



Accessing BusyBee with our own Http Proxy

Secure From Scratch



LAB: HTTP Proxy to BusyBee

5 min

Change the proxy to connect to BusyBee:

```
public class ProxyMain {  
    private static final int BROWSER_PORT = 8070;  
    private static final String TARGET_DOMAIN = "localhost";  
    private static final int TARGET_PORT = 8080;
```

Check that it works:

1. Execute (or restart) the BusyBee application server
2. Execute (or restart) the HttpProxy application
3. Browse to localhost:8070/

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LAB: HTTP Proxy to BusyBee - Filtering 1

5 min

The proxy shows every request ==> A lot of output

We can filter to see only the requests we want:

```
public class ProxyConnectionHandler implements Runnable {  
    private static final String[] INCLUSION_FILTERS =  
        new String[] { "/login" };  
}
```

Execute (or restart) the HttpProxy (**do not restart BusyBee!**)

Login into BusyBee, via the Proxy: localhost:8070/login

1. What sensitive information is in the communication?

IMPORTANT: Successful login redirect back to 8080!

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LAB: HTTP Proxy to BusyBee - Filtering 2

6 min

Change the filter and restart the HttpProxy:

```
public class ProxyConnectionHandler implements Runnable {  
    private static final String[] INCLUSION_FILTERS =  
        new String[] { ".png", ".jpg" };
```

Execute (or restart) the HttpProxy (**do not restart BusyBee!**)

Surf to localhost:8070/main/main.html

!!! IMPORTANT NOTE: Successful login redirects back to 8080! You must surf to 8070 manually!

1. What is the Content-Type for the different images?

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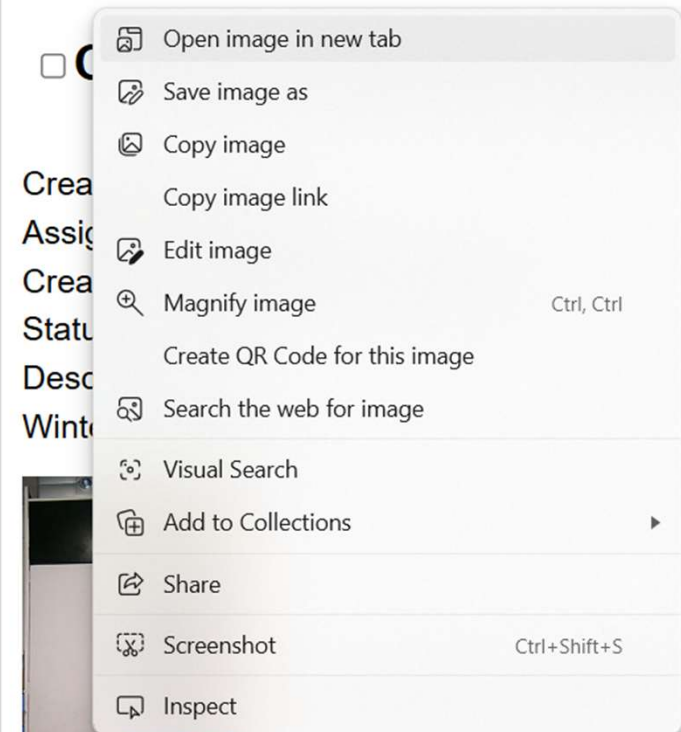
LAB: HTTP Proxy to BusyBee - Prepare to Add a Header

5 min

In the browser -
open one of the tasks with Images

Right-click the image and choose:
"Open image in new tab"

1. Is the image displayed correctly?
2. What is the Content-type of the response?



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LAB: HTTP Proxy to BusyBee - Adding a Header

5 min

We can add a Content-type header for the image:

```
public class ProxyConnectionHandler implements Runnable {  
    ...  
    private static final String[] RESPONSE_HEADERS_TO_ADD  
        = new String[] { "Content-Type: image/jpeg" };  
-or- = new String[] { "Content-Type: image/png" };
```

Execute (or restart) the HttpProxy (**do not restart BusyBee!**)

Refresh the tab with the image.

1. Is it displayed correctly?