9 Policy Fragments

9.1 Description

This tutorials demonstrates using a policy fragment to reuse centrally administered policy assertions in multiple service policies.

9.2 Prerequisites

9.2.1 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)
- 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)
- 3. soapUI (this tutorial was designed using the free soapUI version 4.5.1; it may or may not work with other versions of soapUI; other clients can be used for this and other tutorials, but specific steps will not be provided for those other clients)

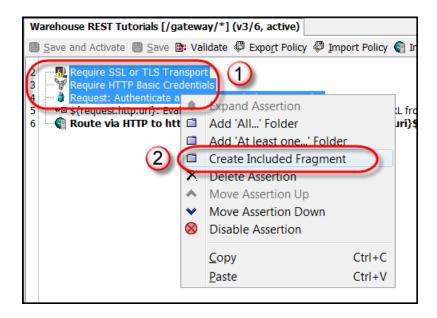
9.2.2 Tutorials

- 1. Layer 7 Tutorials Getting Started
- 2. Tutorial 1 Deploy Tutorial Services
- 3. Tutorial 2 Test Tutorial SOAP Service
- 4. Tutorial 3 Test Tutorial REST Service
- 5. Tutorial 4 Publish SOAP Service
- 6. Tutorial 5 Publish REST Service
- 7. Tutorial 6 Basic Authentication

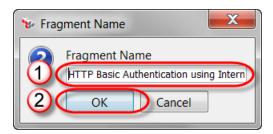
9.3 Tutorial Steps

- Connect to your gateway using Policy Manager (see tutorial Layer 7 Tutorials Getting Started).
- Per Layer 7 Tutorials Getting Started/Basic Policy Concepts/Policy Authoring/Policy
 Revisions, set the active policy version of the Warehouse SOAP Tutorials service to the version
 that has been commented with, Tutorial 4 Complete.
- 3. Per Layer 7 Tutorials Getting Started/Basic Policy Concepts/Policy Authoring/Policy Revisions, set the active policy version of the Warehouse REST Tutorials service to the version that has been commented with, Tutorial 6 Complete.

4. In the policy editor, select *assertions #2 - #4* (this can be done by left clicking on assertion #2, holding the Shift key down on your keyboard, and then left clicking on assertion #4), right click on the selected assertions, and in the context menu, select the *Create Included Fragment* menu item.



5. In the Fragment Name dialog and field, type *HTTP Basic Authentication using Internal Identity Provider*, and click the *OK* button.

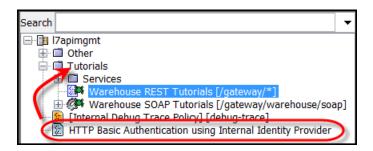


6. In the policy editor, notice that the previously highlighted policy assertions have been replaced by an *Include Policy Fragment* assertion including the new *HTTP Basic Authentication using Internal Identity Provider* policy fragment containing those assertions.

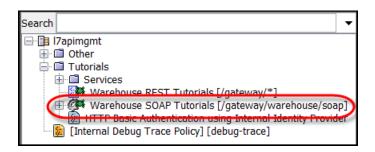


7. On the policy editor toolbar, click the **Save and Activate** button.

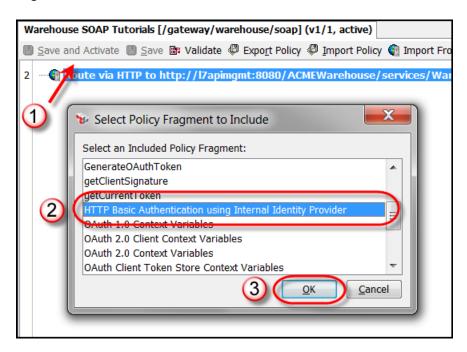
8. In the services and policies tree, drag and drop the *HTTP Basic Authentication using Internal Identity Provider* policy fragment into the *Tutorials* folder.



9. In the services and policies tree, double-click on the Warehouse SOAP Tutorials service.



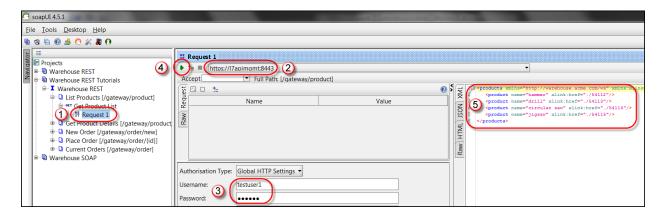
10. From the policy assertion tree, drag and drop the *Policy Assertions/Policy Logic/Include Policy Fragment* assertion to the top of the policy in the policy editor (so position your mouse above assertion #2, the Route via HTTP assertion). In the Select Policy Fragment to Include dialog, scroll to find and select the *HTTP Basic Authentication using Internal Identity Provider* policy fragment, and click the *OK* button.



11. In the policy editor, at the top of your policy, you should now have and *Include Policy Fragment* assertion including the new *HTTP Basic Authentication using Internal Identity Provider* containing three policy assertions.



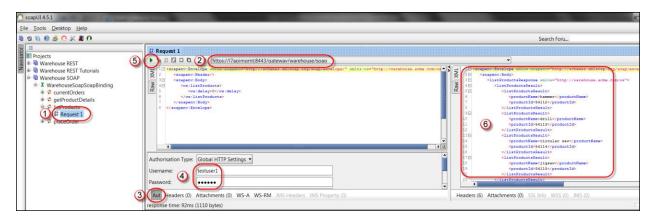
- 12. On the policy editor toolbar, click the *Save and Activate* button.
- 13. Open soapUI, and use the *Warehouse REST Tutorials* project created in *Tutorial 5 Publish REST Service* to test this tutorial's *Warehouse REST Tutorials* policy (ensuring that it still works after having replaced the inline policy assertions with the included policy fragment).
- 14. Open the *Get Product List* request, select the *HTTPS endpoint* on your gateway, enter the username *testuser1* and corresponding password, and send the message using the *green arrow*. You should receive a successful response. If you like, send the same request with the username *baduser*, and you should get an error response.



15. Now, use the *Warehouse SOAP* project created in *Tutorial 2 - Test Tutorial SOAP Service* to test this tutorial's *Warehouse SOAP Tutorials* policy (proving that it requires SSL and HTTP Basic credentials for a valid user in the Internal Identity Provider). You will need to add a new endpoint to the soapUI project per the additional context in that tutorial. The endpoint you add should be (with <gateway> replaced by the host name or IP address of your gateway):

https://<gateway>:8443/gateway/warehouse/soap

16. Open the *listProducts* request, select the new *HTTPS endpoint* on your gateway, select the *Aut* tab, enter the username *testuser1* and corresponding password, and send the message using the *green arrow*. You should receive a successful response. If you like, send the same request with the username *baduser*, and you should get an error response.



- 17. Per Layer 7 Tutorials Getting Started/Basic Policy Concepts/Policy Authoring/Policy Revisions, and as demonstrated at the end of Tutorial 1 Deploy Tutorial Services, comment the active policy revision of the Warehouse REST Tutorials service with the comment, Tutorial 9 Complete.
- 18. Per Layer 7 Tutorials Getting Started /Basic Policy Concepts/Policy Authoring/Policy Revisions, and as demonstrated at the end of Tutorial 1 Deploy Tutorial Services, comment the active policy revision of the Warehouse SOAP Tutorials service with the comment, Tutorial 9 Complete.
- 19. You are done with this tutorial.

9.4 Additional Context

None.