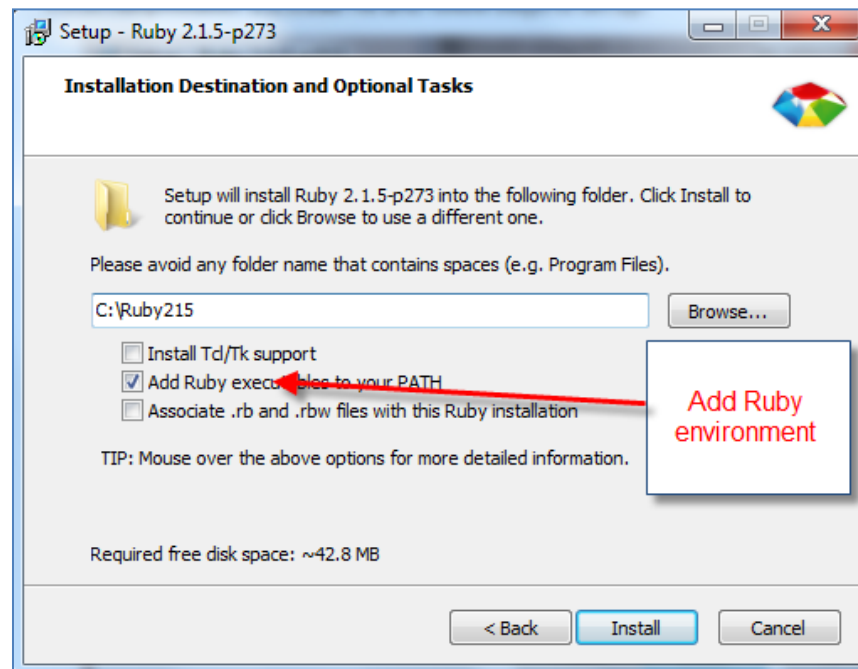# CONTENTS

OUTPOST GUIDELINE

This document is to help you (end-user) setup an Outpost from end to end

1. **Setup Environment**

    Firstly, we need to install Ruby and required gems

    1.1. Install Ruby (Version: 2.1.5 32bits)

    - Download **rubyinstaller-2.1.5.exe** setup file from: http://rubyinstaller.org/downloads/

   - Install **rubyinstaller-2.1.5.exe** file and follow steps to set up:

Notes: After Ruby was installed successfully, make sure that CMD recognizes ruby interpreter by typing 'ruby 'or 'gem list'. If not, you need to add Ruby environment path:
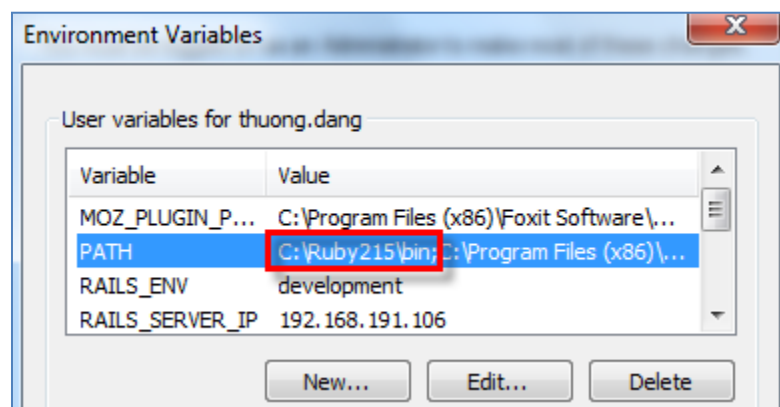
1.2. Install Devkit

Please make sure that the DevKit's version corresponds to Ruby's version (32bits or 64bits)

- Download **DevKit-mingw64-32-4.7.2-20130224-1151-sfx.exe** setup file from
  http://rubyinstaller.org/downloads/

- Extract this file to **C:\DevKit** folder. You can see the **C:\DevKit** folder likes this:
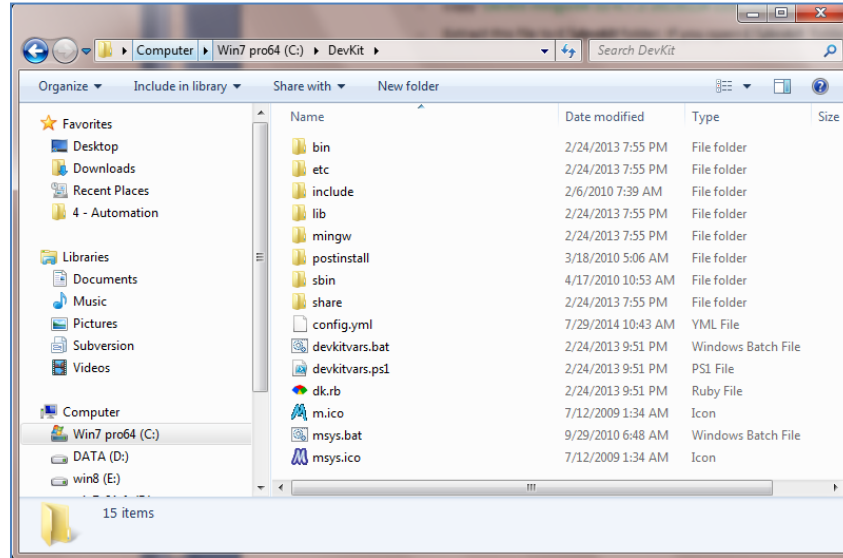
- Go to **C:\DevKit** and open **CMD**
- Type **ruby dk.rb init**
- Type **ruby dk.rb install**

1.3. Install 'bundler' gem

- Open CMD

- Type gem install bundler

If you get this error while installing this gem:

```
1.   ERROR:  Could not find a valid gem 'bundler' (>= 0), here is why:
2.        Unable to download data from https://rubygems.org/ - SSL_connect retur
3.   ned=1 errno=0 state=SSLv3 read server certificate B: certificate verify failed (
4.   https://api.rubygems.org/latest_specs.4.8.gz)
```

Please copy '**cacert.pem'** file from Test Central/Help & FAQs/Guides to

"**C:\Ruby21\lib\ruby\2.1.0\rubygems\ssl_certs**" folder then run gem install bundler again

1.4. Install SQLite 3 on Windows

If your Automation project uses Database, let install SQLite 3

- First, download the pre-compiled binaries from the SQLite Downloads page:

   http://www.sqlite.org/download.html

- You will need to download sqlite-tools-win32-*.zip and sqlite-dll-win32-*.zip zipped files

- Create a folder C:\>sqlite3 and unzip above two zipped files in this folder which will give

   you sqlite3.def, sqlite3.dll and sqlite3.exe files.
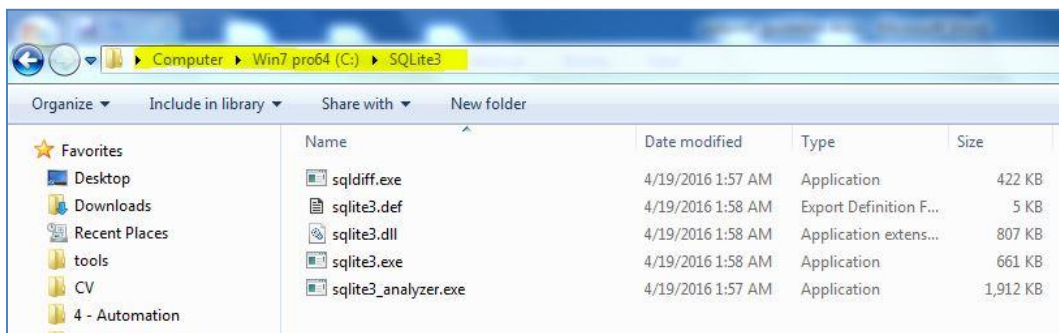
- Add C:\>sqlite3 in your PATH environment variable and finally go to the command prompt

   and issue sqlite3 command, which should display a result something as below.

```
1.   C:\Users\vinh.ly>sqlite3
2.   SQLite version 3.12.2 2016-04-18 17:30:31
3.   Enter ".help" for usage hints.
4.   Connected to a transient in-memory database.
5.   Use ".open FILENAME" to reopen on a persistent database.
6.   sqlite>
```

2. **Get Outpost source code**

❖ **Install GIT**

- To get to Outpost Source code from Stash server, you need to install Git (https://git-scm.com/download/win) and have Git account

❖ **Get project path**

- Go to LeapFrog Stash: http://stash.leapfrog.com/

- Login then go to the project you need to clone

E.g. http://stash.leapfrog.com/projects/SQAA/repos/sqaauto_accr/browse

- Click on the 'Clone' button then select HTTP protocol and copy the Project path
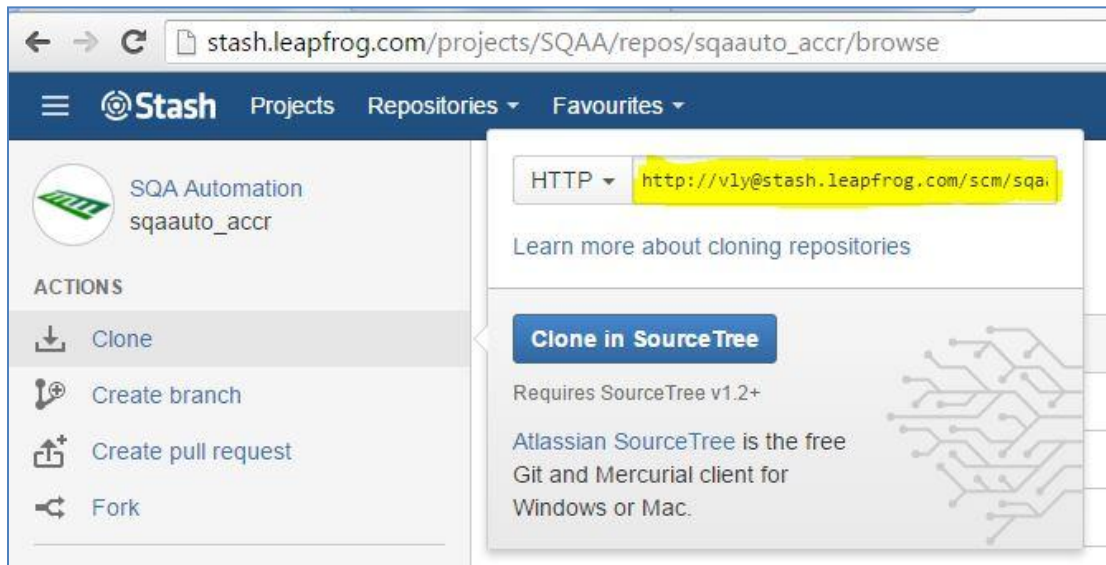
- If you want to use SSH protocol, you need to Add SSH key to Stash account

- Follow the '**Feature_Branch_Workflow.pdf/ 1. Install and configure Git**' document

❖ **Get source code**

- Open Git CMD where you want to storage your project

- Type: **git clone --recursive <path to Git project>** and enter your account

//NOTE: Make sure to check out the sqaauto_outpost to MASTER branch

- Go to '**sqaauto_outpost**' folder

- Open Git CMD

- Type: *git checkout master*

3. **Install Java JDK**

    a. Download and install Java JDK 64/32 bits version **>=1.8,** e.g. jdk1.8.0_60

    - Software's link: http://www.oracle.com/technetwork/java/javase/downloads/index.html

    b. Make sure that **JAVA_HOME** is added to system variables with value **C:\Program Files\Java\jdk1.8.0_60**
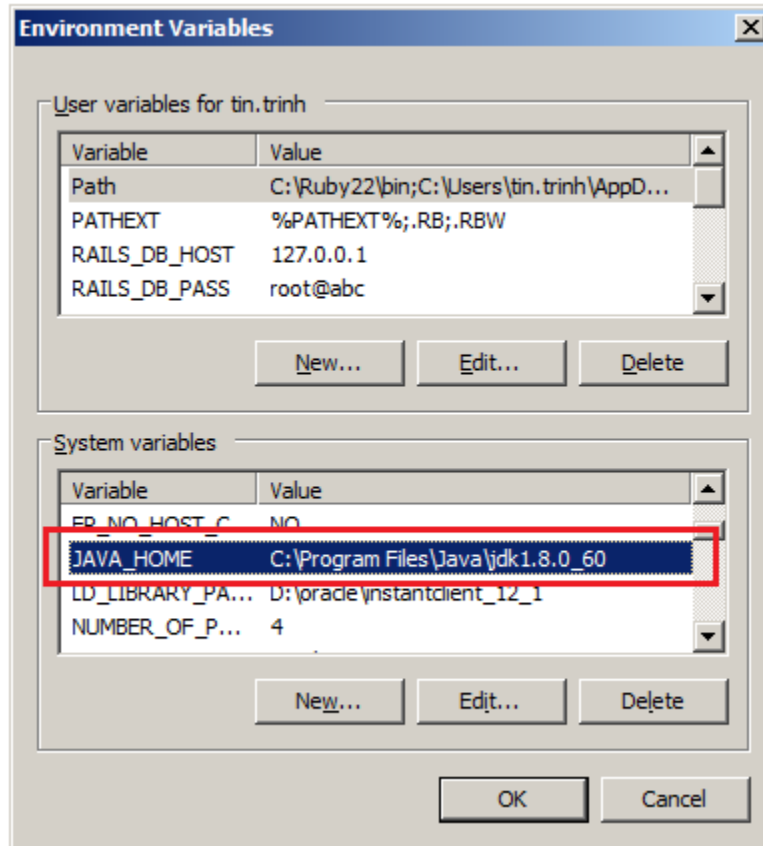
4. **Configure Outpost**

    After cloning an Outpost Automation project, we will see the main structure like this:
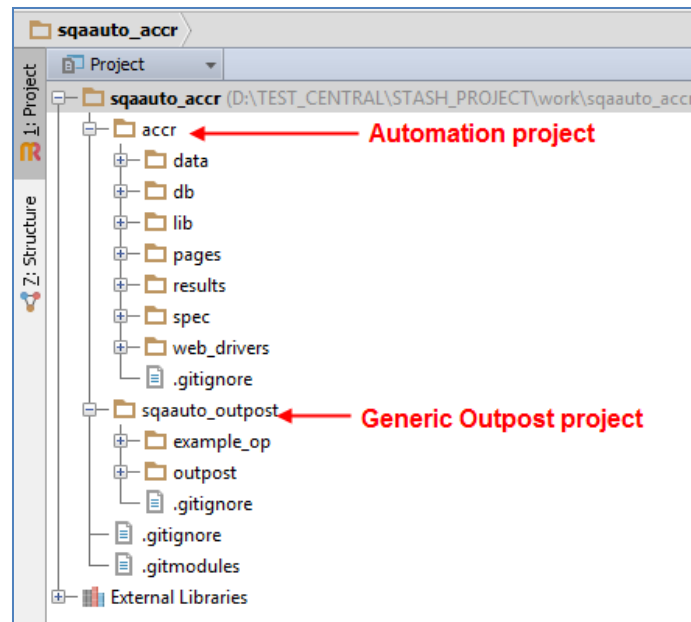
Edit Outpost 'config.xml'. This file is to configure outpost to work with Test Central
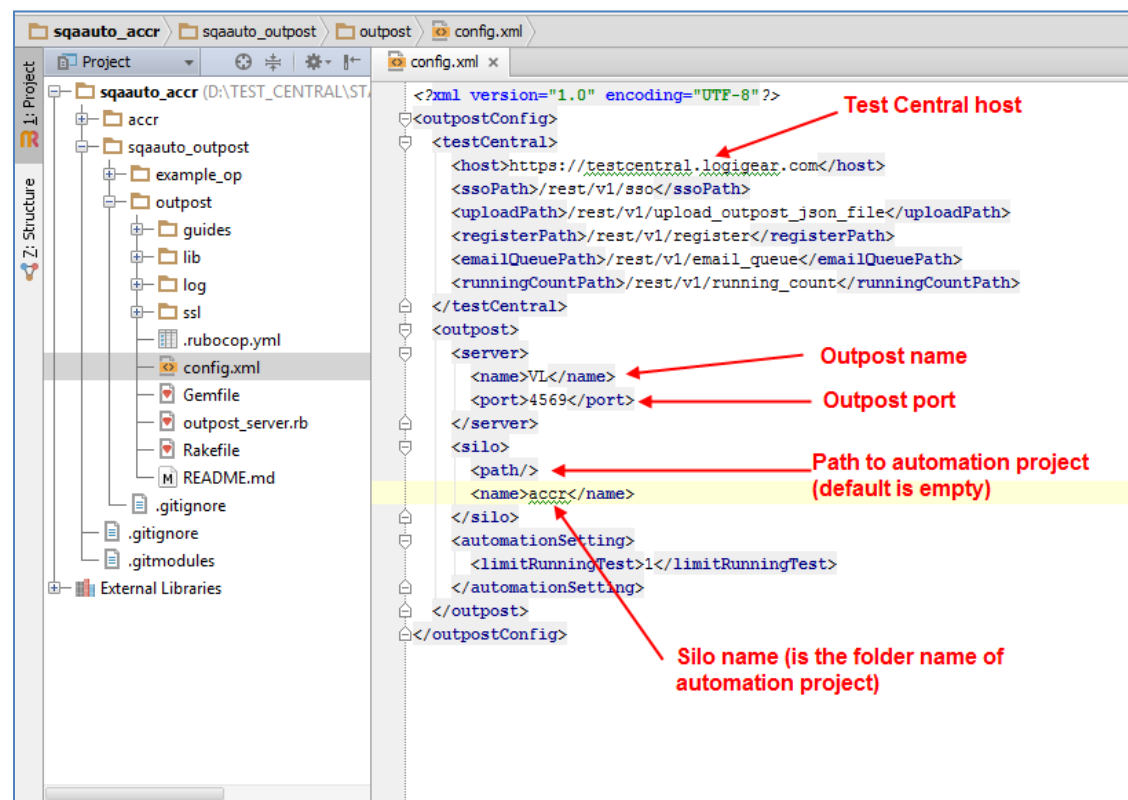
4.1. Test Central section

- <testCentral><host>: is a TestCentral host and port (e.g. 'https://testcentral.logigear.com')

- <testCentral><ssoPath>: is a path to 'sso' service, use to login to Test Central with Test Central's credentials.

- <testCentral><uploadPath>: is a path of 'upload_outpost_json_file' service, use to upload test result to TC Database
- <testCentral><register>: is a path of 'register' service, use to register the Outpost to Test Central
- <testCentral><emailQueue>: is a path of 'email_queue' service, use to add a record to Test Central email queue

4.2. Outpost section

- <server><name>: is outpost's name (e.g. 'outpost_test').

  We use "name" as unique field in database and Test Central will override existing data if use registers with the same name, so please name server name as rule:

  PROJECT_REGISTERSHORTNAME_INDEX, e.g. ACCR_TD, WS_TD, ATG_TD_1, ATG_TD_2

  - PROJECT: ACCR, WS, ATG, NAR…
  - REGISTER -SHORTNAME: DV (Doraiah Vundavally), TD (Thuong Dang)
  - INDEX: is optional, if you deploy some instances of an Outpost, for example deploying ACCR on 2 machines

- <silo><name>: is name of silo (e.g. 'example_op') and this value is folder's name
- <silo><path>: If not set, the current level of the "outpost" folder and one folder up will be searched for the folder specified by <silo><name>. All paths are relative to the "outpost" folder. You can set the path field when switching to other automation projects (e.g. '/..', '/../test', …)
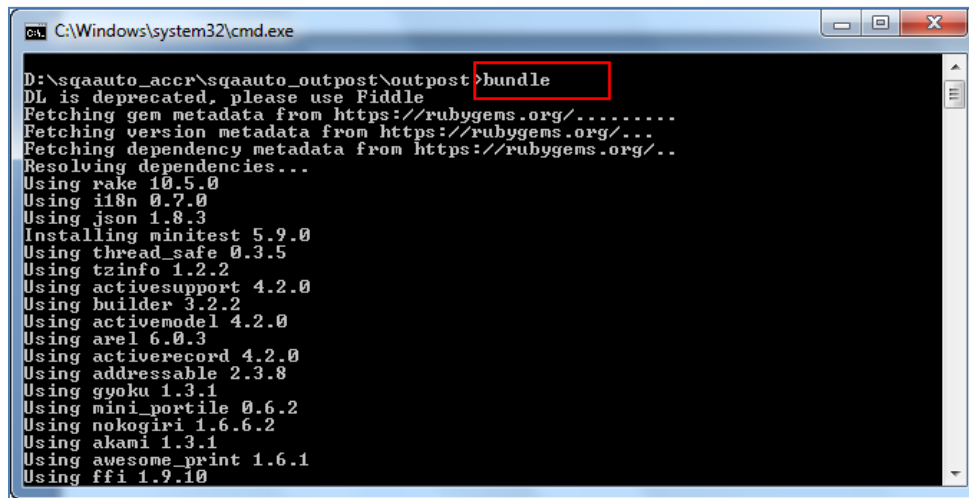
NOTE: Environment variables

OUTPOST_SERVER_IP: the IPv4 address, is used to communicate with Test Central

5. **Run Outpost**

   5.1. Install Ruby gems

   - Go to 'sqaauto_outpost\outpost' and open CMD

   - Type: **bundle**

   - Make sure the 'Gemfile.lock' file is created

   5.2. Run DB migration

   If your automation project requires DB to run tests, you need to run DB migration at the first

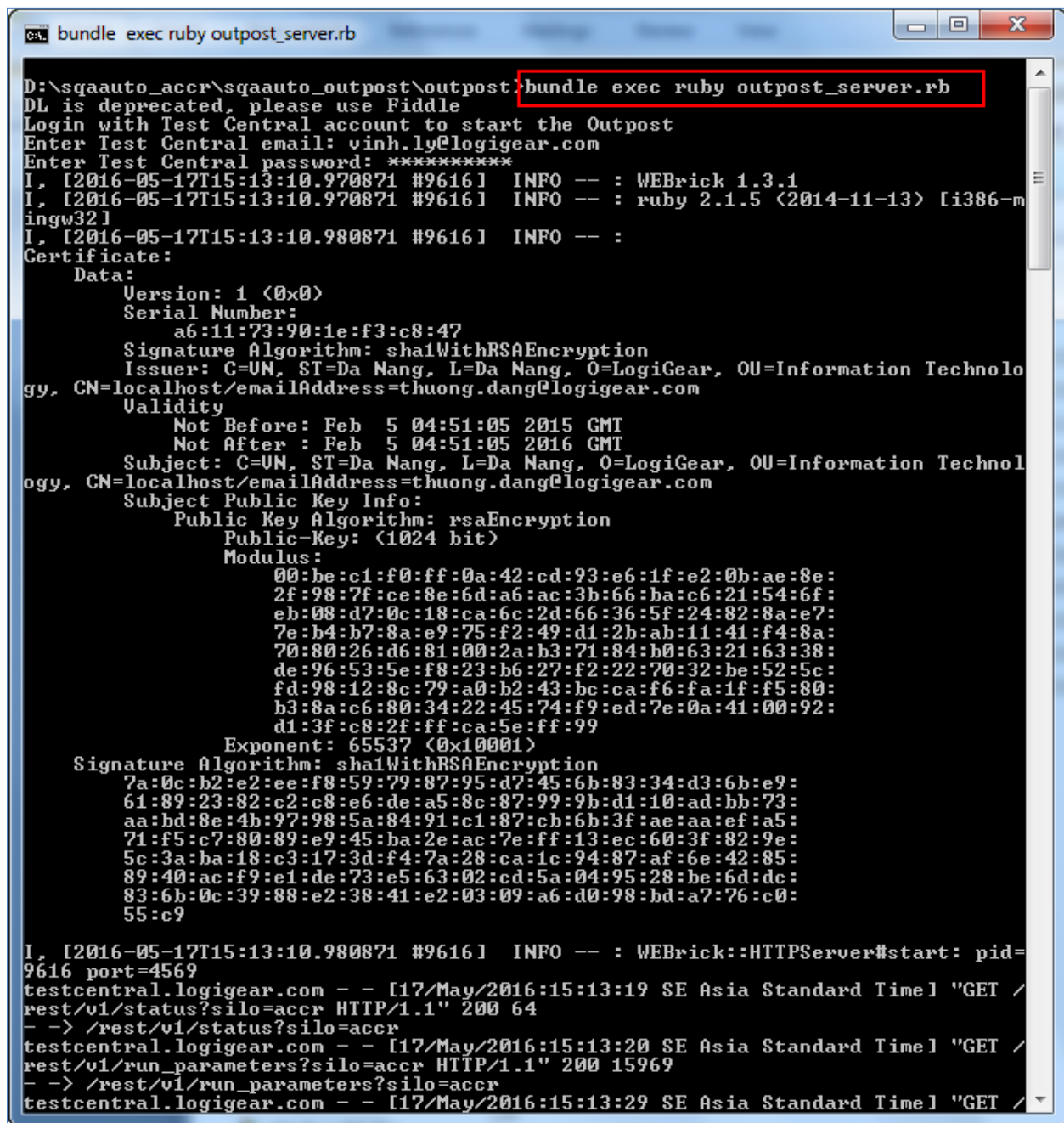   time or whenever having DB change in 'db\migrate' folder

   - Go to 'sqaauto_outpost\outpost' and open CMD

   - Type: **bundle exec rake db:migrate**

5.3. Start Outpost

- Go to 'sqaauto_outpost\outpost' and open CMD

- Type: **bundle exec ruby outpost_server.rb**

- Enter Test Central account

### 5.4. Add SSL Exception for Outpost

We use Self-signed ssl certificates, so please add SSL Exception for Outpost by doing the following steps (just only do 1 time):

E.g. Firefox browser:

- Go to Test Central site and click on {your outpost}/config link (e.g. ACCR/config)

- On Supported files area, click on **Upload New** or **Upload** icon, the "**Untrusted Connection**" window will open

- Click on **I Understand the Risks** link and then click on **Add Exception** button
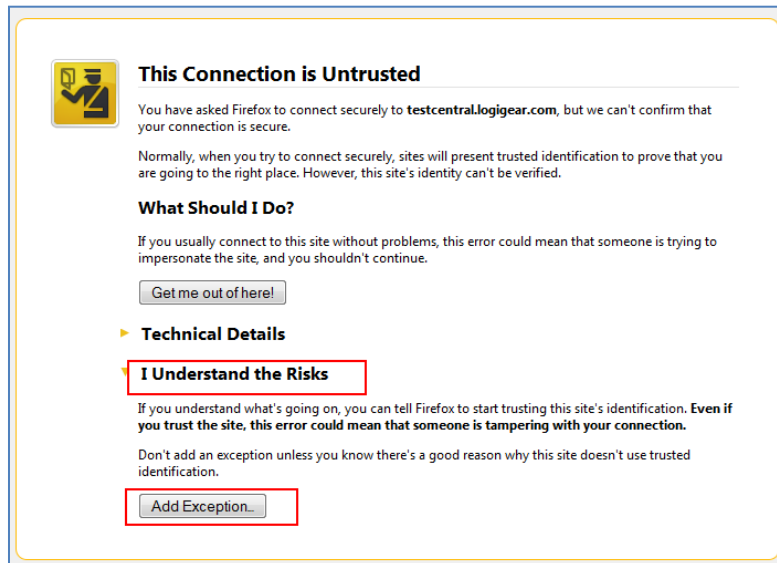
- On **Add Security Exception** popup, click on **Confirm Security Exception** button
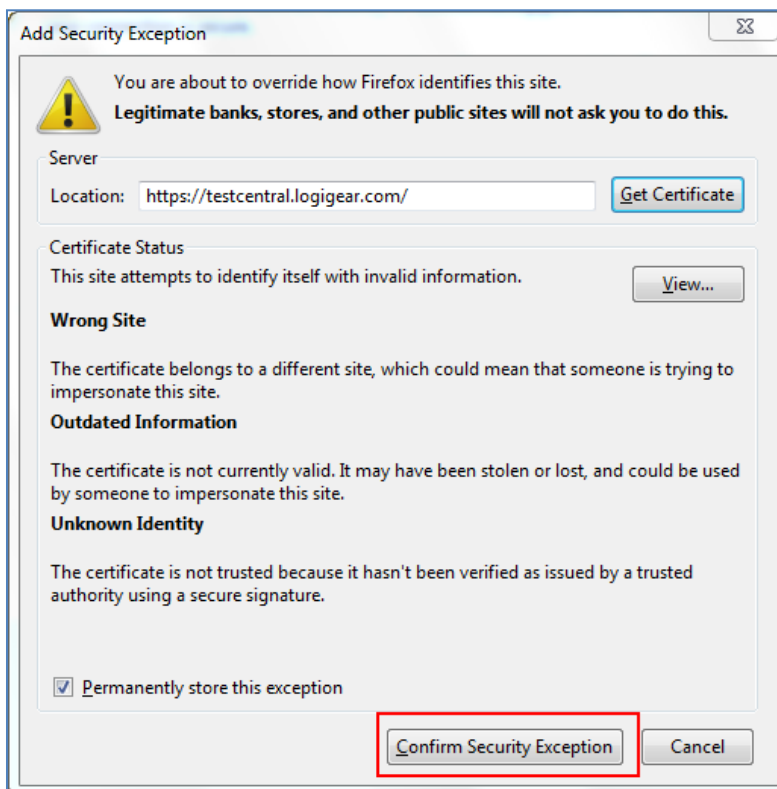
5.5. Execute Outpost test on Test Central

- Go to Test Central web site

- Select 'run scripts' menu under the Outpost

- Select test suite, test case and run parameters

- Click on 'QUEUED' button

5.6. Outpost configuration

You also configure the Outpost on Test Central, include max running test, download/upload/edit supported files

5.7. Outpost tools/utilities

Besides that, each Outpost has some *tools/utilities that support to prepare data to run automation tests (e.g. upload PINs, upload MOAS, content Platform Checker tool,…)*

6. **Configure browsers for running script**

   6.1. FIREFOX

   1. Require: Firefox <= 46, recommended Firefox 46
   2. Automatically clear private data when closing your browser **(Optional)**
      - Firefox has the built-in ability to clear all your private data when you close it – no extensions required. To get started, open the Firefox menu and select Options
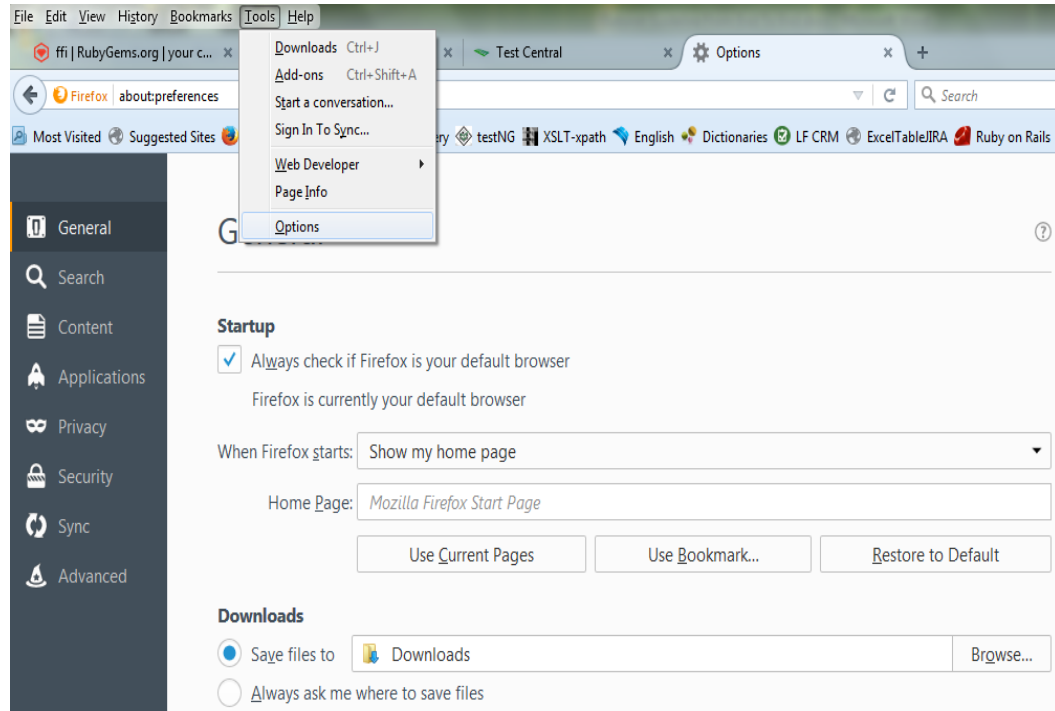
      - Select the Privacy icon and choose "Use custom settings for history." Enable the "Clear history when Firefox closes" check box
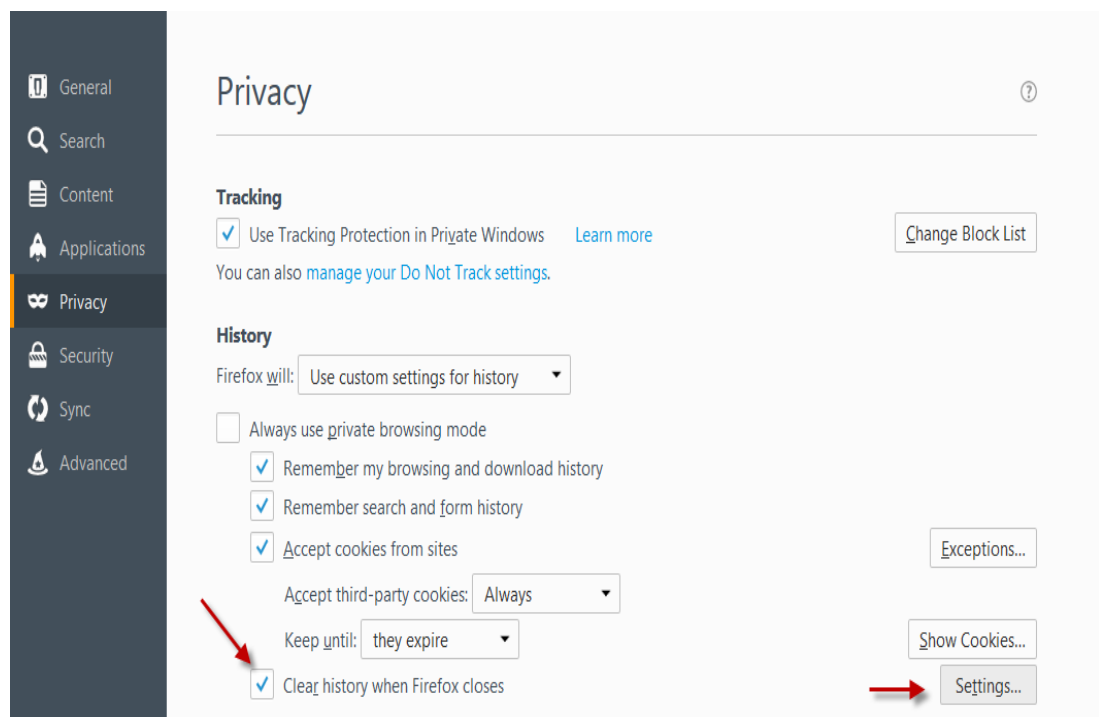
- To control which types of private data Firefox automatically clears, click the Settings button and choose the types of private date you don't want
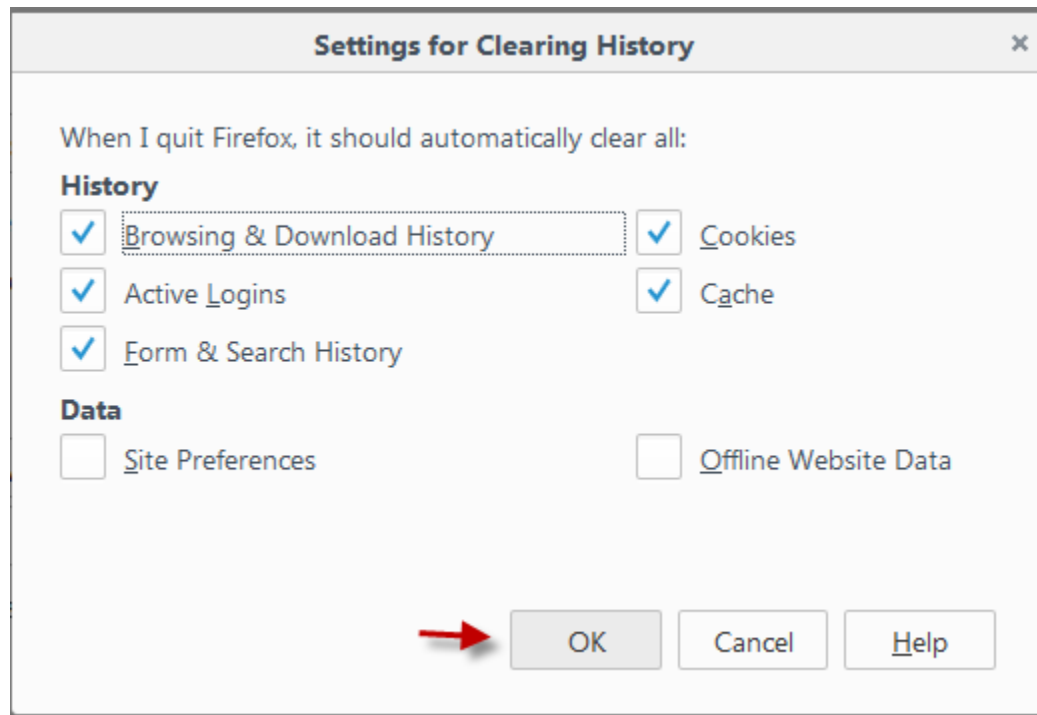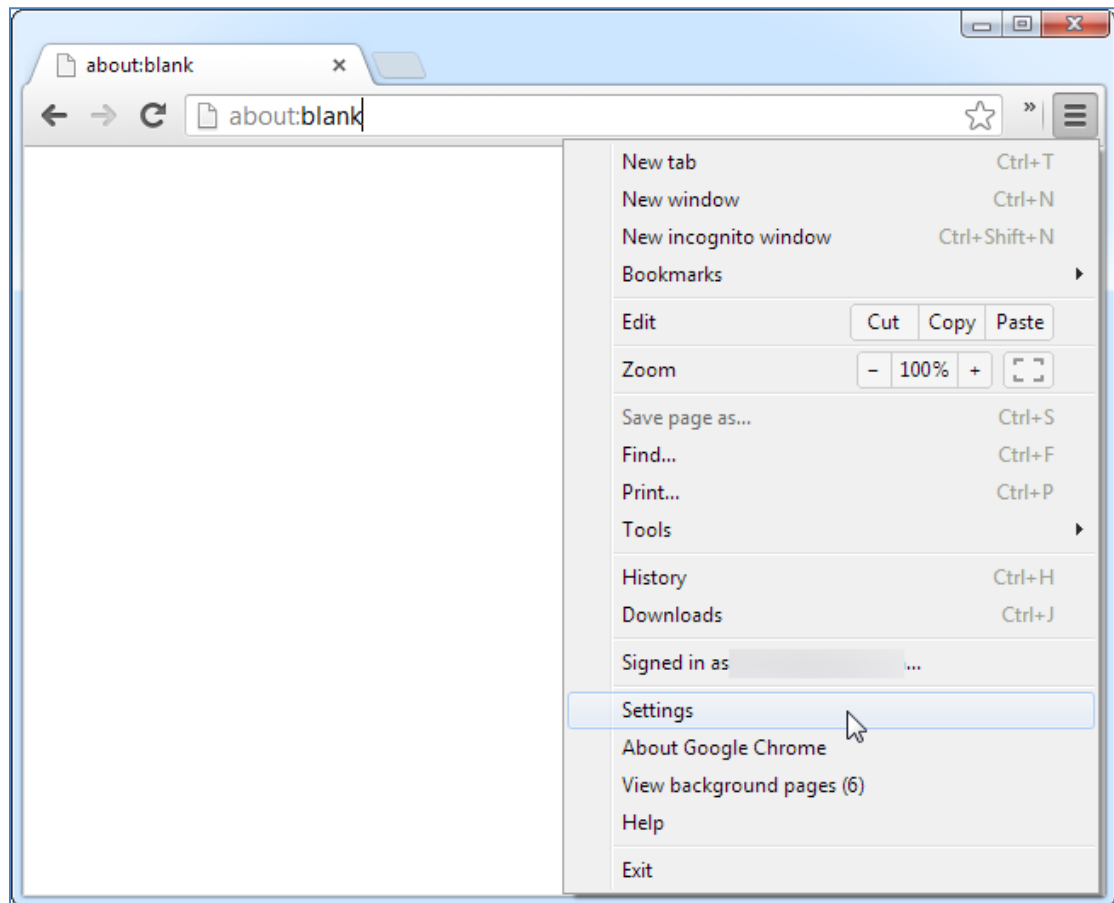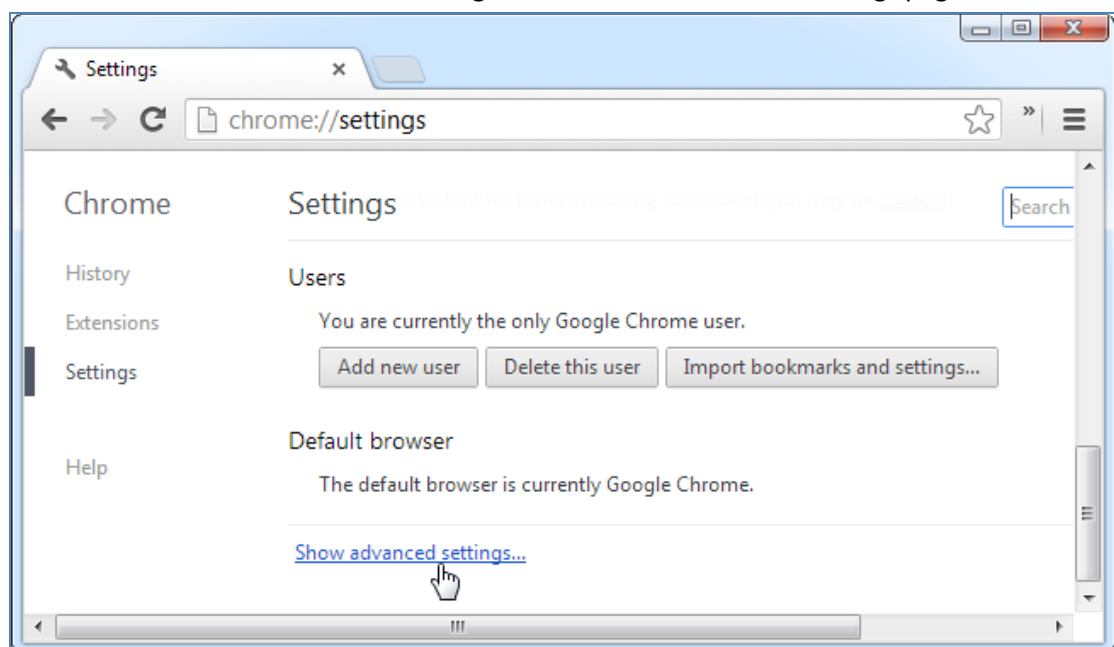
6.2. CHROME

1. Require: Chrome latest version
2. Automatically clear private data when closing your browser **(Optional)**
   - Open the Settings screen from Chrome's menu

   - Click the Show advanced settings link at the bottom of the Settings page

- Click the Content settings button under the Privacy header
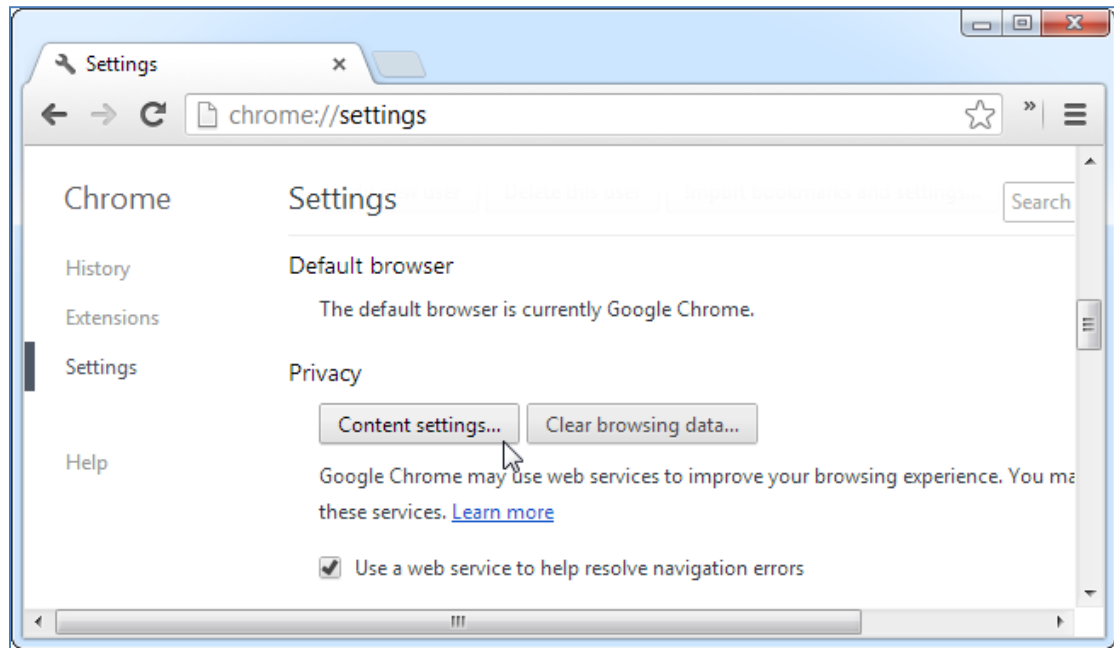
- Under Cookies, select "Keep local data only until I quit my browser" and click OK. When you close Chrome, it will now automatically clear your cookies

6.3. INTERNET EXPLORER

1. Require: IE 11 installed
2. Go to IE/Internet Option/Security Tab
3. Enable "Protected Mode" for all "Internet", "Local Intranet", "Trusted Site", "Restricted sites"
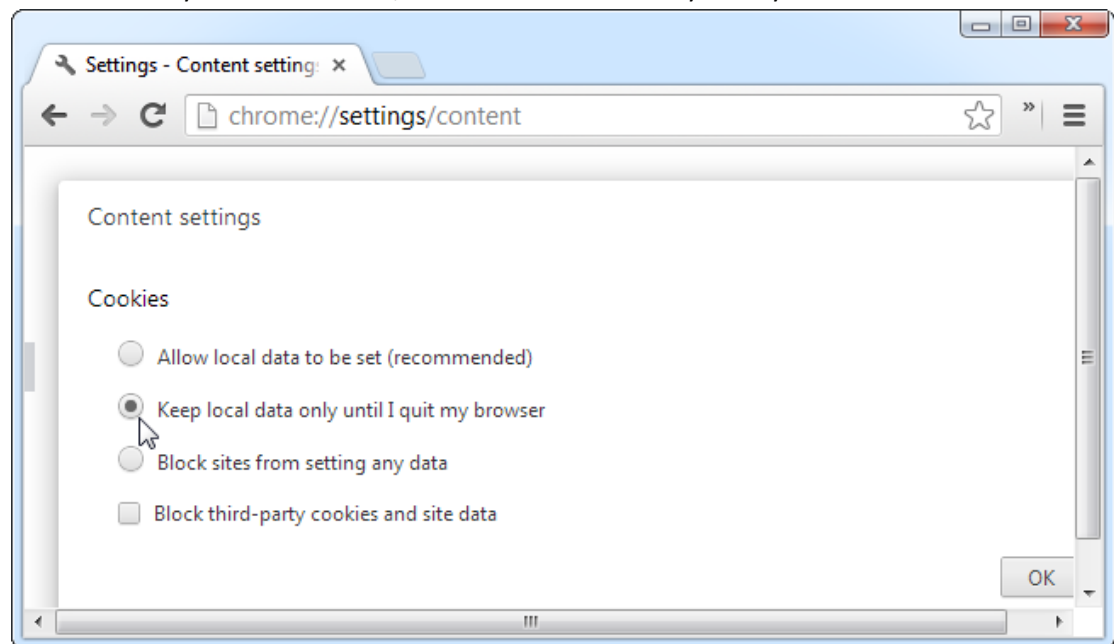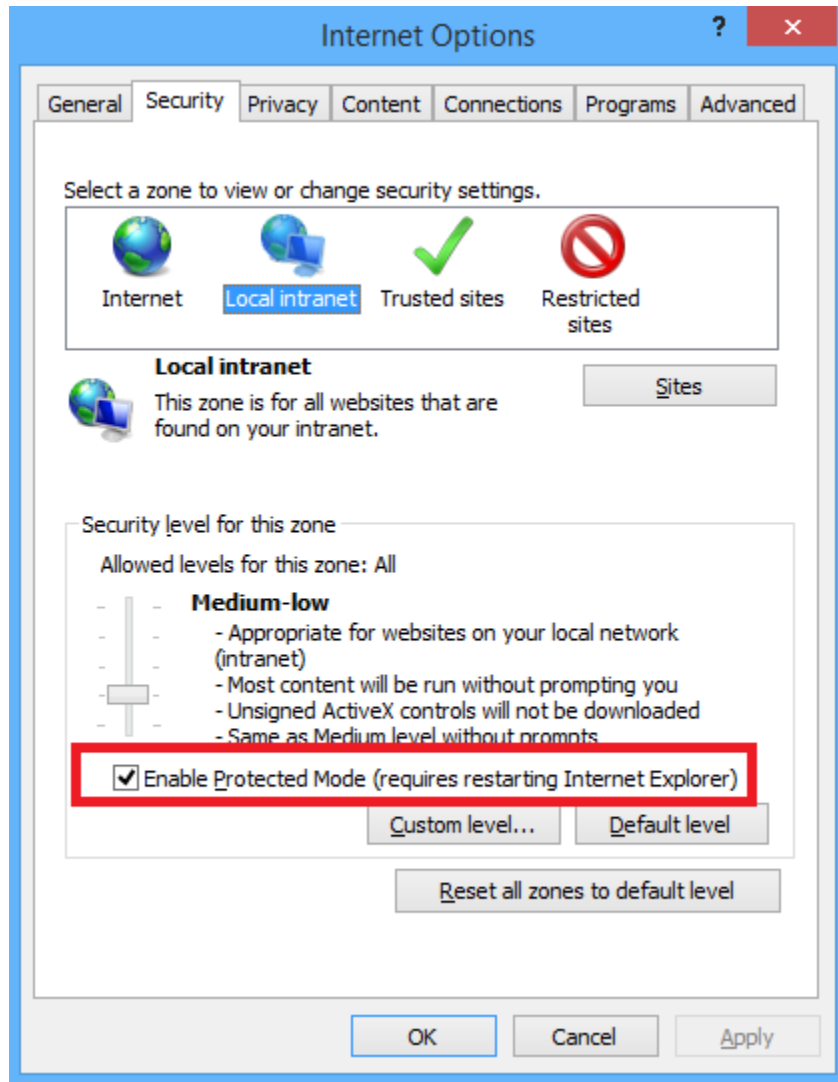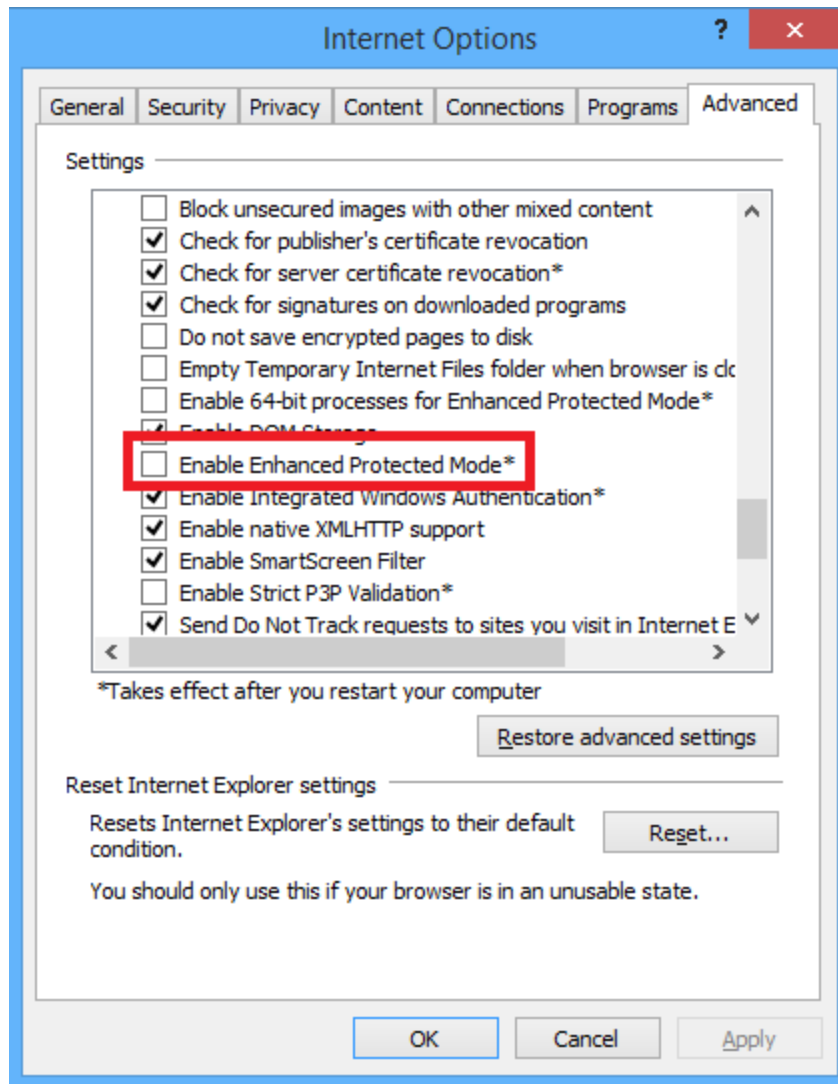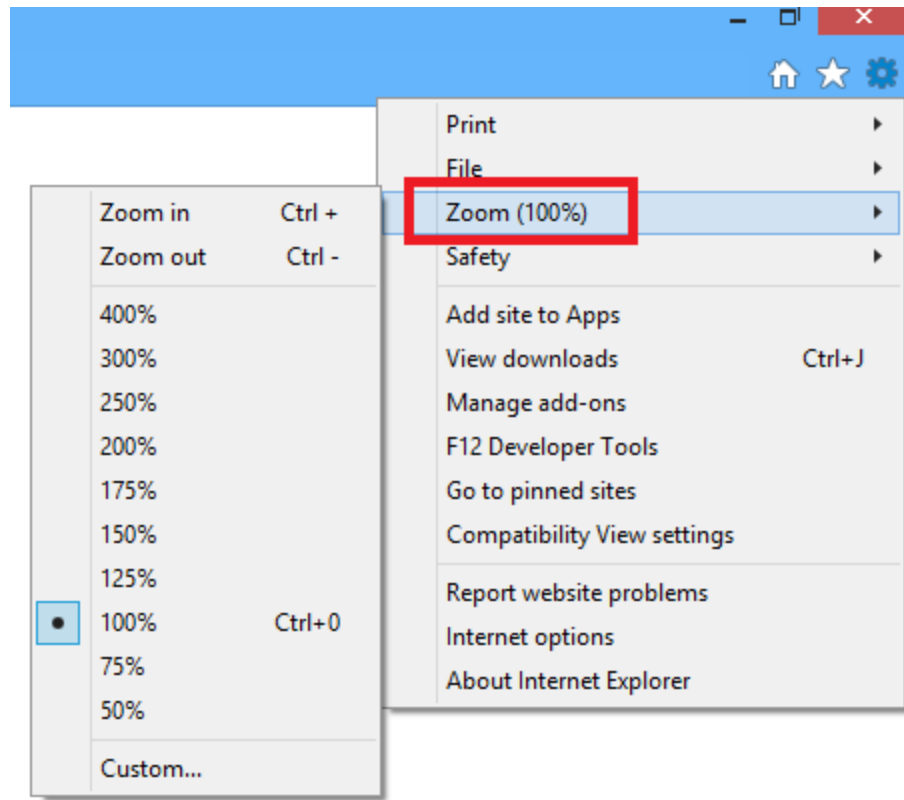

4. Go to Advance Tab
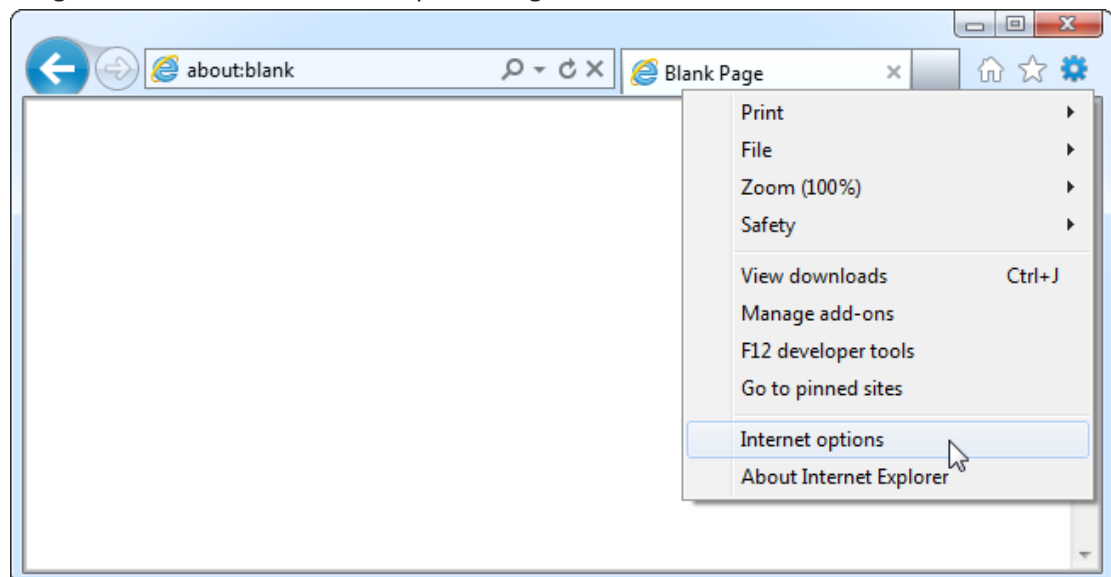5. Disable "Enhanced Protected Mode" if it is enabled

6. Set Zoom Level of IE to 100%

7. Automatically clear private data when closing your browser **(Optional)**
- Internet Explorer has the built-in ability to clear its private data when you close it, too. Click the gear icon and select Internet options to get started

- On the General tab, enable the "Delete browsing history on exit" option
- Click the Delete button to customize which types of data Internet Explorer will clear. You may want to uncheck "Preserve Favorites website data" or Internet Explorer will keep cookies and cache files for websites you have saved as favorites.
- Click the Delete button when you are done. Internet Explorer will immediately clear your private data and then clear it each time you close your browser.