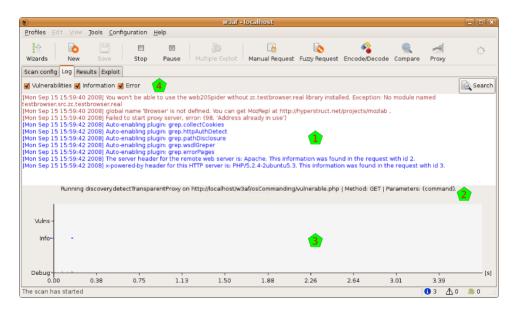


- ➤ W3af (web application attack and audit framework) is an opensource web application security scanner.
- ➤ The project provides a vulnerability scanner and exploitation tool for Web applications.
- ➤ It provides information about security vulnerabilities and aids in penetration testing effort.
- Users have the choice between graphic user interface and a command-line interface.
- ➤ W3af identifies most web application vulnerabilities using more than 130 plug-ins. After identification vulnerabilities like SQL injection, OS commanding, remote file inclusion, cross-site scripting, and unsafe file uploads, can be exploited in order to gain different types of access to the remote.

### Running the scan:

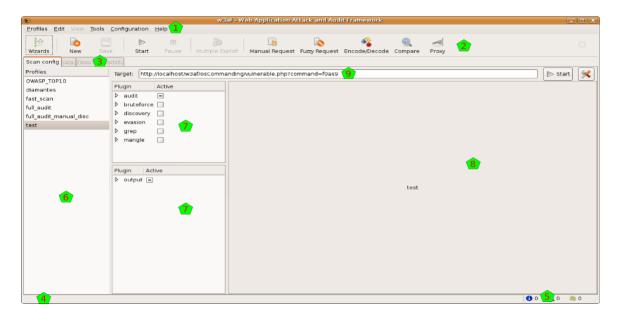


# **Analyzing results:**

➤ You can explore and analyze the scanning results after the scan process is completed (or before it's finished, because the system let's you work concurrently with that process).

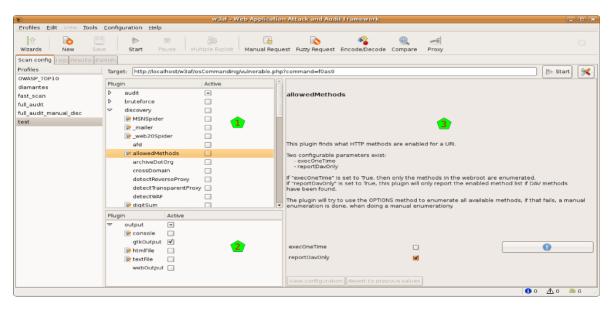
#### General structure:

- > Menu bar
- > Toolbar
- > Notebook Ta
- > Toolbar
- > Found element
- ➤ The Profile
- > The Plugins Configuration Area
- ➤ Target URL.



### > Configuring the scan

> To scan the web sites in different ways there are different plugins that can be configured in different ways.

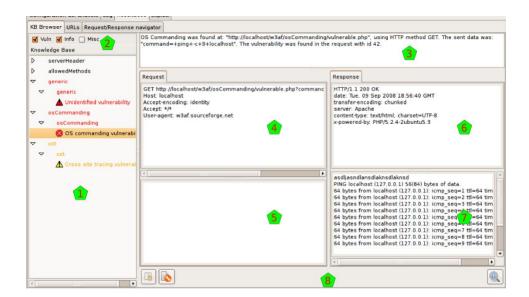


- ➤ The first section has all the scan plugins, in the upper part of the column. There you have the different plugins grouped regarding the scan type. They are separated in:
- ➤ audit
- bruteforce
- > crawl

- infrastructure
- ➤ evasion
- > grep
- ➤ mangle
- ➤ output

## > Using the profiles

In the profiles you can save different configurations. We can think a Profile as the collection of configured plugins and target URL. In the column of the left we can see which plugins do we have:



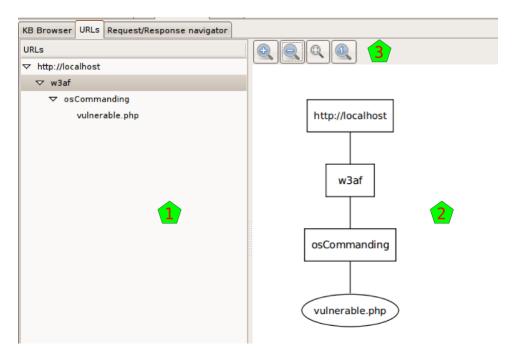
# **Browsing the Knowledge Base**

The Knowledge Base is a collection of discovered items, that can be classified in Vulnerabilities, Informations, and other stuff. The KB Browser tab lets you dive into this information.

#### Site structure

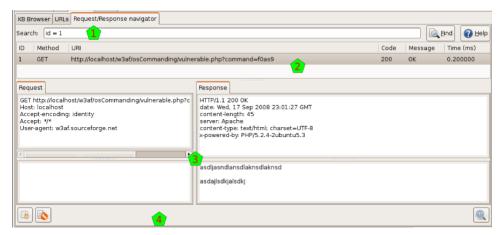
The URLs tab shows the structure of the site that the system worked on. It's separated In two parts, but both parts show

actually the same information, although they show it in different ways.



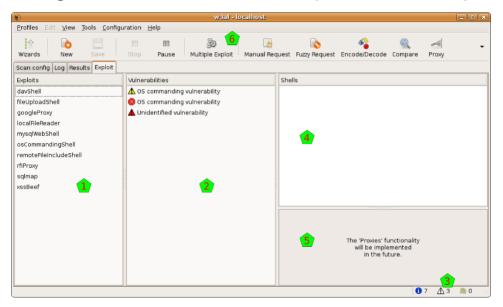
# Requests and responses

In this window you will be able to search for any request (and the associated response) that the system had generated during the scanning.



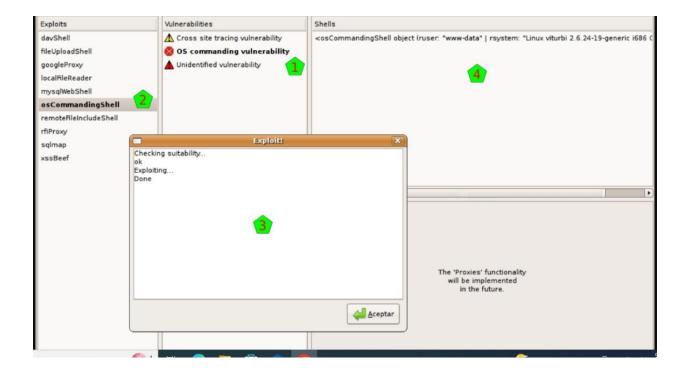
### **Exploitation**

When the scan is running or after the scan finished running, as you can check the results, you also can start with the exploitation. For this, go to the fourth tab in the system, called Exploit:



#### **Executing an exploit:**

Exploits act on vulnerabilities. But not all exploits act on every vulnerabilities. It is well known if any exploit could act on some vulnerability, though, but to be sure and actually exploit it some verification needs to be done. Fortunately, the system easies very much this process to you.

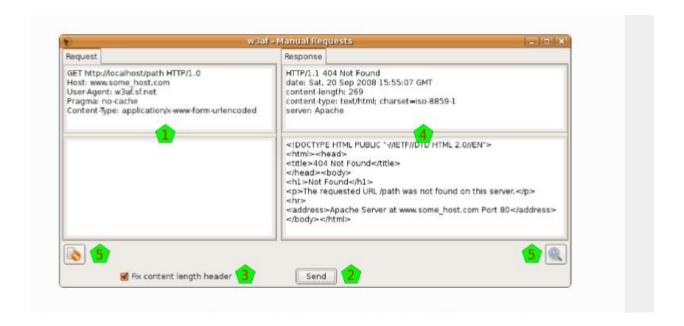


#### **Tools**

Apart from the w3af core functionality, that is to scan for vulnerabilities and exploit them, there are other tools that help you in the day by day work.

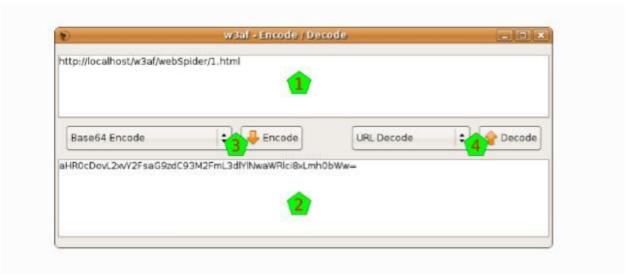
## **Manual Requests**

This tool lets you write and send HTTP requests.



#### **Encode and Decode**

This tool allows you to apply a lot of encoding and decoding functions in the text that you want.



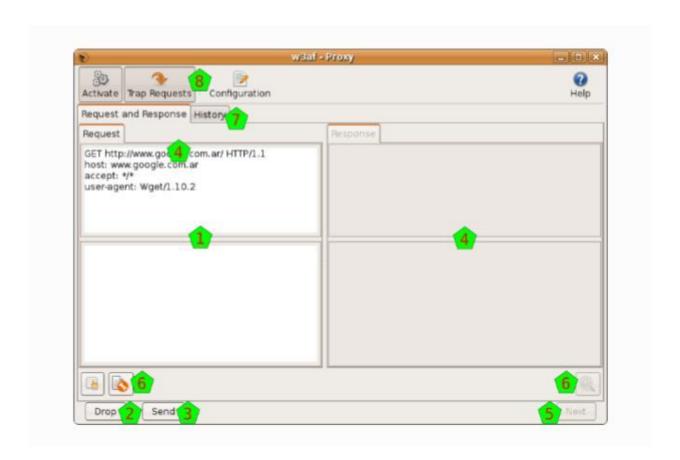
# **Comparing HTTP traffic**

With this tool you will be able to compare different requests and responses.

The Comparator window is separated mainly in two panes: both request and responses that you're comparing. In this tool all the information is concatenated in the same text, to ease the comparison, but you have four buttons to control which part of the information appear in the text: request headers, request body, response headers, and response body.

## Using the Proxy

This tool is a proxy that listen to a port in the machine you're running the w3af program. You can configure any program that issues HTTP request (like your internet browser, for example) to use this proxy.



# **Configurations**

There're different configuration panels all across the w3af system. Here all of them are explained.

# **HTTP** configuration

This section is used to configure URL settings that affect the core and all plugins.



# Miscellaneous configuration

This section is used to configure misc settings that affect the core and all plugins.



# **Advanced target configuration**

This section is used to provide detailed information about the target system.

