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Once you have your SEED labs 20.04 VM setup, we will be performing all the experiments within this VM. There is no need to clone this VM as we will be creating docker containers within this VM to emulate this. This VM will henceforth be referred to as your host VM.

Lab Setup Instructions

Along with each experiment there is a **Labsetup.zip** file, which contains the docker container configuration file required to set up the environment for each lab. Please use this link to download the zip file for sniffing and spoofing lab.

https://seedsecuritylabs.org/Labs_20.04/Files/Sniffing_Spoofing/Labsetup.zip

After downloading and extracting the lab setup file move into that directory and run the following command:

```
# docker-compose build  
# docker-compose up
```

After running the commands open a new terminal window using the shortcut **Ctrl + Shift + T** or using the GUI.

In the newly opened terminal check if all the required containers have been deployed successfully using the following command :

```
# docker ps
```

```

seed@VM: ~/.../Labsetup × seed@VM: ~/.../Labsetup × seed@VM: ~/.../Labsetup × seed@VM: ~/.../Labsetup × seed@VM: ~/.../Labsetup ×
[07/27/22]seed@VM:~/.../Labsetup$ docker ps
CONTAINER ID        IMAGE               COMMAND             CREATED            STATUS              PORTS
           NAMES
ef1990b7d089        handsonsecurity/seed-ubuntu:large   "bash -c '/etc/init..."   8 minutes ago
                     hostA-10.9.0.5
3cdb62380e58        handsonsecurity/seed-ubuntu:large   "bash -c '/etc/init..."   8 minutes ago
                     hostB-10.9.0.6
81030b329a90        handsonsecurity/seed-ubuntu:large   "/bin/sh -c /bin/bash"   8 minutes ago
                     seed-attacker
[07/27/22]seed@VM:~/.../Labsetup$ █

```

Executing Commands in the Containers

All docker containers will run in the background. To access the various containers we just created and execute the attacks in, we must find the container's id. This is done using the previous “**docker ps**” command.

The first column shows the container IDs for each of the running containers and the names column gives you a description of that container.

To access and execute the commands inside the container we will use the docker exec command or the docksh command.

We will use the container ID of the docker container that we would like to login to in the command given below ie. replace [**container ID**] in the commands below with the required container ID.

Commands :

docker exec -it [containerID] /bin/bash

OR USE

docksh [container ID]

```
[07/27/22]seed@VM:~/.../Labsetup$ docker exec -it 3c /bin/bash
root@3cdb62380e58:/# ifconfig
eth0: flags=4163<UP,BROADCAST,RUNNING,MULTICAST> mtu 1500
    inet 10.9.0.6 netmask 255.255.255.0 broadcast 10.9.0.255
        ether 02:42:0a:09:00:06 txqueuelen 0 (Ethernet)
        RX packets 64 bytes 9498 (9.4 KB)
        RX errors 0 dropped 0 overruns 0 frame 0
        TX packets 0 bytes 0 (0.0 B)
        TX errors 0 dropped 0 overruns 0 carrier 0 collisions 0

lo: flags=73<UP,LOOPBACK,RUNNING> mtu 65536
    inet 127.0.0.1 netmask 255.0.0.0
        loop txqueuelen 1000 (Local Loopback)
        RX packets 0 bytes 0 (0.0 B)
        RX errors 0 dropped 0 overruns 0 frame 0
        TX packets 0 bytes 0 (0.0 B)
        TX errors 0 dropped 0 overruns 0 carrier 0 collisions 0

root@3cdb62380e58:/#
```

Change the container terminal name

Change the terminal name in each container with the appropriate container name and SRN and name.

If the terminal name is not changed, your lab will not be evaluated **AKA zero**.

Run the command in the docker containers to change their names:

```
export PS1="seed-attacker:PES1UG20CSXXX:Name:\w\n\$>"
```

```
seed@VM: ~/.../lab 3          seed@VM: ~/.../
seed-attacker:PES2UG19CSXXX:/ 
$>export PS1="seed-attacker:PES2UG19CSXXX:\w\n\$>" 
seed-attacker:PES2UG19CSXXX:/ 
$>
```

Important

Within the container for the **attacker machine**, move to the **volumes** directory from the root directory before performing any of the experiments inside the containers. This stores the exploit files in the “**volumes**” folder inside the host VM. If not **all files that were created will be lost** when the containers are shut down.

Command:

```
# cd volumes/
```

Finding the Network Interface of the Attacker Machine

The interface of the attacker machine's network adapter is required for most tasks in all labs and is the one displayed along with the attacker machine's IP address. In most cases the attacker machine's IP address is **10.9.0.1** and its interface is generated dynamically.

To get this we run the command :

```
# ifconfig
```

```
root@VM:/volumes# ifconfig  
br-67588b77d6c0: flags=4163<UP,BROADCAST,RUNNING,MULTICAST> mtu 1500  
      inet 10.8.0.1 netmask 255.255.255.0 broadcast 10.8.0.255  
        inet6 fe80::42:3ff:fe5d:193d prefixlen 64 scopeid 0x20<link>  
          ether 02:42:03:5d:19:3d txqueuelen 0 (Ethernet)  
            RX packets 354 bytes 23498 (23.4 KB)  
            RX errors 0 dropped 0 overruns 0 frame 0  
            TX packets 353 bytes 105465 (105.4 KB)  
            TX errors 0 dropped 0 overruns 0 carrier 0 collisions 0  
  
br-7cb72c7cc646: flags=4163<UP,BROADCAST,RUNNING,MULTICAST> mtu 1500  
      inet 10.9.0.1 netmask 255.255.255.0 broadcast 10.9.0.255  
        inet6 fe80::42:46ff:feae:46f9 prefixlen 64 scopeid 0x20<link>  
          ether 02:42:46:ae:46:f9 txqueuelen 0 (Ethernet)  
            RX packets 696 bytes 120886 (120.8 KB)  
            RX errors 0 dropped 0 overruns 0 frame 0  
            TX packets 86 bytes 11867 (11.8 KB)  
            TX errors 0 dropped 0 overruns 0 carrier 0 collisions 0
```