

Day 13: Exploiting Insecure Deserialization

The task is to identify a vulnerable application, exploit an insecure deserialization vulnerability using Burp Suite in Swigger Lab, and demonstrate its impact. This report outlines the steps taken and the findings of this practical exercise.

Insecure deserialization is a critical security vulnerability that occurs when an application deserializes untrusted data without proper validation, potentially enabling an attacker to execute arbitrary code, gain unauthorized access, or disrupt the application's functionality.

Step 1: Identifying Swigger Lab and the Vulnerable Application:

I selected Swigger Lab as the environment for this practical exercise, known for its realistic and educational web security challenges.

Within Swigger Lab, I identified a vulnerable application that was intentionally designed to contain an insecure deserialization vulnerability.

Step 2: Initial Testing:

I initiated initial testing of the vulnerable application to confirm the presence of the insecure deserialization vulnerability.

Step 3: Burp Suite Configuration:

I configured Burp Suite, a widely used web security testing tool, to intercept and manipulate requests and responses.

Step 4: Payload Crafting:

Leveraging Burp Suite's capabilities, I crafted payloads specifically designed to trigger the insecure deserialization vulnerability within the application.

Step 5: Exploitation Using Burp Suite:

I injected the crafted payloads into the application, particularly in areas where deserialization of user-supplied data occurred.

I leveraged Burp Suite to intercept and modify requests and responses, facilitating the exploitation process.

Step 6: Demonstrating Impact:

Upon successful exploitation, I documented the impact, which included actions performed, data accessed, or disruptions caused by the insecure deserialization vulnerability.

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Burp Project Intruder Repeater Window Help Param Miner Backslash Hackvector

User options xssValidator SQLPy JSON Web Tokens AutoRepeater Autorize Sentinel Beautifier CO2 Hackvector

Dashboard Target Proxy Intruder Repeater Sequencer Decoder Comparer Extender Project options

Intercept HTTP history WebSockets history Options

Forward Drop Intercept is off Action Open Browser Comment this item

Raw Params Headers Hex Hackvector

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WebSecurity Academy

Using application functionality to exploit insecure deserialization

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LAB Not solved

Home Account login

Login

Username wiener

Password *****

Log in

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LAB Not solved

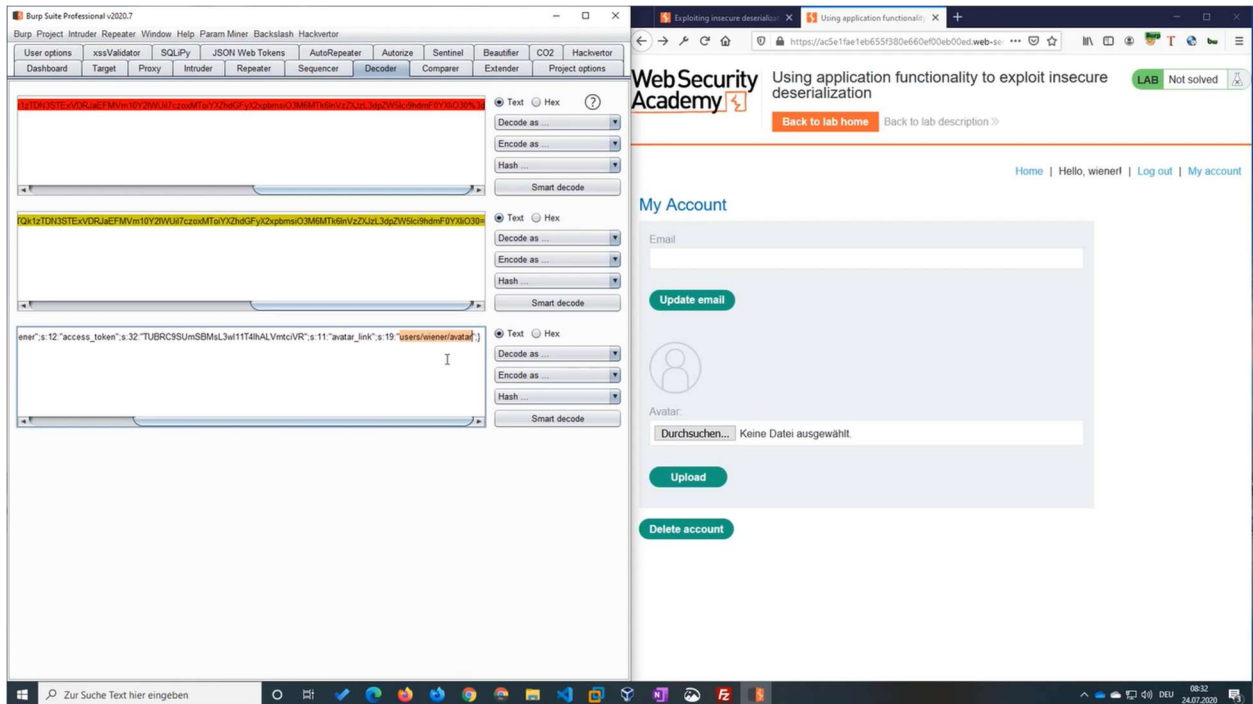
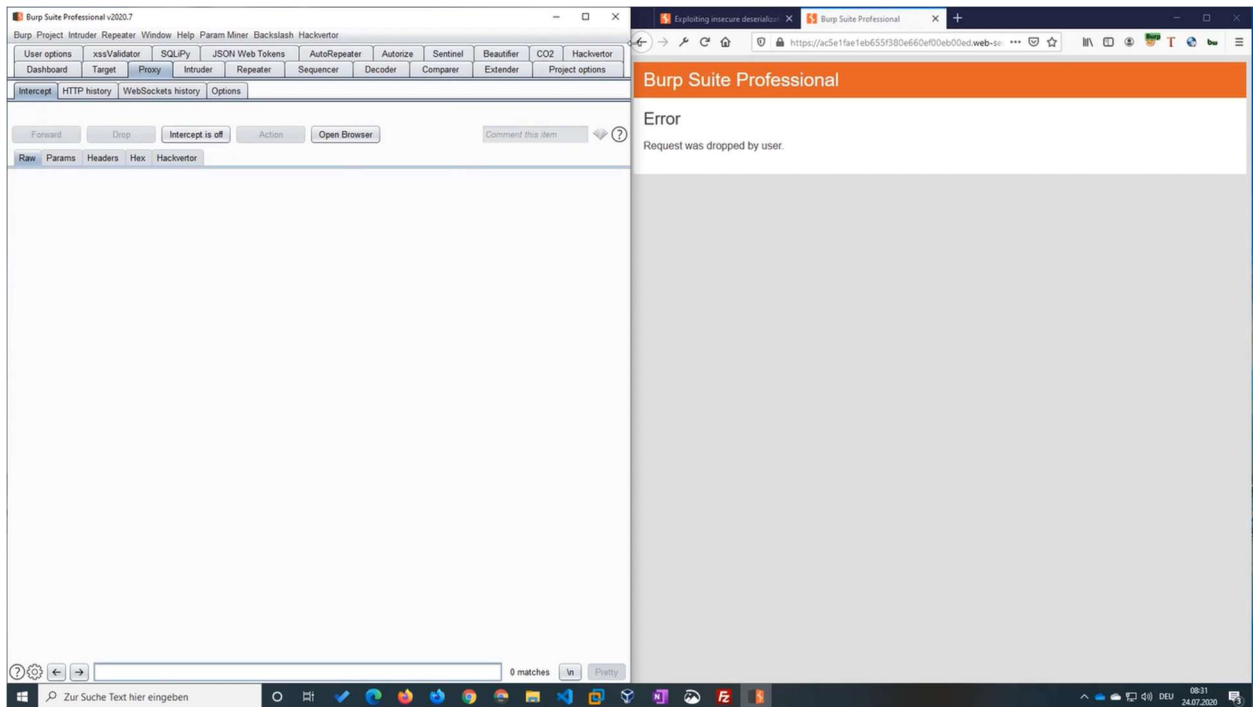
Home Hello, wiener Log out My account

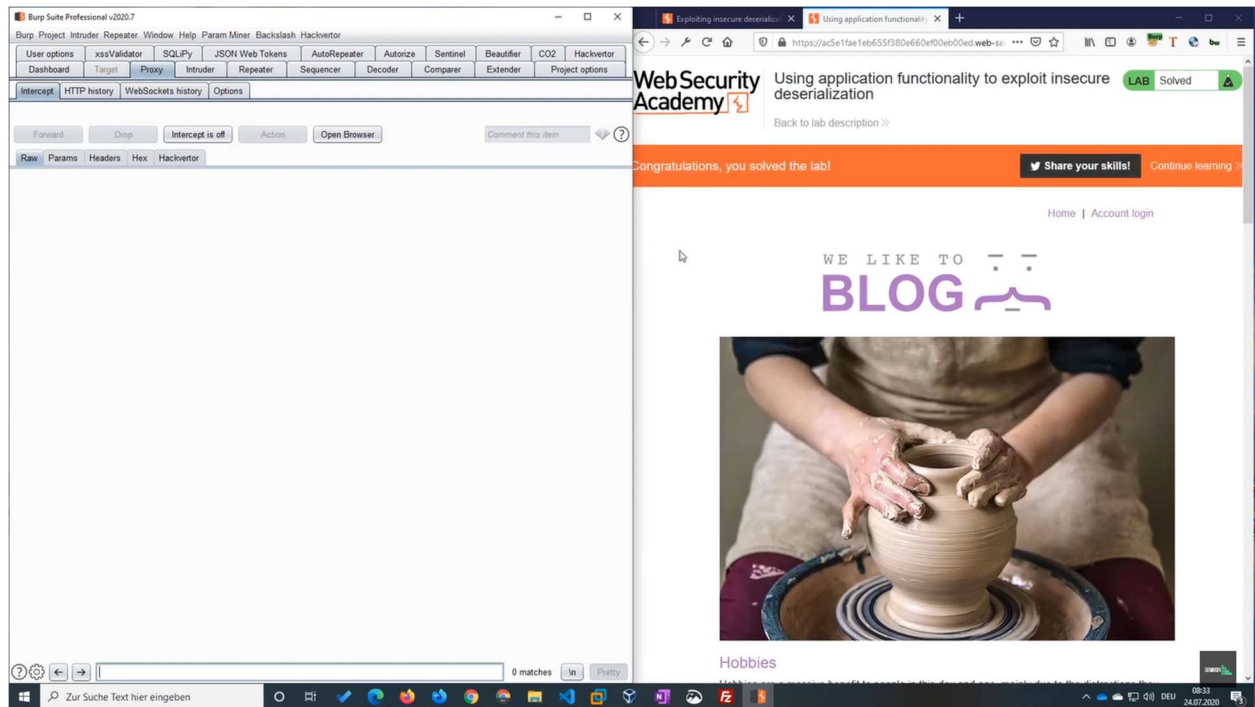
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Conclusion:

web application using Burp Suite in Swigger Lab. By identifying and exploiting this vulnerability, I gained practical experience in understanding the risks associated with insecure deserialization and its potential impact.

Insecure deserialization is a severe security concern that can lead to unauthorized code execution and data breaches. Such exercises serve as invaluable learning experiences and underscore the importance of proactive security testing and securing applications against deserialization vulnerabilities.