

# Information disclosure - Source code disclosure via backup files

## Lab Report

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Submitted By:

**Name:** Arsalan Khan

**Position/Role:** Internee

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### Platform:

PortSwigger

### Objective:

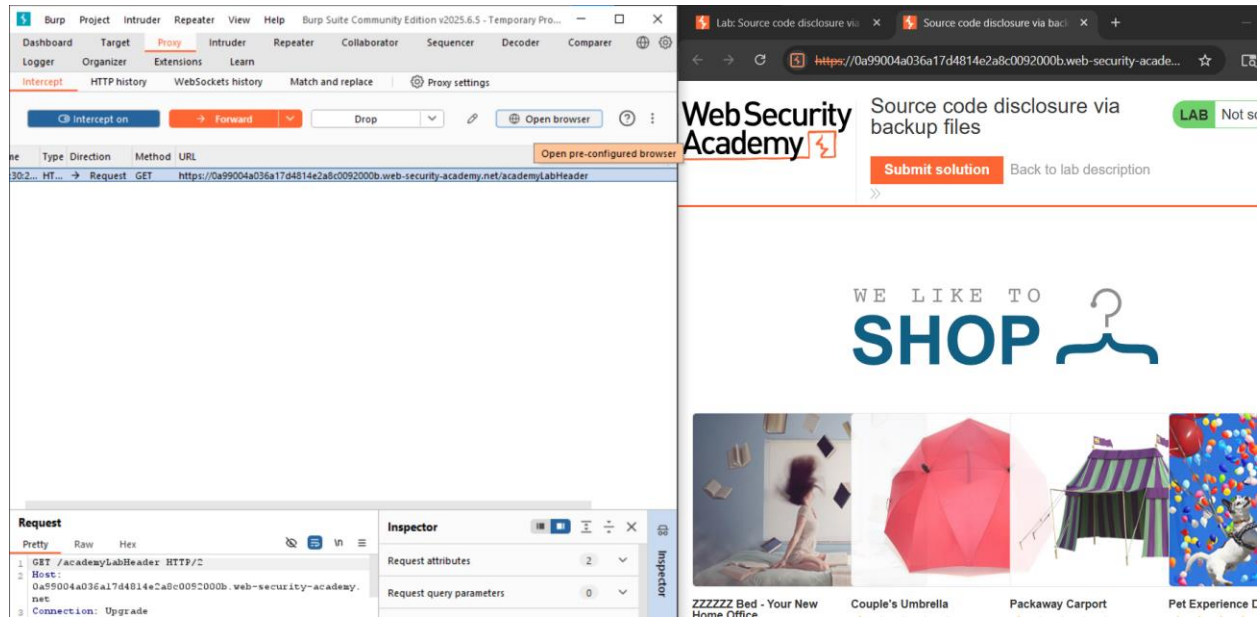
Discover a backup source code file exposed in a hidden directory, extract the hard-coded PostgreSQL database password, and submit it to solve the lab.

### Tools Used:

- Burp Suite Community

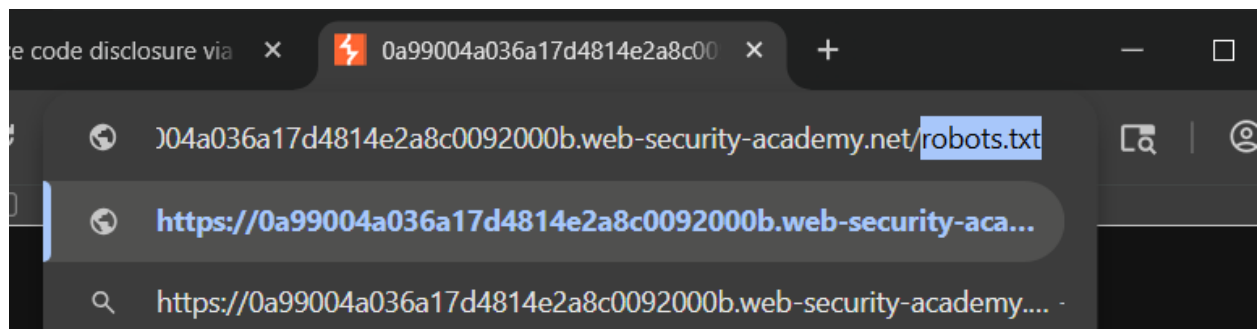
## 1. Access the Lab

- Opened the homepage to begin analysis.

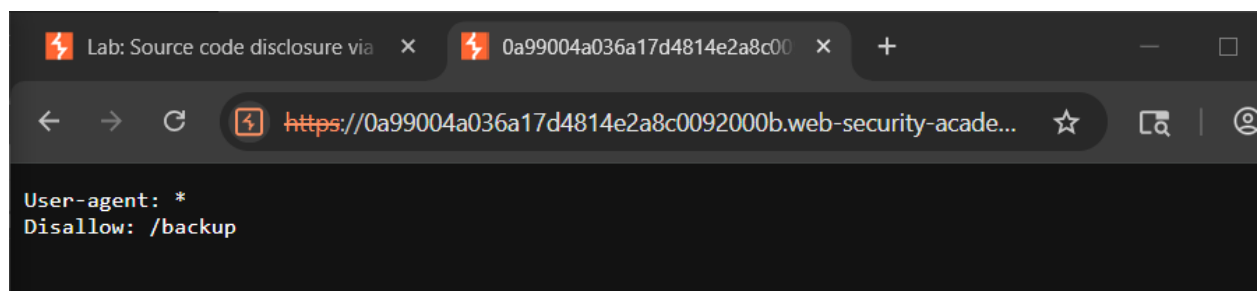


## 2. Check robots.txt for Hidden Paths

- Appended /robots.txt to the base URL:

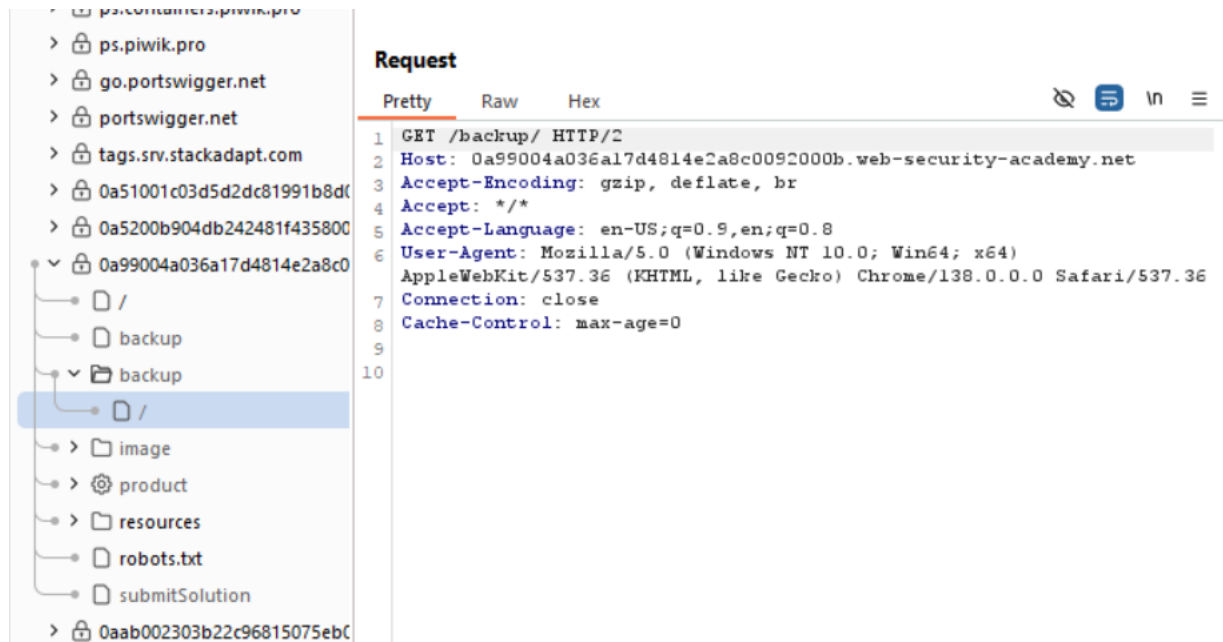


- Found the following entry in the response:



### 3. Explore the /backup Directory

- Navigated to /backup:

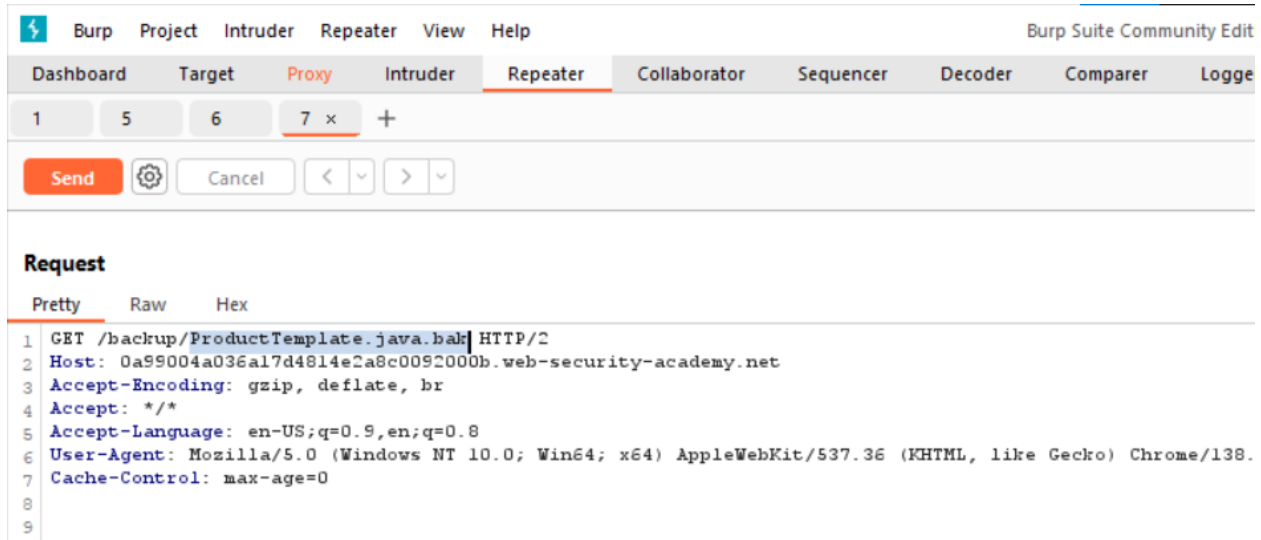


### 4. Send the Backup File Request to Repeater

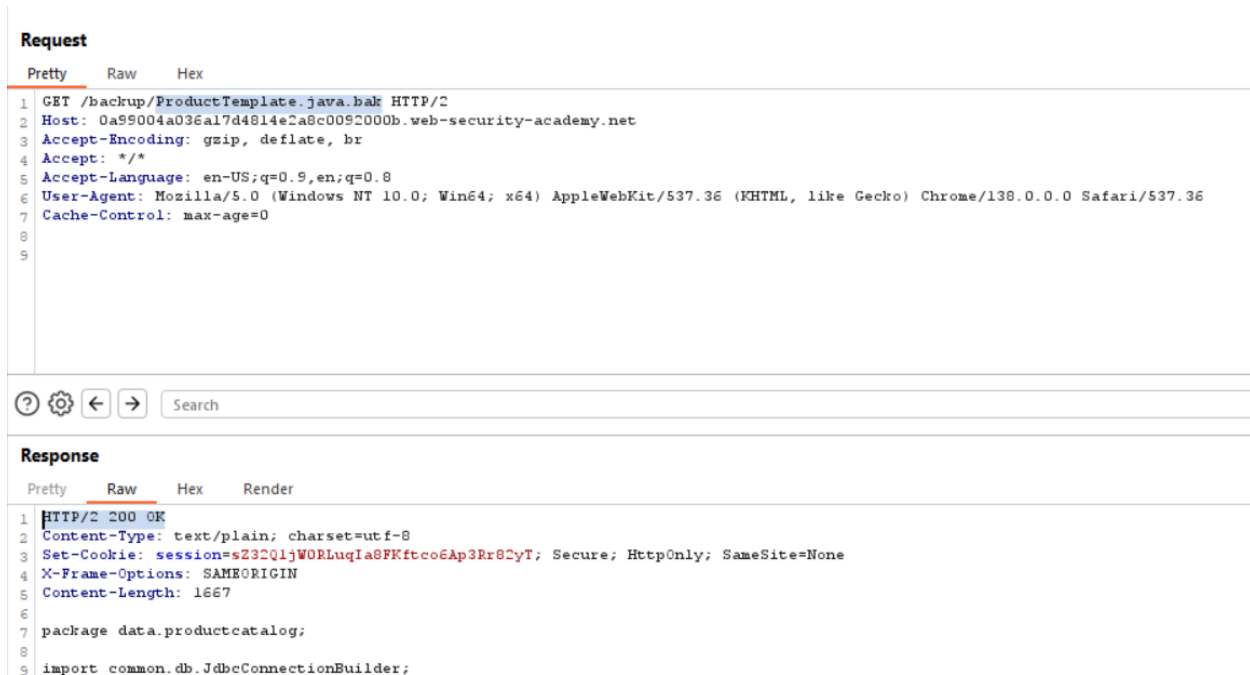
- In Burp Suite, sent the request to /backup/ to Repeater to manually inspect contents.
- Found the backup Java file: ProductTemplate.java.bak



- Appended the filename directly to the /backup/ path in the Repeater URL field:



- Sent the request and received the response containing the source code.



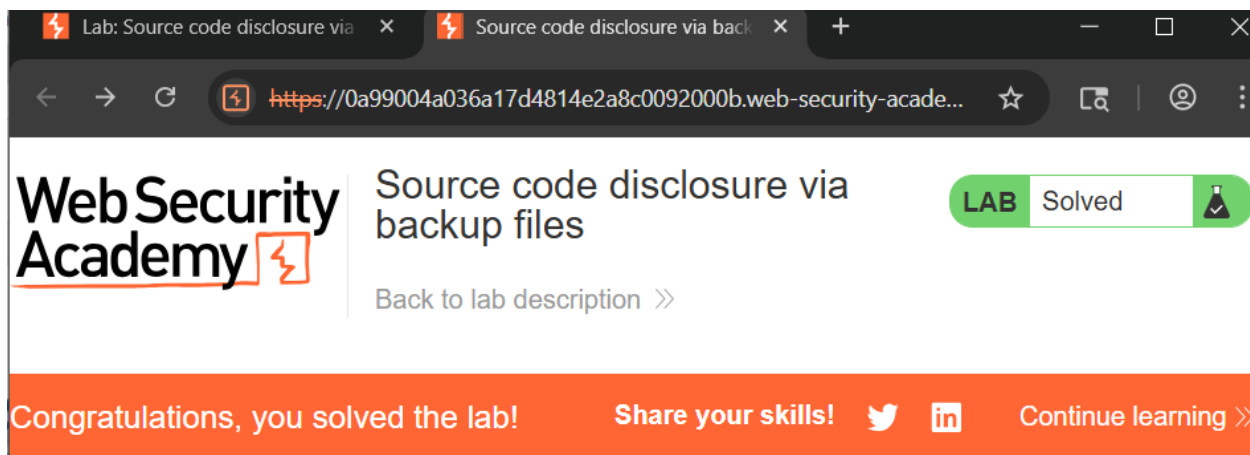
## 5. Identify and Extract the Password

- Located the `getConnection()` or similar method, containing a line like:



```
32 {
33   inputStream.defaultReadObject();
34
35   ConnectionBuilder connectionBuilder = ConnectionBuilder.from(
36     "org.postgresql.Driver",
37     "postgresql",
38     "localhost",
39     5432,
40     "postgres",
41     "postgres",
42     "7eage5ssbvd2llzx5gvvxvpcq3r4p0pb"
43   ).withAutoCommit();
44   try
45   {
46     Connection connect = connectionBuilder.connect(30);
47     String sql = String.format("SELECT * FROM products WHERE id = '%s' LIMIT 1", id);
```

## 6. Submit the Solution



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Source code disclosure via backup files

LAB Solved

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## Vulnerability Analysis:

- **Vulnerability Type:** Sensitive file exposure via backup file in web-accessible directory
- **Root Cause:** Backup file left in a public location without proper access control
- **Sensitive Data Leaked:** Hard-coded PostgreSQL database password
- **Risk Level:** High – Credentials leakage can lead to unauthorized database access

## Mitigation Recommendations:

- Never store or deploy backup files (.bak, .old, .zip) in web-accessible directories.
- Configure the web server to block access to sensitive paths and file extensions.
- Use .gitignore, deployment automation, or secure pipelines to prevent accidental file exposure.
- Scan your environment regularly for exposed files using automated tools.
- Avoid hard-coding sensitive credentials in source code. Use environment variables or secret managers.

## Conclusion:

This lab illustrates how backup files can unintentionally leak source code and credentials. By discovering the `/backup/ProductTemplate.java.bak` file via `robots.txt`, we extracted the hard-coded database password and successfully completed the lab.

End...