

# Testing REST webservices [closed]

Asked 16 years, 2 months ago   Modified 9 years, 8 months ago

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63



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Closed 8 years ago.

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My organization is working on building RESTful webservices on JBoss appserver. The QA team is used to testing SOAP webservices so far using SoapUI. SoapUI has a new version that has REST capabilities. We're considering using that.

1. Are there any publicly available RESTful services available on the net for free that someone could test ?

## 2. What tools are available(and used) for testing RESTful web services ?

java

web-services

rest

testing

rest-client

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edited Jan 15, 2013 at 8:20



TheWhiteRabbit

15.7k ● 4 ● 34 ● 57

asked Oct 15, 2008 at 2:06



anjanb

13.8k ● 19 ● 80 ● 106

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Regarding the title "Teting REST webservices" ... I hope you mean 'Test' and aren't making an obscure reference to the Tet Offensive (talk about hardening a server!) – [micahwittman](#)  
Oct 15, 2008 at 2:51

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I meant Testing, of course. thanks micahwittman and Chris for fixing it – [anjanb](#) Oct 15, 2008 at 3:35

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24 Answers

Sorted by:

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[soapUI](#) will do the job as well, check out [this blog post](#) to get started.

28

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edited Jul 12, 2011 at 14:56



bluefoot

10.5k ● 11 ● 45 ● 57





answered Jun 24, 2009 at 9:52



Ole Lensmar

347 ● 3 ● 3

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Maybe soapUI works, but I can't tell because it constantly crashes on my Ubuntu machine, killing Eclipse and causing me to lose any unsaved work. I've tried all the usual workarounds. The standalone edition is worse. – [Dave](#) Mar 13, 2012 at 12:41

---



Please try Firefox addon Poster , which is simple to use and gets you up nd running quickly

25

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answered Oct 15, 2008 at 10:42



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[user28192](#)

259 ● 2 ● 2



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3 Actually, I take back my +1. When inspecting the traffic Poster sends through, it is malformed which causes problems for my webservice. When you add parameters and do either POST or PUT it will not actually send those parameters and it will not send a content-type unless you explicitly add content. – [Earlz](#) Mar 25, 2010 at 16:44

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20

You can exercise web services using fairly trivial bits of Python. Depending on your security, you may be able to simply use Python's `urllib` or `urllib2` to do do you REST requests and examine your answers.



Additionally, you might want to use Python `unittest` to control the execution of the Python tests of your REST services.



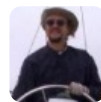
```
class TestSomeREST( unittest.TestCase ):
    def setUp(self):
        REALM = "blah@blah.com"
        self.client= RESTClient( "localhost", 18000, "
    )
    def test_1_get(self):
        response = self.client.get('/this/that/other/2
        self.failUnlessEqual(200, response.status_code
        j1= JSONDecoder().decode(response.content)
        self.assertEqual(2, j1[0]['pk'] )
        entity= j1[0]['fields']
        self.assertEqual('Some Other Group', entity['
        self.assertEqual('E1G2', entity['customer_id'
```

The RESTClient class uses urllib2 to pass through digest authentication for each request. It's rather complex, but I can share the essence if it's of interest.

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answered Oct 15, 2008 at 3:09

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[S.Lott](#)

391k ● 82 ● 517 ● 788



Check out [Fiddler](#)

12

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answered Oct 15, 2008 at 2:43

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[TheSoftwareJedi](#)

35.2k ● 22 ● 111 ● 151





8



CURL Gets you halfway there. The other half is checking the headers, response codes and entity content to make sure its good. You could use a variety of tools for that (in shell scripting land, piping the header and contents to files, and diffing them might just do the trick). It wouldn't be that difficult to further refine the toolset, maybe stacking curl up with the unit-testing framework of your choice.

I built a rest webservice testing panel with AJAX. It wasn't that difficult at all actually. You have some security issues to work out (i.e. making sure that you have the test suite on the same server, or maybe signed Javascript.)

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answered Oct 15, 2008 at 2:41

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Jonathan Arkell

10.8k ● 2 ● 26 ● 32

1 Yes, CURL rules for REST testing. [curl.haxx.se](http://curl.haxx.se) – [bortzmeyer](#)  
Oct 15, 2008 at 8:22



8



To test a REST service you can try [REST Assured](#) which makes it very simple to test REST services and validating the response in Java (using JUnit or TestNG).

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answered Jan 5, 2011 at 16:48

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Johan

40.4k ● 41 ● 166 ● 273



8



Check out Postman -

<https://chrome.google.com/webstore/detail/fdmmgilgnpjigdojojpjoooidkmcomcm/>. This is a tool I have been working on over the past several months and lately from the feedback that I have been getting it's becoming quite useful for large REST projects while helping with basic REST endpoint testing.

The code for this is available on Github as well.

<https://github.com/a85/POSTMan-Chrome-Extension>

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answered Jun 2, 2012 at 0:25

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Abhinav

39.8k ● 9 ● 43 ● 49



6



The simplest way to test REST web service is using `curl` in terminal.

There are some codes I used to test my web service of rails. You may modify them to fit your services.

**GET**

```
curl http://localhost:3000/courses.json
```

**POST**

```
curl -H "Content-Type:application/json" -d
'{"courseCode":"55555","courseName":"SEEEE","courseYr"
http://localhost:3000/courses.json
```

**PUT in Rails:** eg1(with all fields) :

```
curl -H "X-Http-Method-Override: put" -H "Content-Type
'{"courseCode":"123456","courseName":"AAAAAAA","cours
http://localhost:3000/courses/5.json
```

eg2(with the field only be edited) :

```
curl -H "X-Http-Method-Override: put" -H "Content-Type
'{"courseYr":999999999}' http://localhost:3000/courses
```

**DELETE in rails with id provided**

```
curl -H "X-Http-Method-Override: delete" -H "Content-
d '{"id":4}' http://localhost:3000/courses/5.json
```

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answered Nov 11, 2012 at 16:56

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code4j

4,606 ● 6 ● 37 ● 53



4

I don't have tested it yet but this Java app seems to be nice to test REST services. There is also a tutorial on Javalobby about it.



Java App: <http://code.google.com/p/rest-client/>



Tuto: <http://java.dzone.com/announcements/wiztoolsorg-restclient-21-rele>



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answered Jan 19, 2009 at 13:31

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**Valentin Jacquemin**

2,245 ● 1 ● 19 ● 33



you can use the Simple REST Client is an extension for Google Chrome too

**3**

<https://chrome.google.com/webstore/detail/fhjcajmcbmldlhcmfajhfbgofnpcjmb>



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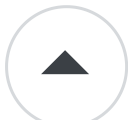
answered Dec 20, 2010 at 16:02

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**Chuck Mah**

638 ● 6 ● 9



SOA Cleaner, is a test tool that tests both soap and rest (also WCF, but it seems you don't need that feature). It's very intuitive, and usable. Written in .NET. A free version is also available. can be downloaded from

**2**

<http://xyrow.com>. Good luck!



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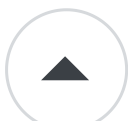
answered Sep 16, 2009 at 8:02

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**Clangon**

1,408 ● 2 ● 18 ● 24



I'm testing RESTful services with an in house .NET framework (no problem porting it in Java). Basic principles:



1



- build client (to make the calls)
- build type classes (XML and JSON)
- deserialize response
- assert stuff

If you want more info, I'm glad to talk.

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edited May 29, 2012 at 14:25



Martijn Pieters

1.1m ● 319 ● 4.2k ● 3.4k

answered May 29, 2012 at 14:20



Andrei Marfievici

11 ● 1



1



I'm using [REST console extension](#) for Google Chrome and It's by far the best i've tried. It also supports various security mechanisms like OAuth

(update 2: fix link)



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edited Jul 9, 2012 at 14:35



answered Jun 17, 2011 at 8:45



Michael Bavin

3,994 ● 6 ● 32 ● 35



1



For java, there also exists [RESTFuse](#), which allows to develop unit tests which may look like this:

```
@Rule
public Destination destination = new
Destination("http://localhost:8080/rest/");

@Test( method = Method.GET, path = "/status" ,auth
    @Authentication(type = AuthenticationType.BASIC, us
        "doe")
    )
public void testAuthRhqadmin() {
    com.eclipsesource.restfuse.Assert.assertOk(respons
}
```

This test runs against

`http://localhost:8080/rest/status` and authenticates as user joe with password doe. The body of the method then checks that the GET call returns a 200 status code.

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answered Sep 6, 2012 at 10:46

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**Heiko Rupp**

30.9k ● 13 ● 85 ● 120



0



Try Python's `httplib`. It's very easy, you specify the method, url, and use `urllib.urlencode` for the parameters/POST body.

This can be combined with the builtin `unittest` module if you like, for reporting of errors.



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answered Oct 15, 2008 at 3:11



Andy



0



I've been using JMeter for this, especially for stuff like load testing. It's similar to SoapUI (which I've also used), but geared more toward testing web pages, which makes it pretty decent at testing RESTful services, too.

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answered Oct 15, 2008 at 19:53



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[Mike Desjardins](#)

460 ● 4 ● 10



0



I've written a program specifically for testing REST Web Services. Its a pretty simple application written in .NET 2.0 (I've only tested it on Windows Vista, but should work on XP also). The application uses HttpWebRequest to make requests, and displays the resulting response, as well as the headers for the request and response. I've done a bit of testing, but I thought it might help you test your web services.



[REST Test](#)

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answered Dec 24, 2008 at 3:40

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Ian Hopkins



0



I'm currently investigating wsclient CLI app for this purpose (<http://wso2.org/library/3362>). It is quite promising, and can be used to hack a quick test from a bash shell. Of course, as many mentioned here, many of the tools that come with a \*nix system will do the job with a tidbit of coding/scripting

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answered Dec 8, 2009 at 2:23



verboze

419 ● 1 ● 7 ● 10



0



If you like using Ruby there's a [REST-Client gem](#) for it

For testers I find ruby is a really easy language to learn, and it has some excellent tools like Cucumber for doing BDD style acceptance tests.

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answered Jan 11, 2012 at 0:41



Chuck van der Linden

6,660 ● 2 ● 29 ● 43



0



I've tried numerous REST clients and by far the best I've used is the Chrome app: [DHC](#).

DHC (aka Dev HTTP Client) is designed and developed by a developer for developers to make direct HTTP resource discovery, manipulation and testing more easily. Beside the main function, sending/receiving custom HTTP

requests/responses, it allows permanently to save a request to a local repository for later reuse and moreover the request declaration can include variables that are context specific. With the use of contexts you can easily switch between various environments without modifying request declaration. (e.g. from a test environment to production)

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answered Aug 26, 2014 at 16:19

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Andaris

635 ● 6 ● 15

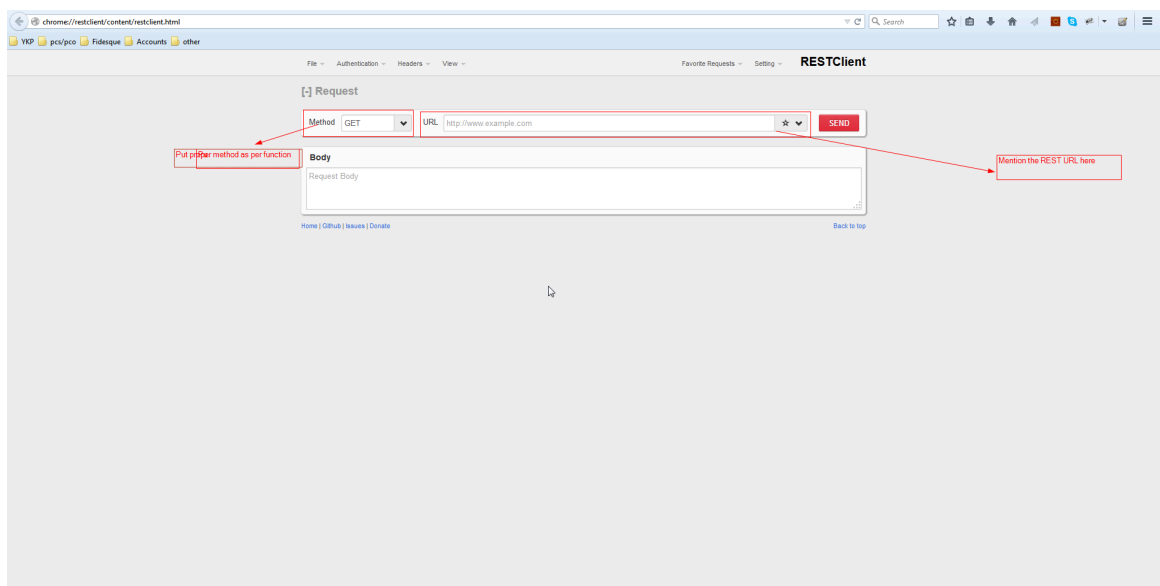


0



Testing REST full web services is a easy task to do. Free ad-ons are available on the browsers as REST Client from where you have to send a web service with expected/required method type:

GET/POST/PUT/DELETE If the parameters are matched then output will get generated in the body of browser.



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edited Feb 18, 2015 at 9:25

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answered Sep 16, 2014 at 11:34



**mohit sarsar**

189 ● 3 ● 8

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Even when I know how to test REST web services & have used plugins like Postman & RestClient, I didn't find it easy to understand what you're trying to say. I'm sure someone who asks the question will not understand it properly. I would request you to work on writing more clearly. – [Saurabh Patil](#) Feb 8, 2015 at 6:05 ✎

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I hope the attachment will help you...! – [mohit sarsar](#) Feb 18, 2015 at 9:25

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0

I know it is very old question, but could be helpful to others. Just to answer your first question you can check [here](#) to get some REST webservices to test.



Fiddler and Poster plug in Firefox can be use to test any REST web services. SoapUI also comes with RESTful webservices support.



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answered Mar 1, 2015 at 7:45



**Manoj**

822 ● 8 ● 7



0

For advanced REST testing you can try [HttpMaster](#). It supports dynamic parameters, friendly viewers for XML/JSON, and various types of response data



validations that can be combined into logical expressions.  
For basic http requests some browser plugin will be sufficient.



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answered Apr 1, 2015 at 19:34

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Joxi

586 ● 1 ● 5 ● 11



[OnionTest](#) still beta , but quite useful

-1

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answered Aug 16, 2011 at 6:16

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koos

1



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