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# SeeCode Scanner

*Release 1.0.0*

Sep 30, 2019



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# CHAPTER 1

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## What Is This?

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seecode-scanner SAST SeeCode Audit GitLabGitHub

seecode-scanner seecode-scanner SonarScannerRuleScannerPluginScanner

- 

- PMD TscanCode

- 

- **//Docker**

- Celery

- Docker** Dockfile

- FTPAWS(TODO)

- 

- clocwalk Java MavenNodeJspipRuby

- 

- RSA

- 

- 70%

- Sonar tests

---

**Note:** seecode-scanner python3 Linux CentOS 7

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## CHAPTER 2

---

1

---

### 2.1 1.1

```
$ pip install seecode-scanner
```

cli.py

```
$ cd seecode_scanner
$ python3 cli.py
```

### 2.2 1.2

seecode\_scanner.yml seecode-scanner /etc/seecode\_scanner.yml SeeCode Audit

```
$ vim /etc/seecode_scanner.yml
```

```
server:
  domain: "http://seecode.com"
  api_uri: "/api/v2/"
  token: "dca58d563917b9325252f8a4b6c57e7331349052"
  public_key_path:
  private_key_path:

celery:
  broker_url: ""
  timezone: "Asia/Shanghai"
  c_force_root: False
  task_timeout: 7200
```

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```
http:
  timeout: 10
  timeout_try: 3
  failed_try: 3
  try_status_code: 500, 502, 503
  proxies:
    http:
    https:
    socks5:
  headers:
    accept-encoding: "gzip, deflate"

distributed:
  ftp:
    host: "192.168.1.1"
    port: 21
    username: "seecode"
    password: "test1234"
    path: "/home/seecode/"
```

## 2.3 1.3

1). :

```
$ seecode-scanner --scan-path /tmp/java_demo --name java_demo -o java_demo.
↪ json
```

2). :

```
$ seecode-scanner -c java_demo.yml
```

3). Celery :

```
$ seecode-scanner --celery
```

## CHAPTER 3

2

```
$ python cli.py
```

```
-----
↪-----
      U      u U      u      U      u      U      u
/  _" | u \ |  _" | / \ |  _" | /  _" \ \ |  _" | /
<\__ \ /   | _" | _" \ | | u   | | | | / | | | | _"
u__ ) |   | |__ | |__ | | / _ .-, _ | _ | U | _ | \ | |__
|__ / >>   |__ |   |__ |   | \ ) - \__ /   |__ / u   |__ |
) (  ( _ ) << >> << >> _// \ \      \ \      | | _ << >>
( _ )      ( _ ) ( _ ) ( _ ) ( _ ) ( _ )      ( _ ) ( _ ) ( _ ) ( _ )
      /  _" | u U /  _" | U /  _" \ u   | \ | " |   | \ | " |   \ |  _" | / U |  _" \
↪u
<\__ \ /   \ | | u   \ / _ \ /   <| \ | | >   <| \ | | >   | _" \ \ | _ )
↪|/
u__ ) |   | | / _   / _ _ \   U | | \ | u   U | | \ | u   | |__   | _ <
|__ / >>   \__ | / _ \ \   | _ \ |   | _ \ |   | _ \ |   |__ |   | _ \ \
) (  ( _ ) _// \ \   \ \   >>   | | \ \ , - .   | | \ \ , - .   << >>   //
↪\ _
( _ )      ( _ ) ( _ ) ( _ ) ( _ ) ( _ " ) ( _ /   ( _ " ) ( _ /   ( _ ) ( _ ) ( _ ) ( _
↪_ )

SeeCode Audit   seecode-scanner/1.0.0-20190903 xsseroot#gmail.com
```

```
-----
↪-----

usage: seecode-scanner [-h] [-v {warn,debug,info,error}] [--test]
                      [--no-banner] [--version] [--upgrade] [--monitor]
                      [-c CONFIG] [--scan-template TEMPLATE]
                      [--scan-threads THREADS] [--scan-path PROJECT_PATH]
                      [--name PROJECT_NAME] [--result-file RESULT_FILE]
                      [--celery] [--celery-concurrency CELERY_CONCURRENCY]
```

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```

                                [--celery-name CELERY_NAME]

optional arguments:
  -h, --help                show this help message and exit
  -v {warn,debug,info,error}
                            Verbosity level, default: info.

  --test, -t                Test the status of all system services, default:
                            False.

  --no-banner               Do not display banner information, default: False.
  --version                 Show current software version.
  --upgrade                 Connect to the server for scanning configuration
                            upgrade, default: False.
  --monitor                 SeeCode Scanner client heartbeat monitoring service,
                            default: False.

scan arguments:
  -c CONFIG                 Project scan configuration file based on yaml format.
  --scan-template TEMPLATE
                            Scan the name of the template, default: normal
  --scan-threads THREADS
                            The number of threads when the engine scans, default:
                            20.
  --scan-path PROJECT_PATH, -p PROJECT_PATH
                            The absolute path of the item to be scanned.
  --name PROJECT_NAME, -n PROJECT_NAME
                            The name of the project to scan.
  --result-file RESULT_FILE, -o RESULT_FILE
                            Scan the path saved by the report.

task arguments:
  --celery                  Start celery's work tasks.
  --celery-concurrency CELERY_CONCURRENCY
                            Number of child processes processing the queue,
                            default: 4
  --celery-name CELERY_NAME
                            Set custom hostname, default: sca-1

```

## 3.1 2.1

### 3.1.1 -v

warndebuginfoerror

### 3.1.2 --test

False

### 3.1.3 --no-banner

banner False

### 3.1.4 --upgrade

SeeCode Audit seecode\_scanner.yml False

### 3.1.5 --monitor

IP SeeCode Audit False

## 3.2 2.2

### 3.2.1 -c

### 3.2.2 --scan-template

profiles xml defaultnormalcomponent\_scan

### 3.2.3 --scan-threads

() 20

### 3.2.4 --scan-path

-name

### 3.2.5 --name

-scan-path

### 3.2.6 --result-file

json

## 3.3 2.3 Celery

### 3.3.1 --celery

celery False

### 3.3.2 --celery-concurrency

celery -c 4

### 3.3.3 `--celery-name`

`celery -n scal`

## CHAPTER 4

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### TODO

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- <https://github.com/OWASP/wpBullet>
- <https://github.com/pmd/pmd>
- <https://github.com/Tencent/TscanCode>





- 
- 
- BTC 18F4VFDX2MCEXod7zjUF8NepUdAspEcJR8
  - ETH 0xB3Bc55F4AAa8E87D3675B547e31d3eEbb585175c
  - HT 0x952b4cd9f18126987fdbfab55e1ea72c5ae72e16

## 5.1 1

### 5.1.1 1.1 Server

SeeCode Audit Token

```
server:  
  domain: "http://seecode.com"  
  api_uri: "/api/v2/"  
  token: "dca58d563917b9325252f8a*****"  
  public_key_path:  
  private_key_path:
```

#### 1.1.1 domain

SeeCode Audit <http://seecode.example.com>

#### 1.1.2 api\_uri

SeeCode Audit API URI /api/v2/

#### 1.1.3 token

SeeCode Audit Token

#### 1.1.4 public\_key\_path

SeeCode Audit RSA /home/seecode/public.pem

#### 1.1.5 private\_key\_path

SeeCode Audit RSA /home/seecode/private.pem

---

### 5.1.2 1.2 Celery

Celery border\_url, timezonec\_force\_roottask\_timeout

```
celery:
  broker_url: ""
  timezone: "Asia/Shanghai"
  c_force_root: False
  task_timeout: 7200
```

#### 1.2.1 broker\_url

Celery Broker URL RedisRabbitMQ

#### 1.2.2 timezone

Celery "Asia/Shanghai"

#### 1.2.3 c\_force\_root

Celery Root False

#### 1.2.4 task\_timeout

Celery 7200

---

### 5.1.3 1.3 HTTP

HTTP

```
http:
  timeout: 10
  timeout_try: 3
  failed_try: 3
  try_status_code: 500, 502, 503
  proxies:
    http:
```

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```
https:
socks5:
headers:
  accept-encoding: "gzip, deflate"
```

### **1.3.1 timeout**

SeeCode Audit requests.exceptions.Timeout 10

### **1.3.2 timeout\_try**

SeeCode Audit 3

### **1.3.3 failed\_try**

SeeCode Audit 3

### **1.3.4 try\_status\_code**

200500502503

### **1.3.5 proxies**

SeeCode Audit

### **http**

http <http://192.168.1.1:8080>

### **https**

https <https://192.168.1.1:8080>

### **socks5**

socks5 <socks5://192.168.1.1:8080>

### **1.3.6 headers**

HTTP accept-encodinguser-agent

---

## 5.1.4 1.4 Distributed

FTPAWS

```
distributed:
  ftp:
    host: "192.168.1.1"
    port: 21
    username: "seecode"
    password: "test1234"
    path: "/home/seecode/"
```

### 1.4.1 FTP

**host**

FTP IP 192.168.1.10

**port**

FTP 21

**username**

FTP seecode

**password**

FTP

**path**

FTP /home/seecode/

### 1.4.2 AWS (TODO)

## 5.2 2

SeeCode Audit seecode-scanner --upgrade

SonarScannerRuleScannerPluginScanner

seecode-scanner xml config engines

```
<?xml version="1.0" encoding="UTF-8" standalone="no"?>
<template version="1.0.0">
  <config>
    <name>normal</name>
```

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```

    <version>6.0</version>
    <exclude_dir>.git/,bin/,node_modules/,assets/,static/,.svn/</exclude_dir>
    <exclude_ext>.jpg,.jpeg,.png,.bmp,.gif,.ico,.cur,</exclude_ext>
    <exclude_file></exclude_file>
  </config>
  <engines>
    <engine></engine>
  </engines>
</template>

```

## 5.2.1 2.1 template

version

## 5.2.2 2.2 config

name

defaultnormalcomponent\_scan

version

2.1

exclude\_dir

.git/,.svn/(,)

exclude\_ext

readme.md(,)

exclude\_file

.log,.txt(,)

## 5.2.3 2.3 engine

engine engines engines engine

name

SonarScannerRuleScannerPluginScanner

parameters

, SonarScanner

```
<parameters>
  <!-- SonarQube Token -->
  <item name="API_TOKEN">80828d9343317970f*****</item>

  <!-- SonarQube API -->
  <item name="API_DOMAIN">http://sonar7.example.com</item>

  <!-- sonar-scanner -->
  <item name="SONAR_SCANNER_PATH">/usr/bin/sonar-scanner</item>

  <!-- SonarScanner -->
  <item name="ENGINE_TIMEOUT">1200</item>

  <!-- SonarScanner SonarQube -->
  <item name="HTTP_TIMEOUT">10</item>

  <!-- SonarScanner SonarQube -->
  <item name="HTTP_TIMEOUT_RETRY">3</item>

  <!-- SonarScanner SonarQube -->
  <item name="HTTP_FAILED_RETRY">3</item>

  <!-- sonar ,
  {{project_key}} key
  {{project_name}}
  {{sonar_host}}sonarqube API_DOMAIN
  {{sonar_login}}sonarqube token API_TOKEN
  -->
  <item name="SONAR_PROJECT_PROPERTIES">sonar.projectKey={{project_key}}&#13;
    sonar.projectName={{project_name}}&#13;
    sonar.projectVersion=1.0&#13;
    sonar.sources=.&#13;
    sonar.sourceEncoding=UTF-8&#13;
    sonar.exclusions=**/node_modules/**/*.*,&#13;
    sonar.host.url={{sonar_host}}&#13;
    sonar.login={{sonar_login}}&#13;
    sonar.java.binaries=.

  </item>
</parameters>
```

item

- name
  - []
- item
  -

**component**

RuleScanner SonarScannerPuginScanner

**RuleScanner**

```

<component>
  <item id="7582">
    <name>Apache Solr (CVE-2019-0192)</name>
    <key>java:apache-solr-cve-2019-0192</key>
    <revision>0.43</revision>
    <risk id="3"></risk>
    <category>Vulnerability</category>
    <match_type>name</match_type>
    <match_content><![CDATA[solr-solrj]]></match_content>
    <match_regex flag="I"><![CDATA[(5\[0-5]{1}) ### 5.0-5.5
      (5\.2\.1) ### 5.0-5.5
      (5\.3\[1-2]{1}) ### 5.3.1 - 5.3.2
      (5\.4\.1) ### 5.4.1
      (5\.5\[1-5]{1}) ### 5.5.1 - 5.5.5
      (6\[0-6]{1})
      (6\.0\.1)
      (6\.1\.1)
      (6\.2\.1)
      (6\.4\[1-2]{1})
      (6\.5\.1)
      (6\.6\[1-5]{1})]]>
    </match_regex>
  </item>
</component>

```

**item**

- id
  - [] SeeCode Audit ID
- name
  - Apache Solr (CVE-2019-0192)
- key
  - Key (:)
- revision
  -
- risk
  - id SeeCode Audit risk
  -
- category
  - Code SmellBugVulnerability sonarqube
- match\_type

- namegroupId
  - match\_content
    -
  - match\_regex
    - 
    - flag I()M()IIM()
- 

## blacklist

SonarScanner () SONAR\_PROJECT\_PROPERTIES

### (1) RuleScanner

```
<blacklist>
  <item id="7583">
    <name></name>
    <key>common:password-hard</key>
    <revision>0.27</revision>
    <risk id="3"></risk>
    <category>Vulnerability</category>
    <match_type>content</match_type>
    <file_ext>.java</file_ext>
    <match_regex flag="I"><![CDATA[PARAM_NAME_password\s+=\s+['"].+['"]]]></match_
↪ regex>
  </item>
</blacklist>
```

### item

- id *componentid*
- name *componentname*
- key *componentkey*
- revision *componentrevision*
- risk *componentrisk*
- category *componentcategory*
- match\_type
  - dirfilecontent
- file\_ext ※
  - match\_type content , (,) , .java, .jsp
- match\_regex
  - ↑ *componentmatch\_regex*

### (2) PluginScanner



```

<blacklist>
  <item id="7583">
    <name>XSS</name>
    <key>java:reflective-xss</key>
    <revision>0.03</revision>
    <risk id="4"></risk>
    <category id="3">Vulnerability</category>
    <module>seecode_scanner.plugins.blacklist.reflective_xss_java</module>
    <script>plugins/whitelist/reflective_xss_java.py</script>
  </item>
</blacklist>

```

#### item

- id
- name
- key
- revision
- risk
- category
- module
  - seecode\_scanner
- script
  - py

#### whitelist

##### (1) RuleScanner

```

<whitelist>
  <item id="7580">
    <name></name>
    <key>common:password-exclude</key>
    <revision>0.27</revision>
    <risk id="4"></risk>
    <category>BUG</category>
    <match_type>content</match_type>
    <match_regex flag=""><![CDATA[PARAM_NAME_PASSWORD\s+=\s+['"].+['"]]]></match_
↪ regex>
  </item>
</whitelist>

```

#### item

- id *componentid*
- name *componentname*
- key *componentkey*
- revision *componentrevision*

- risk *componentrisk*
- category *componentcategory*
- match\_type
  - dirfilecontent
- file\_ext ※
  - match\_type content , (,) , java, .jsp
- match\_regex
  - ↑ *componentmatch\_regex*

## (2)PluginScanner

```
<whitelist>
  <item id="7583">
    <name></name>
    <key>java:pass-test-file-dir</key>
    <revision>0.03</revision>
    <risk id="5"></risk>
    <category id="3">Vulnerability</category>
    <module>seecode_scanner.plugins.whitelist.pass_file_dir</module>
    <script>plugins/whitelist/pass_file_dir.py</script>
  </item>
</whitelist>
```

### item

- id
- name
- key
- revision
- risk
- category
- module
  - seecode\_scanner
- script
  - py

## 5.3 3

yaml seecode-scanner -c Celery

### 5.3.1 3.1

(online)

```

scan:
# ID
task_id: 9527
#
template: "normal"
#
threads: 20
#
log_level: "debug"
#
work_dir: "/data/seecode/"
# git
project_ssh: "git@github.com:seecode-audit/vuln_java.git"
# web
project_web: "https://github.com/seecode-audit/vuln_java"
#
project_name: "vuln_java"
#
project_branch: "master"
# online offline
project_type: "online"
# : local, ftp, aws
project_storage_type: "local"
#
project_file_origin_name: ""
# MD5
project_file_hash: ""
#
group_name: "seecode-audit"
# key
group_key: "seecode-audit"
#
evidence_start_line_offset: -1
#
evidence_count: 5
#
force_sync_code: True
# server task_id
sync_vuln_to_server: True
#
result_format: "json"
#
result_file: "9527.json"

```

(offline)

```

scan:
task_id: 184
template: "normal"
log_level: "debug"
work_dir: "/data/seecode/"
project_name: "xxxxx"
project_branch: "master"
project_ssh: "ftp://192.168.1.100:21/home/seecode/projects/XIANXIAXIANGMUZU/
↪1566816638.zip"
project_web: ""
project_file_origin_name: "xxxxx.zip"

```

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```
project_file_hash: "1b6d61ee077eb0b9c12465e24b388033"
group_name: ""
group_key: "xianxiangmuzu"
project_type: "offline"
project_storage_type: "ftp"
evidence_start_line_offset: -1
evidence_count: 5
result_file: "184.json"
sync_vuln_to_server: True
force_sync_code: False
```

### 5.3.2 3.2

scan yaml

**task\_id**

id id SeeCode Audit id

**template**

: defaultnormalcomponent\_scan

- default RuleScannerPluginScanner
- normal RuleScannerPluginScannerSonarScanner
- component\_scan RuleScanner

**threads**

20

**log\_level**

info debug error

**work\_dir**

: "/data/seecode/"

**project\_ssh**

git : "git@github.com:seecode-audit/vuln\_java.git" "https://github.com/seecode-audit/vuln\_java.git"

**project\_web**

http : "https://github.com/seecode-audit/vuln\_java"

**project\_name**

: “vuln\_java”

**project\_branch**

: “master”

**project\_type**

onlineoffline

- online project\_ssh git
- offline project\_ssh zip

**project\_storage\_type**

: local, ftp, aws

- local
- ftp ftp
- aws aws

**project\_file\_origin\_name**

, project\_type offline

**project\_file\_hash**

MD5, project\_type offline

**group\_name**

: “”

**group\_key**

key: “xianxiangmu”

**evidence\_start\_line\_offset**

-1

**evidence\_count**

5

`force_sync_code`

True

`sync_vuln_to_server`

server task\_id True

`result_format`

“json” ( json )

`result_file`

task\_id : “453.json”

## 5.4 4

json

```
{
  "749c86838b5d24a64ed2b40fb18f5af4": {
    "rule_key": "java:apache-solr-cve-2019-0192",
    "risk_id": 3,
    "category": "vulnerability",
    "title": "Apache Solr \u8fdc\u7a0b\u4ee3\u7801\u6267\u884c (CVE-2019-0192) ",
    "file": "pom.xml",
    "author": "MyKings",
    "author_email": "xsroot@gmail.com",
    "hash": "d3f491ad09eaa9f7923edd2e041099e81171eb38",
    "start_line": 37,
    "end_line": 38,
    "report": "https://github.com/seecode-audit/vuln_java/blob/master/pom.xml#L37",
    "code_example": "
    <artifactId>solr-solrj</artifactId>\n
    <version>5.5.3</version>\n
    </dependency>\n
    <dependency>\n
    <groupId>org.apache.shiro</groupId>\n",
    "is_false_positive": false,
    "whitelist_rule_id": "",
    "evidence_content": "5.5.3",
    "engine": 2
  }
}
```

### 5.4.1 4.1

`rule_key`

key

`risk_id`

ID

`category`

Code SmellBugVulnerability

`title`

`file`

`author`

`author_email`

`hash`

commit id

`start_line`

`end_line`

`report`

URL

- SonarScanner SonarQube
- gitlab github

`code_example`

6

`evidence_content`

`is_false_positive`

`whitelist_rule_id`

ID

`engine`

- 1 SonarScanner
- 2 RuleScanner
- 3 PluginScanner

## 5.5 1

### 5.5.1 1.1

```
$ sudo yum install -y perl perl-Digest-MD5 unzip git
```

python 3.6

```
$ sudo yum install -y centos-release-scl rh-python36 && scl enable rh-python36 bash
$ curl https://bootstrap.pypa.io/get-pip.py -o get-pip.py && python get-pip.py
$ echo "export PYTHONIOENCODING=utf-8" >> ~/.bashrc && source ~/.bashrc
```

#### sonarscanner

sonarscanner <https://docs.sonarqube.org/latest/analysis/scan/sonarscanner/> sonarscanner /usr/local/ sonarscanner /usr/bin/sonar-scanner

```
$ wget https://binaries.sonarsource.com/Distribution/sonar-scanner-cli/sonar-scanner-
→cli-4.0.0.1744-linux.zip
$ sudo unzip sonar-scanner-cli-4.0.0.1744-linux.zip -d /usr/local/ && \
  ln -s /usr/local/sonar-scanner-4.0.0.1744-linux/bin/sonar-scanner /usr/bin/sonar-
→scanner
```

#### cloc

yum yum

```
$ sudo yum install -y cloc
```

cloc-1.82

```
$ sudo wget https://github.com/AlDanial/cloc/releases/download/1.82/cloc-1.82.pl && \
  cp cloc-1.82.pl /usr/bin/cloc
```

seecode ,

```
$ sudo useradd -m -s /bin/bash seecode && passwd seecode
```

seecode SSH /home/seecode/.ssh/id\_rsa /home/seecode/.ssh/id\_rsa.pub

```
$ su - seecode
$ mkdir ~/.ssh && ssh-keygen
```

gitlab "" -> "SSH" id\_rsa.pub

```
$ cat /home/seecode/.ssh/id_rsa.pub
```



## 5.5.2 1.2

```

$ seecode-scanner --upgrade
-----
↪-----
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( _ ) ( _ ) ( _ ) ( _ ) ( _ ) ( _ ) ( _ ) ( _ ) ( _ )
↪ ( _ )

SeeCode Audit seecode-scanner/1.0.0-20190903 xsroot@gmail.com
-----
↪-----

[15:18:36] [INFO] Check the latest version...
[15:18:36] [INFO] [+] The server has opened the encrypted communication.
[15:18:36] [INFO] The latest version of: [v1.85.14]
[15:18:36] [INFO] Initialize the upgrade environment and create an upgrade directory..
↪.
[15:18:36] [INFO] Start upgrading, check if the local version is consistent with the_
↪server version...
[15:18:36] [INFO] current version: [v1.1.1], new version: [v1.85.14].
[15:18:36] [INFO] Start downloading the upgrade package...
[15:18:36] [INFO] Start decompressing the encryption upgrade package...
[15:18:37] [INFO] Unzip the encryption upgrade package to complete.
[15:18:37] [INFO] Start decompressing the decryption upgrade package...
[15:18:37] [INFO] Decompression and decryption upgrade package completed
[15:18:37] [INFO] Start syncing scan templates...
[15:18:37] [INFO] Synchronous scan template completion.
[15:18:37] [INFO] Start syncing whitelist plugin...
[15:18:37] [INFO] Synchronous whitelist plugin completed.
[15:18:37] [INFO] Start updating the current version to v1.85.14.
[15:18:37] [INFO] Upgrade completed, current version: v1.85.14

```

### 5.5.3 1.3

### 5.5.4 1.4

```

$ seecode-scanner -t
-----
↪-----
      U      u      U      u      U      u      U      u
/ _" | u \ | _" | / \ | _" | / U /" _ | \ /" _ \ | _" \ \ | _" | /
<\_ \ / | _" | _" \ | | u | | | | / | | | | | _"
u_) | | | | | | | | /_ .-, _ | | | | U | | | \ | | |
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|_ />> \ | | / \ \ | _ \ | | _ \ | | | | | | | | |
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↪ ( )

SeeCode Audit seecode-scanner/1.0.0-20190911 xsseroot#gmail.com
-----
↪-----

[07:24:03] [INFO] [CORE] Start testing whether the core file of seecode-scanner_
↪exists...
[07:24:03] [ERROR] [-] "/etc/seecode_scanner.yml" file not found.
[07:24:03] [INFO] [+] Discover "/data/seecode/" directory.
[07:24:03] [INFO] [SERVER] Start detecting service list files...
[07:24:03] [ERROR] [-] "/usr/local/etc/seecode/conf/services.json" file not found.
[07:24:03] [INFO] [SERVER] Start detecting core files...
[07:24:03] [ERROR] [-] "monitor_url" is not set, the current content is: None.
[07:24:03] [ERROR] [-] "upgrade_url" is not set, the current content is: None.
[07:24:03] [ERROR] [-] "task_url" is not set, the current content is: None.
[07:24:03] [INFO] [SCAN] Start testing whether the scan template of seecode-scanner_
↪exists...
[07:24:03] [INFO] [+] Found "/seecode_scanner/profiles/normal.xml" file.
[07:24:03] [INFO] [+] Found "/seecode_scanner/profiles/component_scan.xml" file.
[07:24:03] [INFO] [+] Found "/seecode_scanner/profiles/default.xml" file.
[07:24:03] [INFO] [ENGINE] Start detecting the scan engine...
[07:24:03] [INFO] [+] Found the "sonar-scanner" tool with the path "/usr/bin/sonar-
↪scanner"

=====
NAME || STATUS || VERSION || DESCRIPTION
=====
Core | MISSING | - | -
=====

```

(continued from previous page)

```

-----
↪ Server | MISSING | - | -
-----
↪ Scan Template | FOUND | - | /seecode_scanner/profiles/normal.
↪xml
↪ Scan Template | FOUND | - | /seecode_scanner/profiles/
↪component_scan.xml
↪ Scan Template | FOUND | - | /seecode_scanner/profiles/default.
↪xml
-----
↪ Engine | FOUND | - | seecode_scanner.lib.engines.
↪sonarscanner (/usr/bin/sonar-scanner)
↪ Engine | FOUND | - | seecode_scanner.lib.engines.
↪rulescanner
↪ Engine | FOUND | - | seecode_scanner.lib.engines.
↪pluginscanner
-----
↪

```

## 5.6 2 Docker

Docker seecode\_scanner.yml

### 5.6.1 2.1

seecode-scanner docker images

```
$ docker build -t seecode-scanner .
```

### 5.6.2 2.2

**seecode\_scanner.yml**

scal shell bash

```
$ docker run -it --name scal seecode-scanner /bin/bash
```

scal supervisord

```
$ docker run -d --name scal seecode-scanner
```

scal

```
$ docker exec -it scal sh
```

## 5.7 1

json

vuln\_java (default.xml)

```
$ python cli.py --scan-path ./tmp/vuln_java --name vuln_java -o 1.json
-----
↪-----
      U      u U      u      U      u      U      u
/  _" | u  \ |  _" | /  \ |  _" | /  \ |  _" | /  \ |  _" | /
< \  _" \ /  \ |  _" | /  \ |  _" | /  \ |  _" | /  \ |  _" | /
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      U      u      U      u      U      u      U      u
↪-----
      /  _" | u  U /  _" | u  U /  _" | u  U /  _" | u  U /  _" | u
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(  )  (  )  (  )  (  )  (  )  (  )  (  )  (  )  (  )  (  )  (  )
↪ )  (  )

SeeCode Audit  seecode-scanner/1.0.0-20190911  xsseroot@gmail.com
-----
↪-----
[02:36:13] [INFO] [ScanProject] Start syncing project code into the scan directory...
[02:36:13] [INFO] [ScanProject] Synchronization project code completion.
[02:36:13] [INFO] [ScanProject] Start executing exclusion rules...
[02:36:13] [INFO] [ScanProject] Exclusion rule execution completed.
[02:36:13] [INFO] [ScanProject] Start analyzing components...
[02:36:13] [/opt/rh/rh-python36/root/usr/lib/python3.6/site-packages/clocwalk/cli.
↪py(70)start()] [INFO] analysis statistics code ...
[02:36:14] [INFO] [ScanProject] Project code line: [419], language: [Python], size:
↪[116] KB
[02:36:14] [INFO] [ScanProject] Start executing exclusion rules...
[02:36:14] [INFO] [ScanProject] Exclusion rule execution completed.
[02:36:14] [INFO] [RuleScanner] Begin to perform rule-based component vulnerability
↪analysis...
[02:36:14] [INFO] [RuleScanner] [Component] [+] Found 'Apache Solr (CVE-2019-0192)'
↪vulnerability.
[02:36:14] [INFO] [RuleScanner] [Component] [+] Found 'Apache Shiro (RCE)'
↪vulnerability.
[02:36:14] [INFO] [RuleScanner] [Component] [+] Found 'Spring Framework (CVE-2018-
↪1270)' vulnerability.
[02:36:14] [INFO] [RuleScanner] [Component] [+] Found 'fastjson ' vulnerability.
[02:36:14] [INFO] [RuleScanner] [Component] [+] Found 'Jackson-databind (CVE-2019-
↪12384)' vulnerability.
```

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```

[02:36:14] [INFO] [RuleScanner] [Component] [+] Found 'Jackson-databind CVE-2017-17485
↪' vulnerability.
[02:36:14] [INFO] [RuleScanner] [Component] [+] Found 'Jackson-databind CVE-2017-7525
↪' vulnerability.
[02:36:14] [INFO] [RuleScanner] [Component] [+] Found 'Jackson-databind polymorphic_
↪(CVE-2018-12022)' vulnerability.
[02:36:14] [INFO] [RuleScanner] [Component] [+] Found 'Jackson-databind polymorphic_
↪(CVE-2018-14719)' vulnerability.
[02:36:14] [INFO] [RuleScanner] [Component] [+] Found 'Jackson-databind polymorphic_
↪(CVE-2018-19362)' vulnerability.
[02:36:14] [INFO] [RuleScanner] [Component] [+] Found 'Jackson-databind_
↪SubTypeValidator.java (CVE-2019-14379)' vulnerability.
[02:36:14] [INFO] [RuleScanner] [Component] [+] Found 'Fastjson' vulnerability.
[02:36:14] [INFO] [RuleScanner] Rule component scan completed.
[02:36:14] [INFO] [RuleScanner] ...
[02:36:14] [INFO] [RuleScanner] Begin to perform rule-based blacklist vulnerability_
↪analysis...
[02:36:14] [INFO] [RuleScanner] Rule blacklist scan completed.
[02:36:14] [INFO] [PluginScanner] ...
[02:36:14] [INFO] [RuleScanner] ...
[02:36:14] [INFO] [RuleScanner] False positive rule processing...
[02:36:14] [INFO] [RuleScanner] Rule whitelist scan completed.
[02:36:14] [INFO] [PluginScanner] ...
[02:36:14] [INFO] [PluginScanner] False positive plugin processing...
[02:36:14] [INFO] [PluginScanner] Plugin whitelist scan completed.
[02:36:14] [INFO] [ScanProject] [+] Save the scan results to '/data/seecode/logs/vuln_
↪java/1.json', total: 12.
[02:36:14] [INFO] Analysis completed, time consuming: 1.57s

```

## 5.8 2

gitlab/github -c

```

$ python cli.py -c vuln_java.yaml
-----
↪-----
      U      u U      u      U      u      U      u
/  _" | u \ |  _" | / \ |  _" | /  _" \ | \ |  _" | /
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u  _ ) |  | | /  _ /  _ \ U | \ | u  U | \ | u  | |  _  |
|  _ / >>  |  _ |  |  _ \  \  _ \ /  |  _ / u  |  _ |
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(  )  (  )  (  )  (  )  (  )  (  )  (  )  (  )  (  )  (  )
      _      _      _      _      _      _      _      _      U      u
↪_
      /  _" | u  U /  _" | U /  _" \ u  | \ | " |  | \ | " |  \ |  _" | /  U |  _
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```
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→) ( _)
```

```
SeeCode Audit seecode-scanner/1.0.0-20190911 xsroot@gmail.com
```

```
-----
→-----
[02:52:18] [WARNING] [TaskStatus] Query scan task information failed, returned '404 -
→Not Found' when accessing [http://seecode.com/api/v2/task/9527/] API interface.
[02:52:18] [INFO] [ScanProject] Start syncing project code into the scan directory...
[02:52:18] [INFO] [GitOperator] Force update of local code...
[02:52:22] [INFO] [GitOperator] Code synchronization completed.
[02:52:22] [INFO] [ScanProject] current branch_
→commit:d3f49lad09eaa9f7923edd2e041099e81171eb38, branch name:master
[02:52:22] [INFO] [ScanProject] Synchronization project code completion.
[02:52:22] [INFO] [ScanProject] Start executing exclusion rules...
[02:52:22] [INFO] [ScanProject] Exclusion rule execution completed.
[02:52:22] [INFO] [ScanProject] Start analyzing components...
[02:52:22] [/opt/rh/python36/root/usr/lib/python3.6/site-packages/clocwalk/cli.
→py(70)start()] [INFO] analysis statistics code ...
[02:52:22] [INFO] [ScanProject] Project code line: [419], language: [Python], size:_
→[124] KB
[02:52:22] [INFO] [ScanProject] Start executing exclusion rules...
[02:52:23] [INFO] [ScanProject] Exclusion rule execution completed.
[02:52:23] [INFO] [RuleScanner] Begin to perform rule-based component vulnerability_
→analysis...
[02:52:23] [INFO] [RuleScanner] [Component] [+] Found 'Apache Solr (CVE-2019-0192)'_
→vulnerability.
[02:52:23] [INFO] [RuleScanner] [Component] [+] Found 'Apache Shiro (RCE)'_
→vulnerability.
[02:52:23] [INFO] [RuleScanner] [Component] [+] Found 'Spring Framework (CVE-2018-
→1270)' vulnerability.
[02:52:23] [INFO] [RuleScanner] [Component] [+] Found 'fastjson ' vulnerability.
[02:52:23] [INFO] [RuleScanner] [Component] [+] Found 'Jackson-databind (CVE-2019-
→12384)' vulnerability.
[02:52:23] [INFO] [RuleScanner] [Component] [+] Found 'Jackson-databind CVE-2017-17485
→' vulnerability.
[02:52:23] [INFO] [RuleScanner] [Component] [+] Found 'Jackson-databind CVE-2017-7525
→' vulnerability.
[02:52:23] [INFO] [RuleScanner] [Component] [+] Found 'Jackson-databind polymorphic_
→(CVE-2018-12022)' vulnerability.
[02:52:23] [INFO] [RuleScanner] [Component] [+] Found 'Jackson-databind polymorphic_
→(CVE-2018-14719)' vulnerability.
[02:52:23] [INFO] [RuleScanner] [Component] [+] Found 'Jackson-databind polymorphic_
→(CVE-2018-19362)' vulnerability.
[02:52:23] [INFO] [RuleScanner] [Component] [+] Found 'Jackson-databind_
→SubTypeValidator.java (CVE-2019-14379)' vulnerability.
[02:52:23] [INFO] [RuleScanner] [Component] [+] Found 'Fastjson' vulnerability.
[02:52:23] [INFO] [RuleScanner] Rule component scan completed.
[02:52:23] [INFO] [RuleScanner] ...
[02:52:23] [INFO] [RuleScanner] Begin to perform rule-based blacklist vulnerability_
→analysis...
[02:52:23] [INFO] [RuleScanner] Rule blacklist scan completed.
[02:52:23] [INFO] [RuleScanner] ...
[02:52:23] [INFO] [RuleScanner] False positive rule processing...
[02:52:23] [INFO] [RuleScanner] Rule whitelist scan completed.
```

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```
[02:52:23] [INFO] [ScanProject] [+] Save the scan results to '/data/seecode/logs/9527/
↪9527.json', total: 12.
[02:52:23] [INFO] Analysis completed, time consuming: 5.59s
```

vuln\_java.yaml

```
scan:
  task_id: 9527
  template: "component_scan"
  threads: 20
  log_level: "info"
  work_dir: "/data/seecode/"
  project_ssh: "https://github.com/seecode-audit/vuln_java.git"
  project_web: "https://github.com/seecode-audit/vuln_java"
  project_name: "vuln_java"
  project_branch: "master"
  project_type: "online"
  project_storage_type: "local"
  project_file_origin_name: ""
  project_file_hash: ""
  group_name: "seecode-audit"
  group_key: "seecode-audit"
  evidence_start_line_offset: -1
  evidence_count: 5
  force_sync_code: True
  sync_vuln_to_server: False
  result_format: "json"
  result_file: "9527.json"
```

## 5.9 Changelog

- #1: test
- #2: test