

Sauce Labs Enterprise: Course Labs

Lab 1: Sauce Connect Proxy

Goal Run a single manual tunnel over Sauce Connect Proxy

Time 10 minutes

Step	Action
1.	Ensure that Sauce Connect Proxy is installed on your machine. Follow the download and install instructions here
2.	Open up your windows terminal. Run the following commands:
	<pre>C:\Users\SauceTraining\> cd sc-<version>-win32\bin\</version></pre>
	<pre>C:\Users\SauceTraining\sc-<version>-win32\bin\> sc -u %YOUR_USERN</version></pre>
3.	Run the following commands:
	<pre>C:\Users\SauceTraining\> cd sc-<version>-win32\bin\</version></pre>
	<pre>C:\Users\SauceTraining\sc-<version>-win32\bin\> sc -u %YOUR_USERN</version></pre>

Lab 2: Pre-Run Executable

Goal Create a HashMap that will download a bash script before a test run

Time 15 minutes

Step	Action
1.	Upload the disable_fraud.sh (on the desktop) script to sauce storage using
	the following curl command:
	<pre>curl -u %SAUCE_USERNAME%:%SAUCE_KEY% -X POST -H "Content- Type: application/octet-stream" https://saucelabs.com/rest/v1/storage/%SAUCE_USERNAME%/di sable_fraud.sh?overwrite=truedata-binary @/disable_fraud.sh</pre>

Open Eclipse, then open java-testng-simple Change the variables USERNAME and ACCESS KEY to your Sauce Labs credentials. Add a public Hashmap named 'prerun' below the 'id' variable: Public HashMap <String, String> prerun; 5. Above the @Test annotation add a @BeforeTest annotation Add a function called before() that references the hashmap and declares the prerun arguments, including the file you uploaded to saucestorage public void before() { prerun = new HashMap<String, String>(); prerun.put("executable", "saucestorage:disable_fraud.sh");
 prerun.put("args", " -a" + " -q"); prerun.put("background", "false"); System.out.println("Pretest assets set: " + prerun); } In the main() function, add a "prerun" desired capabilities that references prerun as an executable. caps.setCapability("prerun", prerun); Save the script, and then run the test 8. Check the recording of the test to see the bash script being downloaded and executed before the test. Add the /S flag in the prerun() parameters. Save and run the test again and notice that the Sauce logs don't log as many console messages.



Lab 3: The Sauce REST API

Goal Use the SauceREST API to:

- List account names
- Get test activity for a given user
- Stop a test for a given user
- Get active tunnel information

Time 15 minutes

Step	Action
1.	Ensure you have a Sauce Connect Proxy tunnel instance running.
	> /.sc -u %YOUR_USERNAME% -k %YOUR_ACCESS_KEY% -i <id></id>
2.	In SauceLabs.com, run a manual test against this URL:
	https://saucelabs.github.io/training-test-page/
3.	
	running accounts of your profile:
	> curl https://saucelabs.com/rest/v1/users/%YOUR_USERNAME% -u
	%YOUR_USERNAME%: %YOUR_ACCESS_KEY%
4.	Use the activity REST API to get the current activity of running tests via a
	given user.
	> curl https://saucelabs.com/rest/v1/%YOUR_USERNAME%/activity -u
	%YOUR_USERNAME%: %YOUR_ACCESS_KEY%
5.	Use the job REST API to stop the currently running test via the Job ID
	> curl -u %YOUR_USERNAME%:%YOUR_ACCESS_KEY% -X PUT -d
	https://saucelabs.com/rest/v1/%YOUR_USERNAME%/jobs/YOUR_JOB_ID/sto
	p

Lab 4: REST API in Your Test Script

Goal Implement the Sauce REST client library binding in your test script.

Time 10 minutes

Step	Action
1.	In Eclipse, open SampleSauceRestTest.java
2.	Create a public SauceREST variable called restAPI, a public String called myJob, and a public String called tunnelID
3.	Add a @BeforeTest annotation, followed by a public method called before()
4.	ACCESS_KEY as parameters.
5.	restAPI = new SauceREST(USERNAME, ACCESS_KEY);
3.	Add a declaration for tunnelID that uses the getTunnels() method. tunnelID = restAPI.getTunnels();
6.	
	<pre>System.out.println("Tunnels: " + tunnelID);</pre>
7.	Run the Maven test and view the console messages in Eclipse.
	 Note: the value returned by tunnelID is not the value required for the 'tunnel-identifier' desired capability.
8.	Add a new declaration in the WebDriver section the uses the
	getJobInfo() REST API that returns the Job Details
	<pre>myjob = restAPI.getJobInfo(id);</pre>
	<pre>System.out.println(myjob);</pre>
9.	Lastly, uncomment the <code>@AfterMethod</code> to send an update job API call to view whether the test passed or failed.



Lab 5: High-Availability Sauce Connect

Goal Configure a pool of shared tunnels

Time 5 minutes

Step	Action
1.	Run 3 tunnels simultaneously by opening three command prompt tabs and enter the following commands:
	 sc -u %SAUCE_USERNAME% -k %SAUCE_KEY%pidfile /tmp/sc1.pidlogfile /tmp/sc1.logscproxy-port 29997 se-port 4446 -i my-tun1
	 sc -u %SAUCE_USERNAME% -k %SAUCE_KEY%pidfile /tmp/sc2.pidlogfile /tmp/sc2.logscproxy-port 29998 se-port 4447 -i my-tun2
	 sc -u %SAUCE_USERNAME% -k %SAUCE_KEY%pidfile /tmp/sc3.pidlogfile /tmp/sc3.logscproxy-port 29999 se-port 4448 -i my-tun3
2.	Confirm that all tunnels are currently running in SauceLabs.com
3.	Open the SampleParrallelTests.java and edit "tunnel-identifier" values for
	each test (i.e. tun1, tun2, tun3)
4.	Run a maven test and see the tests running parallel with Sauce Connect
5.	Teardown the tunnels by using Ctrl + C in each command prompt OR by
	deleting them in the SauceLabs.com interface
6.	Run 3 tunnels again using the same commands as step 1, but give each
	tunnel the same id "pool-tunnel" and add the following flags:
	no-remove-colliding-tunnels
	•wait-tunnel-shutdown
7.	
	tunnel"
8.	Save and run the test again, what do you notice in SauceLabs.com?

Lab 6: Configure Sauce OnDemand

Goal Send the Sauce Labs a pass or fail

Time 5 minutes

Step	Action
1.	Create a new project on Jenkins (should be listening on localhost:8080)
2.	Choose Configure in Jenkins Build
3.	Change the Source Code Management to this address:
	https://github.com/saucelabs-training/Java-TestNG-Selenium-Jenkins
	•
4.	Enable SauceLabs Support in the Build Environment
5.	Choose at least two platforms for desired capabilities in the Sauce Labs
	Options
6.	Enable Sauce Connect checkbox
7.	Invoke a top-level Maven targets as another build step. For example
	Maven version 3.3.9, Goals = clean, test;
8.	Set the Test Publisher as a post action build step
9.	Run the build in Jenkins, then view the test results in SauceLabs.com