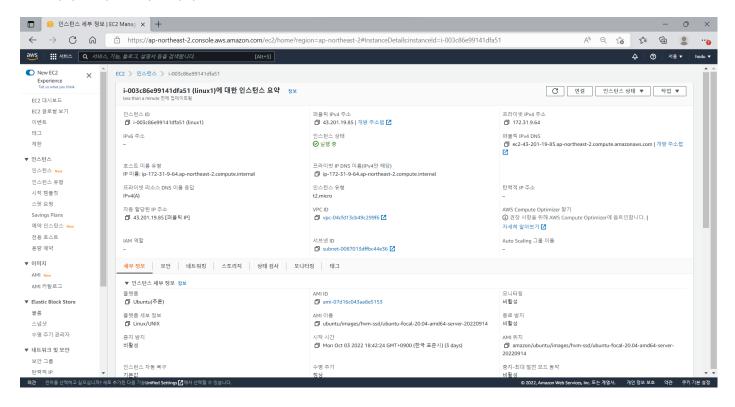
# 과제 1. 리눅스 보안

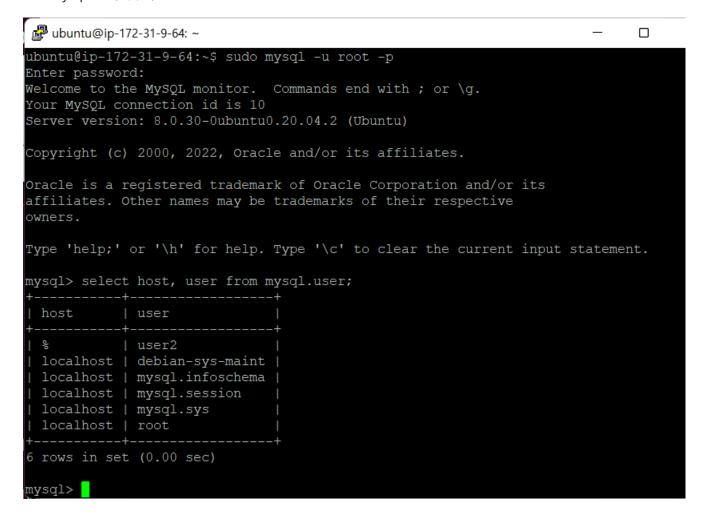
## 1-1. 리눅스 시스템 구성하기



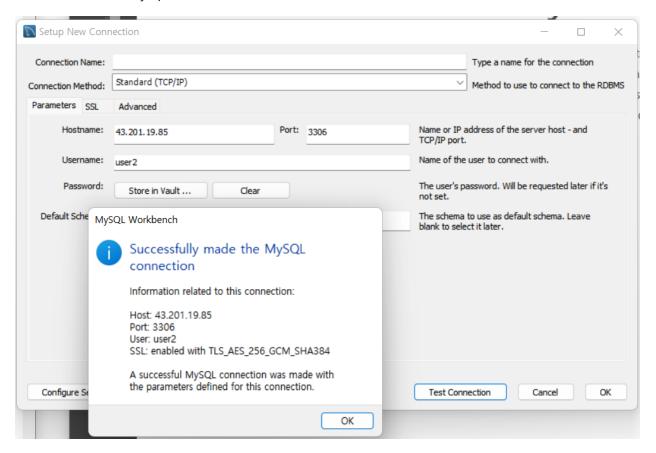
## 1-2. putty로 리눅스 연결

```
П
                                                                                      ×
   login as: ubuntu
login as: ubuntu
Authenticating with public key "linux test"
Welcome to Ubuntu 20.04.5 LTS (GNU/Linux 5.15.0-1019-aws x86 64)
 * Documentation: https://help.ubuntu.com
 * Management:
                  https://landscape.canonical.com
                  https://ubuntu.com/advantage
  System information as of Thu Oct 6 07:14:31 UTC 2022
  System load: 0.0
                                 Users logged in:
  Memory usage: 27%
                                 IPv4 address for eth0: 172.31.9.64
  Swap usage:
 * Ubuntu Pro delivers the most comprehensive open source security and
   compliance features.
   https://ubuntu.com/aws/pro
9 updates can be applied immediately.
To see these additional updates run: apt list --upgradable
*** System restart required ***
Last login: Mon Oct 3 11:41:35 2022 from 121.152.47.60
ubuntu@ip-172-31-9-64:~$
```

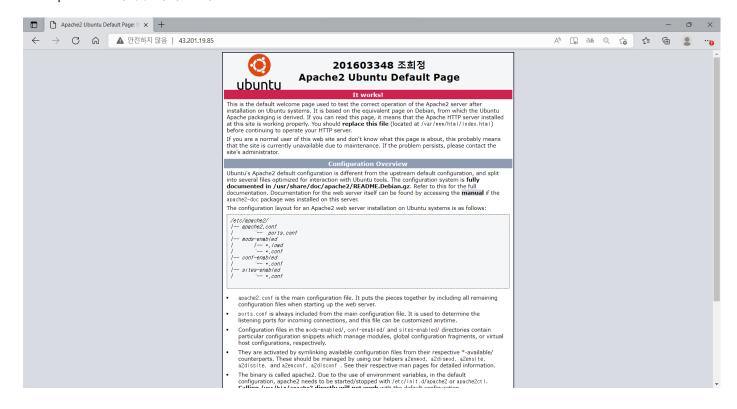
```
user1@ip-172-31-9-64: /home/ubuntu
                                                                                 \Box
                                                                                       ×
user1@ip-172-31-9-64:/home/ubuntu$ cat /etc/passwd
root:x:0:0:root:/root:/bin/bash
daemon:x:1:1:daemon:/usr/sbin:/usr/sbin/nologin
bin:x:2:2:bin:/bin:/usr/sbin/nologin
sys:x:3:3:sys:/dev:/usr/sbin/nologin
sync:x:4:65534:sync:/bin:/bin/sync
games:x:5:60:games:/usr/games:/usr/sbin/nologin
man:x:6:12:man:/var/cache/man:/usr/sbin/nologin
lp:x:7:7:lp:/var/spool/lpd:/usr/sbin/nologin
mail:x:8:8:mail:/var/mail:/usr/sbin/nologin
news:x:9:9:news:/var/spool/news:/usr/sbin/nologin
uucp:x:10:10:uucp:/var/spool/uucp:/usr/sbin/nologin
proxy:x:13:13:proxy:/bin:/usr/sbin/nologin
www-data:x:33:33:www-data:/var/www:/usr/sbin/nologin
backup:x:34:34:backup:/var/backups:/usr/sbin/nologin
list:x:38:38:Mailing List Manager:/var/list:/usr/sbin/nologin
irc:x:39:39:ircd:/var/run/ircd:/usr/sbin/nologin
gnats:x:41:41:Gnats Bug-Reporting System (admin):/var/lib/gnats:/usr/sbin/nologin
nobody:x:65534:65534:nobody:/nonexistent:/usr/sbin/nologin
systemd-network:x:100:102:systemd Network Management,,,:/run/systemd:/usr/sbin/nologin
systemd-resolve:x:101:103:systemd Resolver,,,:/run/systemd:/usr/sbin/nologin
systemd-timesync:x:102:104:systemd Time Synchronization,,,:/run/systemd:/usr/sbin/nologi
messagebus:x:103:106::/nonexistent:/usr/sbin/nologin
syslog:x:104:110::/home/syslog:/usr/sbin/nologin
apt:x:105:65534::/nonexistent:/usr/sbin/nologin
tss:x:106:111:TPM software stack,,,:/var/lib/tpm:/bin/false
uuidd:x:107:112::/run/uuidd:/usr/sbin/nologin
tcpdump:x:108:113::/nonexistent:/usr/sbin/nologin
sshd:x:109:65534::/run/sshd:/usr/sbin/nologin
landscape:x:110:115::/var/lib/landscape:/usr/sbin/nologin
pollinate:x:111:1::/var/cache/pollinate:/bin/false
ec2-instance-connect:x:112:65534::/nonexistent:/usr/sbin/nologin
systemd-coredump:x:999:999:systemd Core Dumper:/:/usr/sbin/nologin
ubuntu:x:1000:1000:Ubuntu:/home/ubuntu:/bin/bash
lxd:x:998:100::/var/snap/lxd/common/lxd:/bin/false
user1:x:1001:1001:,,,:/home/user1:/bin/bash
mysql:x:113:119:MySQL Server,,,:/nonexistent:/bin/false
user1@ip-172-31-9-64:/home/ubuntu$
```



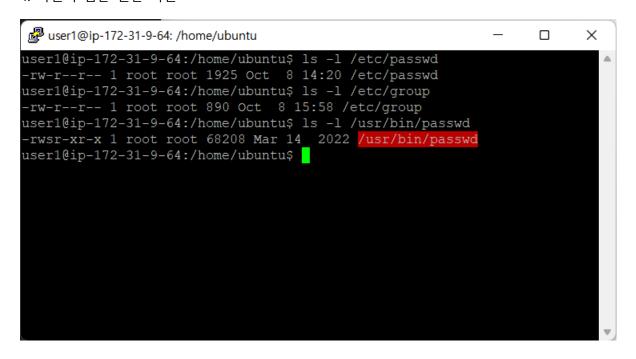
## 3-2. workbench로 mysql 서버 접속



### 3-3. apache 설치 및 서버 접속



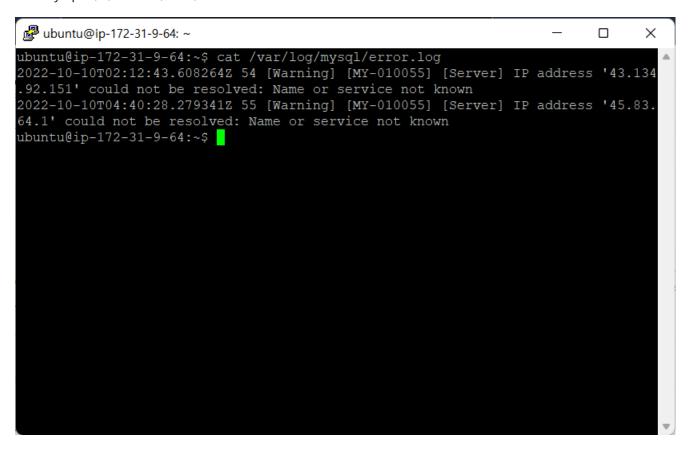
## 4. 파일의 접근 권한 확인



### 5-1. 리눅스 로그 파일 확인

```
## Description | Proceedings | Proceeding | Procedure | Procedure
```

## 5-2. mysql 에러 로그 파일 확인



#### 6. 웹 서버 로그 파일 확인

```
## ubuntu@ip-172-31-9-64:~$ tail -f /var/log/apache2/access.log
20.123.151.135 - [08/oct/2022:16:32:40 +0000] "GET / HTTP/1.1" 200 11173 "-" "Mozilla/5.0 (Windows NT 10.0; Wow64) A
ppleWebKit/537.36 (KHTML, like Gecko) Chrome/51.0.2704.103 Safari/537.36"
20.125.137.138 - [08/oct/2022:16:45:54 +0000] "GET / EDT / EDT
```