

Stored XSS on PyPi simple API endpoint

HackerOne report #856836 by vakzz on 2020-04-23, assigned to @dco

The recently released PyPi package feature has a new endpoint at /api/:version/projects/:id/packages/pypi/simple/*package_name which exposes an HTML page listing the package versions. The package_link's are generated using the following code:

```
def package_link(url, required_python, filename)
  "<a href=\"#{url}\" data-requires-python=\"#{required_python}\">#{filename}</a><br>>"
```

The only sanitation on required_python is that it is less than 50 characters (db constraint), otherwise arbitrary html can be injected.

Steps to reproduce

- 1. Create project
- 2. Create a pypi package with requires_python='"><script>alert(1)</script>'

curl -v "https://token:\$\foxstar\@qtilab.com/api/v4/projects/18315917/packages/pypi" -F. content=@/tmp/lala.txt -F. requires_python=2.7 -F. version=1 -F. name='package_test_1' -F. requires_python=">-s'

1. Visit the simple api endpoint and see the injected code: https://qitlab.com/api/v4/projects/18315917/packages/pypi/simple/package_test_1

```
<!DOCTYPE html>
 <head>
 <title>Links for package_test_1</title>
</head>
◀
```

Currently will be blocked by the csp on gitlab.com

Impact

Examples

What is the current bug behavior?

The user supplied fields used by the package_presenter are not all sanitized

John Hampton @jhampton · 2 years ago

What is the expected correct behavior?

All of the user supplied fields in <code>package_presenter</code> should be sanitized before being turned into html

Output of checks

This bug happens on GitLab.com

Impact

- An attacker could execute arbitrary javascript by sending a user or getting them to click on a url to the simple api endpoint.
 - ⚠ Drag your designs here or <u>click to upload</u>.



Activity



