

[illegible]

<b>Name</b>	Compromised Developer Machine I
<b>URL</b>	<a href="https://www.attackdefense.com/challengedetails?cid=1040">https://www.attackdefense.com/challengedetails?cid=1040</a>
<b>Type</b>	Code Repositories : Git

**Important Note:** This document illustrates all the important steps required to complete this lab. This is by no means a comprehensive step-by-step solution for this exercise. This is only provided as a reference to various commands needed to complete this exercise and for your further research on this topic.

**Step 1:** We can observe a project directory on the home directory of root user. On checking the contents, this gives us a hint about the name of code repository and username.

Command: `cd projects/root/project-code/`

```
root@attackdefense:~#  
root@attackdefense:~# cd projects/root/project-code/  
root@attackdefense:~/projects/root/project-code# ls -l  
total 108  
-rw-r--r-- 1 root root    16 May 16 16:59 README.md  
drwxr-xr-x 2 root root  4096 May 16 16:59 files  
-rw-r--r-- 1 root root 40563 May 16 16:59 functions.php  
-rw-r--r-- 1 root root 57739 May 16 16:59 index.php  
root@attackdefense:~/projects/root/project-code#  
root@attackdefense:~/projects/root/project-code#  
root@attackdefense:~/projects/root/project-code# cd ~  
root@attackdefense:~#
```

**Step 2:** If we check `.ssh/config` file, we will find useful information about the user. The user is using `id_rsa.gitlab` key to authenticate to gitlab host.

Command: `cat .ssh/config`

```
root@attackdefense:~# cat .ssh/config
Host gitlab
  Hostname gitlab
  IdentityFile ~/.ssh/id_rsa.gitlab
  IdentitiesOnly yes
root@attackdefense:~#
```

The key is not in .ssh directory. We have to find it and move it to .ssh directory.

Commands:

```
find / -name id_rsa.gitlab 2>/dev/null
cp /var/opt/id_rsa.gitlab .ssh/
```

```
root@attackdefense:~#
root@attackdefense:~# find / -name id_rsa.gitlab 2>/dev/null
/var/opt/id_rsa.gitlab
^C
root@attackdefense:~# cp /var/opt/id_rsa.gitlab .ssh/
root@attackdefense:~#
```

**Step 3:** We can delete the existing directory and clone a new copy of the same project from remote server using the SSH key.

Command: `git clone git@gitlab:root/project-code.git`

```
root@attackdefense:~#
root@attackdefense:~# git clone git@gitlab:root/project-code.git
Cloning into 'project-code'...
The authenticity of host 'gitlab (192.5.174.3)' can't be established.
ECDSA key fingerprint is SHA256:chQ01keq/jr/nQh58gC9c1l/Y/NAd+eE9esaZyjVaMg.
Are you sure you want to continue connecting (yes/no)? yes
Warning: Permanently added 'gitlab,192.5.174.3' (ECDSA) to the list of known hosts.
remote: Enumerating objects: 11, done.
remote: Counting objects: 100% (11/11), done.
remote: Compressing objects: 100% (8/8), done.
remote: Total 11 (delta 0), reused 0 (delta 0)
Receiving objects: 100% (11/11), 33.21 KiB | 11.07 MiB/s, done.
root@attackdefense:~#
```

**Step 4:** We can find flag.txt file in the newly cloned directory which contains the flag.

Commands:

```
ls -l project-code
```

```
cat project-code/flag.txt
```

**Flag:** f9a1e58bde48c2b79c712dc4208a3630



## References:

1. Docker (<https://www.docker.com/>)
2. Omnibus Gitlab (<https://github.com/gitlabhq/omnibus-gitlab>)