

WebGoat

Lab Prep

- **Open Kali VM from earlier with 4+GB of RAM on a Bridged Connection**
 - X:\VMS\S22\SEC-260\Kali_VM.ova
 - user: student + pass:2616
- **Can use own hardware, or VPN | Viewportal + RDP into cyber.local solution**

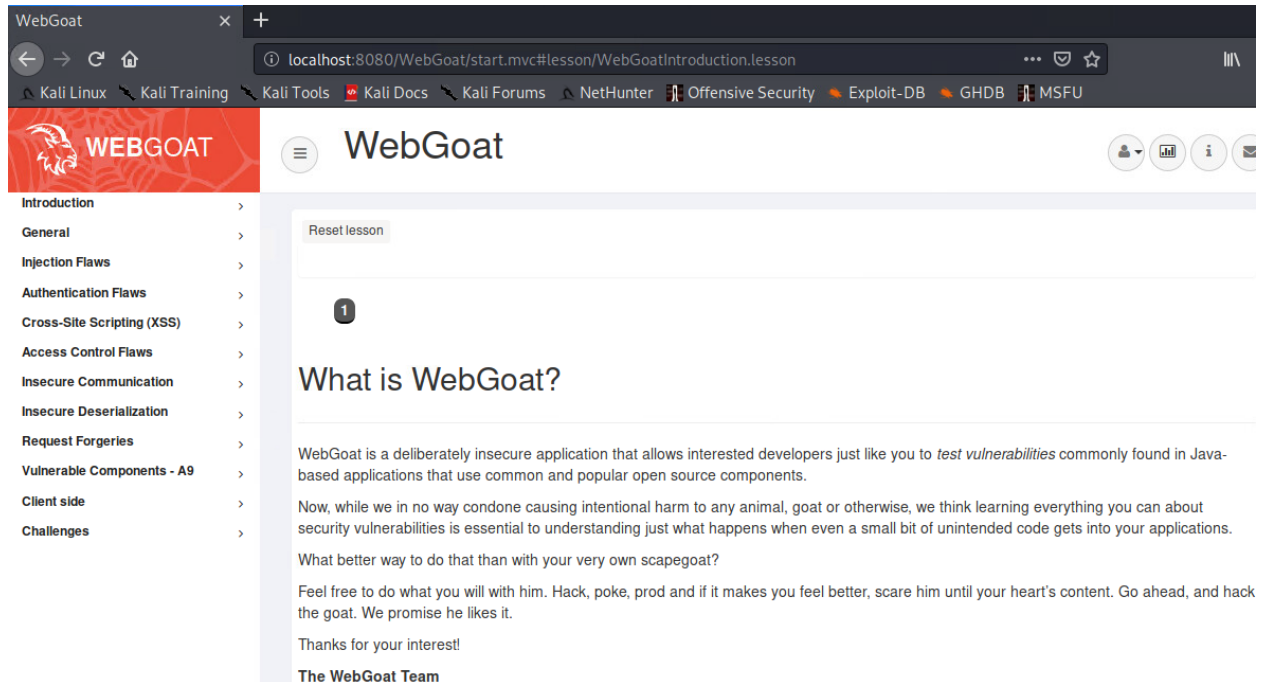
1. Downloading and Installing Webgoat

- Open up the command terminal
- Download WebGoat:
 - wget
`https://github.com/WebGoat/WebGoat/releases/download/v8.0.0.M24/webgoat-server-8.0.0.M24.jar`
- Optional:* Depending on your Kali version, you might need to ensure Java version 11 is installed with “java -version” which is required to set up WebGoat. If you have a version under that, then you’ll need to upgrade/install.
- Install and Run WebGoat (May take a few moments, and it will be ready once the console stops adding output with the last line displaying “Started StartWebgoat”).
 - `java -jar webgoat-server-8.0.0.M24.jar --server.port=8080 --server.address=localhost`

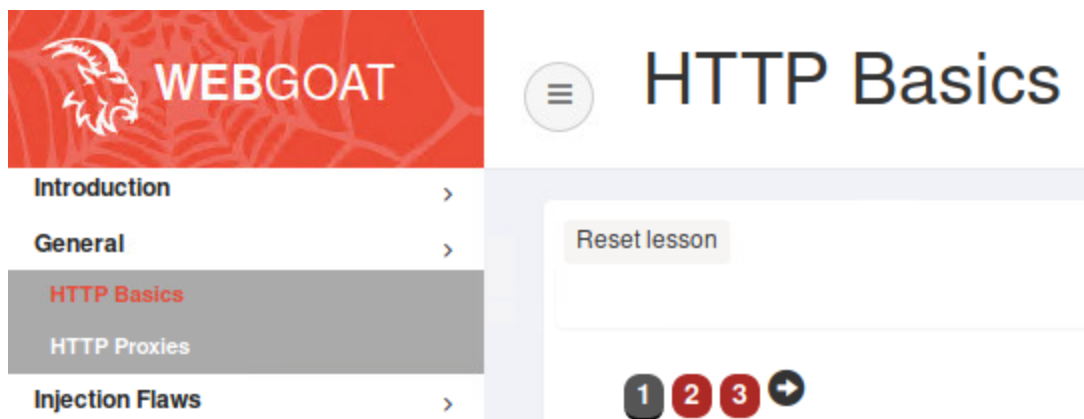
FYI: Keep Command Console open, similar to other Linux apps.

2. Getting Started in Webgoat

- Open a Web Browser within Kali
- Navigate to the webpage <http://localhost:8080/WebGoat/login>
- Click “Register a new user” and create a user using the syntax <first name + last name>.
 - Make sure the password is not anything you do not want seen in deliverables! :)



General: HTTP Basics Module



- Read concepts
- Go through the “Try it” section, and “The Quiz”.

Hint: For the quiz section, insert & submit the correct answer for 1st question, which then creates a POST with a very obvious filename viewed via Inspect Element's Network tab. This file contains the answer via a Parameter for the 2nd question.

Deliverable 1: Screenshots of the “Try It” section, and of successful Quiz output.

Injection Flaws: SQL Injection

- c. Read concepts
- d. Go through the two “Try It” sections: String and Numeric SQLi.

Deliverable 2: Screenshots of dumped data from both “Try it” sections for SQL Injection.

Cross Site Scripting (XSS): Cross Site Scripting

Cross-Site Scripting (XSS) >

Cross Site Scripting

- e. Go through the first 2 “Try It” Sections: Reflected + Stored
 - i. Reminder: Open Fields == Potential entries :)

Deliverable 3: Screenshots of first 2 “Try It” Sections completed.

