

# Audit with w3af (console)

---

## Overview

```
$ w3af_console
w3af>>>
```

Move forward by typing a given option Go back by typing **back**. Type **view** to see a list of configurable options and use the **set** command to change the options.

## Manual audit

### Step 1 - Setup target

```
w3af>>> target
w3af/config:target>>> set target http://example.com
```

Optional : You can setup target OS and Framework

```
w3af/config:target>>> view
|-----|
|-----|
| Setting          | Value    | Description
|-----|
|-----|
| targetOS         | unknown  | Target operating system (unknown/unix/windows)
|-----|
| targetFramework  | unknown  | Target programming framework
|-----|
|                  |          | (unknown/php/asp/asp.net/java/jsp/cfm/ruby/perl)
|-----|
| target           |          | A comma separated list of URLs
|-----|
|-----|
```

### Step 2 - Setup plugins

```
w3af>>> plugins
w3af>>> help
```

```

|-----|
|-----|
| list          | List available plugins.
|-----|
|-----|
| back          | Go to the previous menu.
|
| exit          | Exit w3af.
|
| assert        | Check assertion.
|-----|
|-----|
| audit         | View, configure and enable audit plugins
|
| auth          | View, configure and enable auth plugins
|
| bruteforce    | View, configure and enable bruteforce plugins
|
| discovery     | View, configure and enable discovery plugins
|
| evasion       | View, configure and enable evasion plugins
|
| grep          | View, configure and enable grep plugins
|
| mangle        | View, configure and enable mangle plugins
|
| output        | View, configure and enable output plugins
|-----|
|-----|

```

## Audit plugins

```

w3af/plugins>>> audit <plugin>
w3af/plugins>>> audit
|-----|
|-----|
| Plugin name   | Status | Conf | Description
|-----|
|-----|
| LDAPi        |        |      | Find LDAP injection bugs.
|
| blindSqli     |        | Yes  | Identify blind SQL injection
|
|               |        |      | vulnerabilities.
|

```

buffOverflow			Find buffer overflow vulnerabilities.
dav			Verify if the WebDAV module is properly configured.
eval		Yes	Find insecure eval() usage.
Riancho (			Andres riancho@gmail.com )
fileUpload		Yes	Uploads a file and then searches for the file inside all known directories.
formatString			Find format string vulnerabilities.
frontpage		Yes	Tries to upload a file using frontpage extensions (author.dll).
generic		Yes	Find all kind of bugs without using a fixed
fixed			database of errors.
globalRedirect			Find scripts that redirect the browser to
to			any site.
htaccessMethods			Find misconfigurations in the "<LIMIT>" configuration of Apache.
localFileInclude			Find local file inclusion
vulnerabilities.			
mxInjection			Find MX injection vulnerabilities.
osCommanding			Find OS Commanding vulnerabilities.
phishingVector			Find phishing vectors.
preg_replace			Find unsafe usage of PHPs preg_replace.
redos			Find ReDoS vulnerabilities.
remoteFileInclude		Yes	Find remote file inclusion
vulnerabilities.			
responseSplitting			Find response splitting vulnerabilities.
sqli			Find SQL injection bugs.
ssi			Find server side inclusion
vulnerabilities.			

sslCertificate		Yes	Check the SSL certificate validity (if https
			is being used).
unSSL			Find out if secure content can also be
			fetches using http.
xpath			Find XPATH injection vulnerabilities.
xsrif			Find the easiest to exploit xsrf
			vulnerabilities.
xss		Yes	Find cross site scripting
vulnerabilities.			
xst			Find Cross Site Tracing vulnerabilities.
-----			
-----			

## Output

```
w3af/plugins>>> output <plugin>
w3af/plugins>>> output
```

-----			
-----			
Plugin name	Status	Conf	Description
-----			
-----			
console	Enabled	Yes	Print messages to the console.
csv_file		Yes	Export identified vulnerabilities to a
CSV			file.
emailReport		Yes	Email report to specified addresses.
export_requests		Yes	Export the fuzzable requests found during
			discovery to a file.
gtkOutput			Saves messages to
kb.kb.getData('gtkOutput',			'queue') to be displayed in the UI.
htmlFile		Yes	Print all messages to a HTML file.

textFile		Yes	Prints all messages to a text file.
xmlFile		Yes	Print all messages to a xml file.
-----			
-----			

## Discovery

```
w3af/plugins>>> discovery <plugin>
w3af/plugins>>> discovery
|-----|
|-----|
| Plugin name          | Status | Conf | Description
|-----|
|-----|
| afd                  |        |      | Find out if the remote web
server |
|                      |        |      | has an active filter ( IPS or
WAF    |
|                      |        |      | ).
|
| allowedMethods      |        | Yes  | Enumerate the allowed methods
of an |
|                      |        |      | URL.
|
| archiveDotOrg       |        | Yes  | Search archive.org to find
new   |
|                      |        |      | pages in the target site.
|
| bing_spider         |        | Yes  | Search Bing to get a list of
new   |
|                      |        |      | URLs
|
| content_negotiation |        | Yes  | Use content negotiation to
find new |
|                      |        |      | resources.
|
| detectReverseProxy  |        |      | Find out if the remote web
server |
|                      |        |      | has a reverse proxy.
|
| detectTransparentProxy |        |      | Find out if your ISP has a
|
|                      |        |      | transparent proxy installed.
|
| digitSum            |        | Yes  | Take an URL with a number (
```

			index2.asp ) and try to find
			related files (index1.asp,
			index3.asp).
dir_bruter		Yes	Finds Web server directories
by			bruteforcing.
dnsWildcard			Find out if www.site.com and
			site.com return the same
page.			Send a specially crafted
domain_dot			with a dot after the domain
request			(http://host.tld./) and
			response.
analyze			Request specially crafted
dotNetErrors			generate ASP.NET errors in
URLs that			gather information.
			Identify server software
order to			favicon.
			Find web backdoors and web
favicon_identification			Identify captcha images on
using			pages.
			Find GIT, Mercurial (HG), and
findBackdoor			Bazaar (BZR) repositories
shells.			Find GIT repositories
findCaptchas			Find default Jboss
web			Modify the HTTP Host header
			to find virtual hosts.
findDVCS			Search Bing to get a list of
findGit			
findJBoss			
installations.			
findvhost			
and try			
fingerBing		Yes	
users			

			for a domain.
fingerGoogle Google API		Yes	Search Google using the
			to get a list of users for a
			domain.
fingerPKS of			Search MIT PKS to get a list
			users for a domain.
fingerprint_WAF			Identify if a Web Application
			Firewall is present and if
possible			identify the vendor and
version.			Fingerprint the remote
fingerprint_os operating			system using the HTTP
protocol.			Search FrontPage Server Info
frontpage_version file			and if it finds it will
determine			its version.
ghdb vulnerabilities		Yes	Search Google for
			in the target site.
googleSpider API to		Yes	Search google using google
			get new URLs
halberd has			Identify if the remote server
			HTTP load balancers.
hmap i.e		Yes	Fingerprint the server type,
			apache, iis, tomcat, etc.
http_vs_https_dist distance		Yes	Determines the network
			between the http and https
ports			for a target.
importResults tools.		Yes	Import URLs found by other

netcraft			Find out "What's that site
			running?".
oracleDiscovery			Find Oracle applications on
the			remote web server.
phishtank		Yes	Search the phishtank.com
database			to determine if your server
is (or			was) being used in phishing
scams.			Fingerprint the PHP version
phpEggs			documented easter eggs that
using			in PHP.
exist			Search PHP Info file and if
phpinfo			finds it will determine the
it			of PHP.
version		Yes	Fingerprint Rich Internet
ria_enumerator			Google Gears Manifest files,
Apps -			Silverlight and Flash.
robotsReader			Analyze the robots.txt file
and			find new URLs
serverHeader		Yes	Identify the server type
based on			the server header.
serverStatus			Find new URLs from the Apache
			server-status cgi.
sharedHosting		Yes	Use Bing search to determine
if the			website is in a shared
hosting.			Analyze the sitemap.xml file
sitemapReader			find new URLs
and			



slash			Identify if the resource
			http://host.tld/spam/ and
			http://host.tld/spam are the
same.			
spiderMan		Yes	SpiderMan is a local proxy
that			will collect new URLs.
urlFuzzer		Yes	Try to find backups, and
other			related files.
urllist_txt			Analyze the urllist.txt file
and			find new URLs
userDir		Yes	Try to find user directories
like			"http://test/~user/" and
identify			the remote OS based on the
			users.
remote			
webDiff		Yes	Compare a local directory
with a			remote URL path.
webSpider		Yes	Crawl the web application.
wordpress_enumerate_users			Finds users in a WordPress
			installation.
wordpress_fingerprint			Finds the version of a
WordPress			installation.
wordpress_fullpathdisclosure			Try to find the path where
the			WordPress is installed
wsdlFinder			Find web service definitions
files.			
xssedDotCom			Search in xssed.com to find
xssed			pages.
zone_h			Find out if the site was
defaced in			

```
| | | the past.  
|-----  
-----|
```

### Step 3 - Start scan

```
w3af>>> start
```

## Go further

### Configuration profiles

Configuration can be saved as profile in [~/w3af/profiles](#).

```
w3af>>> profiles  
w3af/profiles>>> save_as my_profile  
Profile saved.
```

Note if the profile use another profile use [self-contained](#) to save it.

```
w3af/profiles>>> save_as my_profile self-contained
```

Saved profiles can be used like this :

```
w3af/profiles>>> use my_profile  
The plugins configured by the scan profile have been enabled, and their  
options configured.  
Please set the target URL(s) and start the scan.
```

Built-in profiles :

```
w3af/profiles>>> list  
|-----  
-----|  
| Profile          | Description  
|-----  
-----|  
| bruteforce       | Bruteforce form or basic authentication access  
controls |
```

	using default credentials. To run this profile, set
the	
	target URL to the resource where the access control
is,	
	and then click on Start.
audit_high_risk	Perform a scan to only identify the vulnerabilities
with	
	higher risk, like SQL Injection, OS Commanding,
Insecure	
	File Uploads, etc.
full_audit_manual_disc	Perform a manual discovery using the spiderMan
plugin,	
	and afterwards scan the site for any known
	vulnerabilities.
full_audit	This profile performs a full audit of the target
	website, using only the webSpider plugin for
discovery.	
OWASP_TOP10	The Open Web Application Security Project (OWASP)
is a	
	worldwide free and open community focused on
improving	
	the security of application software. OWASP
searched for	
	and published the ten most common security flaws.
This	
	profile search for this top 10 security flaws. For
more	
	information about the security flaws:
http://www.owasp.org/index.php/OWASP_Top_Ten_Project .	
fast_scan	Perform a fast scan of the target site, using only
a few	
	discovery plugins and the fastest audit plugins.
empty_profile	This is an empty profile that you can use to start
a new	
	configuration from.
web_infrastructure	Use all the available techniques in w3af to
fingerprint	
	the remote Web infrastructure.
sitemap	Use different online techniques to create a fast
sitemap	
	of the target web application. This plugin will
only	

```
|
| work if you've got Internet access and the target
web |
| application is being spidered by Yahoo!
|
|-----|
|-----|
```

## Authentication

```
w3af/plugins>>> auth
|-----|
|-----|
| Plugin name      | Status   | Conf   | Description
|-----|
|-----|
| detailed         |          | Yes    | Detailed authentication plugin.
| generic          | Enabled  | Yes    | Generic authentication plugin.
|-----|
|-----|
w3af/plugins>>> auth generic
w3af/plugins>>> auth config generic
w3af/plugins/auth/config:generic>>> view
|-----|
|-----|
| Setting          | Value   | Description
|-----|
|-----|
| username         |         | Username for using in the authentication
| check_url        |         | Check session URL - URL in which response body
|                  |         | check_string will be searched
| check_string     |         | String for searching on check_url page to determine
if |         | user is logged in the web application
| password_field   |         | Password HTML field name
| username_field   |         | Username HTML field name
| auth_url         |         | Auth URL - URL for POSTing the authentication
|                  |         | information
|
```

```
| password          | | Password for using in the authentication
|
|-----|
-----|
```

## HTTP Headers

Create plain text header file with **Key: value** syntax.

```
w3af>>> http-settings
w3af/config:http-settings>>> set headersFile header.txt
```

## Scripts

w3af can run a script file using the **-s** argument. Script files are text files with one w3af\_console command on each line. An example script file would look like this:

```
plugins
output text_file
output config text_file
set output_file output-w3af.txt
set verbose True
back
```

Example script files can be found inside the **scripts/** directory.