

Vulnerability Analysis Report of Third Party Dependencies of a Project

This is the Vulnerability Analysis of third party dependencies for the project: /Users/snahilsingh/Desktop/pytrader

Third party dependencies found in the project

Third party libraries were fetched from the 'requirements.txt' for the project: /Users/snahilsingh/Desktop/pytrader. The below list shows the currently installed version of a dependency and latest available version of the same. This gives us the list of outdated dependencies that are still being used in the project and should be upgraded.

Dependency Name	Installed Version	Latest Version
django	1.8.2	2.2.2
numpy	1.7.1	1.16.4
scipy	0.13.3	1.3.0
matplotlib	1.3.1	3.1.0
PyBrain	0.3	0.3.3
psycpg2	2.6.1	2.8.3
django-chartit2	0.2.2	0.2.2
simplejson	3.8.2	3.16.0
Cython	0.23.5	0.29.10
sklearn	0.0	0.0
supervisor	3.2.3	4.0.3
sc0ns	2.2.0.post1	2.2.0-1
requests	2.7	2.22.0
python-twitter	2.2	3.5
BeautifulSoup	3.2.1	3.2.1
praw	3.4.0	6.3.1
textblob	0.11.1	0.15.3
pandas	0.18.0	0.24.2

Vulnerabilities found in the project dependencies

After fetching all the dependencies of the project, they were analyzed to find if they are vulnerable or not using the data from [Vuldb \(https://vuldb.com/\)](https://vuldb.com/).

Below is the detailed explanation of the vulnerabilities found in the project. It includes the vulnerable dependency being used, summary describing what makes it insecure, Common Vulnerability Exposure(CVE), date of creation of this CVE created and the risk associated with the vulnerability. There are three levels of risk associated with a vulnerability- high, medium and low as shown and highlighted in the table below.

Vulnerability Risk

Low
Medium
High
No vulnerabilities

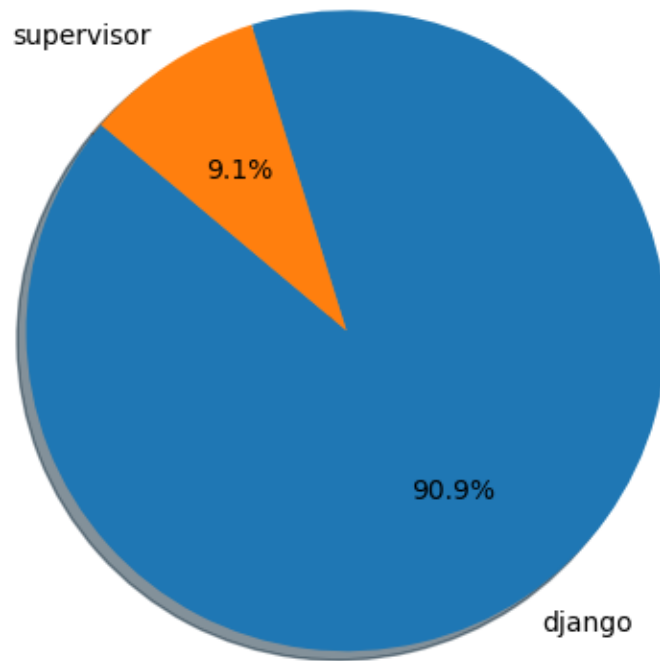
CVE Number	Vulnerable Dependency Name	Vulnerability Risk	Date of Creation	Summary
CVE-2018-7537	django	low	1520553600	Django up to 1.8.18/1.11.10/2.0.2 Regex Backtracking denial of service
CVE-2018-7536	django	low	1520553600	Django up to 1.8.18/1.11.10/2.0.2 Regex Backtracking denial of service

CVE-2017-7234	django	medium	1491264000	Django up to 1.8.17/1.9.12/1.10.6 django.views.static.serve Open Redirect
CVE-2017-7233	django	low	1491264000	Django up to 1.8.17/1.9.12/1.10.6 django.utils.http.is_safe_url cross site scripting
CVE-2016-2513	django	low	1456790400	Django 1.8.1/1.8.2/1.8.6/1.9 Time Username information disclosure
CVE-2016-2512	django	medium	1456790400	Django 1.8.1/1.8.2/1.8.6/1.9 django.utils.http.is_safe_url cross site scripting
CVE-2015-5963	django	low	1439856000	Django up to 1.4.21/1.7.9/1.8.3 denial of service
CVE-2015-5145	django	low	1436313600	Django 1.4.20/1.7.8/1.8.2 django.core.validators.URLValidator denial of service
CVE-2015-5144	django	medium	1436313600	Django 1.4.20/1.7.8/1.8.2 Validators Newline privilege escalation
CVE-2015-5143	django	low	1436313600	Django 1.8.2 Session request.session Flooding denial of service
None	numpy	None	None	None
None	scipy	None	None	None
None	matplotlib	None	None	None
None	PyBrain	None	None	None
None	psycpg2	None	None	None
None	django-chartit2	None	None	None
None	simplejson	None	None	None
None	Cython	None	None	None
None	sklearn	None	None	None
CVE-2017-11610	supervisor	medium	1503446400	supervisor up to 3.0.0/3.1.3/3.2.3/3.3.2 XML-RPC Server XML-RPC Request privilege escalation
None	sc0ns	None	None	None
None	requests	None	None	None
None	python-twitter	None	None	None
None	BeautifulSoup	None	None	None
None	praw	None	None	None
None	textblob	None	None	None
None	pandas	None	None	None

Vulnerability Distribution

Below is the vulnerability distribution graph of the project where we can see which dependencies are vulnerable and how much they contribute in making the project insecure.

Vulnerability distribution of the project dependencies



Total no. of dependencies : 18

Count of vulnerable dependencies : 2

Count of non vulnerable dependencies : 16

Total vulnerabilities found : 11

Low level vulnerabilities : 7

Medium level vulnerabilities : 4

High level vulnerabilities : 0