

SKF write-ups

# Python - Command Injection (CMD)

## Running the app

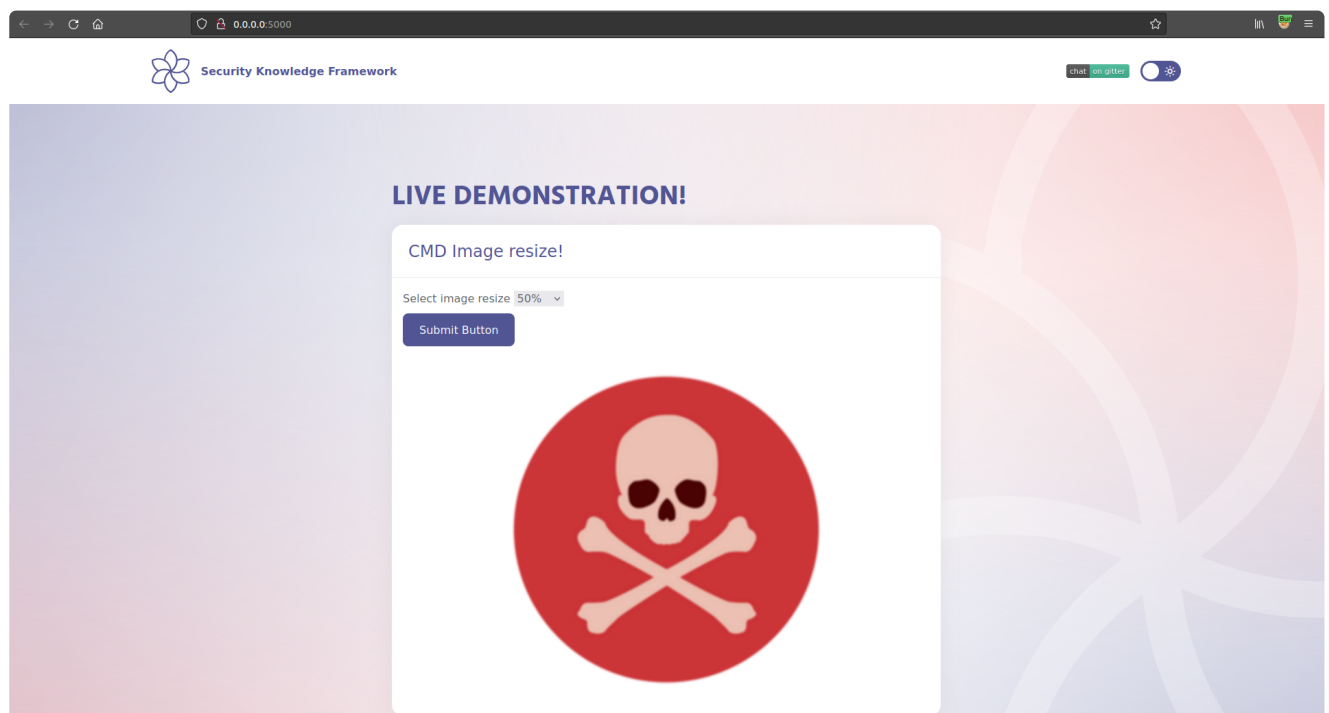
```
$ sudo docker pull blabla1337/owasp-skf-lab:cmd
```

```
$ sudo docker run -ti -p 127.0.0.1:5000:5000 blabla1337/owasp-skf-lab:cmd
```

✓ Now that the app is running let's go hacking!

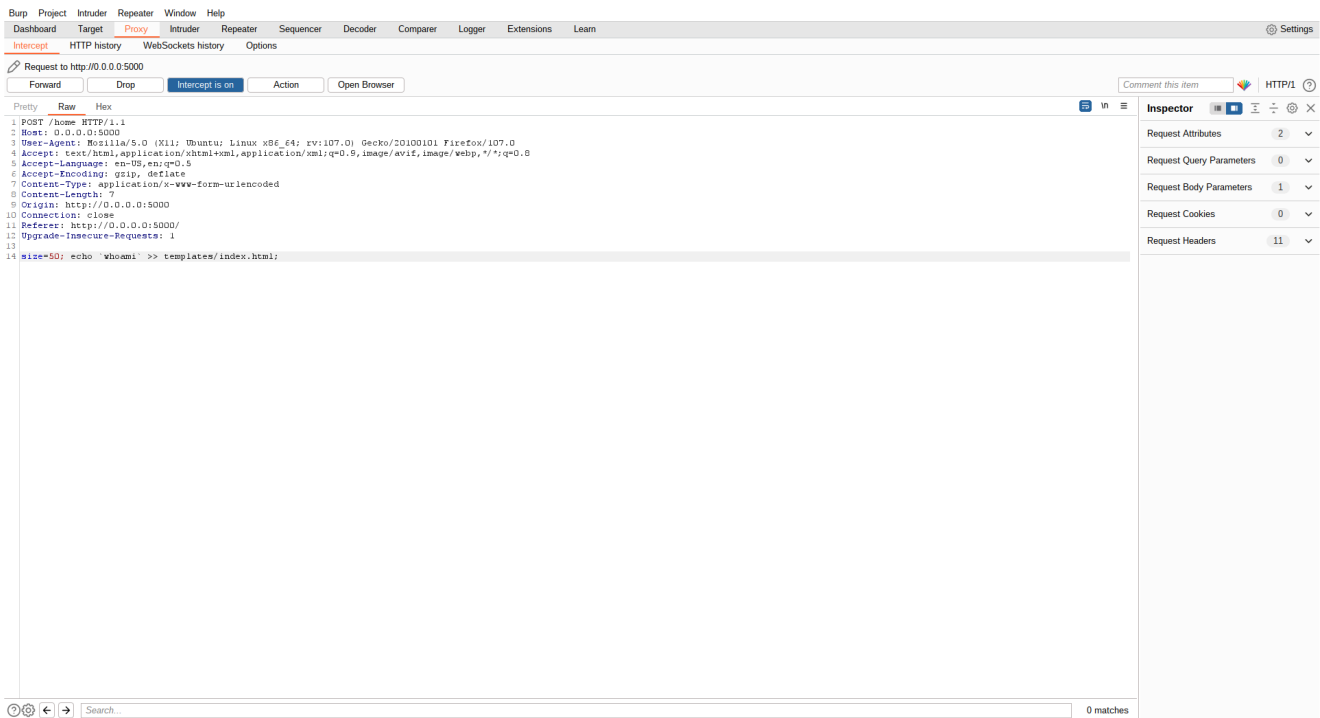
## Reconnaissance

The command injection is an attack in which the goal is execution of arbitrary commands on the host operating system via a vulnerable application. Command injection attacks are possible when an application passes unsafe user supplied data (forms, cookies, HTTP headers etc.) to a system shell. In the first step, the attacker needs to inspect the functioning of the web app in order to find possible injection points. When we start the application we can see that there is an image and the option to resize the image.

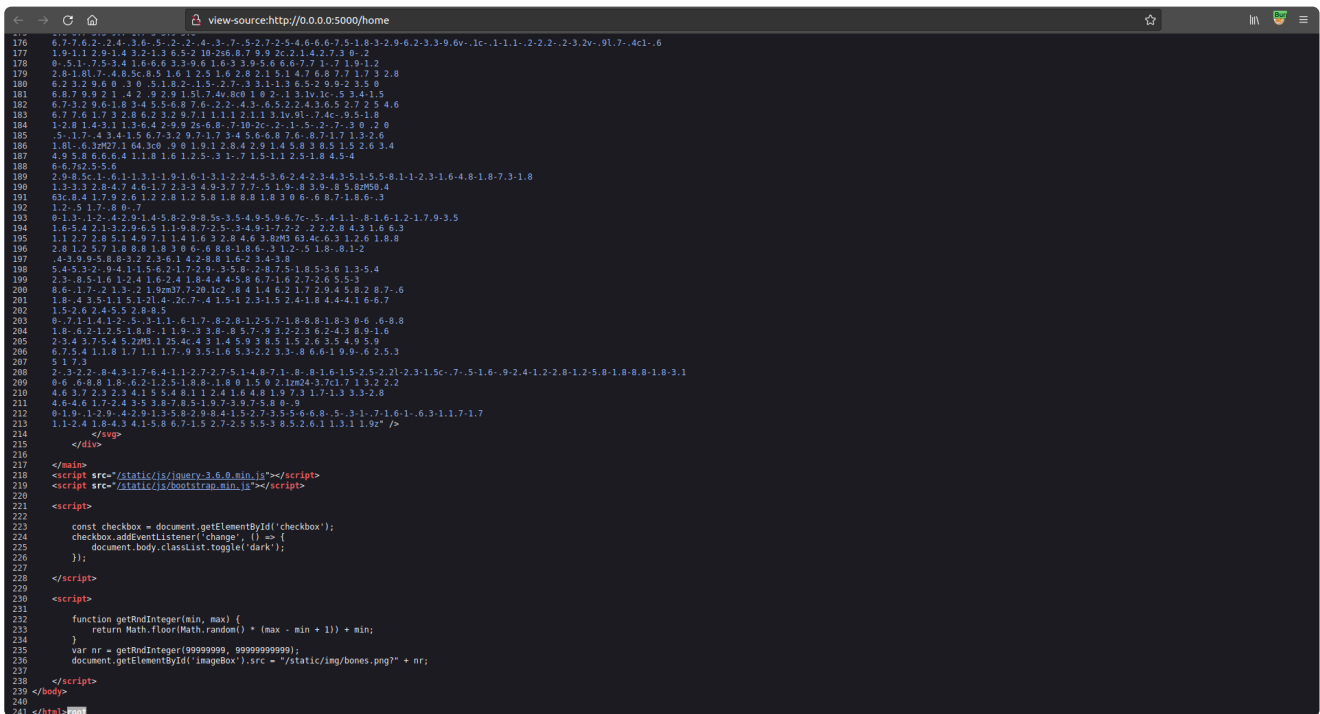


Now, we are going to select a value and press the button.





Now we access the source code of the website



to check that the output of the whoami command ("root") was appended at the end of the source code. As we can see, the output of the command whoami, is showing us the privilege of the target user in the target system and that the web app is actually vulnerable to OS command injection.

## Additional sources



Command Injection | OWASP Foundation

