Gordon

Collection of autotests
for Crowbar

Problem

- In cloud part of the QA Maintenance team we're spending a lot of time on web application tests;
- Also we need to run those tests at least twice: before and after each update;
- Usually we don't have much time for automation because of number of updates in our queue

  So hackweek is ideal time to get our hand dirty with automation!

Goals:

- To automate repeatable web-page testing tasks
- To simulate simple user's actions (drag&drop, form filling, etc..)
- Create at least POC during this hackweek
- Learn more useful python tricks

Tools

Selenium

Selenium automates browsers. That's it!

Splinter

Splinter is an open source tool for testing web applications using Python. It lets you automate browser actions, such as visiting URLs and interacting with their items.

Why not just selenium without splinter?

To fill out a form field with Splinter:

```
browser.fill('username', 'janedoe')
```

In Selenium, the equivalent code would be:

```
elem = browser.find_element.by_name('username')
elem.send_keys('janedoe')
```

… plus

- Splinter is an abstraction layer, it supports multiple web automation backends:

  - Chrome, Firefox

  - Phantomjs, zope.testbrowser

Links

https://github.com/Evalle/gordon

https://hackweek.suse.com/14/projects/1384

Results

- POC was created;

- Gordon can simulate typical user behavior (drag & drop, form filling etc...) on Crowbar page;

- ~ 60 tests were written.

Still to be done:

- cover whole Crowbar page with tests;

- adapt Gordon for SUSE Cloud 5 and SUSE OpenStack Cloud 7

- get more hackers involved in this project;

- cleanup and refactoring (it's still POC);

- put everything into container, because doh!

Contacts

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Thank you...

… and I hope that we will find all these guys