Project #3

SQL injection Setup Instruction

SEED Security Labs

• You can explore existing security problems in form of labs



SQL Injection Attack Lab

- [SEED 2.0] [Web Security] [SQL Injection Attack Lab]
 - Lab page: https://seedsecuritylabs.org/Labs_20.04/Web/Web_SQL_Injection/
 - Lab document: <u>https://seedsecuritylabs.org/Labs_20.04/Files/Web_SQL_Injection/Web_SQL_Injection.pdf</u>
- Prerequisite
 - Read the lab document before you start the lab!
 - Build VM and load pre-build SEED VM (you can use cloud instead of using local machine):
 - https://seedsecuritylabs.org/labsetup.html
 - Be familiar with Docker environments: https://github.com/seed-labs/seed-labs/seed-labs/blob/master/manuals/docker/SEEDManual-Container.md

Quick Environment Setup Guideline (1/4)

Please be familiar with Docker and VM environment!

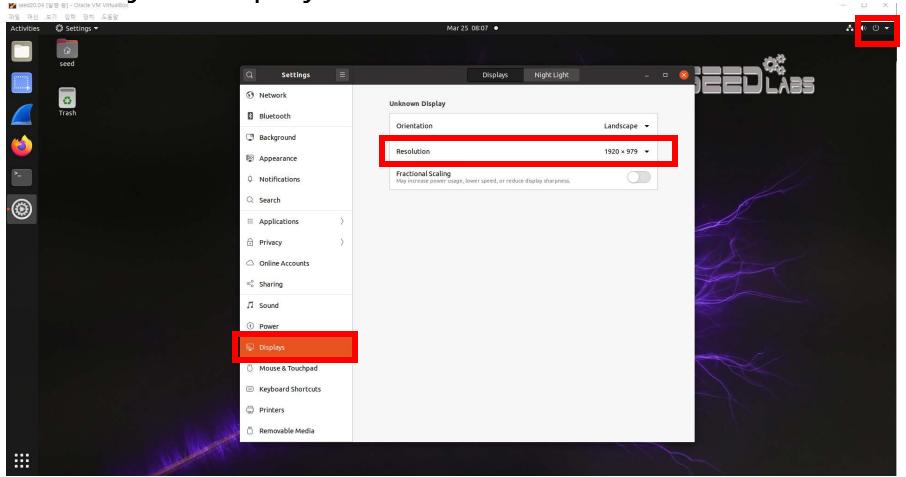
The slides are not sufficient!

- 1. Setup VM with VirtualBox
- 2. Download SQL Injection materials

```
2021-03-25 07:55:58 (1.29 MB/s) - 'Labsetup.zip' saved
[56694/56694]
[03/25/21]seed@VM:~$
[03/25/21]seed@VM:~$
[03/25/21]seed@VM:~$ ls
           Downloads
                         Music
                                   Public
                                               Videos
Documents Labsetup.zip Pictures Templates
[03/25/21]seed@VM:~$ mkdir sqlinjection
[03/25/21]seed@VM:~$ mv Labsetup.zip sqlinjection/
[03/25/21]seed@VM:~$ s
s: command not found
[03/25/21]seed@VM:~$ ls
                                sglinjection Videos
          Downloads Pictures
[03/25/21]seed@VM:~/sqlinjection$ ls
.absetup.zip
```

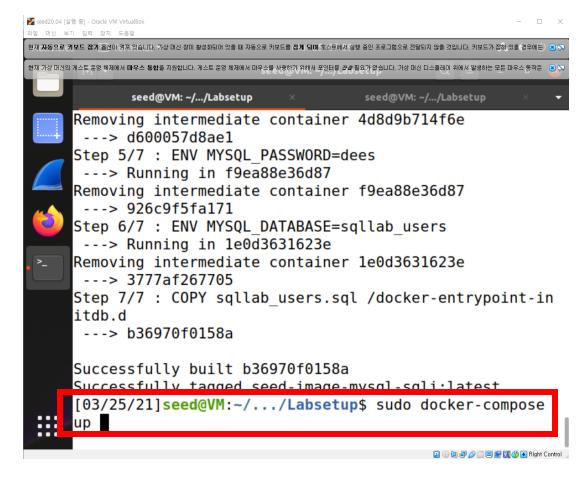
Quick Environment Setup Guideline (2/4)

You can adjust display resolution or use SSH connection.



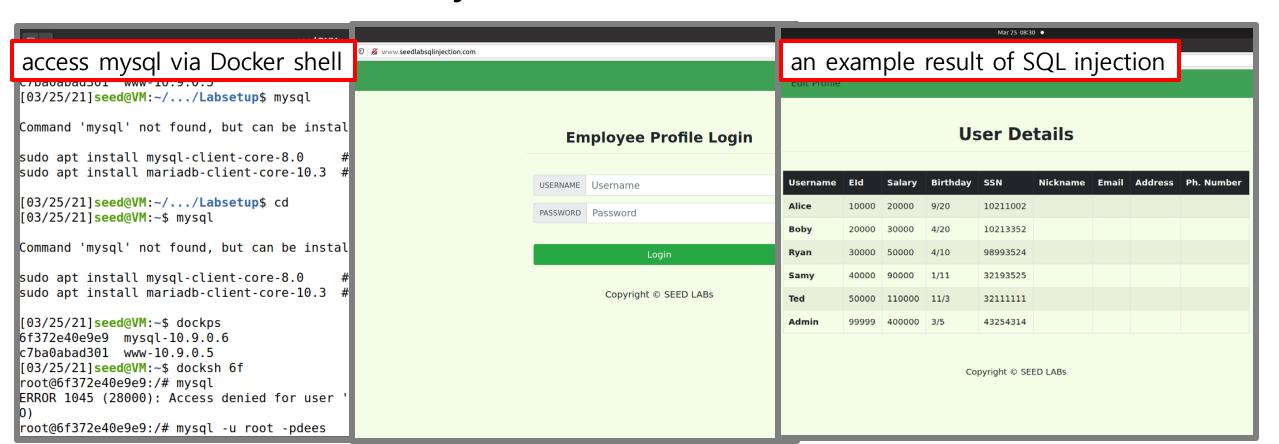
Quick Environment Setup Guideline (3/4)

- Run Docker environment using docker-compose build (dcbuild) and docker-compose up (dcup)
 - https://github.com/seedlabs/seedlabs/blob/master/manuals/docker /docker.md
 - https://github.com/seedlabs/seedlabs/blob/master/manuals/docker /docker-commands.md



Quick Environment Setup Guideline (4/4)

 Check the database schema, find vulnerabilities in web code, and conduct SQL injection!



Submission Guideline

- Report
 - Up to Task 3
 - Inputs and outputs (if needed screenshot).
 - Your analysis
- Due date
 - Apr. 5th