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Chapter 1

Installation

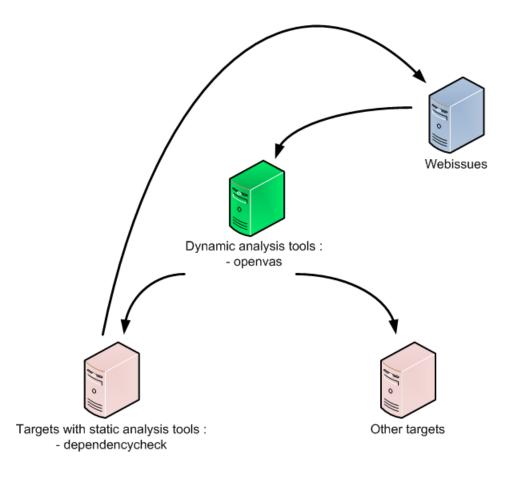
1.1 Overview

Security-bugtracker is currently a tool based on three dependencies:

- webissues : a bug tracker http://webissues.mimec.org/
- \bullet open vas : a dynamic security vulnerabilities assessment tool http://www.openvas.org/
- dependency-check : a static security vulnerabilities assessment tool https://github.com/jeremylong/DependencyCheck

Each of this tool can be installed on different or same server.

The aim of this project is to produce automated security tests and track detected default in a bugtracker.



1.2 Openvas

See the documentation on the official web site: http://www.openvas.org/install-source.html On the same server install a web server and php, then copy the following module of this project to the directory of your web server:/security-bugtracker/security_tools/openvas

Then edit /security-bugracker/security tools/openvas/openvas.conf.php:

- CONF_WS_OPENVAS_LOGIN
- CONF_WS_OPENVAS_PASSWORD

are the credentials for the web services of this module.

- CONF WEBISSUES OPENVAS LOGIN
- CONF WEBISSUES OPENVAS PASSWORD
- CONF_WEBISSUES_WS_ENDPOINT

will be completed later.

• CONF_OPENVAS_ALERT_URL

is the address of this module on this web server.

- CONF_OPENVAS_ADMIN_LOGIN
- CONF_OPENVAS_ADMIN_PASSWORD

are the openvas admin credentials.

• CONF_OPENVAS_CONFIG_ID

is the default config id for run a scan with openvas, check your config with this openvas command

```
l linux-3ig5:/home/eric/security-bugracker/documentation # omp -u admin -w 0825839c-0d3f-4417-a118-954 a78e2553c -p 9393 --get-configs 8715c877-47a0-438d-98a3-27c7a6ab2196 Discovery 085569ce-73ed-11df-83c3-002264764cea empty daba56c8-73ec-11df-a475-002264764cea Full and fast 698f691e-7489-11df-9d8c-002264764cea Full and fast ultimate 708f25c4-7489-11df-8094-002264764cea Full and very deep 7 a0e8fed8-45c1-4890-bd08-671257f63308 Full and very deep Clone 1 74db13d6-7489-11df-91b9-002264764cea Full and very deep Ultimate 2 2d3f051c-55ba-11e3-bf43-406186ea4fc5 Host Discovery bbca7412-a950-11e3-9109-406186ea4fc5 System Discovery
```

• CONF OPENVAS PATH OMP

is the path of your omp binary on this server.

• CONF_OPENVAS_PORT_OMP

is the tcp port which on openvas / omp is running

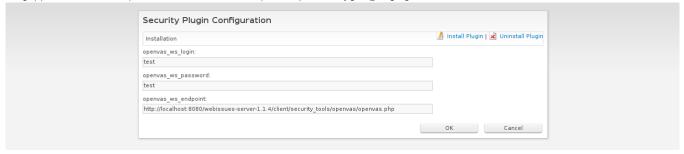
1.3 Dependency-check

See the documentation on the official web site: https://github.com/jeremylong/DependencyCheck

1.4 Webissues

See the documentation on the official web site : http://wiki.mimec.org/wiki/WebIssues/Installation. Once the bugtracker is installed, copy the following module of this project to your webissues root directory : /security-bugracker/webissues-server-1.1.4

Next go at this address (replace the name, port, path with rights informations) : http://localhost:8080/web issues-server-1.1.4/client/securityplugin.php



Select $install\ plugin$ and enter choosen values when the open vas module was installed above :

- CONF_WS_OPENVAS_LOGIN
- CONF_WS_OPENVAS_PASSWORD
- CONF_OPENVAS_ALERT_URL



Now create openvas and Dependency-check users on webissues.

Chapter 2

Use

Don't forget to use basic authentification with a login which have the good rights on webissues when using the webservices.

2.1 add a project

Add a project with the following web service method or via the traditional him of web issues :

Remember the ids returned with the response :

2.2 add a member

Add a robot member for this project (the openvas account created during the installation):

```
<soapenv:Envelope xmlns:soapenv="http://schemas.xmlsoap.org/soap/envelope/" xmlns:v1="http</pre>
     //securitybugtracker/V1">
   <soapenv:Header/>
   <soapenv:Body>
      <v1:addmember>
         <id_user>4</id_user>
         <id_project>29</id_project>
         <access>admin</access>
      </v1:addmember>
   </soapenv:Body>
</soapenv:Envelope>
<SOAP-ENV: Envelope xmlns: SOAP-ENV="http://schemas.xmlsoap.org/soap/envelope/" xmlns:ns1="
   http://securitybugtracker/V1">
   <SOAP - ENV: Body >
      <ns1:addmember_Response>
         <result_details>
            <result>true</result>
         </result_details>
      </ns1:addmember_Response>
   </SOAP-ENV:Body>
</SOAP-ENV:Envelope>
```

2.3 add a server

</SOAP-ENV:Envelope>

Add a target server for this project, you can add multiple ips separated by the , character and the values of use parameter must be one of thoses :

- Development : for a development environment server
- Test : for a test environment server
- Production : for a production environment server

```
<soapenv:Envelope xmlns:soapenv="http://schemas.xmlsoap.org/soap/envelope/" xmlns:v1="http</pre>
    ://securitybugtracker/V1">
   <soapenv:Header/>
   <soapenv:Body>
      <v1:addserver>
         <id_folder_servers>82</id_folder_servers>
         <hostname>eric-pc</hostname>
         <description>eric-pc</description>
         <use>Production </use>
         <ipsaddress>127.0.0.1
      </v1:addserver>
   </soapenv:Body>
</soapenv:Envelope>
<SOAP-ENV:Envelope xmlns:SOAP-ENV="http://schemas.xmlsoap.org/soap/envelope/" xmlns:ns1="
   http://securitybugtracker/V1">
   <SOAP - ENV : Body >
      <ns1:addserver_Response>
         <result_addserver_details>
            <id_server>1676</id_server>
         </result_addserver_details>
      </ns1:addserver_Response>
   </SOAP-ENV:Body>
```

2.4 add a code

Add a target code path for this project, the *code parameter* is the path of the directory which contain librairies to be scanned by the dependency-check security tool.

```
<soapenv:Envelope xmlns:soapenv="http://schemas.xmlsoap.org/soap/envelope/" xmlns:v1="http</pre>
    ://securitybugtracker/V1">
   <soapenv:Header/>
   <soapenv:Body>
      <v1:addcode>
         <id_folder_codes>83</id_folder_codes>
         <name > java test </name >
         <description>java tes</description>
         <code>/home/eric/test/libs-java</code>
      </v1:addcode>
   </soapenv:Body>
</soapenv:Envelope>
<SOAP-ENV: Envelope xmlns: SOAP-ENV="http://schemas.xmlsoap.org/soap/envelope/" xmlns:ns1="
   http://securitybugtracker/V1">
   <SOAP - ENV: Body >
      <ns1:addcode_Response>
         <result_addcode_details>
            <id_code>1680</id_code>
         </result_addcode_details>
      </ns1:addcode_Response>
   </SOAP - ENV: Body >
</SOAP-ENV:Envelope>
```

2.5 scan the targets

2.5.1 Dynamic scan with openvas

Run a scan with openvas security tool, select openvas value for the *tool parameter*, select a specific openvas config scan if you don't want to use the default config parametered during the installation and select a filter which can be:

- info : only add issues with a severity equal or upper to info
- minor : only add issues with a severity equal or upper to minor
- medium : only add issues with a severity equal or upper to medium
- high: only add issues with a severity equal to high

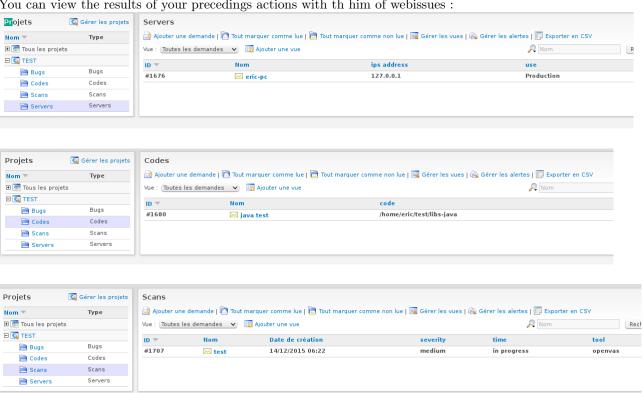
```
<SOAP-ENV:Envelope xmlns:SOAP-ENV="http://schemas.xmlsoap.org/soap/envelope/" xmlns:ns1="
   http://securitybugtracker/V1">
   <SOAP - ENV : Body >
      <ns1:addscan_Response>
         <result_addscan_details>
            <id_scan>2422</id_scan>
         </result_addscan_details>
      </ns1:addscan_Response>
   </SOAP - ENV : Body >
</SOAP-ENV:Envelope>
```

2.5.2 Static scan with dependency-check

The static scan must me run localy, see jobs chapter.

2.6 Results

You can view the results of your precedings actions with the him of webissues:





Chapter 3

Jobs

You can easily script a job which can interact with your configuration management tool for example for requesting automatically the web services and running security scans.

You can see examples in the jobs directory:

 $/security-bugracker/security_tools/jobs/run_dependencycheck.php$

 $/ security_tools/jobs/run_open vas.php$