

Step by step information on creating an API using a SOAP service and invoking it from API Console

Version: 2.0

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Revision History

| Version | Date | Desc | Author |
|---------|-----------------|--|---------------------|
| 1.0 | 12-August-2015 | Initial document explaining steps on how to invoke a SOAP service | Evanthika Amarasiri |
| 2.0 | 13-October-2015 | Added fine details on deploying the SOAP service in API Manager and invoking it with clear details on requests/responses | Evanthika Amarasiri |



Table of Contents

Deploying the SOAP service in API Manager

Creating the API

Subscribe to an Application

Generate keys

Invoke through API Console



1. Deploying the SOAP service in API Manager

Since we just need a valid endpoint to verify the API invoke functionality we can deploy the Axis2Service in API Manager itself. Refer below steps for instructions.

- Drop the <u>Axis2Service.aar</u> file to wso2am-1.9.1/repository/deployment/server/axis2services.
- Once successfully deployed, it would print the below message

[2015-10-13 10:32:09,338] INFO - DeploymentInterceptor Deploying Axis2 service:

Axis2Service {super-tenant}

[2015-10-13 10:32:09,392] INFO - DeploymentEngine Deploying Web service:

Axis2Service.aar -

file:/WSO2/TestCases/Virtusa-Tool/RC4/wso2am-1.9.1/repository/deployment/serv er/axis2services/Axis2Service.aar

 Now, assuming that your API Manager is running with port offset 0, access the ?wsdl of the service as below. If the service is successfully deployed, you should be able to successfully access the ?wsdl.

HTTPS - https://localhost:9443/services/Axis2Service?wsdl

HTTP - http://localhost:9763/services/Axis2Service?wsdl

2. Creating the API

Step 1

- O Login to the API Publisher
- O Click on **Add** and then select the radio button I have a **SOAP Endpoint**
- O Provide a valid WSDL URL (follow the steps explained under <u>Deploying the Axis2Service in API Manager</u> above to retrieve the ?wsdl URL) and click on the button **Start Creating** and you will be taken to the **Design API** page



Step 2

• Create an API with the following details

Design section

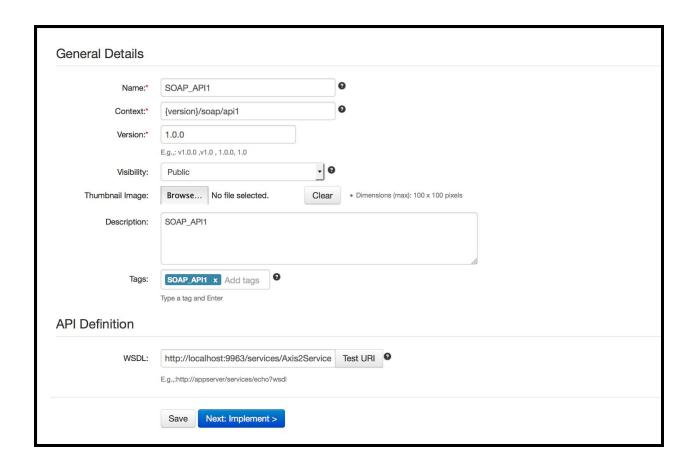
O Name: SOAP_API1

O Context: {version}/soap/api1

O Version: 1.0.0

O **WSDL**: The wsdl you specified in the previous step will load automatically in the **WSDL** field under *API Definition* section.

NOTE: Make sure to use the HTTP WSDL URL here.





Implement section

O **Endpoint Type**: HTTP Endpoint

O Production Endpoint: http://[hostname]:[port]/services/Axis2Service
(Assuming that you have deployed it in API Manager, the URL would be something like http://localhost:9763/services/Axis2Service)

Manage section

O Tier Availability: Unlimited

O Transports: Tick HTTP & HTTPS

O Leave the rest of the values as they are for the rest of the fields and click 'Save & Publish'

3. Subscribe to an Application

Go to API Store, login and subscribe the API that you created to an application (Can be either an application which you created or the Default application)

4. Generate keys

- O Go to My Subscriptions from the API Store
- O Select the application which you subscribed your API to
- O Click on **Generate Keys** button



5. Invoke through API Console

As shown in the screenshot below, provide the following values



To invoke the SOAP11 endpoint give the values as follows.

Specify the SOAPAction and Content-Type values

SOAPAction : echoStringContent-Type : text/xml

Specify the SOAP body as below



To invoke the SOAP12 endpoint give the values as follows.

• Specify the SOAPAction and Content-Type values

```
O SOAPAction: echoString
```

O Content-Type : application/soap+xml

Specify the SOAP body as below

Click on Trylt and a responses should be returned as below
 For SOAP11



For SOAP12

