

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 <u>here</u>
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</version></pre>
	%YOUR_USERNAME% -k %YOUR_ACCESS_KEY% -i readytech_tunnel
3.	Run a manual test in SauceLabs and select the readytech_tunnel as your tunnel

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%/disable_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

Action
Ensure you have a Sauce Connect Proxy tunnel instance running.
> /.sc -u %YOUR_USERNAME% -k %YOUR_ACCESS_KEY% -i <id></id>
In SauceLabs.com, run a manual test against this URL:
https://saucelabs.github.io/training-test-page/
In your command terminal, use the Account API method to get a list of the
running accounts of your profile:
> curl https://saucelabs.com/rest/v1/users/%YOUR_USERNAME% -u
%YOUR_USERNAME%: %YOUR_ACCESS_KEY%
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%
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
<pre>https://saucelabs.com/rest/v1/%YOUR_USERNAME%/jobs/YOUR_JOB_ID/sto p</pre>

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.	<pre>In before(), add new declaration for restAPI that uses USERNAME and ACCESS_KEY as parameters. restAPI = new SauceREST(USERNAME, ACCESS KEY);</pre>
5.	Add a declaration for tunnelID that uses the getTunnels() method.
6.	<pre>tunnelID = restAPI.getTunnels(); Finally, add a System.out to print the value of tunnelID. 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 myjob = restAPI.getJobInfo(id); System.out.println(myjob);
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