# JAX-WS Hello World Example – RPC Style

By mkyong (http://www.mkyong.com/author/mkyong/) | November 16, 2010 | Updated : August 29, 2012 | Viewed : 927,737 times +2,318 pv/w

JAX-WS is bundled with JDK 1.6, which makes Java web service development easier to develop. This tutorial shows you how to do the following tasks:

1. Create a SOAP-based RPC style web service endpoint by using JAX-WS.
2. Create a Java web service client manually.
3. Create a Java web service client via **wsimport** tool.
4. Create a Ruby web service client.

You will be surprise of how simple it is to develop a RPC style web service in JAX-WS.

**Note**
In general words, "*web service endpoint*" is a service which published outside for user to access; where "*web service client*" is the party who access the published service.

## JAX-WS Web Service End Point

The following steps showing how to use JAX-WS to create a RPC style web service endpoint.

## 1. Create a Web Service Endpoint Interface

*File : HelloWorld.java*

```
package com.mkyong.ws;

import javax.jws.WebMethod;
import javax.jws.WebService;
import javax.jws.soap.SOAPBinding;
import javax.jws.soap.SOAPBinding.Style;

//Service Endpoint Interface
@WebService
@SOAPBinding(style = Style.RPC)
public interface HelloWorld{

    @WebMethod String getHelloWorldAsString(String name);

}
```

## 2. Create a Web Service Endpoint Implementation

*File : HelloWorldImpl.java*

```
package com.mkyong.ws;

import javax.jws.WebService;

//Service Implementation
@WebService(endpointInterface = "com.mkyong.ws.HelloWorld")
public class HelloWorldImpl implements HelloWorld{

    @Override
    public String getHelloWorldAsString(String name) {
        return "Hello World JAX-WS " + name;
    }

}
```

## 3. Create a Endpoint Publisher

*File : HelloWorldPublisher.java*

```
package com.mkyong.endpoint;

import javax.xml.ws.Endpoint;
import com.mkyong.ws.HelloWorldImpl;

//Endpoint publisher
public class HelloWorldPublisher{

    public static void main(String[] args) {
       Endpoint.publish("http://localhost:9999/ws/hello", new HelloWorldImpl());
    }

}
```

Run the endpoint publisher, and your “**hello world web service**” is deployed in URL “**http://localhost:9999/ws/hello**“.

## 4. Test It

You can test the deployed web service by accessing the generated WSDL (Web Service Definition Language) document via this URL “**http://localhost:9999/ws/hello?wsdl**” .

## Web Service Clients

Ok, web service is deployed properly, now let’s see how to create web service client to access to the published service.

## 1. Java Web Service Client

Without tool, you can create a Java web service client like this :

```
package com.mkyong.client;

import java.net.URL;
import javax.xml.namespace.QName;
import javax.xml.ws.Service;
import com.mkyong.ws.HelloWorld;

public class HelloWorldClient{

    public static void main(String[] args) throws Exception {

    URL url = new URL("http://localhost:9999/ws/hello?wsdl");

        //1st argument service URI, refer to wsdl document above
    //2nd argument is service name, refer to wsdl document above
        QName qname = new QName("http://ws.mkyong.com/", "HelloWorldImplService");

        Service service = Service.create(url, qname);

        HelloWorld hello = service.getPort(HelloWorld.class);

        System.out.println(hello.getHelloWorldAsString("mkyong"));

    }

}
```

*Output*

```
Hello World JAX-WS mkyong
```

## 2. Java Web Service Client via wsimport tool

Alternative, you can use “**wsimport**” tool to parse the published wsdl file, and generate necessary client files (stub) to access the published web service.

**Where is wsimport?**
This **wsimport** tool is bundle with the JDK, you can find it at “*JDK_PATH/bin*” folder.

Issue “**wsimport**” command.

```
wsimport -keep http://localhost:9999/ws/hello?wsdl
```

It will generate necessary client files, which is depends on the provided wsdl file. In this case, it will generate one interface and one service implementation file.

*File : HelloWorld.java*

```
package com.mkyong.ws;

import javax.jws.WebMethod;
import javax.jws.WebParam;
import javax.jws.WebResult;
import javax.jws.WebService;
import javax.jws.soap.SOAPBinding;

/**
 * This class was generated by the JAX-WS RI.
 * JAX-WS RI 2.1.1 in JDK 6
 * Generated source version: 2.1
 *
 */
@WebService(name = "HelloWorld", targetNamespace = "http://ws.mkyong.com/")
@SOAPBinding(style = SOAPBinding.Style.RPC)
public interface HelloWorld {

    /**
     *
     * @param arg0
     * @return
     *     returns java.lang.String
     */
    @WebMethod
    @WebResult(partName = "return")
    public String getHelloWorldAsString(
        @WebParam(name = "arg0", partName = "arg0")
        String arg0);

}
```

*File : HelloWorldImplService.java*

```
package com.mkyong.ws;

import java.net.MalformedURLException;
import java.net.URL;
import javax.xml.namespace.QName;
import javax.xml.ws.Service;
import javax.xml.ws.WebEndpoint;
import javax.xml.ws.WebServiceClient;
import javax.xml.ws.WebServiceFeature;

/**
 * This class was generated by the JAX-WS RI.
 * JAX-WS RI 2.1.1 in JDK 6
 * Generated source version: 2.1
 *
 */
@WebServiceClient(name = "HelloWorldImplService",
    targetNamespace = "http://ws.mkyong.com/",
    wsdlLocation = "http://localhost:9999/ws/hello?wsdl")
public class HelloWorldImplService
    extends Service
{

    private final static URL HELLOWORLDIMPLSERVICE_WSDL_LOCATION;

    static {
        URL url = null;
        try {
            url = new URL("http://localhost:9999/ws/hello?wsdl");
        } catch (MalformedURLException e) {
            e.printStackTrace();
        }
        HELLOWORLDIMPLSERVICE_WSDL_LOCATION = url;
    }

    public HelloWorldImplService(URL wsdlLocation, QName serviceName) {
        super(wsdlLocation, serviceName);
    }

    public HelloWorldImplService() {
        super(HELLOWORLDIMPLSERVICE_WSDL_LOCATION,
            new QName("http://ws.mkyong.com/", "HelloWorldImplService"));
    }

    /**
     *
     * @return
     *     returns HelloWorld
     */
    @WebEndpoint(name = "HelloWorldImplPort")
    public HelloWorld getHelloWorldImplPort() {
        return (HelloWorld)super.getPort(
            new QName("http://ws.mkyong.com/", "HelloWorldImplPort"),
            HelloWorld.class);
    }

    /**
     *
     * @param features
     *  A list of {@link javax.xml.ws.WebServiceFeature} to configure on the proxy.
     *  Supported features not in the <code>features</code> parameter will have their default values.
     * @return
     *  returns HelloWorld
     */
    @WebEndpoint(name = "HelloWorldImplPort")
    public HelloWorld getHelloWorldImplPort(WebServiceFeature... features) {
        return (HelloWorld)super.getPort(
            new QName("http://ws.mkyong.com/", "HelloWorldImplPort"),
            HelloWorld.class,
            features);
    }

}
```

Now, create a Java web service client which depends on the above generated files.

```
package com.mkyong.client;

import com.mkyong.ws.HelloWorld;
import com.mkyong.ws.HelloWorldImplService;

public class HelloWorldClient{

    public static void main(String[] args) {

        HelloWorldImplService helloService = new HelloWorldImplService();
        HelloWorld hello = helloService.getHelloWorldImplPort();

        System.out.println(hello.getHelloWorldAsString("mkyong"));

    }

}
```

Here’s the output

```
Hello World JAX-WS mkyong
```

## 3. Ruby Web Service Client

Often time, web service development is mixed use with other programming language. So, here’s a Ruby web service client example, which is used to access the published JAX-WS service.

```
# package for SOAP-based services
require 'soap/wsdlDriver'

wsdl_url = 'http://localhost:9999/ws/hello?wsdl'

service = SOAP::WSDLDriverFactory.new(wsdl_url).create_rpc_driver

# Invoke service operations.
data1 = service.getHelloWorldAsString('mkyong')

# Output results.
puts "getHelloWorldAsString : #{data1}"
```

Output

```
getHelloWorldAsString : Hello World JAX-WS mkyong
```

## Tracing SOAP Traffic

From top to bottom, showing how SOAP envelope flows between client and server. See #1 web service client again :

```
URL url = new URL("http://localhost:9999/ws/hello?wsdl");
QName qname = new QName("http://ws.mkyong.com/", "HelloWorldImplService");
Service service = Service.create(url, qname);

HelloWorld hello = service.getPort(HelloWorld.class);

System.out.println(hello.getHelloWorldAsString("mkyong"));
```

**Note**
To monitor SOAP traffic is very easy, see this guide – “How to trace SOAP message in Eclipse IDE (http://www.mkyong.com/webservices/jax-ws/how-to-trace-soap-message-in-eclipse-ide/)“.

## 1. Request a WSDL file

First, client send a wsdl request to service endpoint, see HTTP traffic below :

**Client send request :**

```
GET /ws/hello?wsdl HTTP/1.1
User-Agent: Java/1.6.0_13
Host: localhost:9999
Accept: text/html, image/gif, image/jpeg, *; q=.2, */*; q=.2
Connection: keep-alive
```

**Server send response :**

```
HTTP/1.1 200 OK
Transfer-encoding: chunked
Content-type: text/xml;charset=utf-8

<?xml version="1.0" encoding="UTF-8"?>

<definitions
    xmlns:soap="http://schemas.xmlsoap.org/wsdl/soap/"
    xmlns:tns="http://ws.mkyong.com/"
    xmlns:xsd="http://www.w3.org/2001/XMLSchema"
    xmlns="http://schemas.xmlsoap.org/wsdl/"
    targetNamespace="http://ws.mkyong.com/"
    name="HelloWorldImplService">

    <types></types>

<message name="getHelloWorldAsString">
    <part name="arg0" type="xsd:string"></part>
</message>
<message name="getHelloWorldAsStringResponse">
    <part name="return" type="xsd:string"></part>
</message>

<portType name="HelloWorld">
    <operation name="getHelloWorldAsString" parameterOrder="arg0">
        <input message="tns:getHelloWorldAsString"></input>
        <output message="tns:getHelloWorldAsStringResponse"></output>
    </operation>
</portType>

<binding name="HelloWorldImplPortBinding" type="tns:HelloWorld">

    <soap:binding transport="http://schemas.xmlsoap.org/soap/http" style="rpc"></soap:binding>
    <operation name="getHelloWorldAsString">
        <soap:operation soapAction=""></soap:operation>
        <input>
            <soap:body use="literal" namespace="http://ws.mkyong.com/"></soap:body>
        </input>
        <output>
            <soap:body use="literal" namespace="http://ws.mkyong.com/"></soap:body>
        </output>
    </operation>

</binding>

<service name="HelloWorldImplService">
<port name="HelloWorldImplPort" binding="tns:HelloWorldImplPortBinding">
<soap:address location="http://localhost:9999/ws/hello"></soap:address>
</port>
</service>
</definitions>
```

## 2. hello.getHelloWorldAsString()

A second call, client put method invoke request in SOAP envelope and send it to service endpoint. At the service endpoint, call the requested method and put the result in a SOAP envelope and send it back to client.

**Client send request :**

```
POST /ws/hello HTTP/1.1
SOAPAction: ""
Accept: text/xml, multipart/related, text/html, image/gif, image/jpeg, *; q=.2, */*; q=.2
Content-Type: text/xml; charset=utf-8
User-Agent: Java/1.6.0_13
Host: localhost:9999
Connection: keep-alive
Content-Length: 224

<?xml version="1.0" ?>
    <S:Envelope xmlns:S="http://schemas.xmlsoap.org/soap/envelope/">
        <S:Body>
            <ns2:getHelloWorldAsString xmlns:ns2="http://ws.mkyong.com/">
                <arg0>mkyong</arg0>
            </ns2:getHelloWorldAsString>
        </S:Body>
    </S:Envelope>
```

**Server send response :**

```
HTTP/1.1 200 OK
Transfer-encoding: chunked
Content-type: text/xml; charset=utf-8

<?xml version="1.0" ?>
    <S:Envelope xmlns:S="http://schemas.xmlsoap.org/soap/envelope/">
        <S:Body>
            <ns2:getHelloWorldAsStringResponse xmlns:ns2="http://ws.mkyong.com/">
                <return>Hello World JAX-WS mkyong</return>
            </ns2:getHelloWorldAsStringResponse>
        </S:Body>
    </S:Envelope>
```

Done, any comments are appreciated.

## Download Source Code

Download It – JAX-WS-HelloWorld-RPC-Example.zip (http://www.mkyong.com/wp-content/uploads/2010/11/JAX-WS-HelloWorld-RPC-Example.zip) (14KB)

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## About the Author

### mkyong

Founder of Mkyong.com (http://mkyong.com), love Java and open source stuff. Follow him on Twitter (https://twitter.com/mkyong), or befriend him on Facebook (http://www.facebook.com/java.tutorial) or Google Plus (https://plus.google.com/110948163568945735692?rel=author). If you like my tutorials, consider make a donation to these charities (http://www.mkyong.com/blog/donate-to-charity/).

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Andrey

Guest

After reading carefully your articles on SOAP services I still did not get it –
what is the difference Document and RPC style web services.?

Except of course for the annotation attribute @SOAPBinding(style = Style.DOCUMENT/RPC) which judging by your code does not produce any differences. Or at least you did not mention it at all.

I read somewhere that RPC and Document wsdl are different in structure – and I noticed that
tag in wsdl has in it in case of Document style
Is that the only difference – that Document style wsdl is (can?) be validated?

Thanks

👍 1 👎 ↩ REPLY

5 months 23 days ago

bhz

Guest

Thanks dear you saved my life.

👍 0 👎 ↩ REPLY

2 months 17 days ago

Jorge de Lemos

Guest

Dear Yong,

at point 1. Java WS Client I get the next error on " Service service = Service.create(url, qname);"

```
***
main, WRITE: TLSv1 Handshake, length = 173
main, READ: TLSv1 Alert, length = 2
main, RECV TLSv1 ALERT: fatal, handshake_failure
main, called closeSocket()
main, handling exception: javax.net.ssl.SSLHandshakeException: Received fatal alert: handshake_failure
```

This is because of wsdl definition is at a https:// location and TLSv1.2 is forced but JVM use only TLSv1. Is there any solution to this?

Thanks in advance.

👍 0 👎 ↩ REPLY 🕒 3 months 10 days ago

Bobojonov Farruh

Guest

https://stackoverflow.com/questions/19533904/is-not-a-valid-service-exception-in-jax-ws/45907977#45907977 (https://stackoverflow.com/questions/19533904/is-not-a-valid-service-exception-in-jax-ws/45907977#45907977)

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Rama Tripathi

Guest

this is so bad ..its making issues in my eclipse ..not properly explained..when wsdl got generated and where

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Guest

why my request is http 1.0 ? how can make the request to http 1.1

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Houssamel-din

Guest

Great article

👍 0 👎 ↩ REPLY 🕒 1 year 1 month ago

Andrew Scales

Guest

I really like these tutorials – you manage to show the simplest possible examples that work. It has given me a nice start in the web services world.

👍 0 👎 ↩ REPLY 🕒 1 year 2 months ago

tp

Guest

Hi,
I tried to add more API to the WebService besides:
@WebMethod String getHelloWorldAsString(String name);

so now my interface is (The impl is implementing the getFoo method):
@WebMethod String getHelloWorldAsString(String name);
@WebMethod String getFoo(Integer i);

And then I republishing the wsdl – Endpoint.publish("http://localhost:9999/ws/hello", new HelloWorldImpl());
And getting the following exception:

ServerMgr.createContext(String) line: not available
HttpEndpoint.publish(String) line: not available
EndpointImpl.publish(String) line: not available
ProviderImpl.createAndPublishEndpoint(String, Object) line: not available
Endpoint.publish(String, Object) line: not available
HelloWorldPublisher.main(String[]) line: 10

What should be changed so there would be no exception? I tried PortDifferent names. non worked.

Thanks in advance.

👍 0 👎 ↩ REPLY 🕒 1 year 5 months ago

mike

Guest

I find that the information you provide is consistently accurate and helpful. Thank you for being the beacon of light.

👍 0 👎 ↩ REPLY 1 year 8 months ago

anandi_shi

Guest

how to compose jax-ws web service? Is it in the same way as other web services?

👍 0 👎 ↩ REPLY 2 years 28 days ago

TPR

Guest

Wow. exactly what I was looking for. Works like a sharm :)

👍 0 👎 ↩ REPLY 2 years 5 months ago

Rudra Ramesh

Guest

@mkyong web links are not working , please update

👍 0 👎 ↩ REPLY 2 years 7 months ago

Ricardo Oliveira

Guest

I'd like to receive a xlm file from a list of my object on my browser . But I couldn't understand how can I invoke a operation (method) just typing a url in my browser. my implementation of my interface: @GET @Produces("text/xml") @WebMethod(operationName="lista") public String listarVagas() { String streamXML = ""; List vagas = new ArrayList(); StringBuffer out = new StringBuffer(); vagas = myejb.buscarVagasAtivas(); XStream stream = new XStream(new StaxDriver()); streamXML = stream.toXML(vagas); out.append(streamXML); return out.toString(); } when I type : "http://localhost:8080/estagios/Vagas?xsd=1" I expected to receive a xml file but I just get a blank page

👍 0 👎 ↩ REPLY 2 years 7 months ago

subbu

Guest

hello… I'm trying to use this example in eclipse. but i'm not able to do it. pls help me..

👍 0 👎 ↩ REPLY 2 years 8 months ago

nisi

Guest

Hi MKyong, I have WSDL file in my local machine and wanted to generate the request file either in string or in seperate file, So I can later use it for different tags in webservice. I searched for java code to get it done, please help me on this.

Thanks in advance

👍 0 👎 ↩ REPLY 2 years 11 months ago

Kaveen Kumarasinghe

Guest

Hello Mkyong,

How can I write a python client in same way? Any idea or suggestions?

👍 0 👎 ↩ REPLY 2 years 11 months ago

Rajesh kumar Swain

Guest

hi
How can i get client files (stub) without using "wsimport" tool. Means how can i get client files (stub) using simple java code?

👍 0 👎 ↩ REPLY 2 years 11 months ago

Andrey Stepanov

Guest

Dear Yong, thank you for your fantastic site. Your efforts are so much appreciated. Regarding this article. Unfortunately it is beyond my understanding now: 1. where wsdl accessible at http://localhost:9999/ws/hello?wsdl is located. It is not on the drive but how then the clients on any other machine manage to see it? 2. is it correct that I may indicate ANY URI when making use of endpoint publisher? Endpoint.publish(“http://localhost:9999/ws/hello”, … Can I write it like say Endpoint.publish(“http://172.56.3.4:9999/ws/hello”, …) ? If so should I upload smth to the server with that ip? And suppose I have some server address from outside the… Read more »

👍 0 👎 ↩ REPLY

🕘 3 years 1 month ago

JavaX

Guest

Hi MKYoung,
it is really good tutorial about JAX-WS for the first steps. Thank you very much.

👍 0 👎 ↩ REPLY

🕘 3 years 1 month ago

Bharath

Guest

Mr MKyong are you there ? Are you resolve my problem or not let me know? no body was there to resolve the below issue?

👍 0 👎 ↩ REPLY

🕘 3 years 1 month ago

Bharath

Guest

I have tried your Helloworld example with JAX-WS. I am getting below exception while run the client program. could you please correct me any configurations are missing Exception in thread “main” javax.xml.ws.WebServiceException: WSDL http://localhost:9080/HelloworldWS/hello/HelloWorld.wsdl contains no service definition. at com.sun.xml.internal.ws.wsdl.parser.RuntimeWSDLParser.parse(RuntimeWSDLParser.java:153) at com.sun.xml.internal.ws.client.WSServiceDelegate.parseWSDL(WSServiceDelegate.java:267) at com.sun.xml.internal.ws.client.WSServiceDelegate.(WSServiceDelegate.java:230) at com.sun.xml.internal.ws.client.WSServiceDelegate.(WSServiceDelegate.java:178) at com.sun.xml.internal.ws.spi.ProviderImpl.createServiceDelegate(ProviderImpl.java:93) at javax.xml.ws.Service.(Service.java:57) at javax.xml.ws.Service.create(Service.java:687) at com.mkyong.ws.client.HelloWorldClient.main(HelloWorldClient.java:19) I am mentiontioning my code here: Helloworld interface: /** * */ package com.mkyong.ws; import javax.jws.WebMethod; import javax.jws.WebService; import javax.jws.soap.SOAPBinding; import javax.jws.soap.SOAPBinding.Style; //Service Endpoint Interface @WebService @SOAPBinding(style = Style.RPC) public interface HelloWorld { @WebMethod String getHelloWorldAsString(String name); } implementation: package com.mkyong.ws; import javax.jws.WebService; //Service Implementation @WebService(endpointInterface =… Read more »

👍 0 👎 ↩ REPLY

🕘 3 years 1 month ago ⌃

HAR

Guest

specify the url of wsdl as part of the proxy create process : Service.create(url, qName);

👍 0 👎 ↩ REPLY

🕘 2 years 10 months ago

Bharath

Guest

Hi Mkyong I have tried your Helloworld example with JAX-WS. I am getting below exception while run the client program. could you please correct me any configurations are missing Exception in thread “main” javax.xml.ws.WebServiceException: WSDL http://localhost:9080/HelloworldWS/hello/HelloWorld.wsdl contains no service definition. at com.sun.xml.internal.ws.wsdl.parser.RuntimeWSDLParser.parse(RuntimeWSDLParser.java:153) at com.sun.xml.internal.ws.client.WSServiceDelegate.parseWSDL(WSServiceDelegate.java:267) at com.sun.xml.internal.ws.client.WSServiceDelegate.(WSServiceDelegate.java:230) at com.sun.xml.internal.ws.client.WSServiceDelegate.(WSServiceDelegate.java:178) at com.sun.xml.internal.ws.spi.ProviderImpl.createServiceDelegate(ProviderImpl.java:93) at javax.xml.ws.Service.(Service.java:57) at javax.xml.ws.Service.create(Service.java:687) at com.mkyong.ws.client.HelloWorldClient.main(HelloWorldClient.java:19) I am mentiontioning my code here: Helloworld interface: /** * */ package com.mkyong.ws; import javax.jws.WebMethod; import javax.jws.WebService; import javax.jws.soap.SOAPBinding; import javax.jws.soap.SOAPBinding.Style; //Service Endpoint Interface @WebService @SOAPBinding(style = Style.RPC) public interface HelloWorld { @WebMethod String getHelloWorldAsString(String name); } implementation: package com.mkyong.ws; import javax.jws.WebService; //Service Implementation… Read more »

👍 0 👎 ↩ REPLY

🕘 3 years 1 month ago

Ogirala ashok Reddy

Guest

what are changes i need to do to client program to make soap header element appear in client send request.please help me

👍 0 👎 REPLY 3 years 2 months ago

s

Guest

I am getting error: cannot get a wsdl maximum number of redirects(5) reached.

👍 0 👎 REPLY 3 years 2 months ago

s

Guest

I am getting error: cannot get a wsdl maximum number of redirects(5) reached

👍 0 👎 REPLY 3 years 2 months ago

Mgtrece Gonzales

Guest

I did not understand anything, I feel bad

👍 0 👎 REPLY 3 years 3 months ago

Ragul

Guest

I am able to see the WSDL request/response in the TCP/IP monitor..But, i am not able to see the second request/response.. can anyone pl help me ?

👍 0 👎 REPLY 3 years 6 months ago

o3dwade@yahoo.com

Guest

This is the coolest thing I've read all summer long in my internship. Thanks mkyong!

👍 0 👎 REPLY 3 years 6 months ago

Jelle-Frodo Huisman

Guest

I am spending some time getting up to speed with some technologies including Java and Heroku. I found your tutorial on JAX-WS very helpful. I made some small changes in order to run on Jetty. My web service, based on your example ran quickly on my development machine. However, when I tried to push the code onto the Heroku platform it did not connect to their http service and crashed each time after waiting 60 seconds. I spend many hours researching the problem and trying things. I finally got it working by publishing the Endpoint to ip address 0.0.0.0 instead… Read more »

👍 0 👎 REPLY 3 years 6 months ago

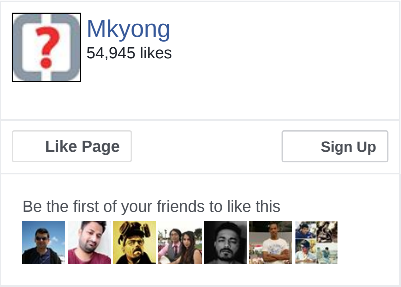
Michael C

Guest

I just spend a couple of hours as well, until I found this comment.

👍 0 👎 REPLY 2 years 2 months ago

Load More Comments (http://www.mkyong.com/webservices/jax-ws/jax-ws-hello-world-example/#!parentId=1045775)


Mkyong

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