Tellus Selenium Grid

Thursday, January 29, 2015　　　3:17 PM

Automation tests that use ***.factset.com sites**:
1. Need to set factset.com as a trusted site in order to run the script on the Selenium grid Greenwich domain.
    a. Two options:
        i. Add *.factset.com to the local intranet zone on the machines on the Selenium grid
            1) Preferred if we can not setup the trusted site programmatically for Chrome and IE RPD
            2) Require: Joseph Laporte to create a script that can be used when hubs and nodes are setup or rebooted?
        ii. Script sets the option for the browser to be trusted
            1) Seems to only work with Firefox per RPD
                a) Example code for Firefox:
```
FirefoxProfile prof = new FirefoxProfile();
prof.setPreference("network.automatic-ntlm-auth.trusted-uris",
        ".example.com");
```
                b)
                Test1

                c) See Test1 sample targeting Joseph's experimental grid (Windows Service running as myself), and it is working with Firefox, Chrome, and Internet Explorer (the latter two are commented out in the script.) It is Junit Eclipse project (Java).

                d) Note: Firefox works even without the "trusted URI" settings in the script. And I didn't do any trust URL setup, but I did manually do the first-time-use setup for the browsers.

Tellus Selenium Grid directory

Execution Flow

Tellus Server -> Hub -> Node
Laptop -> Hub -> Node

http://infonet/view/QualityAssurance/SeleniumGridDirectory

Tellus Dev Server: Tellusdevb01
Appium Dev Hub: Tellusgridb04
Appium Dev Node: qadevmact01

Firefox Windows Authentication Setup

Thursday, February 05, 2015   9:28 AM

Issue

Firefox does not remember Windows Authentication passwords.

Solution 1: Firefox configuration

Enabling trusted URIs in Firefox configuration:

1. Type **about:config** in the Firefox address box and press Enter.
2. Scroll down to or search for the setting **network.automatic-ntlm-auth.trusted-uris** and add the website names (comma separated):

   `.factset.com,intranet`

3. Retry the intranet Website
4. It will no longer prompt for username and password

IMPORTANT: Using wildcard asterisk (*) for host name (like *.factset.com) will not work. Use a dot prefix (like .factset.com)

Solution 2: Selenium Scripting

Alternatively, you could set trusted URIs in script:

```
server_url = "http://tellusdevb02.pc.factset.com:5678/wd/hub"
profile = Selenium::WebDriver::Firefox::Profile.new
profile['network.automatic-ntlm-auth.trusted-uris'] = '.factset.com'
capabilities = Selenium::WebDriver::Remote::Capabilities.firefox( :firefox_profile => profile )
driver = Selenium::WebDriver.for:remote, :url => server_url, :desired_capabilities => capabilities
```

Example

```
require 'rubygems'
require 'selenium-webdriver'
require 'pp'

begin
  #server_url = "http://tellusgridb04.pc.factset.com:4444/wd/hub"
  server_url = "http://tellusdevb02.pc.factset.com:5678/wd/hub"
  profile = Selenium::WebDriver::Firefox::Profile.new
  profile['network.automatic-ntlm-auth.trusted-uris'] = '.factset.com'
  capabilities = Selenium::WebDriver::Remote::Capabilities.firefox(:firefox_profile => profile)
  driver = Selenium::WebDriver.for :remote, :url => server_url, :desired_capabilities => capabilities
  driver.manage.timeouts.implicit_wait = 20 # seconds

  driver.get "http://iswebqa.pc.factset.com/CookieSetter?delete=true"
  driver.get "http://iswebqa.pc.factset.com/CookieSetter?MorphAs=jhwang"
  driver.get "http://iswebqaa03.pc.factset.com:8090/rpd/"

  puts "Title: #{driver.title}" # debug
  # Type search text
  element = driver.find_element(:link, 'Search').click
  driver.find_element(:id, "tbSearch").send_keys "app qa"
  xpath = '//ul[contains(@class,"ui-autocomplete")]/li[contains(@class,"ui-menu-item")]/a/span[contains(@class,"rpd-title-search-title")]'

  #puts driver.find_elements(:xpath, '//li[@class="ui-menu-item"]').count
  items = driver.find_elements(:xpath, xpath)
```

```
    puts "Found #{items.count()} items" # debug
    puts items[0].text #debug
    # Check autocomplete list
    assert.equal?(items.count > 0)

    driver.get "http://iswebqa.pc.factset.com/CookieSetter?delete=true"
    driver.quit
rescue Exception
    driver.get "http://iswebqa.pc.factset.com/CookieSetter?delete=true"
    driver.quit
end
```

Reference

- https://support.mozilla.org/en-US/kb/profile-manager-create-and-remove-firefox-profiles
- https://code.google.com/p/selenium/wiki/RubyBindings#Firefox

Previous Tellus Selenium Grid directory

Tuesday, February 24, 2015   9:51 AM

PREVIOUS INFO
Development Environment
Tellus Server (CRON): Tellusdevb01

Web Dev
Web Dev Hub URL: http://tellusgridb04.pc.factset.com:4444/wd/hub
Web Dev Hub: tellusgridb04
Web Dev Node: Tellusdevb02

IS Dev
IS Dev Hub URL: http://tellusgridb04.pc.factset.com:4445/wd/hub
IS Dev Hub: tellusgridb04
IS Dev Node: Tellusgridb03

Production Environment
Tellus Server (CRON): Tellusb01

Web Dev
Web Prod Hub URL:
http://tellusdevb03.pc.factset.com:4444/wd/hub
Web Prod Hub: Tellusdevb03
Web Prod Node: Tellusgridb02

IS Dev
IS Prod Hub URL: http://tellusdevb03.pc.factset.com:4445/wd/hub
IS Prod Hub: Tellusdevb03
IS Prod Node: Tellusgridb01

iOS Development Environment
Appium iOS test automation with FactSet.app and Mobile Safari.

Tellus Dev Server: Tellusdevb01
Appium Dev Hub: Tellusgridb04
Appium Dev Node: qadevmact01

EvanGrid

Puppet, Chef, Salt, Ansible among others.

Pasted from <http://is.factset.com/rpd/summary.aspx?messageid=22873522>

RPD Links

LINKS

☐ **Set Priority**
Node arrangement limits number of concurrent users

http://is.factset.com/rpd/summary.aspx?messageid=22873734

Window Size Inconsistencies in IE10

☐ Set Priority
Window Size Inconsistencies in IE10
http://is.factset.com/rpd/summary.aspx?messageid=22873522
Puppet, Chef, Salt, Ansible among others.

☐ Set Priority
Internet Explorer Hover Issues
http://is.factset.com/rpd/summary.aspx?messageid=22873498

☐ Machines for testing
http://is.factset.com/rpd/summary.aspx?messageid=23173444

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Selenium ...