## Step 1: Create a codepath directory:

Download the <u>Starter Repo</u> to your VM (make sure you are in the ~ directory so filepaths are consistent) with the command wget https://github.com/codepath/project2/archive/main.zip.

## Step 2: Set Permissions for Attack Scripts

```
(kali@ kali)-[/home/codepath/project2-main]
$ chmod u+x attack-a attack-b attack-c

(kali@ kali)-[/home/codepath/project2-main]
$ sudo systemctl start auditd
```

## Step 3:

**Configure Audit Rules to Monitor File Changes** 



## Restart Audit:

```
- (kali© kali)-[/home/codepath/project2-main/protected_files]
-$ sudo nano /etc/audit/rules.d/audit.rules
- (kali© kali)-[/home/codepath/project2-main/protected_files]
-$ sudo auditctl -l
w /home/codepath/project2-main/protected_files/car_sales.csv -p w -k file_watch_car_sales
- (kali© kali)-[/home/codepath/project2-main/protected_files]
-$ sudo nano /etc/audit/rules.d/audit.rules
- (kali© kali)-[/home/codepath/project2-main/protected_files]
-$ sudo systemctl restart auditd
- (kali© kali)-[/home/codepath/project2-main/protected_files]
-$ sudo auditctl -l
w /home/codepath/project2-main/protected_files/car_sales.csv -p w -k file_watch_car_sales
w /home/codepath/project2-main/protected_files/car_sales.csv -p w -k file_watch_dolly
w /home/codepath/project2-main/protected_files/car_sales.csv -p w -k file_watch_dolly
w /home/codepath/project2-main/protected_files/car_sales.csv -p w -k file_watch_loggy
w /home/codepath/project2-main/protected_files/car_sales.csv -p w -k file_watch_loggy
w /home/codepath/project2-main/protected_files/squeky.txt -p w -k file_watch_oakley
w /home/codepath/project2-main/protected_files/sycley.xt -p w -k file_watch_squeky
```

Step 4: Run the Attack Scripts

Step 5: Analyze Audit Logs to Identify Changes

```
(kali⊚ kali)-[/home/codepath/project2-main/protected_files]

$ ll

total 48
-rw-rw-r-- 1 kali kali 1891 Feb 27 2024 car_sales.csv
-rw-rw-r-- 1 kali kali 3465 Oct 3 01:15 cloudia.txt
-rw-rw-r-- 1 kali kali 2814 Feb 27 2024 dolly.txt
-rw-rw-r-- 1 kali kali 2520 Feb 27 2024 dolly.txt
-rw-rw-r-- 1 kali kali 2520 Feb 27 2024 loggy.txt
-rw-rw-r-- 1 kali kali 5217 Oct 3 01:16 oakley.txt
-rw-rw-r-- 1 kali kali 3520 Oct 3 01:16 precipitation.csv
-rw-rw-r-- 1 kali kali 3508 Oct 3 01:16 squeaky.txt
-rw-rw-r-- 1 kali kali 5308 Oct 3 01:16 squeaky.txt
-rw-rw-r-- 1 kali kali 5308 Oct 3 02:16 squeaky.txt
-rw-rw-r-- 1 kali kali 5308 Oct 3 02:16 squeaky.txt
-rw-rw-r-- 1 kali kali 654 Feb 27 2024 tosty.txt
-rw-rw-r-- 1 kali kali 1654 Feb 27 2024 website.js

(kali⊚ kali)-[/home/codepath/project2-main/protected_files]

$ date

Thu Oct 3 01:17:11 AM EDT 2024
```

