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OUTPOST GUIDELINE

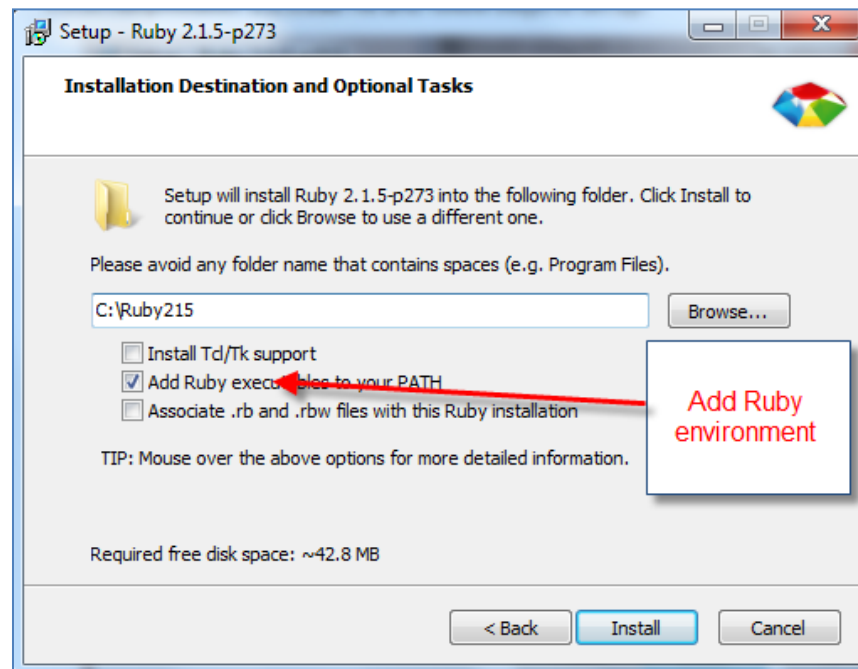
This document is to help you (end-user) setup an Outpost from end to end

1. Setup Environment

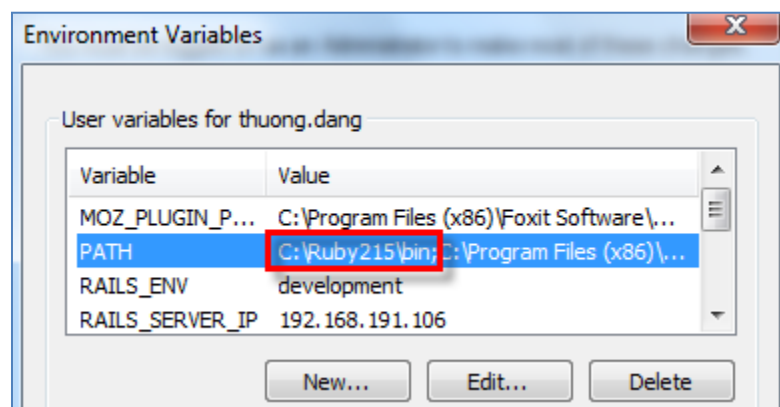
Firstly, we need to install Ruby and required gems

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:



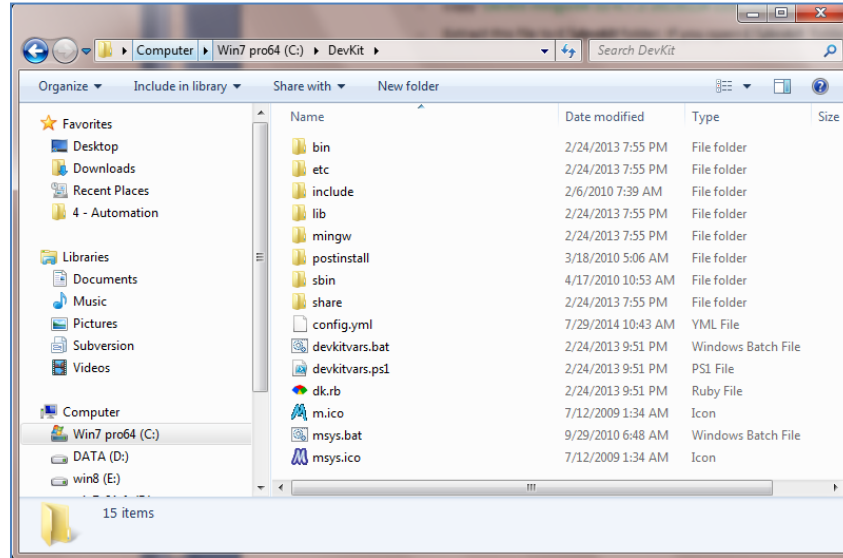
Notes: After Ruby was installed successfully, make sure that CMD recognizes ruby interpreter by typing 'ruby' or 'gem list'. If not, you need to add Ruby environment path:



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:

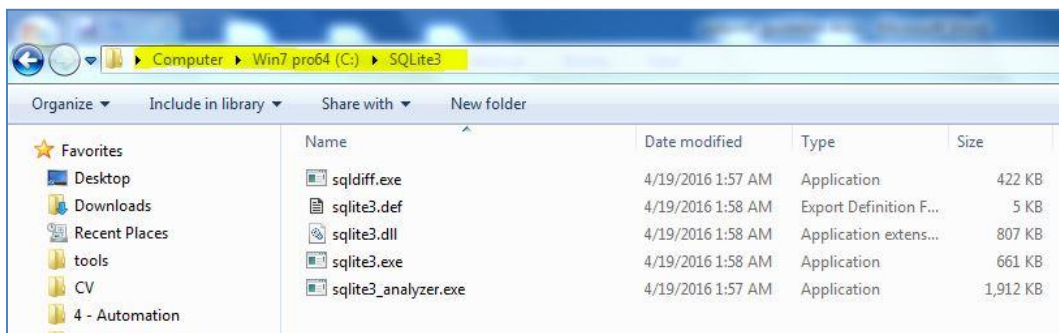
1. ERROR: Could not find a valid gem 'bundler' (>= 0), here is why:
2. Unable to download data from https://rubygems.org/ - SSL_connect returned=1 errno=0 state=SSLv3 read server certificate B: certificate verify failed (
3. https://api.rubygems.org/latest_specs.4.8.gz)

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>`

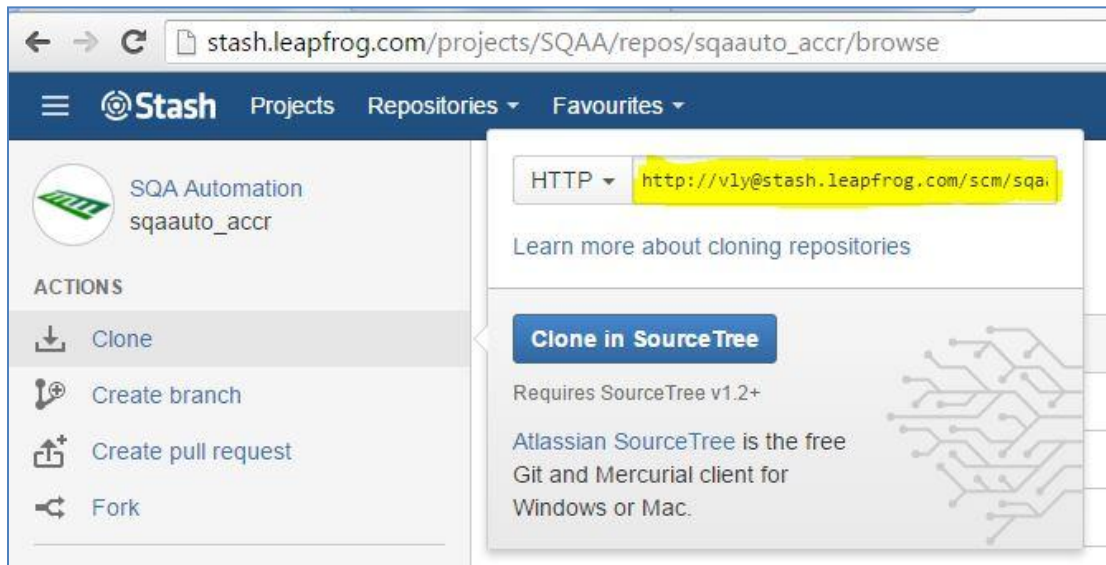
2. Get Outpost source code

❖ 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

```
MINGW32/D
Welcome to Git (version 1.9.4-preview20140815)

Run 'git help git' to display the help index.
Run 'git help <command>' to display help for specific commands.

vinh.ly@LGDN13012-W7 /D
$ git clone --recursive http://stash.leapfrog.com/scm/sqa/sqaauto_accr.git
Cloning into 'sqaauto_accr'...
Username for 'http://stash.leapfrog.com': vly
Password for 'http://vly@stash.leapfrog.com':
remote: Counting objects: 398, done.
remote: Compressing objects: 100% (278/278), done.
rRemote: Total 398 (delta 224), reused 267 (delta 116)
Receiving objects: 96% (383/398), 21.50 MiB | 405.00 KiB/s
Receiving objects: 100% (398/398), 21.68 MiB | 403.00 KiB/s, done.
Resolving deltas: 100% (224/224), done.
Checking connectivity... done.
Checking out files: 100% (230/230), done.
Submodule 'sqaauto_outpost' (http://stash.leapfrog.com/scm/sqa/sqaauto_outpost.git) registered for path 'sqaauto_outpost'
Cloning into 'sqaauto_outpost'...
Username for 'http://stash.leapfrog.com': vly
Password for 'http://vly@stash.leapfrog.com':
remote: Counting objects: 479, done.
remote: Compressing objects: 100% (140/440), done.
Receiving objects: 100% (479/479), 3.39 MiB | 399.00 KiB/s, done.
Resolving deltas: 100% (223/223), done.
Checking connectivity... done.
Submodule path 'sqaauto_outpost': checked out 'd4f84b4e018ecd852bhc9a5ec56cc547b2b1b87f'

vinh.ly@LGDN13012-W7 /D
$
```

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

- Go to 'sqaauto_outpost' folder
- Open Git CMD
- Type: *git checkout master*

```
MINGW32/D/sqaauto_accr/sqaauto_outpost
Welcome to Git (version 1.9.4-preview20140815)

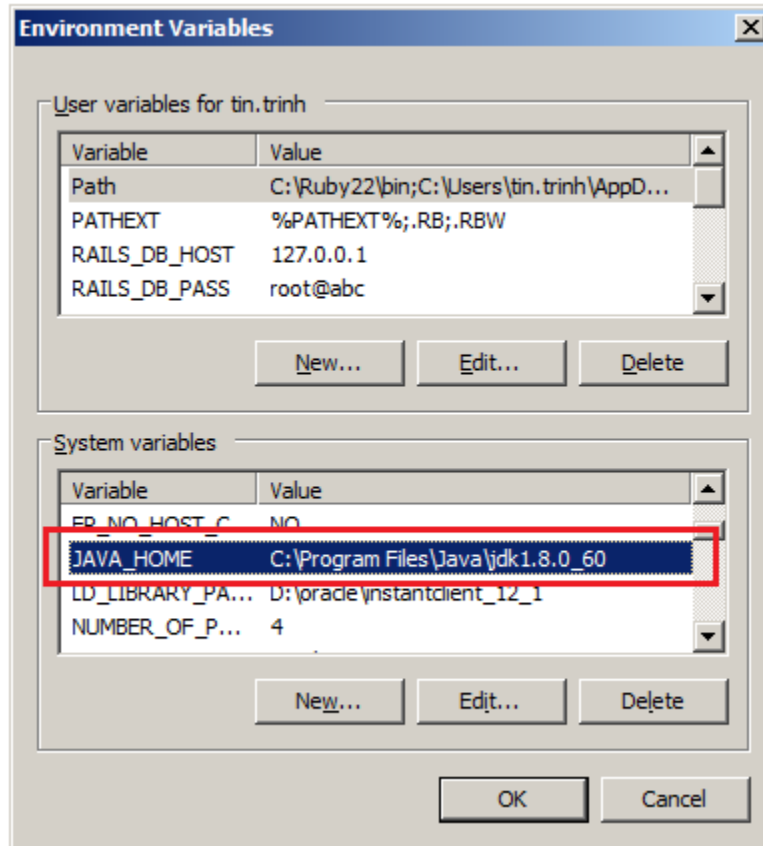
Run 'git help git' to display the help index.
Run 'git help <command>' to display help for specific commands.

vinh.ly@LGDN13012-W7 /D/sqaauto_accr/sqaauto_outpost <(d4f84b4...)>
$ git checkout master
Switched to branch 'master'
Your branch is up-to-date with 'origin/master'.

vinh.ly@LGDN13012-W7 /D/sqaauto_accr/sqaauto_outpost (master)
$
```

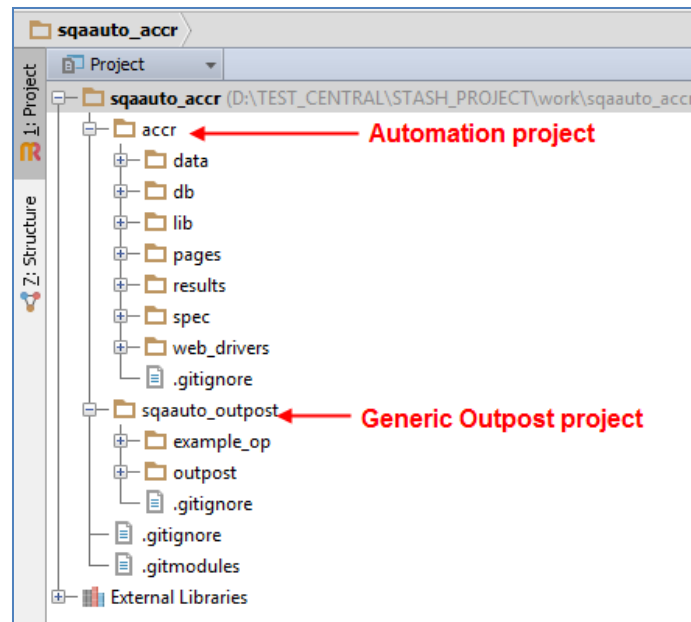
3. Install Java JDK

- 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**

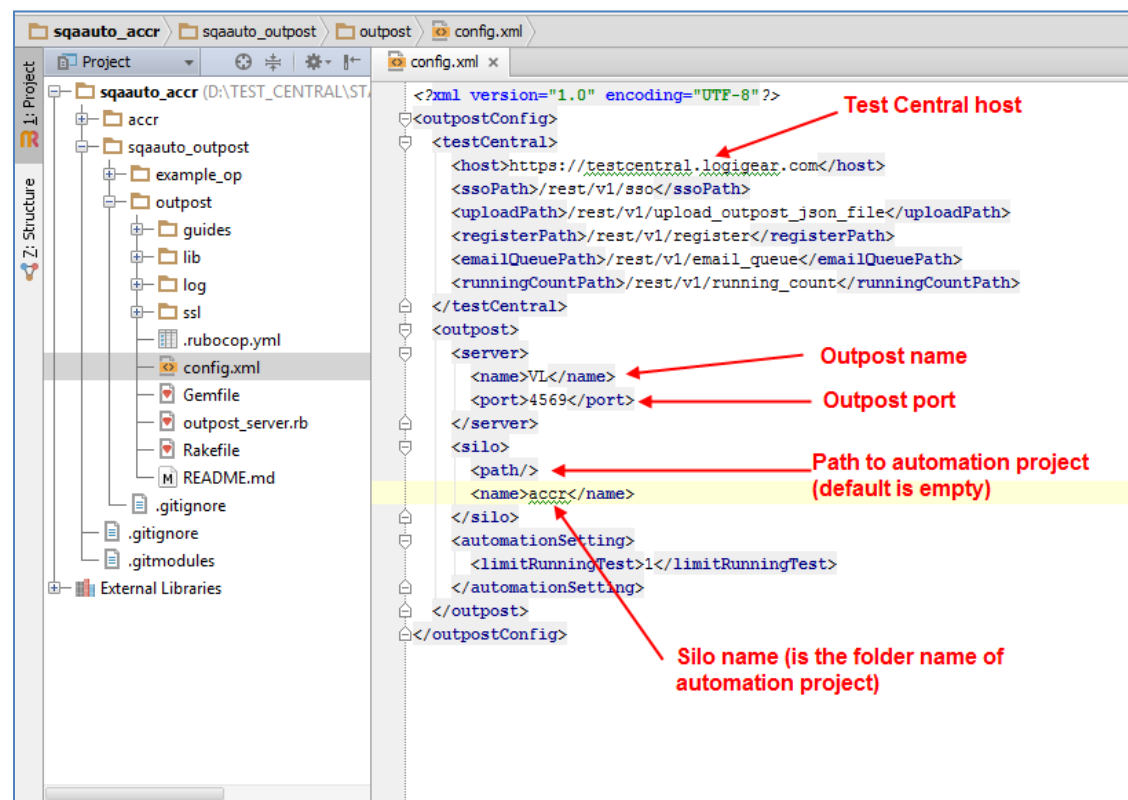


4. Configure Outpost

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

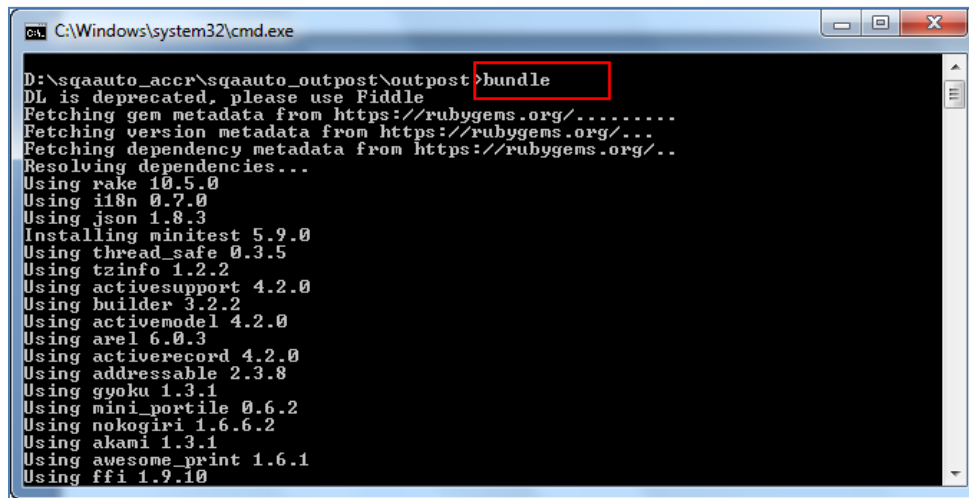
NOTE: Environment variables

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**



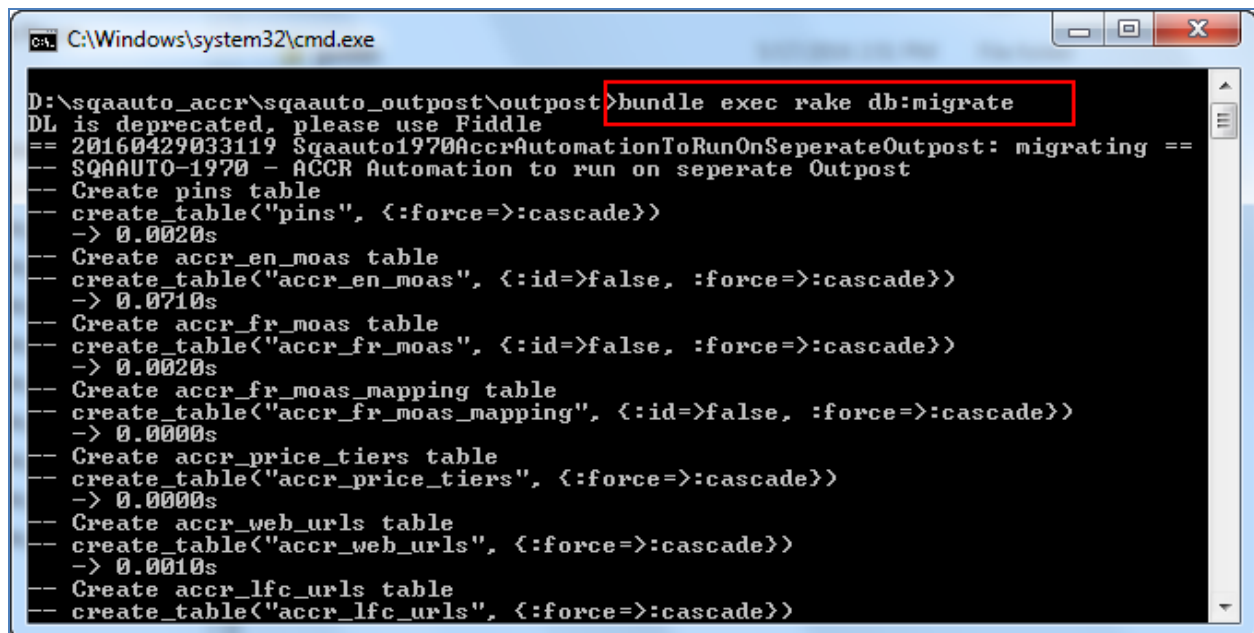
```
C:\Windows\system32\cmd.exe
D:\sqaauto_accr\sqaauto_outpost\outpost>bundle
DL is deprecated, please use Fiddle
Fetching gem metadata from https://rubygems.org/.....
Fetching version metadata from https://rubygems.org/...
Fetching dependency metadata from https://rubygems.org/..
Resolving dependencies...
Using rake 10.5.0
Using i18n 0.7.0
Using json 1.8.3
Installing minitest 5.9.0
Using thread_safe 0.3.5
Using tzinfo 1.2.2
Using activesupport 4.2.0
Using builder 3.2.2
Using activemodel 4.2.0
Using arel 6.0.3
Using activerecord 4.2.0
Using addressable 2.3.8
Using gyoku 1.3.1
Using mini_portile 0.6.2
Using nokogiri 1.6.6.2
Using akami 1.3.1
Using awesome_print 1.6.1
Using ffi 1.9.10
```

- 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

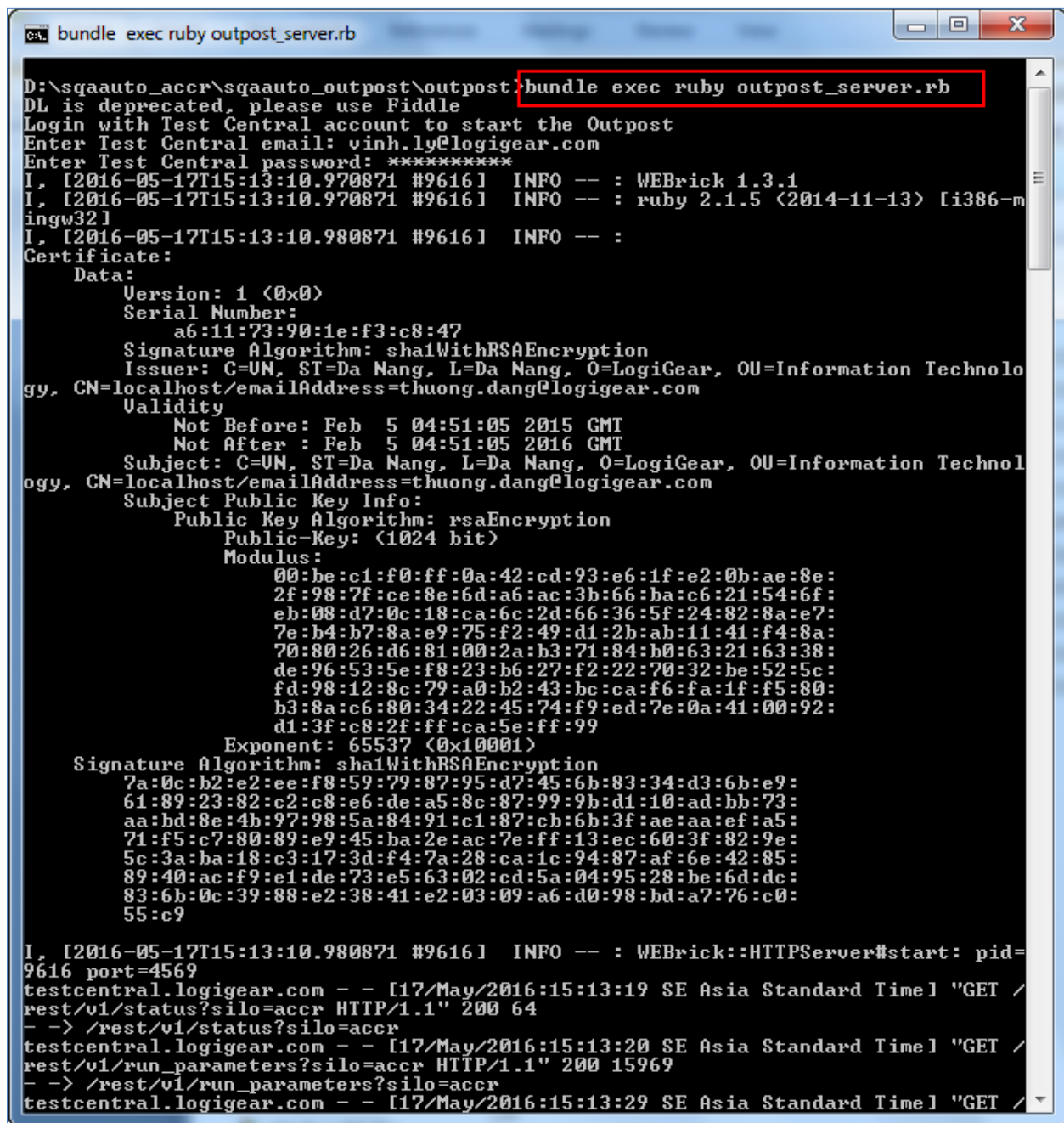
- Go to 'sqaauto_outpost\outpost' and open CMD
- Type: **bundle exec rake db:migrate**



```
C:\Windows\system32\cmd.exe
D:\sqaauto_accr\sqaauto_outpost\outpost>bundle exec rake db:migrate
DL is deprecated, please use Fiddle
== 20160429033119 Sqaauto1970AccrAutomationToRunOnSeperateOutpost: migrating ==
-- SQAUTO-1970 - ACCR Automation to run on seperate Outpost
-- Create pins table
-- create_table("pins", {:force=>:cascade})
--> 0.0020s
-- Create accr_en_moas table
-- create_table("accr_en_moas", {:id=>false, :force=>:cascade})
--> 0.0710s
-- Create accr_fr_moas table
-- create_table("accr_fr_moas", {:id=>false, :force=>:cascade})
--> 0.0020s
-- Create accr_fr_moas_mapping table
-- create_table("accr_fr_moas_mapping", {:id=>false, :force=>:cascade})
--> 0.0000s
-- Create accr_price_tiers table
-- create_table("accr_price_tiers", {:force=>:cascade})
--> 0.0000s
-- Create accr_web_urls table
-- create_table("accr_web_urls", {:force=>:cascade})
--> 0.0010s
-- Create accr_lfc_urls table
-- create_table("accr_lfc_urls", {:force=>:cascade})
```

5.3.Start Outpost

- Go to 'sqaauto_outpost\outpost' and open CMD
- Type: **bundle exec ruby outpost_server.rb**
- Enter Test Central account



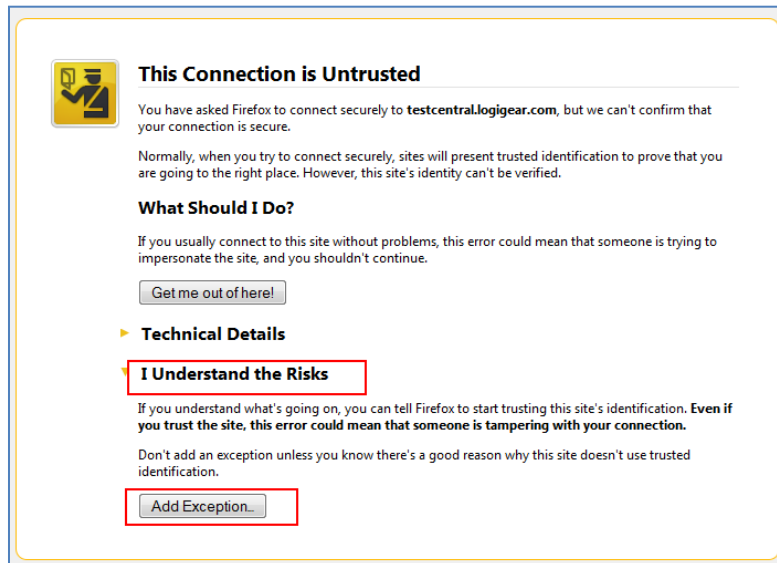
```
CA: bundle exec ruby outpost_server.rb
D:\sqaauto_accr\sqaauto_outpost\outpost>bundle exec ruby outpost_server.rb
DL is deprecated, please use Fiddle
Login with Test Central account to start the Outpost
Enter Test Central email: vinh.ly@logigear.com
Enter Test Central password: *****
I, [2016-05-17T15:13:10.970871 #96161] INFO -- : WEBrick 1.3.1
I, [2016-05-17T15:13:10.970871 #96161] INFO -- : ruby 2.1.5 (2014-11-13) [i386-m
ingw32]
I, [2016-05-17T15:13:10.980871 #96161] INFO -- :
Certificate:
  Data:
    Version: 1 (0x0)
    Serial Number:
      a6:11:73:90:1e:f3:c8:47
    Signature Algorithm: sha1WithRSAEncryption
    Issuer: C=UN, ST=Da Nang, L=Da Nang, O=LogiGear, OU=Information Technolo
gy, CN=localhost/emailAddress=thuong.dang@logigear.com
    Validity
      Not Before: Feb  5 04:51:05 2015 GMT
      Not After : Feb  5 04:51:05 2016 GMT
    Subject: C=UN, ST=Da Nang, L=Da Nang, O=LogiGear, OU=Information Technol
ogy, CN=localhost/emailAddress=thuong.dang@logigear.com
    Subject Public Key Info:
      Public Key Algorithm: rsaEncryption
      Public-Key: (1024 bit)
      Modulus:
        00:be:c1:f0:ff:0a:42:cd:93:e6:1f:e2:0b:ae:8e:
        2f:98:7f:ce:8e:6d:a6:ac:3b:66:ba:c6:21:54:6f:
        eb:08:d7:0c:18:ca:6c:2d:66:36:5f:24:82:8a:e7:
        7e:b4:b7:8a:e9:75:f2:49:d1:2b:ab:11:41:f4:8a:
        70:80:26:d6:81:00:2a:b3:71:84:b0:63:21:63:38:
        de:96:53:5e:f8:23:b6:27:f2:22:70:32:be:52:5c:
        fd:98:12:8c:79:a0:b2:43:bc:ca:f6:fa:1f:f5:80:
        b3:8a:c6:80:34:22:45:74:f9:ed:7e:0a:41:00:92:
        d1:3f:c8:2f:ff:ca:5e:ff:99
      Exponent: 65537 (0x10001)
    Signature Algorithm: sha1WithRSAEncryption
      7a:0c:b2:e2:ee:f8:59:79:87:95:d7:45:6b:83:34:d3:6b:e9:
      61:89:23:82:c2:c8:e6:de:a5:8c:87:99:9b:d1:10:ad:bb:73:
      aa:bd:8e:4b:97:98:5a:84:91:c1:87:cb:6b:3f:ae:aa:ef:a5:
      71:f5:c7:80:89:e9:45:ba:2e:ac:7e:ff:13:ec:60:3f:82:9e:
      5c:3a:ba:18:c3:17:3d:f4:7a:28:ca:1c:94:87:af:6e:42:85:
      89:40:ac:f9:e1:de:73:e5:63:02:cd:5a:04:95:28:be:6d:dc:
      83:6b:0c:39:88:e2:38:41:e2:03:09:a6:d0:98:bd:a7:76:c0:
      55:c9
I, [2016-05-17T15:13:10.980871 #96161] INFO -- : WEBrick::HTTPServer#start: pid=
9616 port=4569
testcentral.logigear.com - - [17/May/2016:15:13:19 SE Asia Standard Time] "GET /
rest/v1/status?silo=accr HTTP/1.1" 200 64
- -> /rest/v1/status?silo=accr
testcentral.logigear.com - - [17/May/2016:15:13:20 SE Asia Standard Time] "GET /
rest/v1/run_parameters?silo=accr HTTP/1.1" 200 15969
- -> /rest/v1/run_parameters?silo=accr
testcentral.logigear.com - - [17/May/2016:15:13:29 SE Asia Standard Time] "GET /
```

5.4. Add SSL Exception for Outpost

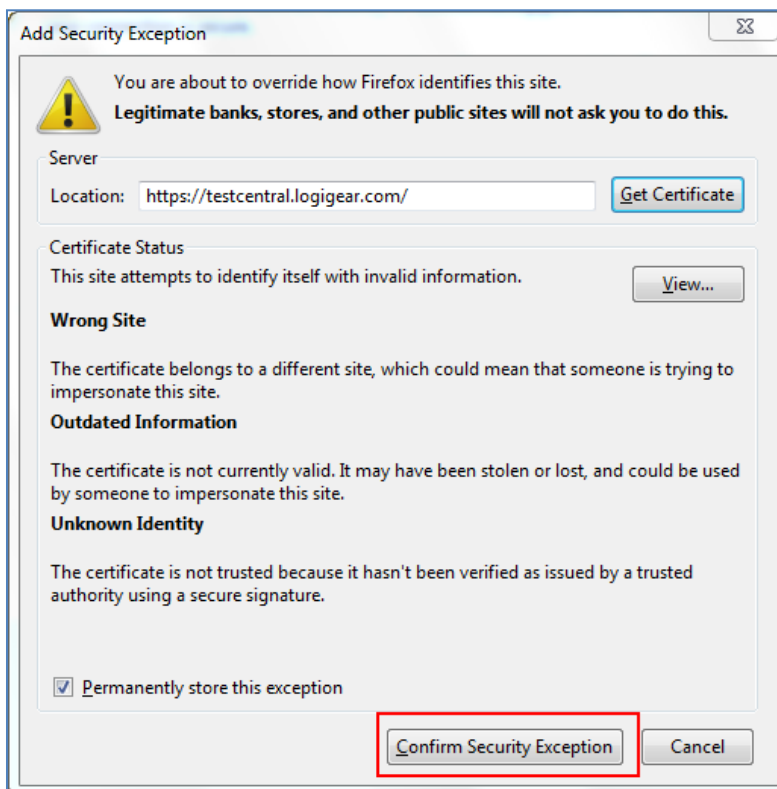
We use Self-signed ssl certificates, so please add SSL Exception for Outpost by doing the following steps (just only do 1 time):

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

The screenshot shows the 'New Test Run' interface in Test Central. The top navigation bar includes the Test Central logo, status counters (0 running, 0 queued, 0 today, 4 scheduled, 0 outpost), and a menu with options like Dashboard, ATG, Web Services, ACCR, Test Central, Utilities, and Vinh. The main form is titled 'New Test Run' with an 'import config' link. It contains several sections for configuration: Silo (ATG, Web Services, Test Central, ACCR), Outpost (VL), Test Suites (dropdown menu with 'ACCR CABO Content - English' selected, and a 'Refresh' button), Environment (DEV, DEV2, STAGING, UAT, UAT2, PREVIEW, PROD), Browser (FIREFOX, CHROME, IE, WEBKIT), Locale (US, CA, UK, IE, AU, ROW, ALL), Release Date (Select dropdown, ALL), Test Cases (a list of 14 test cases with checkboxes, the first two are checked), and an Optional section with fields for Email Results (vinh.ly@logigear.com), Description (255 characters max), and Start time (hh:mm AM). Three red arrows with labels point to specific parts of the form: 'Select Test Suite' points to the Test Suites dropdown, 'Select run parameters' points to the Browser dropdown, and 'Select test cases' points to the Test Cases list.

TESTCENTRAL 0 0 0 4 0
running queued today scheduled outpost

Dashboard ▾ ATG ▾ Web Services ▾ ACCR ▾ Test Central ▾ Utilities ▾ Vinh ▾

New Test Run [import config](#)

Silo: ATG Web Services Test Central **ACCR**

Outpost: **VL**

Select Test Suite → Test Suites: ACCR CABO Content - English ▾
[Refresh](#)

Environment: DEV DEV2 STAGING UAT UAT2 PREVIEW **PROD**

Select run parameters → Browser: FIREFOX **CHROME** IE WEBKIT

Locale: **US** CA UK IE AU ROW ALL

Release Date: Select ▾ ALL

Test Cases [toggle](#)

Select test cases →

- ☒ 1. English CABO - Search SKU and Product detail checking
- ☒ 2. English CABO - Search SKU negative checking
- ☐ 3. English CABO - Category catalog checking
- ☐ 4. English CABO - Category catalog negative checking
- ☐ 5. English CABO - Age catalog checking
- ☐ 6. English CABO - Age catalog negative checking
- ☐ 7. English CABO - Skill catalog checking
- ☐ 8. English CABO - Skill catalog negative checking
- ☐ 9. English CABO - Character catalog checking
- ☐ 10. English CABO - Character catalog negative checking
- ☐ 11. English CABO - Shop All App catalog checking
- ☐ 12. English CABO - Shop All App catalog negative checking
- ☐ 13. English CABO - New Arrivals checking
- ☐ 14. English CABO - New Arrivals negative checking

Optional

Email Results:

Description:

Start time:

5.6. Outpost configuration

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

TESTCENTRAL 0 0 0 4 0 running queued today scheduled outpost Dashboard ATG Web Services ACCR Test Central Utilities Vinh

ACCR Outpost Config

Outpost VL

Running Setting

Limit running max 1 test runs Update

Supported files

File ⓘ	Actions
geo_ips.json	Download Refresh Edit
inmon_endpoints.json	Download Refresh Edit
run_parameters.json	Download Refresh Edit

Leap Frog

About
Test Station version: 9907faf
Up to date: 2016/05/16, 10:02 PM

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,...)*

4 0 Dashboard ATG Web Services ACCR Test Central Utilities Vinh

scheduled outpost

ACCR Outpost Config

Outpost VL

Running Setting

Limit running max 1 Update

Supported files

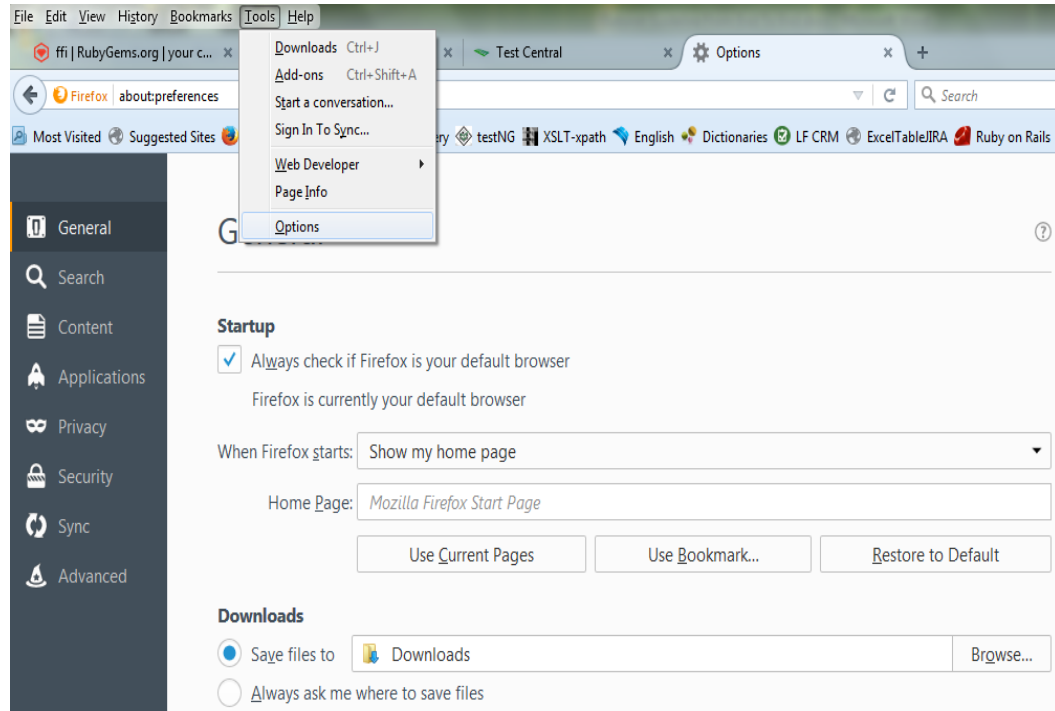
File ⓘ	Actions
geo_ips.json	Download Refresh Edit
inmon_endpoints.json	Download Refresh Edit
run_parameters.json	Download Refresh Edit

- view results
- run scripts
- upload result
- config
- upload PINs
- upload MOAS
- content Platform Checker

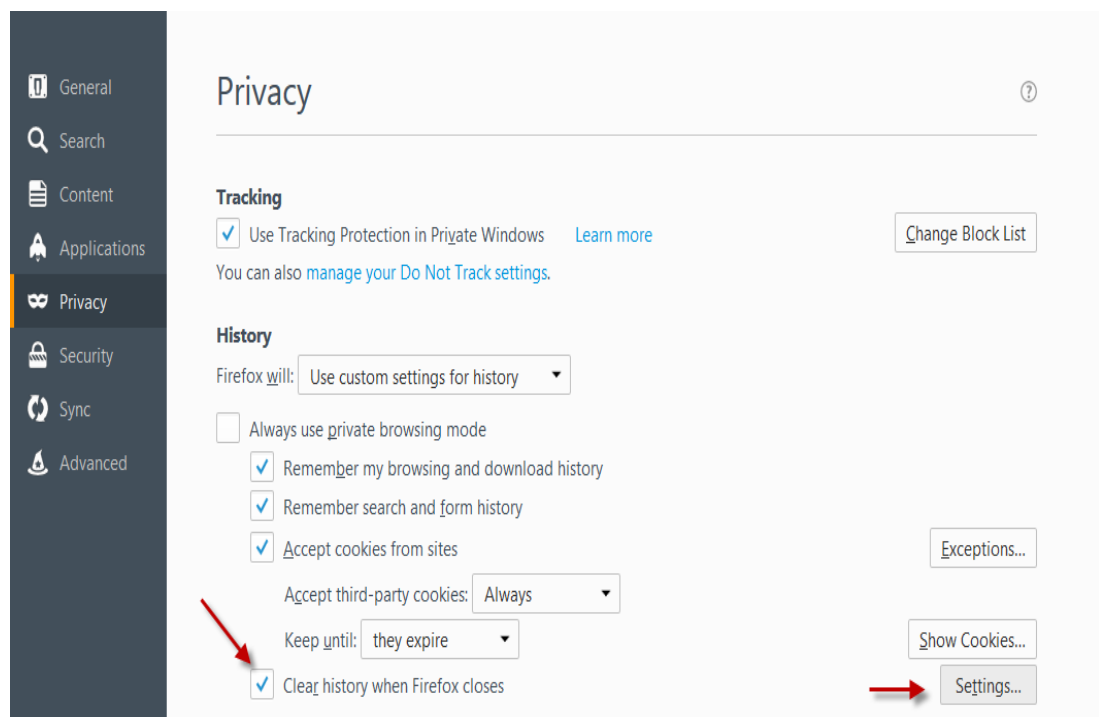
6. Configure browsers for running script

6.1. FIREFOX

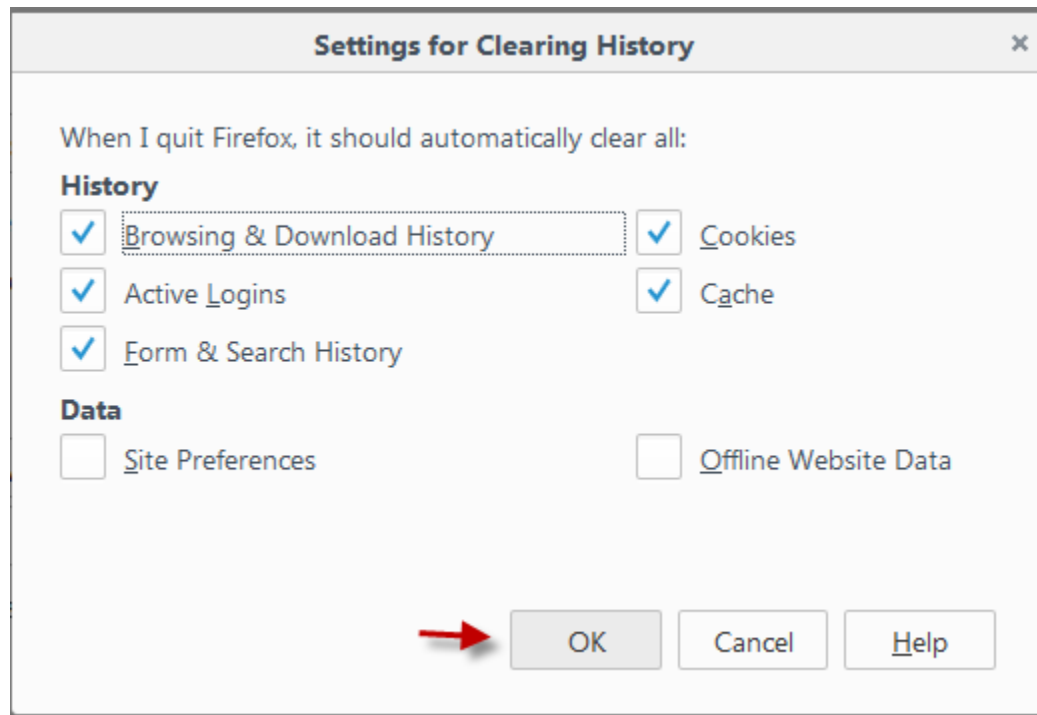
1. Require: Firefox <= 46, recommended Firefox 46
2. Automatically clear private data when closing your browser **(Optional)**
 - Firefox has the built-in ability to clear all your private data when you close it – no extensions required. To get started, open the Firefox menu and select Options



- Select the Privacy icon and choose “Use custom settings for history.” Enable the “Clear history when Firefox closes” check box

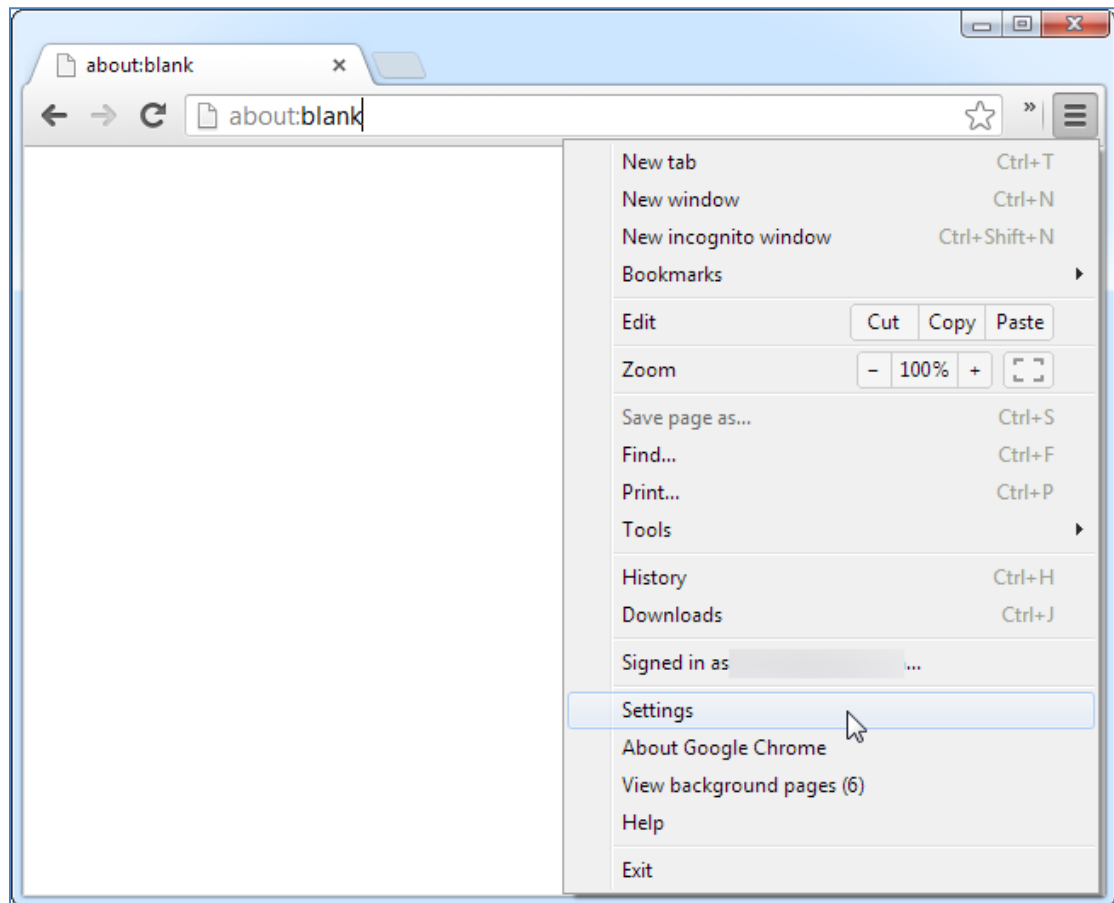


- To control which types of private data Firefox automatically clears, click the Settings button and choose the types of private data you don't want

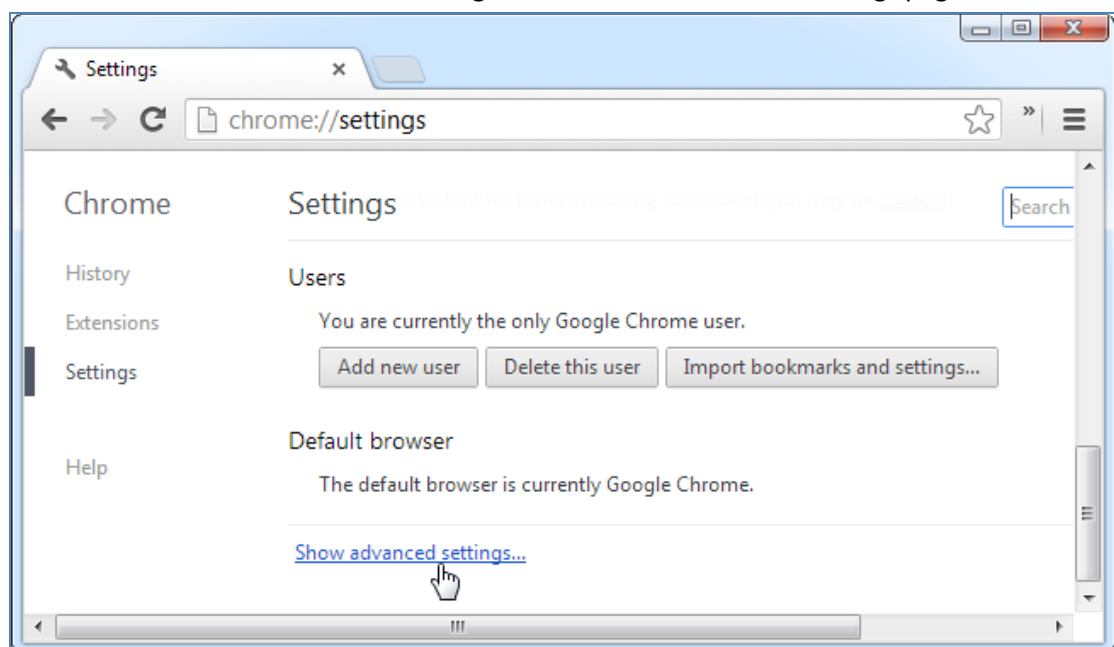


6.2. CHROME

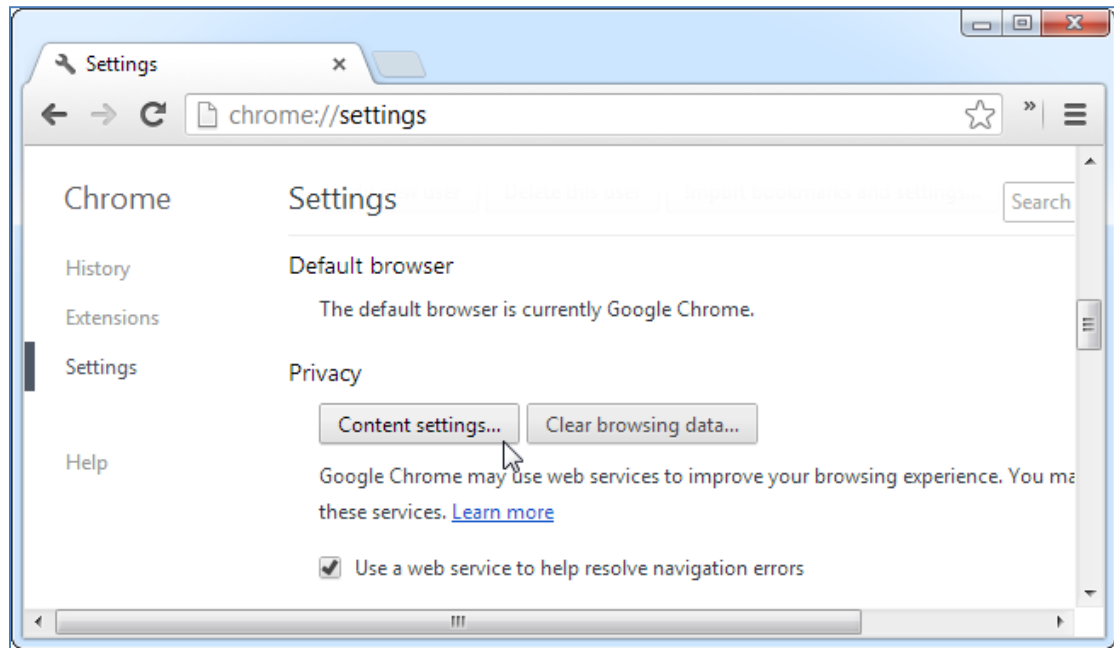
1. Require: Chrome latest version
2. Automatically clear private data when closing your browser (**Optional**)
 - Open the Settings screen from Chrome's menu



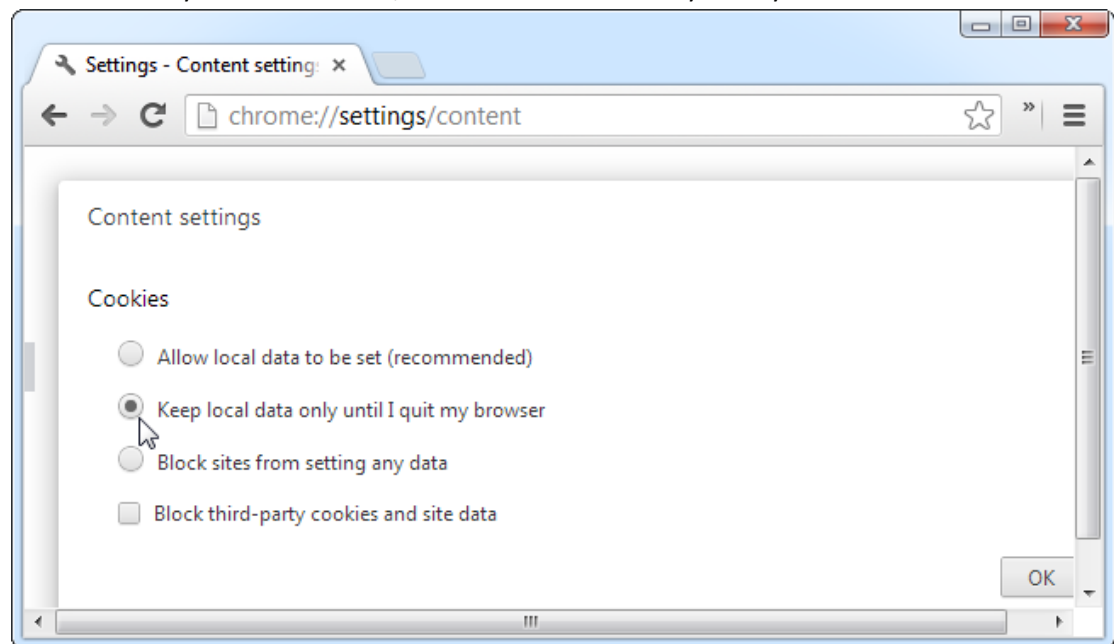
- Click the Show advanced settings link at the bottom of the Settings page



- Click the Content settings button under the Privacy header

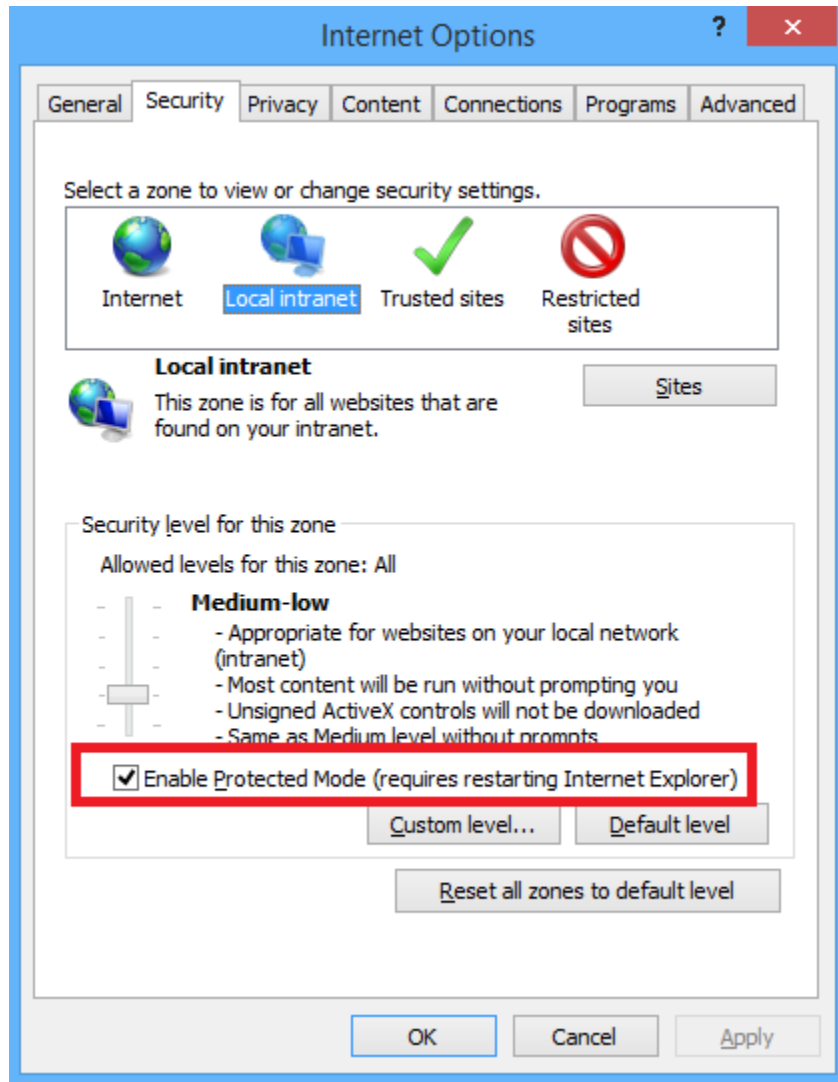


- Under Cookies, select “Keep local data only until I quit my browser” and click OK.
When you close Chrome, it will now automatically clear your cookies

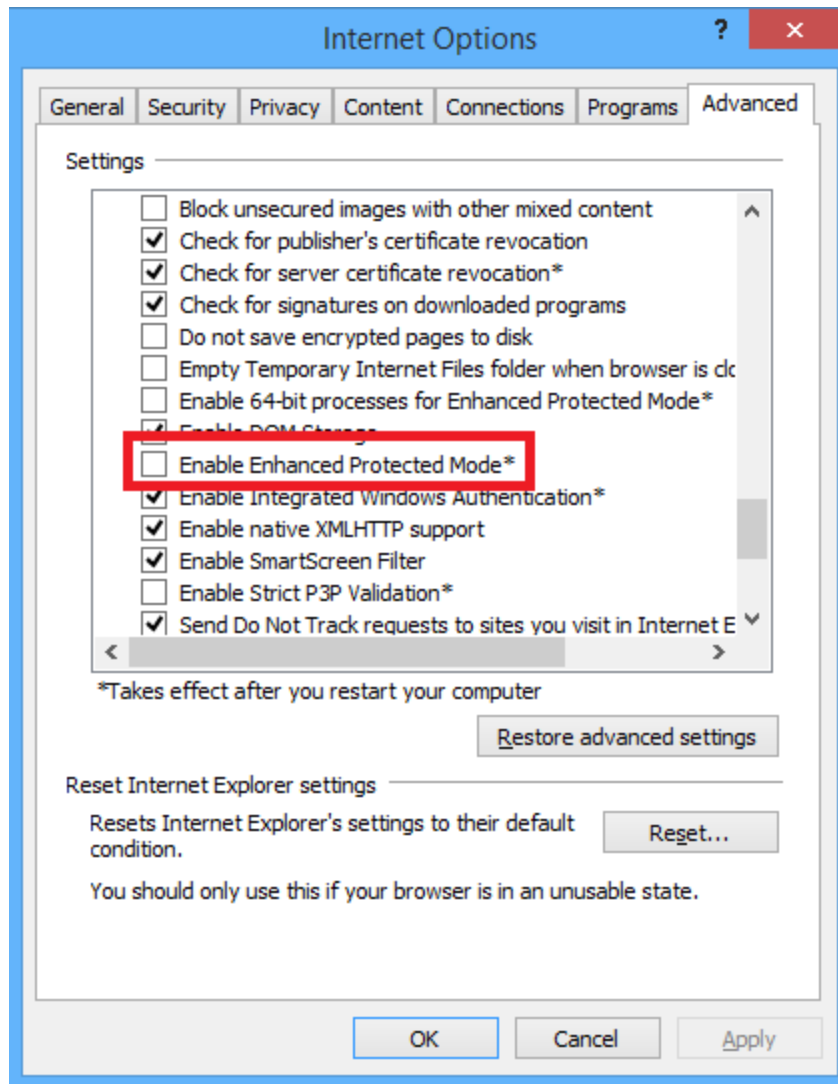


6.3. INTERNET EXPLORER

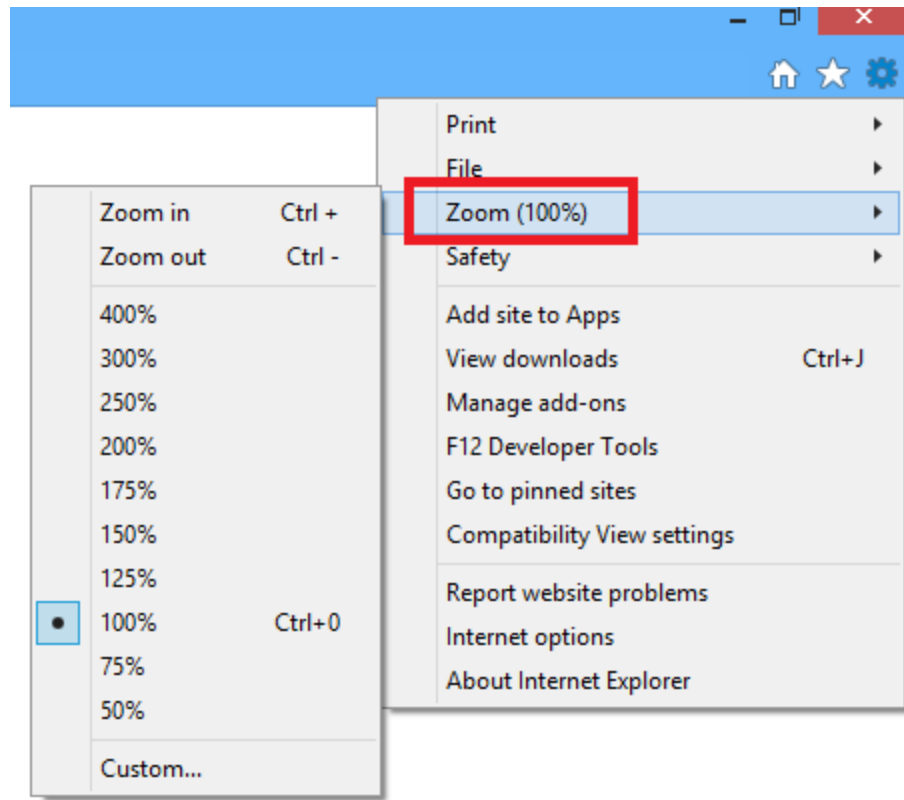
1. Require: IE 11 installed
2. Go to IE/Internet Option/Security Tab
3. Enable "Protected Mode" for all "Internet", "Local Intranet", "Trusted Site", "Restricted sites"



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

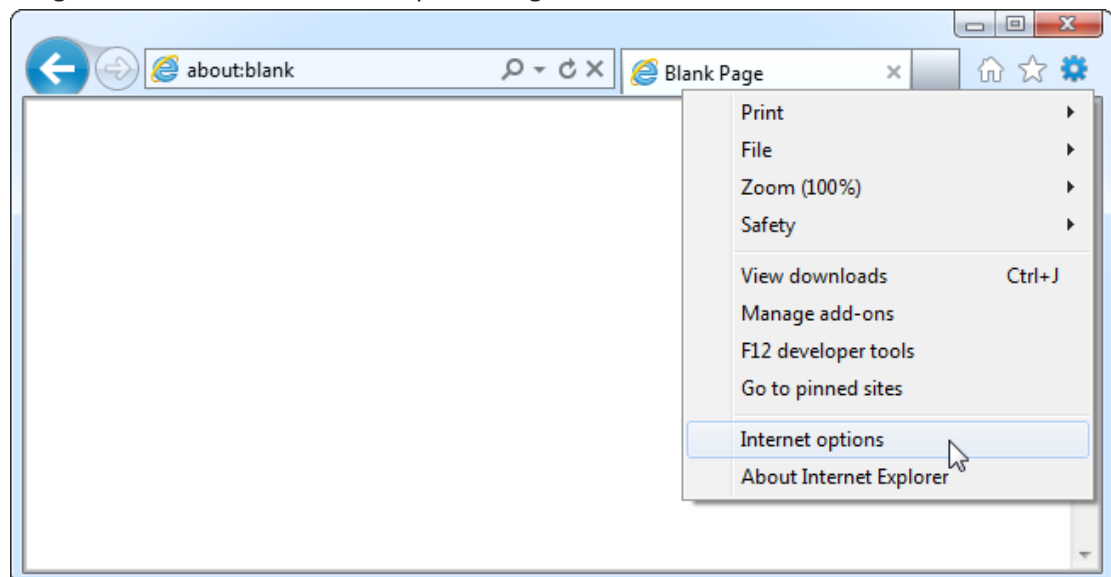


6. Set Zoom Level of IE to 100%



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.