BrowserStack Automate Jenkins Plugin

This plugin allows you to integrate your Selenium tests in <u>Jenkins</u> with <u>BrowserStack Automate</u>.

Features

- 1. Set up and tear down BrowserStack Local for testing internal, dev or staging environments
- 2. Embed BrowserStack Automate Report in your Jenkins job results

Prerequisites

- 1. Minimum Jenkins version supported is 1.509
- For viewing the BrowserStack Automate Report in your Jenkins job results, <u>JUnit plugin</u> must be installed

Installation

- 1. Download the BrowserStack Automate plugin
- 2. Go to Manage Jenkins > Manage Plugins
- 3. Click on the Advanced tab and in the Upload Plugin section, select and upload the plugin .hpi file
- 4. Once installed, please restart Jenkins for plugin installation to complete

Configuring tests

This step is required for viewing the BrowserStack Automate Report in your Jenkins job results. Currently, JUnit and TestNG maven based projects are supported. Add the following dependencies to your POM.xml file:

```
<dependency>
  <groupId>com.browserstack
  <artifactId>automate-maven-plugin</artifactId>
  <version>0.2-SNAPSHOT</version>
</dependency>
<dependency>
  <groupId>org.aspectj</groupId>
  <artifactId>aspectirt</artifactId>
  <version>1.7.4</version>
</dependency>
Add the following repositories to your POM.xml file:
<repositories>
<repository>
  <id>sonatype-nexus-snapshots</id>
  <url>https://oss.sonatype.org/content/repositories/snapshots</url>
 </repository>
</repositories>
<plu><pluginRepositories></pl>
 <plu><pluginRepository></pl>
```

```
<id>sonatype-nexus-snapshots</id>
   <url>https://oss.sonatype.org/content/repositories/snapshots</url>
</pluginRepository>
</pluginRepositories>
Add the following plugin to your POM.xml file:
<build>
  <plugins>
   <plugin>
    <groupId>com.browserstack
    <artifactId>automate-maven-plugin</artifactId>
    <version>0.2-SNAPSHOT</version>
    <executions>
     <execution>
      <goals>
       <goal>test-compile</goal>
      </goals>
     </execution>
    </executions>
   </plugin>
  </plugins>
</build>
Following environment variables are set by this plugin:
BROWSERSTACK_USER
BROWSERSTACK ACCESSKEY
BROWSERSTACK LOCAL
BROWSERSTACK_LOCAL_IDENTIFIER
You can use these environment variables to set DesiredCapabilities in your test. For e.g:
String username = System.getenv("BROWSERSTACK USER");
String accessKey = System.getenv("BROWSERSTACK_ACCESSKEY");
String browserstackLocal = System.getenv("BROWSERSTACK_LOCAL");
String browserstackLocalIdentifier = System.getenv("BROWSERSTACK LOCAL IDENTIFIER");
DesiredCapabilities capabilities = new DesiredCapabilities();
capabilities.setCapability("os", "Windows");
capabilities.setCapability("browser", "chrome");
capabilities.setCapability("browserstack.local", browserstackLocal);
capabilities.setCapability("browserstack.localIdentifier", browserstackLocalIdentifier);
driver = new RemoteWebDriver(new URL("https://" + username + ":" + accessKey +
"@hub.browserstack.com/wd/hub"), capabilities);
```

Please see this example for more details.

Configuring Jenkins

Global Configuration

1. Go to Manage Jenkins > Configure System

- 2. In the BrowserStack Automate section set your BrowserStack username and access key. You can get these from your <u>BrowserStack settings page</u>
- 3. Save your changes

Job Configuration

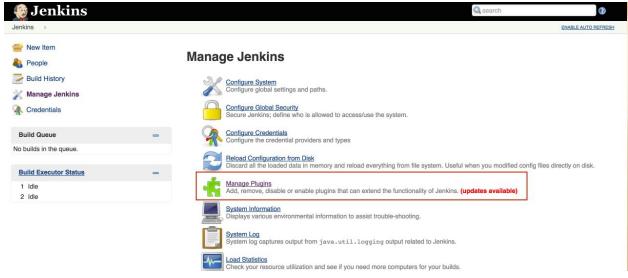
- 1. Create a new Jenkins job or configure an existing one
- 2. In the Build Environment section, select BrowserStack Automate
- 3. Select the credentials. By default, credentials set in Global Settings will be selected. You can override them if required
- 4. Select BrowserStack Local for testing staging/internal/dev/restricted environments on BrowserStack. You can also set the following options:
 - 1. BrowserStack Local Path Alternate location to download and run the BrowserStack Local binary file
 - 2. BrowserStack Local Options You can see the entire list of command line options here
- 5. In Post-build Actions section, select Publish JUnit test result report
- 6. Set the path for your report XMLs and select Embed BrowserStack Automate Report
- 7. Build your Jenkins job and in test results navigate to the testcase to view it's embedded BrowserStack Automate report
- 8. Save your changes

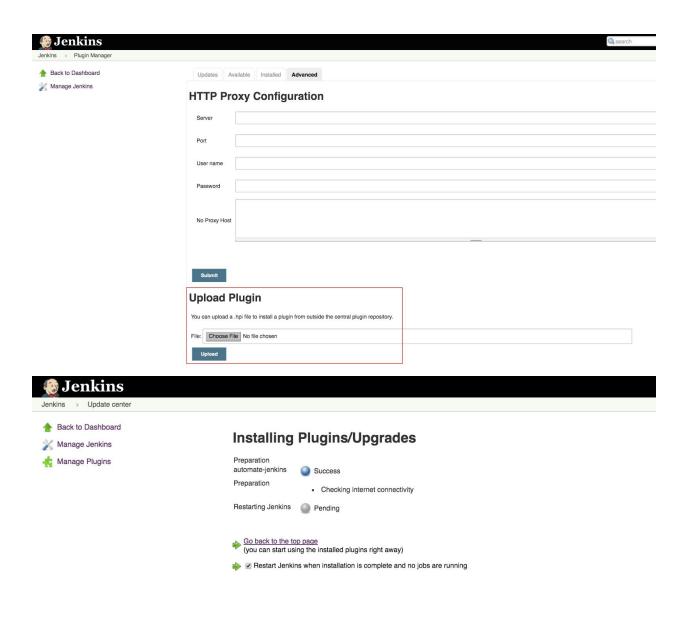
Limitations

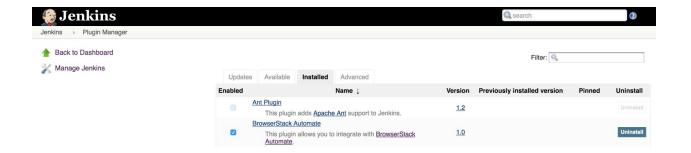
- 1. BrowserStack Automate Report can only be embedded into your Jenkins job's results for JUnit and TestNG based projects
- 2. BrowserStack Local in Master-Slave setup is not currently supported

Screenshots

Installation Steps

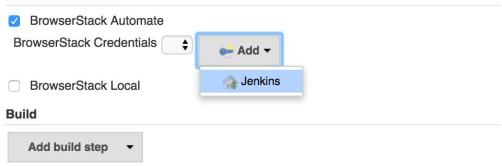


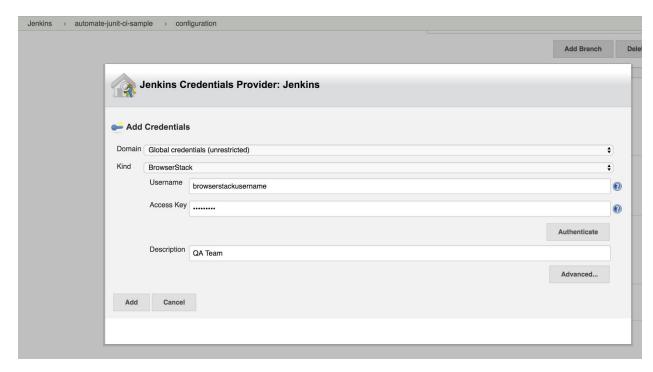


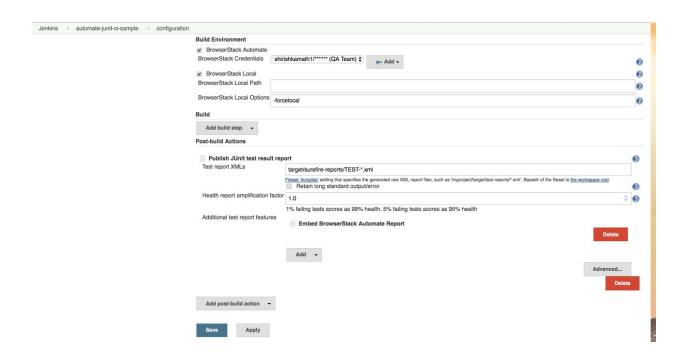


Job Configuration

Build Environment







BrowserStack Automate Report

