

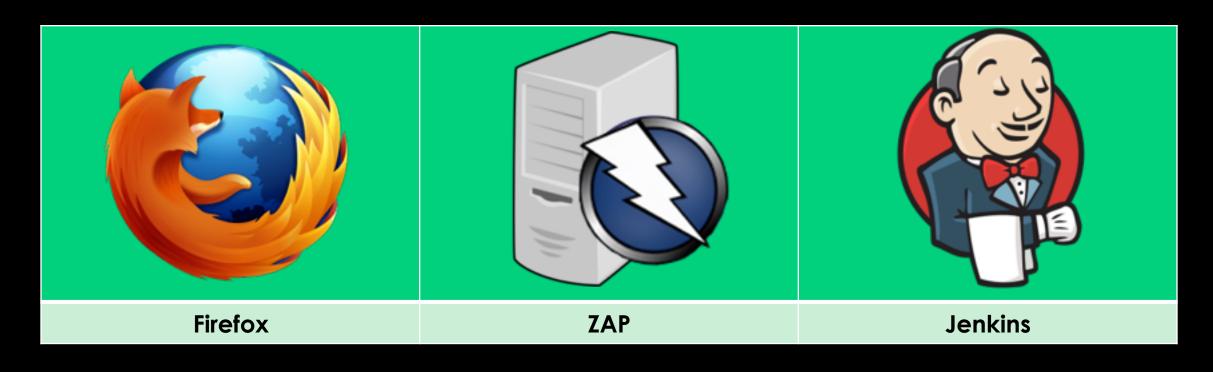
Goran Sarenkapa ZAP Jenkins Plugin Project Lead

WHAT IS ZAP?

- An easy to use webapp pentest tool
- Completely free and open source
- An OWASP flagship project
- Ideal for beginners
- But also used by professionals
- Ideal for devs, esp. for automated security tests
- Becoming a framework for advanced testing

See <u>here</u> for more information.

REQUIREMENTS



Install



Setup



Run

ZAP JENKINS PLUGIN – FEATURES

- Manage Sessions (Load or Persist)
- Define Context (Name, Include URLs and Exclude URLs)
- Attack Contexts (Spider Scan, AJAX Spider, Active Scan)

You can also:

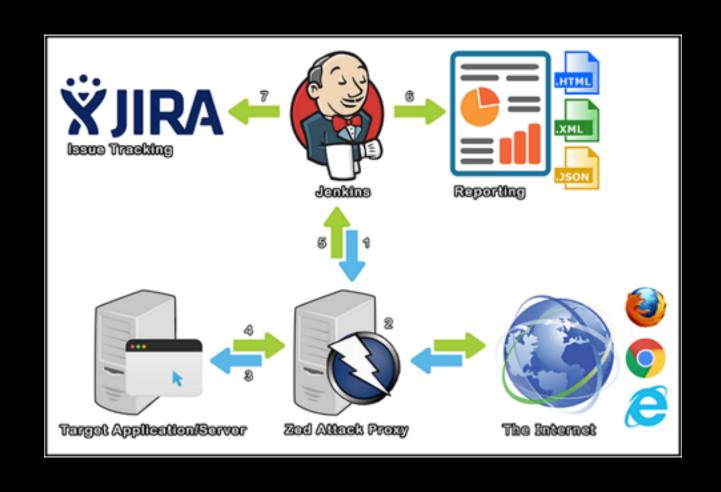
- Setup Authentication (Form Based or Script Based)
- Run as Pre-Build as part of a <u>Selenium</u> Build
- Generate Reports (

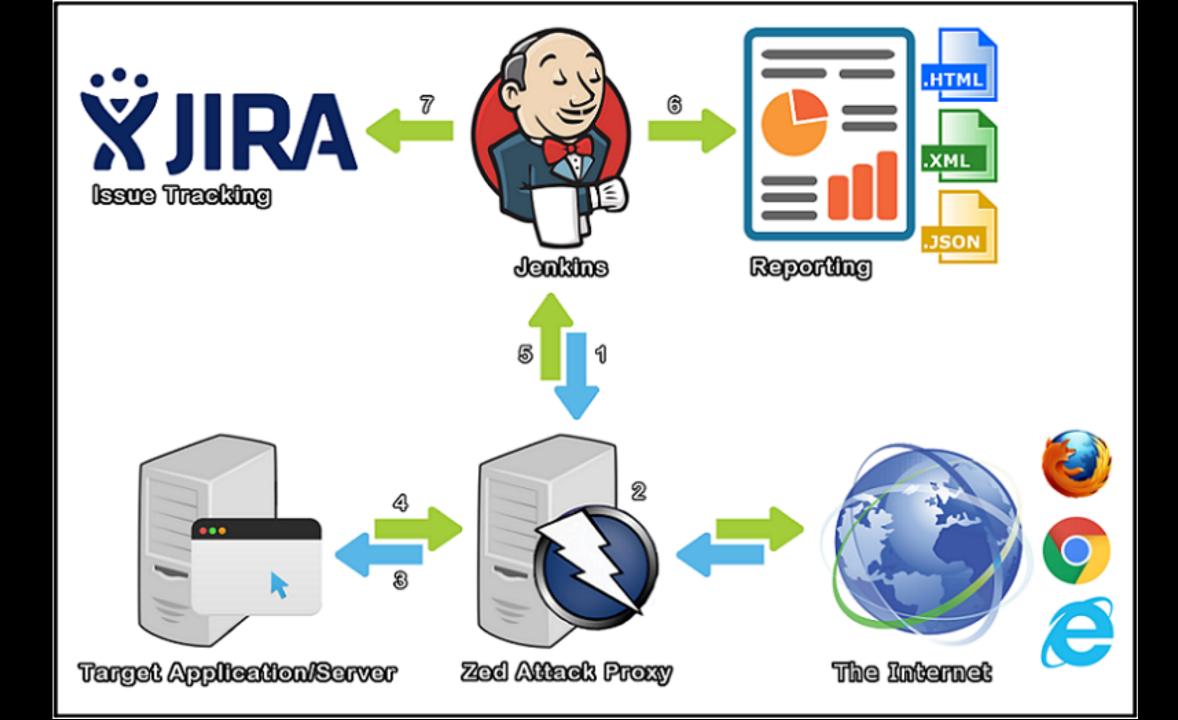






ZAP IN A CI ENVIRONMENT







- Download <u>desired war release</u> (Requires Jenkins 1.580.1+ to run)
- 2. Create a Jenkins folder and extract the WAR file into it.
- 3. Create a JENKINS_HOME environment variable.
- 4. Start Jenkins from the cmd line with %JAVA_HOME%\bin\java.exe -jar %JENKINS_HOME%\jenkins.war
- 5. Install the following plugins:
 - Envlnject Plugin
 - Summary Display Plugin
 - HTML Publisher Plugin
 - zap plugin
- 6. Set Jenkins to run on 127.0.0.1:8080



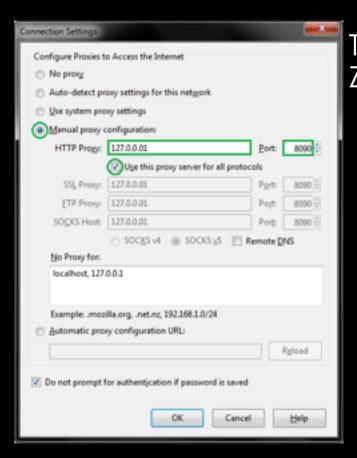
- Download <u>release</u> (Requires ZAP Weekly <u>2016-09-05</u> or later)
- 2. Create a ZAP folder and extract the files into it.
- 3. Create a ZAPROXY_HOME environment variable.
- 4. Modify zap.bat
 - java %jvmopts% -jar zap-D-2016-09-05.jar %*
 To
 - java %jvmopts% -jar %ZAPROXY_HOME%\zap-D-2016-09-05.jar %*
- 5. Start ZAP from the cmd line with %ZAPROXY_HOME%\zap.bat -installdir %ZAPROXY_HOME%



- 1. Download a selenium supported version of Firefox
 - ZAP supports one of the following <u>versions</u> of Firefox.
 - Download and install a supported release.



FIREFOX – LOCAL PROXY SETTINGS



The host and port set here should be the SAME set in ZAP and in the ZAP Jenkins plugin.



ZAP – LOCAL PROXY SETTINGS



The host and port set here should be the SAME set in Firefox and in the ZAP Jenkins plugin.

ZAP



Tools



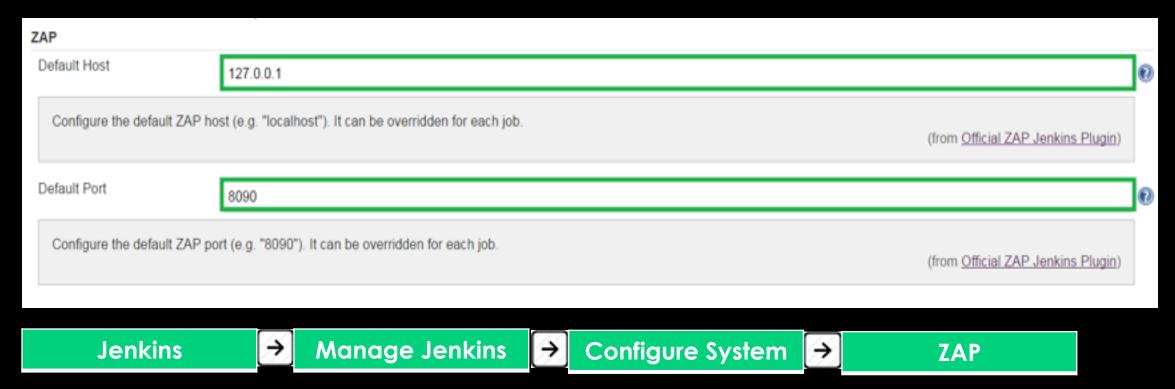
Options



Local Proxy



JENKINS – LOCAL PROXY SETTINGS



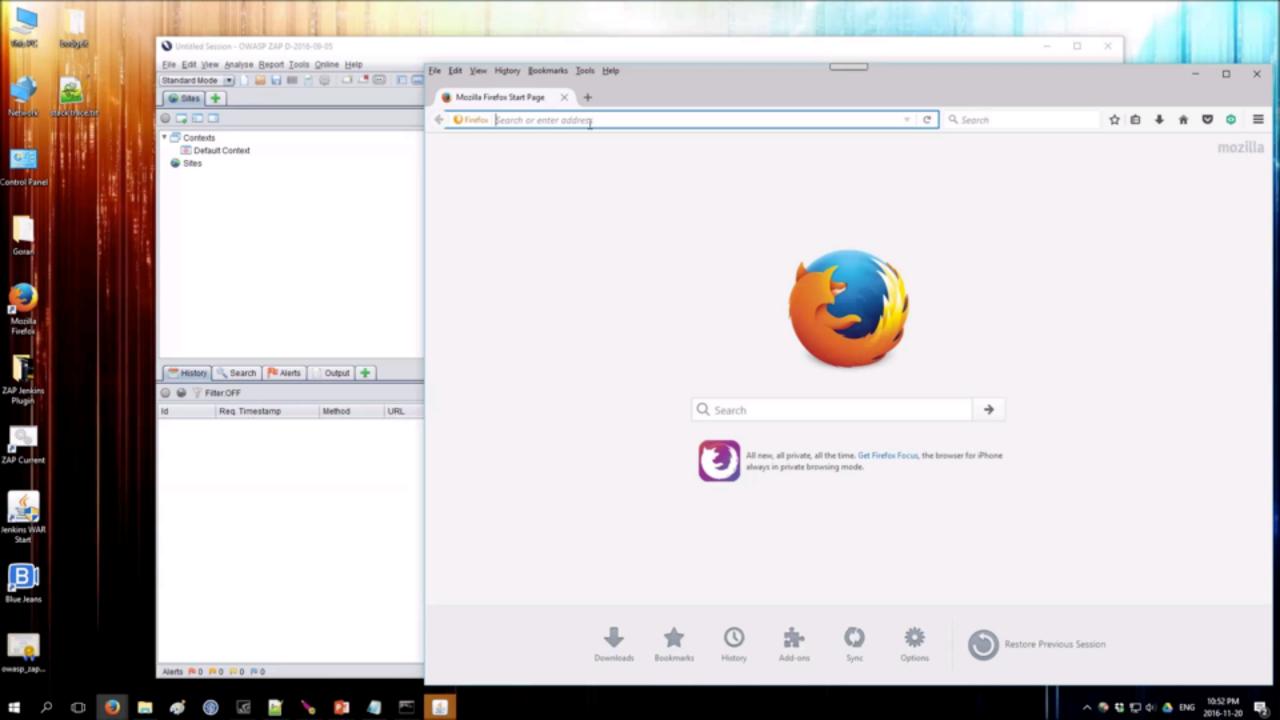
The host and port set here should be the SAME set in ZAP and in Firefox.



Map your site and Configure the Job to <u>Execute ZAP</u>

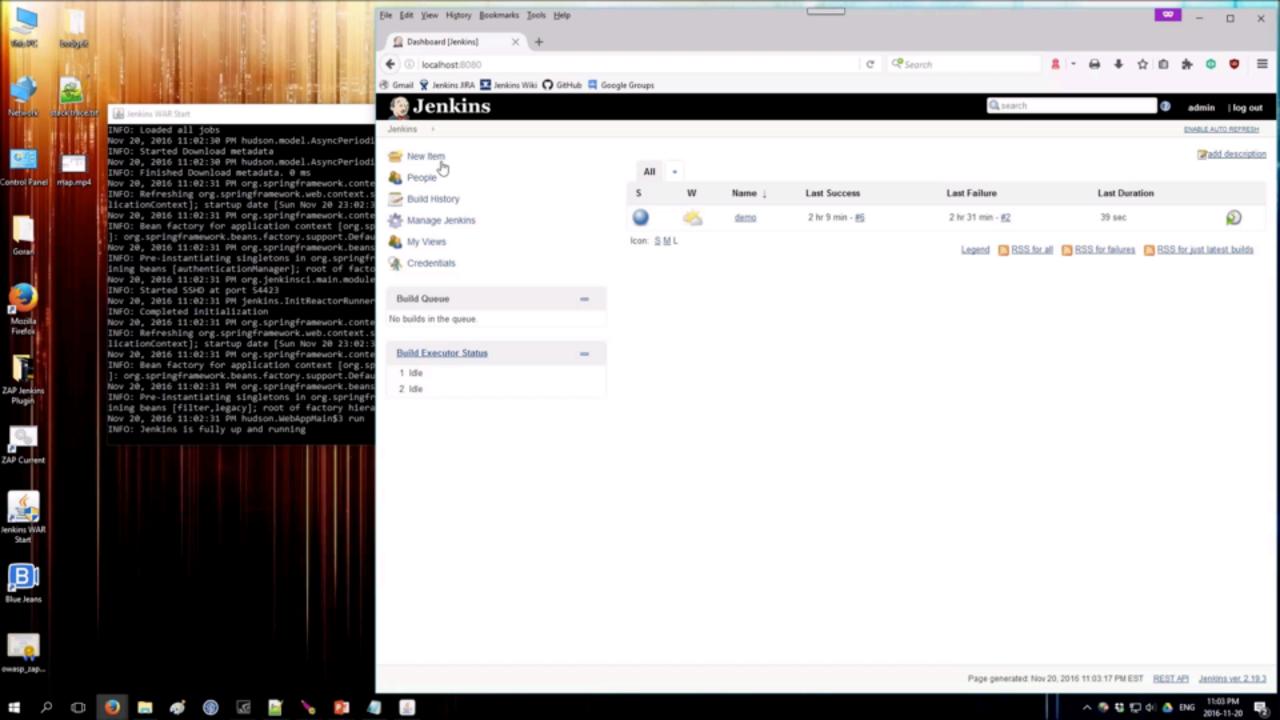
Or

Write a Selenium Script and Configure the Job to <u>Execute ZAP as part of a Selenium Build</u>



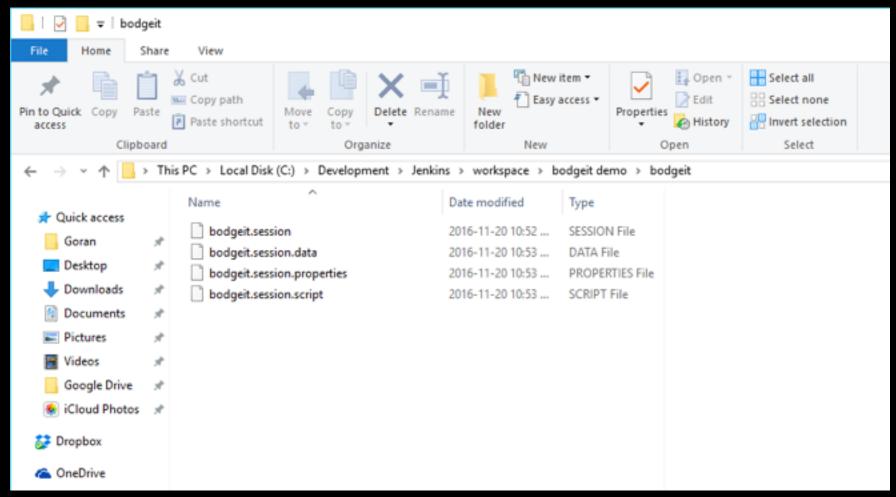


- 1. Create a new Freestyle project
- 2. Restrict the build to the desired machine
 - (Slave or Master, machine on which ZAP is installed and the build will be run)
- 3. Run the Build to create the workspace





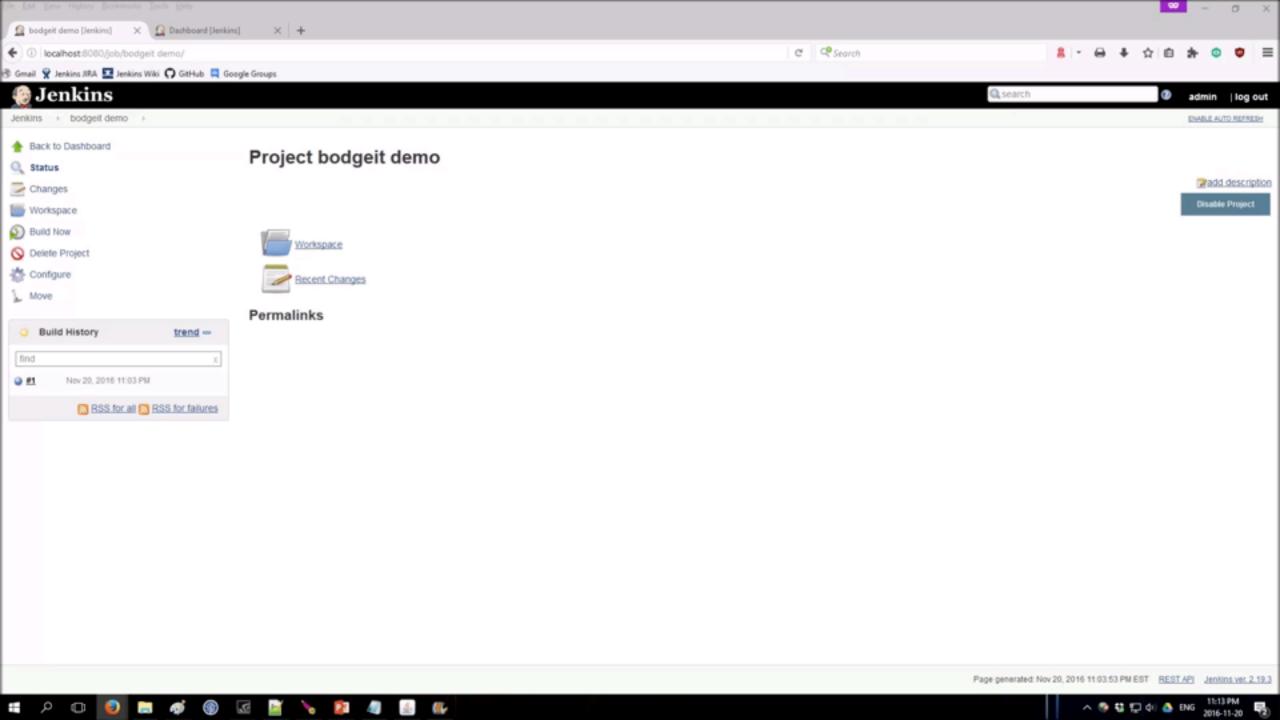
JENKINS – SESSION VISIBILITY

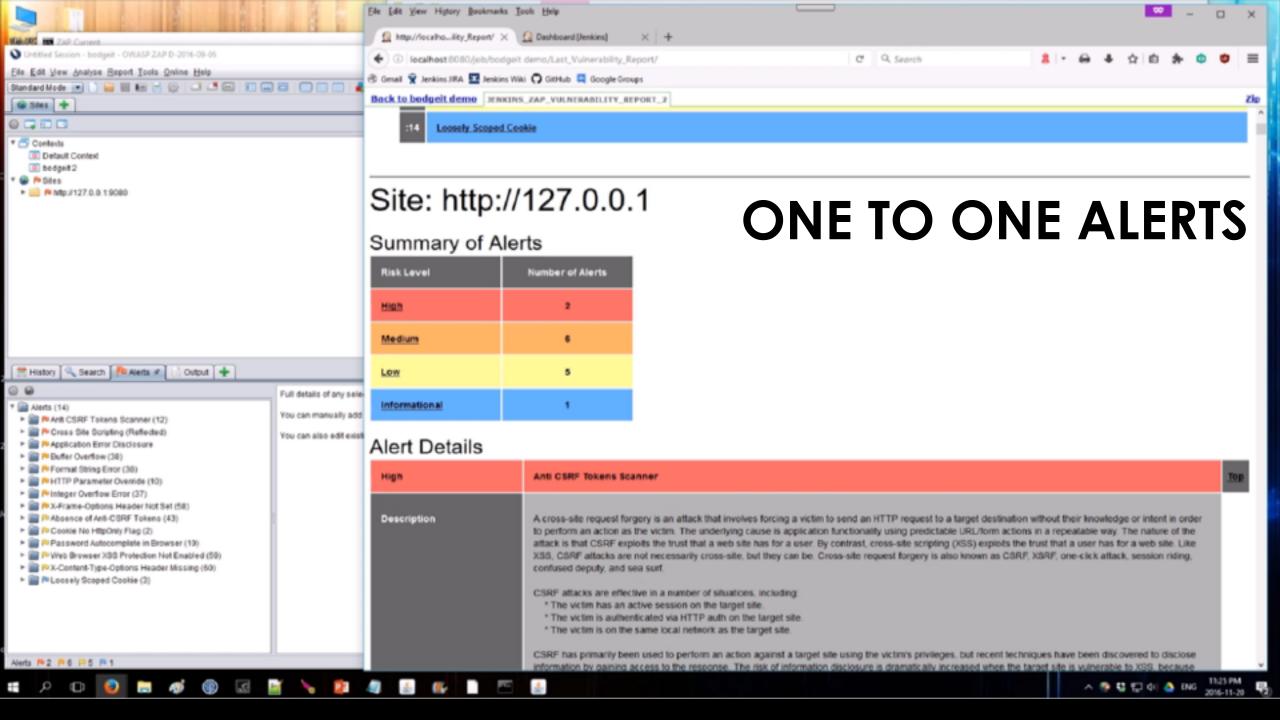


 Copy the previously persisted session from the ZAP UI into the Job's workspace.



- 1. Add an **Execute ZAP** build step
- 2. Add an Archive the Artifacts post-build action
- 3. Add a **Publish HTML Reports** post-build action





THANK YOU!

- Documentation: See the Wiki for more details.
- Questions: Ask on our <u>Google Group</u>.
- Issue Tracking: Report on the <u>Jenkins JIRA</u> for the project, please read the <u>JIRA</u> guidelines before reporting an issue.
- Your feedback will drive our future development and determine which features we focus on.