

1 Deploy Tutorial Services

1.1 Description

This tutorial deploys sample SOAP and REST services for use by other tutorials.

1.2 Prerequisites

1.2.1 Environment

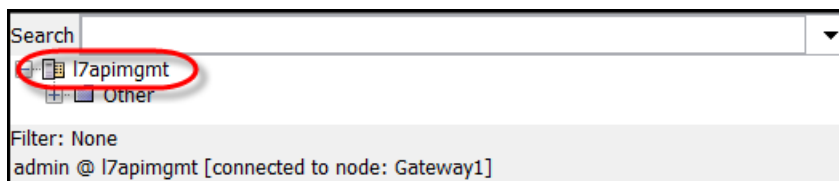
1. Layer 7 SecureSpan Gateway (*this tutorial was designed using a version 7.0 gateway; it may or may not work with earlier versions; it should work with later versions*)
2. Layer 7 Policy Manager (*this tutorial uses the Policy Manager software installation; the software installation version must match the gateway version; alternatively, users can use the Policy Manager browser-based version which always matches the gateway version that is connected to*)

1.2.2 Tutorials

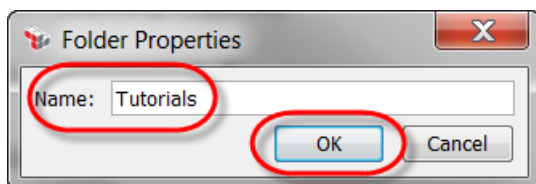
1. Layer 7 Tutorials - Getting Started

1.3 Tutorial Steps

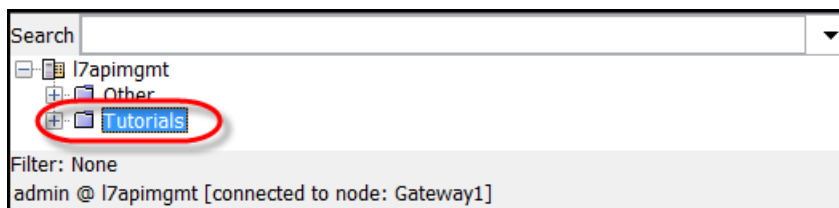
1. Connect to your gateway using Policy Manager (see tutorial **Layer 7 Tutorials - Getting Started**).
2. In the service and policy tree, right click on your gateway's host name (or IP address).



3. In the context menu, select the **Create New Folder** context menu item.
4. In the Folder Properties dialog, in the Name field, type **Tutorials** and click the **OK** button.

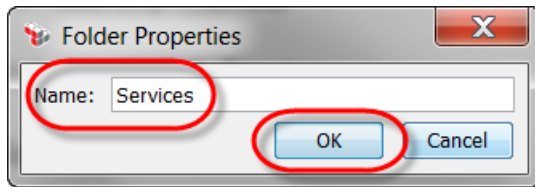


5. In the service and policy tree, right click on the new **Tutorials** folder.

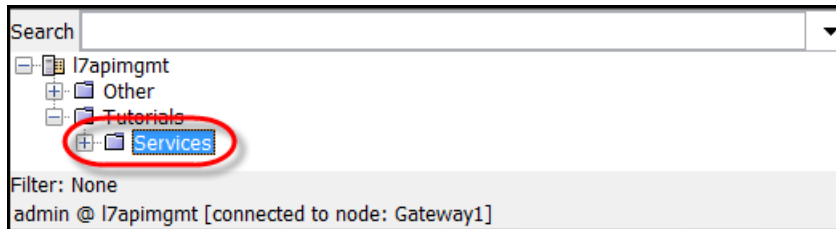


6. In the context menu, select the **Create New Folder** context menu item.

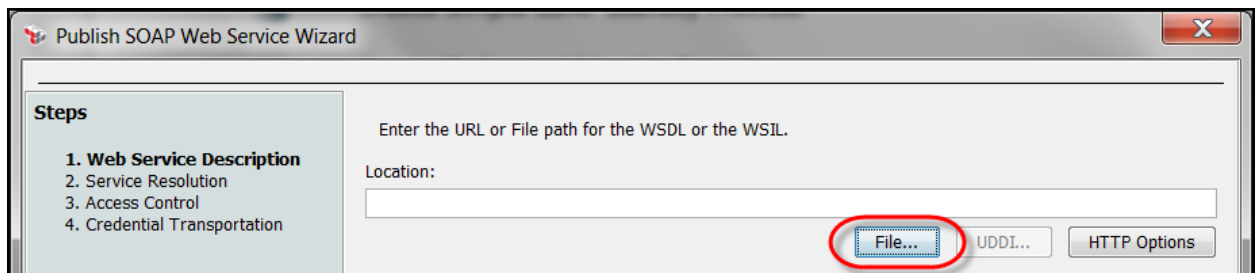
7. In the Folder Properties dialog, in the Name field, type **Services** and click the **OK** button.



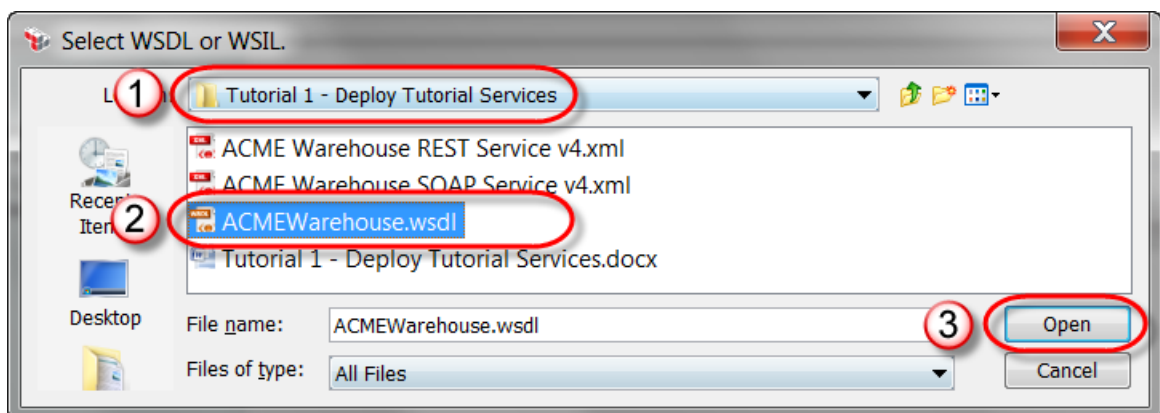
8. In the service and policy tree, right click on the new **Services** folder.



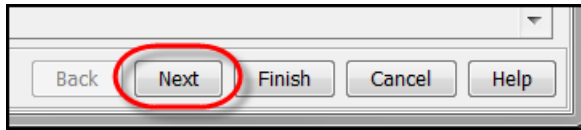
9. In the context menu, select the **Publish SOAP Web Service** context menu item.
10. In the Publish SOAP Web Service Wizard dialog, click the **File...** button.



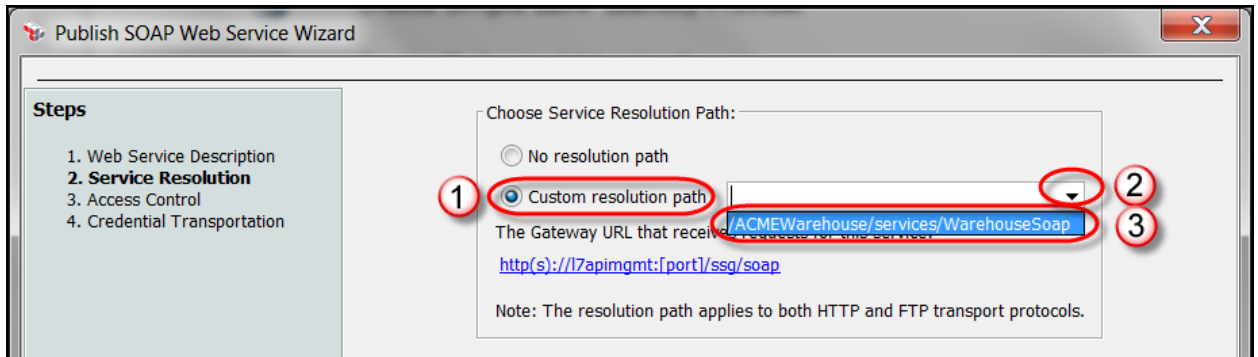
11. In the Select WSDL or WSIL dialog, navigate to the tutorials package folder and the **Tutorial 1 - Deploy Tutorial Services** subfolder, select the **ACMEWarehouse.wSDL** file, and click the **Open** button.



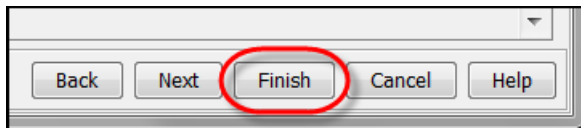
12. In the Publish SOAP Web Service Wizard dialog, click the **Next** button.



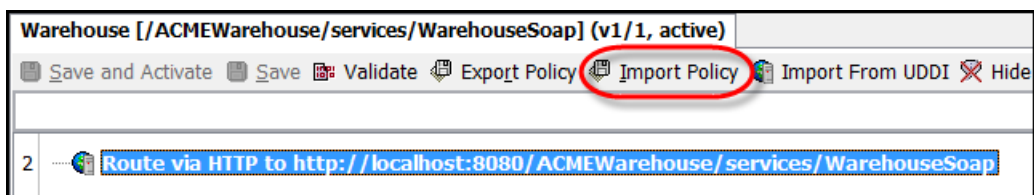
13. In the Publish SOAP Web Service Wizard dialog, select the **Custom resolution path** option, click the drop down arrow, and select the **/ACMEWarehouse/services/WarehouseSoap** value.



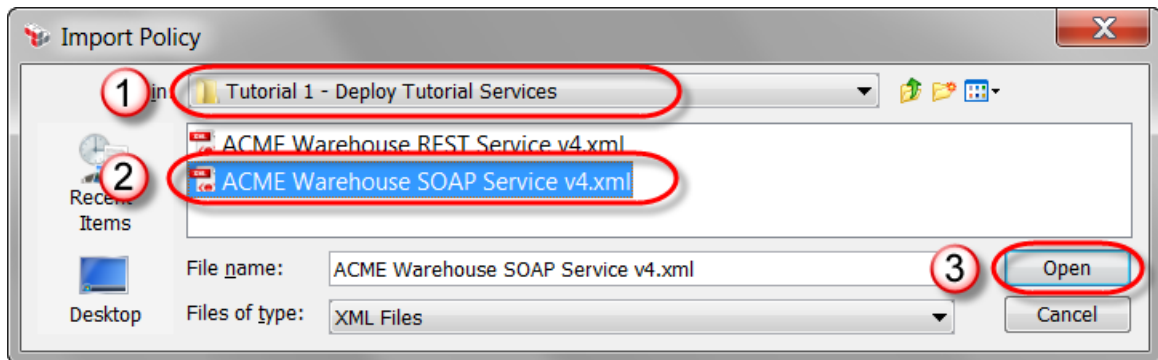
14. In the Publish SOAP Web Service Wizard dialog, click the **Finish** button.



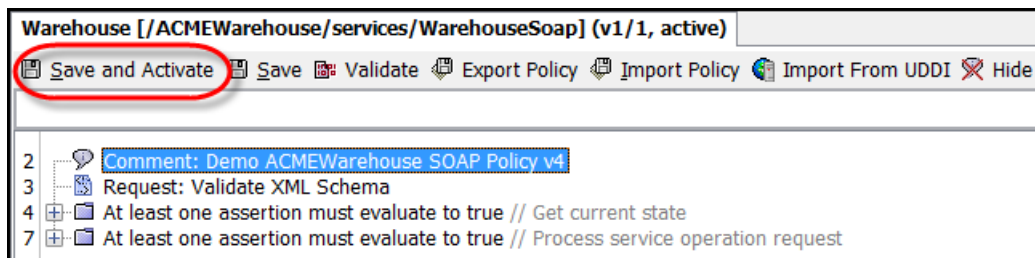
15. In the policy editor toolbar, click the **Import Policy** button.



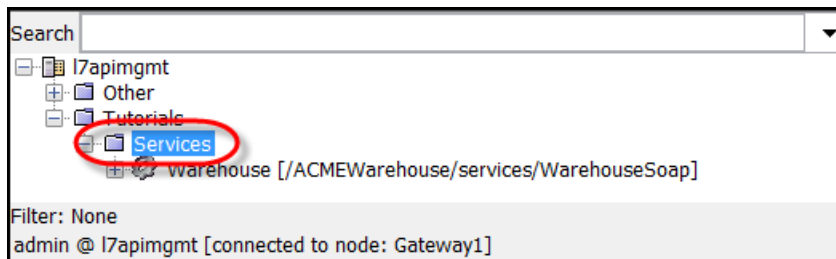
16. In the Import Policy dialog, navigate to the tutorials package folder and the **Tutorial 1 - Deploy Tutorial Services** subfolder, select the **ACME Warehouse SOAP Service v4.xml** file, and click the **Open** button



17. On the policy editor toolbar, click the **Save and Activate** button.

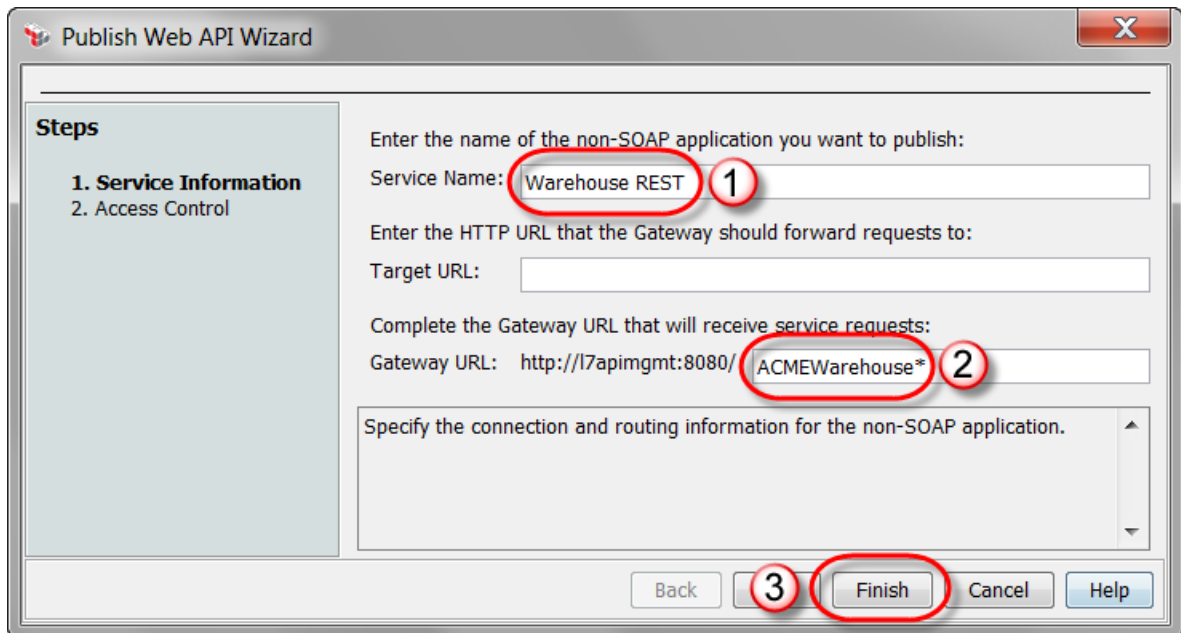


18. In the service and policy tree, right click on the new **Services** folder.

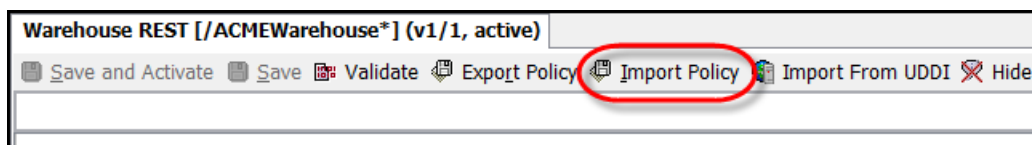


19. In the context menu, select the **Publish Web API** context menu item.

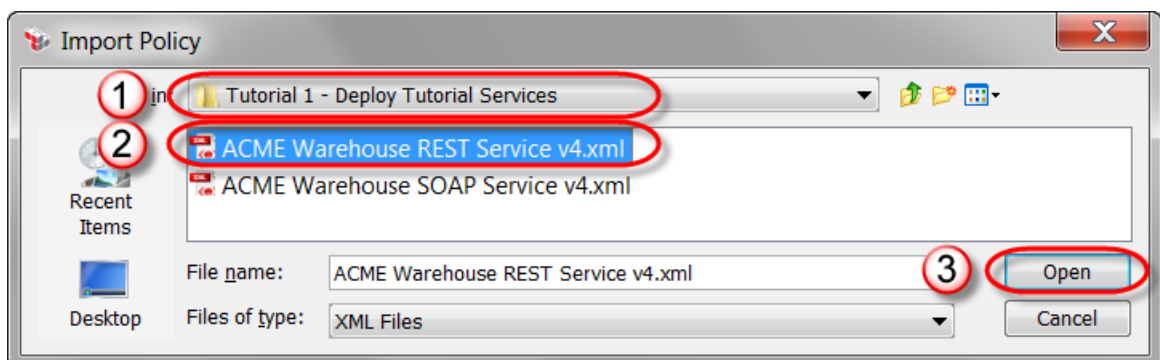
20. In the Publish Web API Wizard dialog, in the Service Name field type **Warehouse REST**, in the Gateway URL field type **ACMEWarehouse***, and click the **Finish** button.



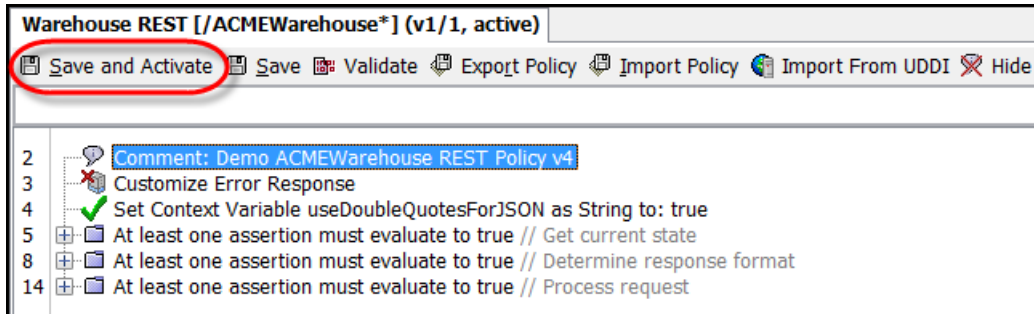
21. In the policy editor toolbar, click the **Import Policy** button.



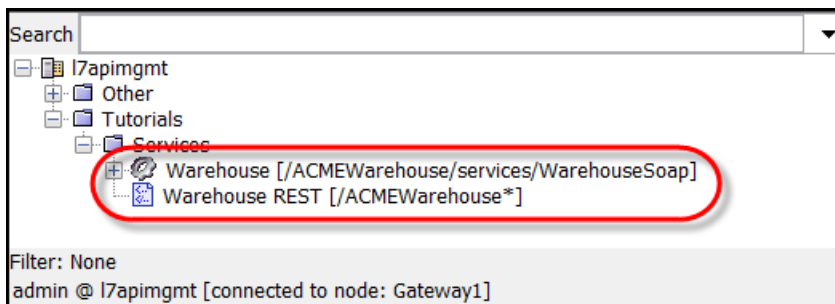
22. In the Import Policy dialog, navigate to the tutorials package folder and the **Tutorial 1 - Deploy Tutorial Services** subfolder, select the **ACME Warehouse REST Service v4.xml** file, and click the **Open** button



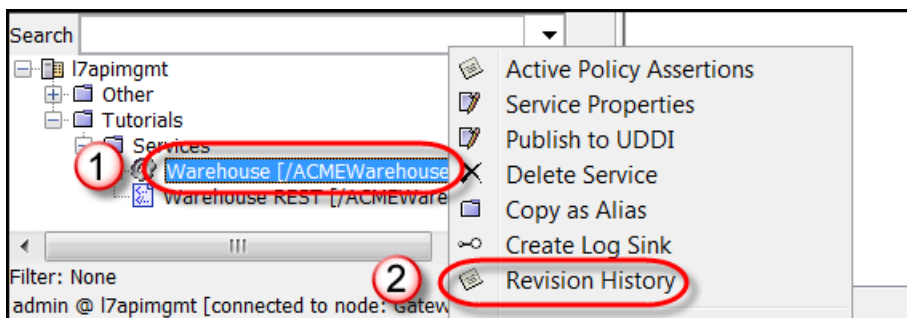
23. In the policy editor toolbar, click the **Save and Activate** button.



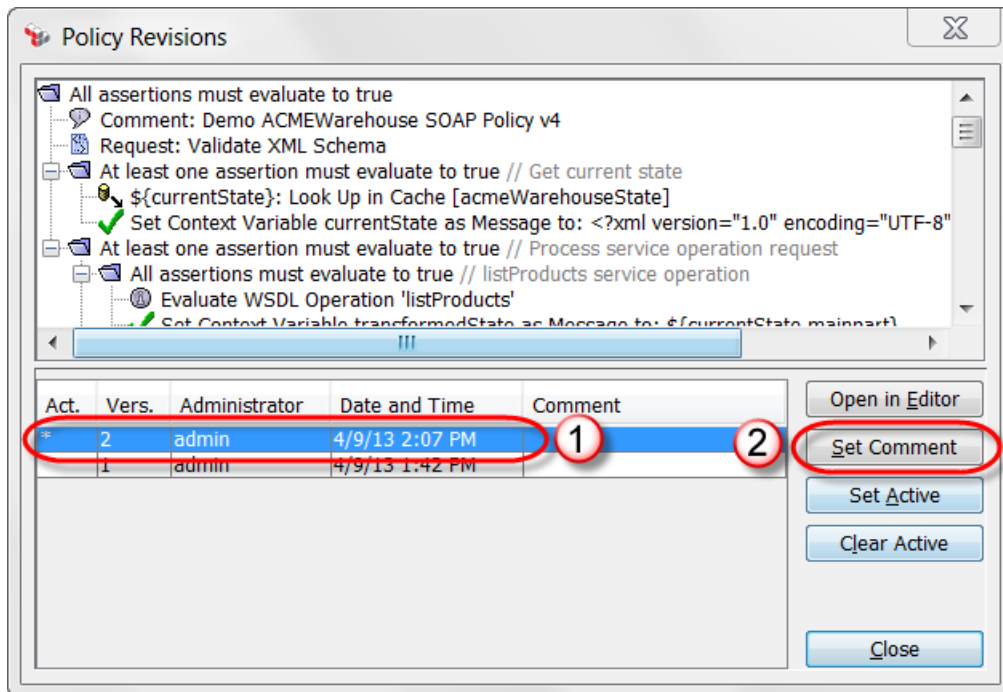
24. In the service and policy tree, you should now have two services. You may now want to review the additional context for this tutorial below, and then you should go on to complete the next two tutorials that test these services.



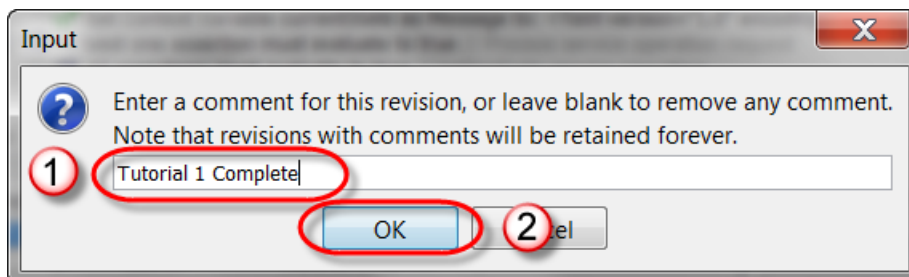
25. Per **Layer 7 Tutorials - Getting Started/Basic Policy Concepts/Policy Authoring/Policy Revisions**, in the service and policy tree, right click on the **Warehouse** service, and in the context menu, select the **Revision History** item.



26. In the Policy Revisions dialog, the service's active policy version (as indicated by an asterisk in the first column) should already be selected. Click the **Set Comment** button.



27. In the Input dialog, type **Tutorial 1 Complete** in the text field, and click the **OK** button.



28. In the Policy Revisions dialog, click the **OK** button.
29. Repeat steps 25 - 28 for the **Warehouse REST** service.
30. You are done with this tutorial.

1.4 Additional Context

The services deployed by this tutorial are published by a pretend ACME Warehouse company to provide access to information about products contained in its warehouse, to place orders for those products and to view orders that have been placed.

These services have been used by Layer 7 for demonstration and evaluation purposes for a long time. They were originally part of the Layer 7 Sales Demo Environment (SDE) that can be downloaded by customers from our customer portal. This tutorial deploys a policy only implementation of those

services to avoid a dependency between these tutorials and the SDE. These policy only services are meant to behave as much like and be interchangeable with the SDE implementation

These services have been primarily used to demonstrate Layer 7 solution capabilities, not service design best practices. In other words, don't let the design of these service interfaces bother you. We may introduce additional services in these tutorials that have been designed using other architectural styles and based on best practices as are currently taught by Layer 7's API Academy.

These services share the same in-memory state. In other words, if I use the SOAP service to place an order, I can use the REST service to view that order, and vice versa.

These services are not meant to be used for performance testing. Among other possible problems, their shared in-memory state is not thread safe, and you could run into problems with the in-memory state if you send too many of certain requests too fast to these services.

In the SDE implementation of the SOAP service, the **<delay/>** element in the request is used to cause the service to delay its response for that many milliseconds. This functionality is not implemented in the policy only implementation of these services.

The WSDL for the SOAP service can be retrieved from the gateway using the following URL (replace <gateway> with the host name or IP address of your gateway):

http://<gateway>:8080/ACMEWarehouse/services/WarehouseSoap?wsdl

The WADL for the REST service can be retrieved from the gateway using the following URL (replace <gateway> with the host name or IP address of your gateway):

http://<gateway>:8080/ACMEWarehouse?wadl

Or, if you want to retrieve a WADL with a different base URI for the service (replace <gateway> with the host name or IP address of your gateway and replace <base value> with the base URI that you want returned in the WADL; this is useful for the **Tutorial 5 - Publish REST Service** tutorial, or whenever you override the default gateway URL of a REST service):

http://<gateway>:8080/ACMEWarehouse?base=<base value>&wadl

You can test these URLs in a browser.