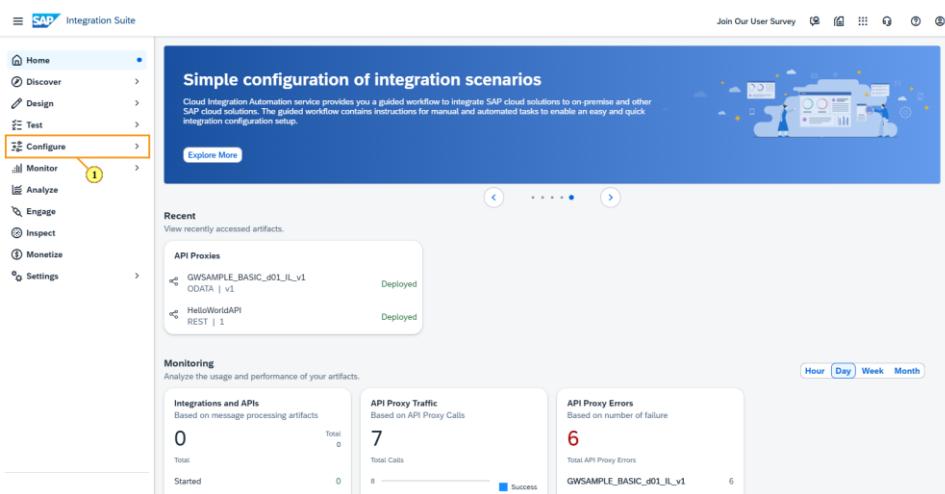
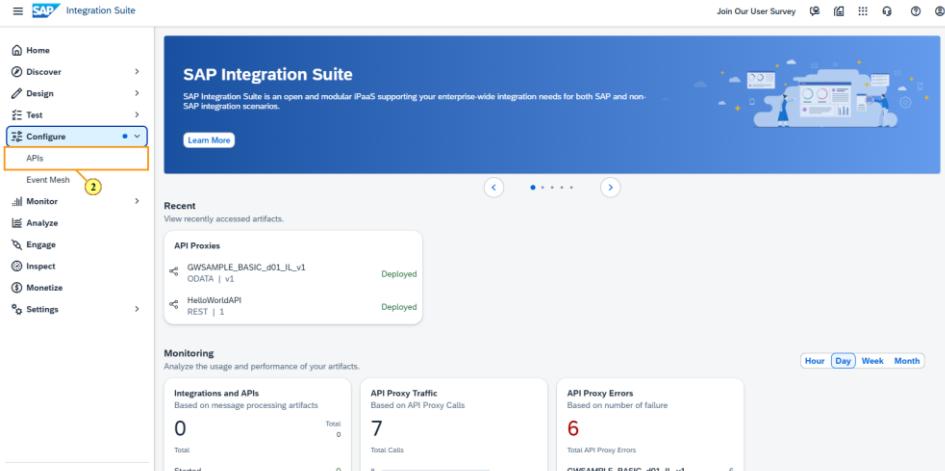
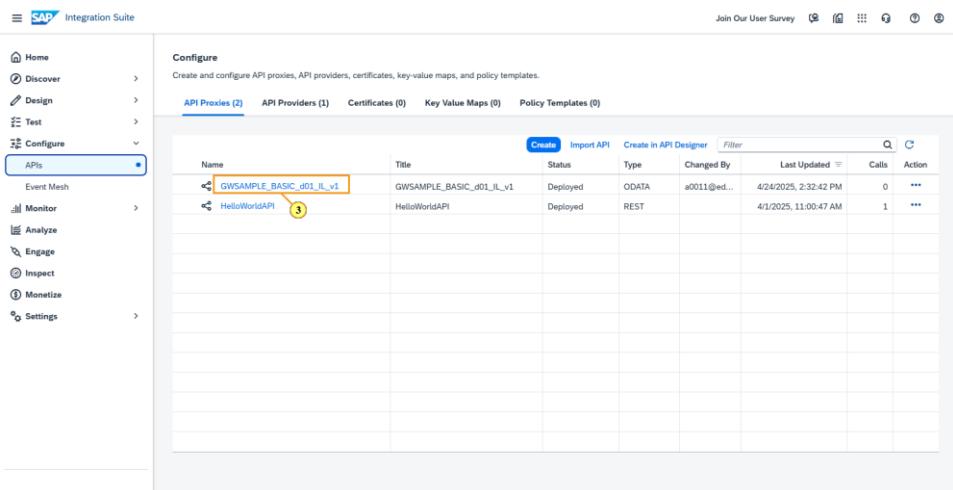
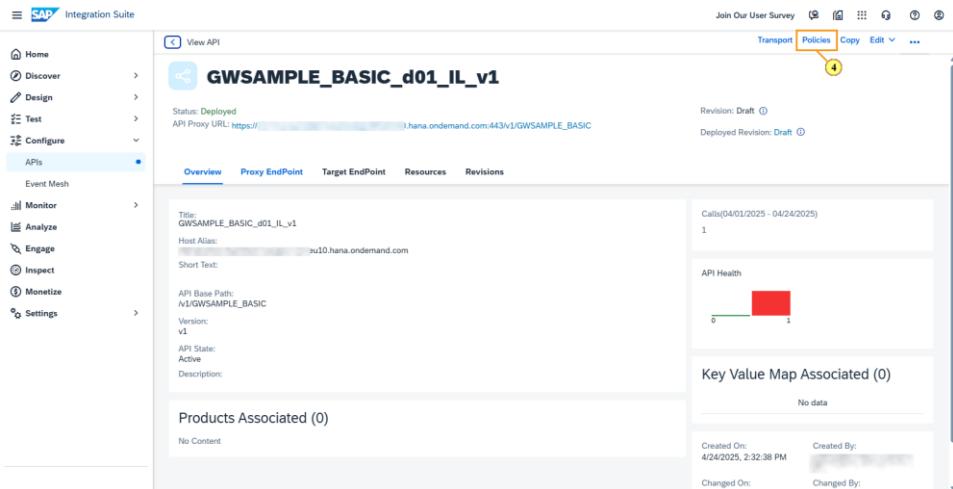
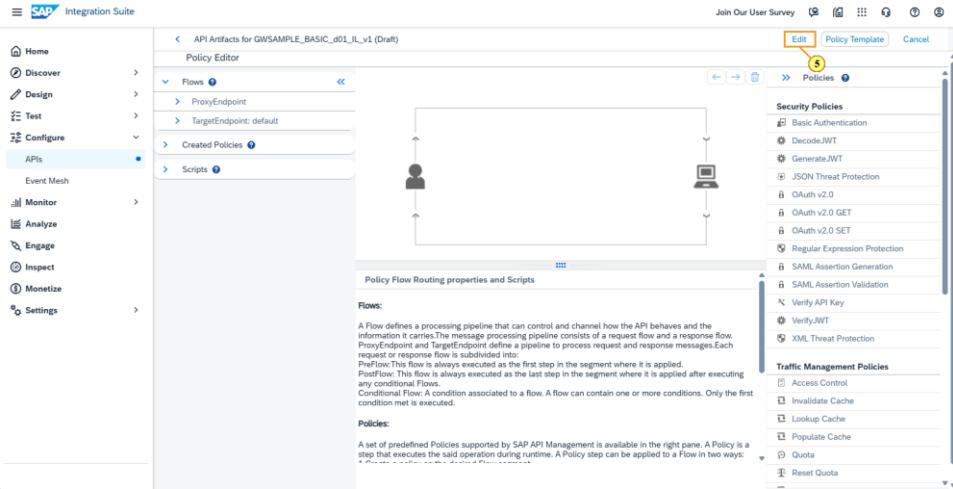
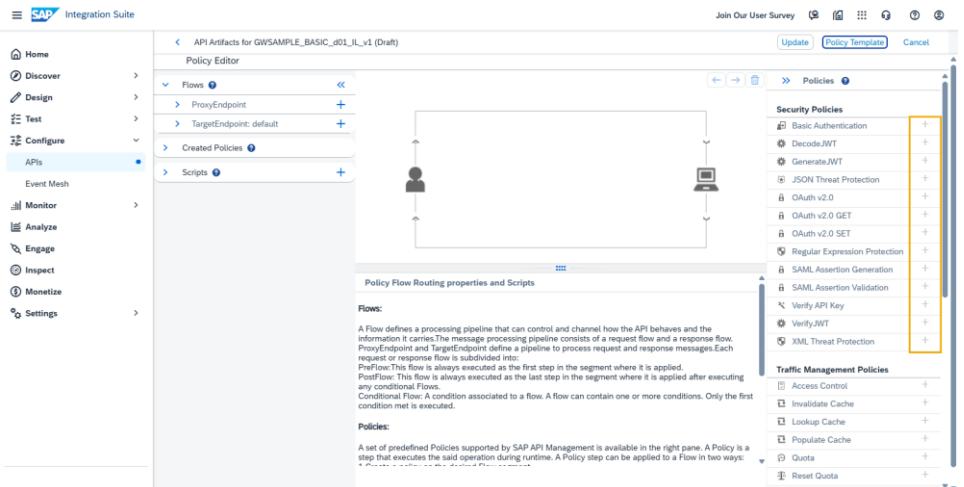
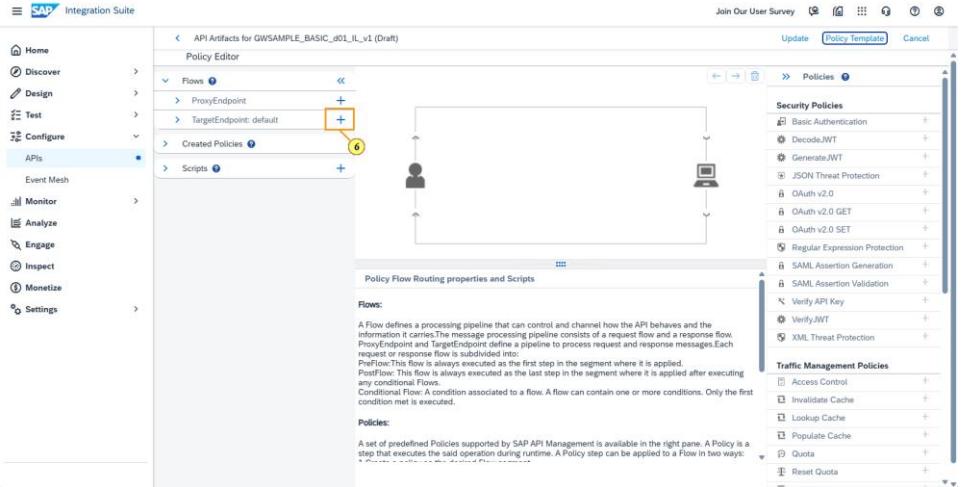
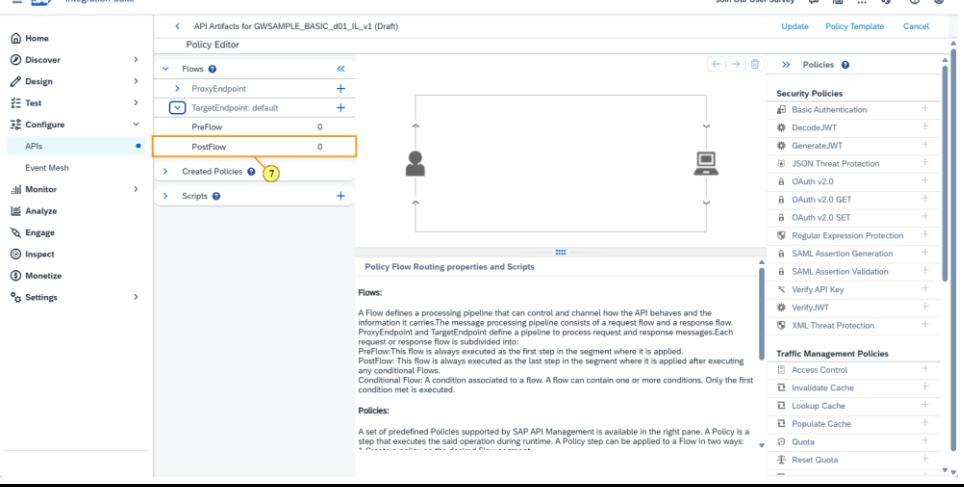
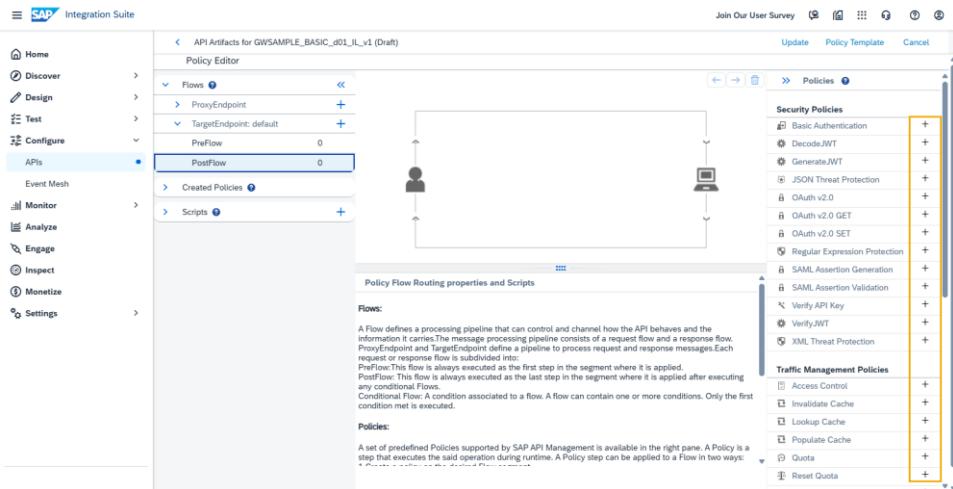
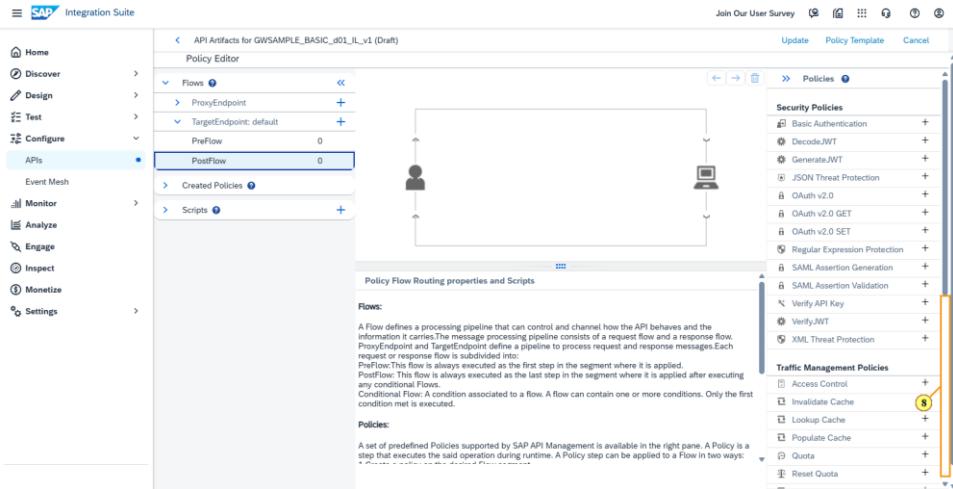
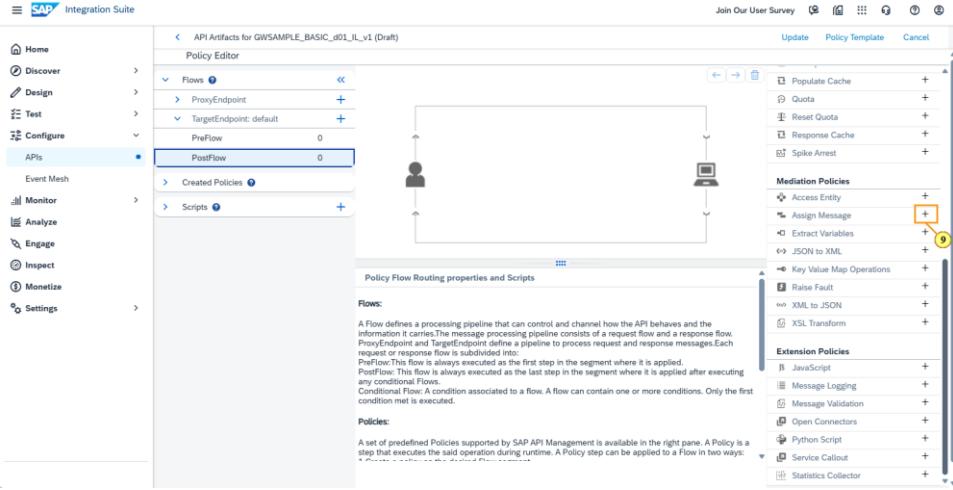


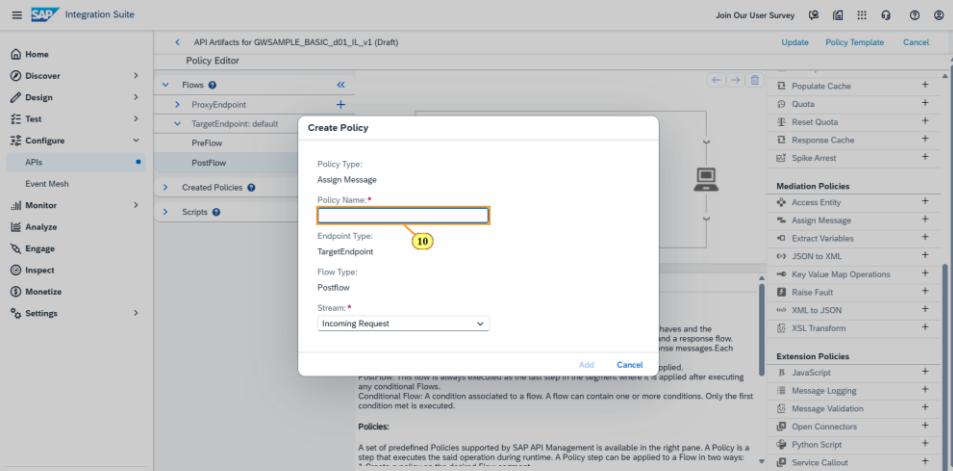
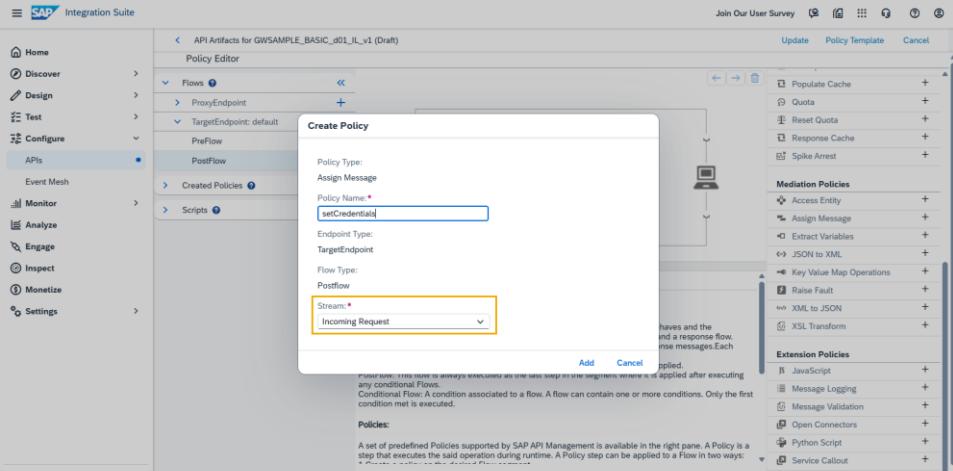
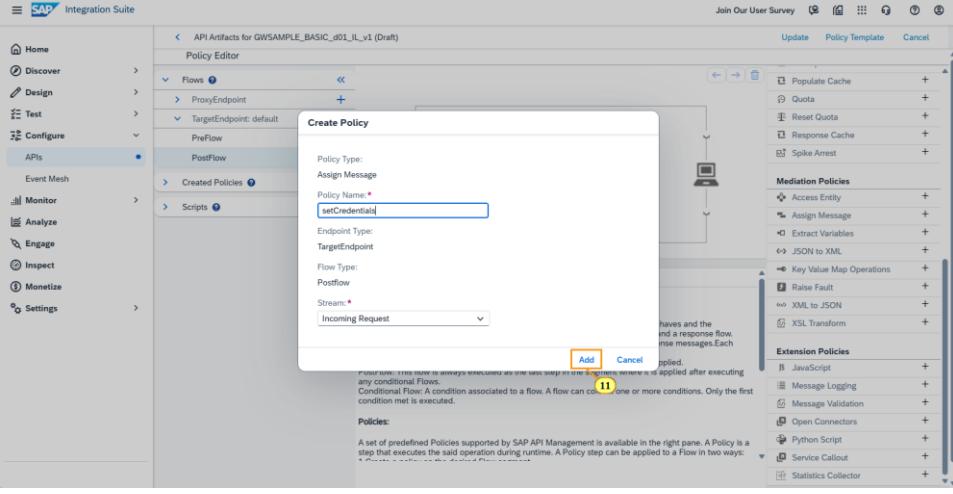
## Add Policies for Basic Authentication Against the ES5 Demo System

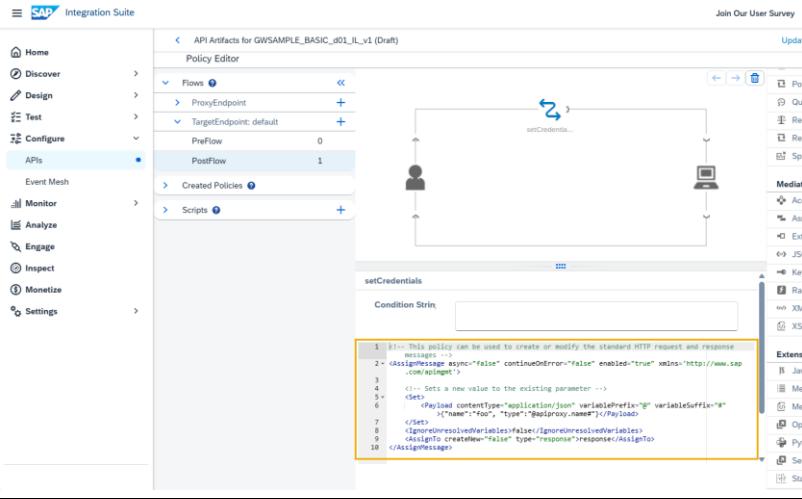
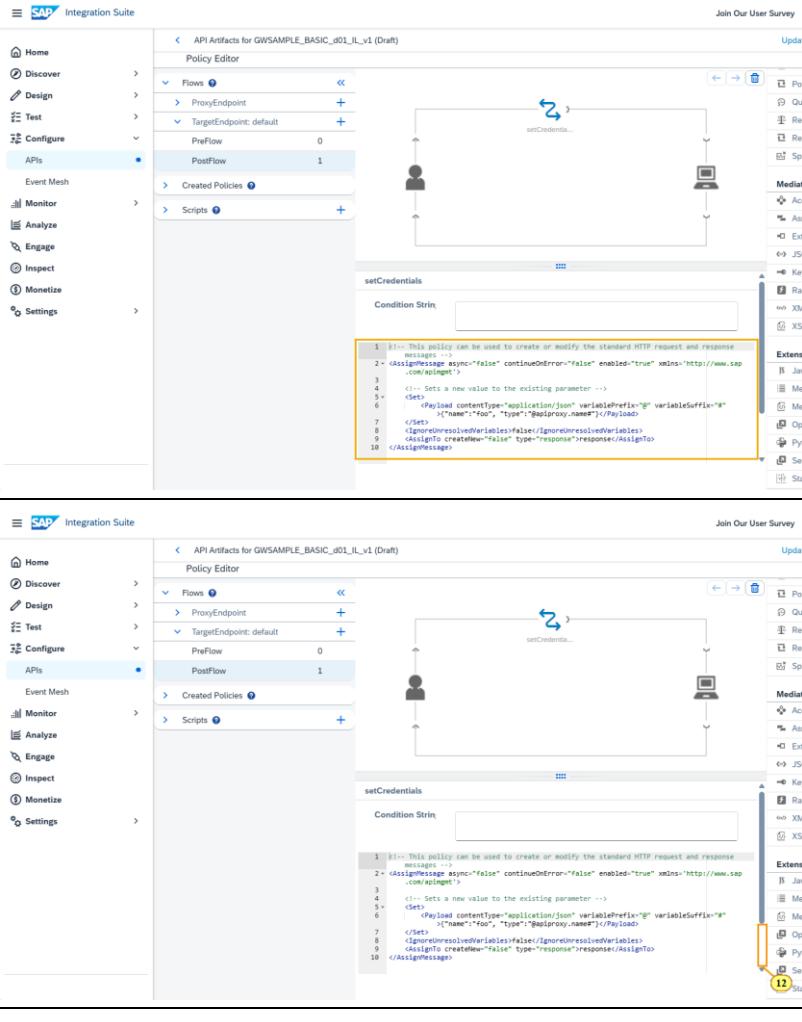
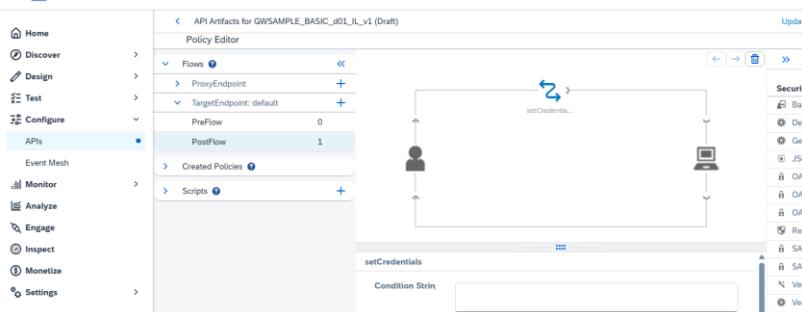
Explanation	Screenshot
<p><i>(i)</i> To use the interfaces in API management, authentication against the source interface is necessary, which is accomplished through a policy implementation.</p>	
<p><i>(i)</i> In this exercise, you will add policies for basic authentication against the ES5 demo system.</p>	
<p><i>(i)</i> In the following steps, you will add the message policy.</p>	<p>1. Choose <i>Configure</i>.</p>
<p>2. Choose <i>APIs</i>.</p>	

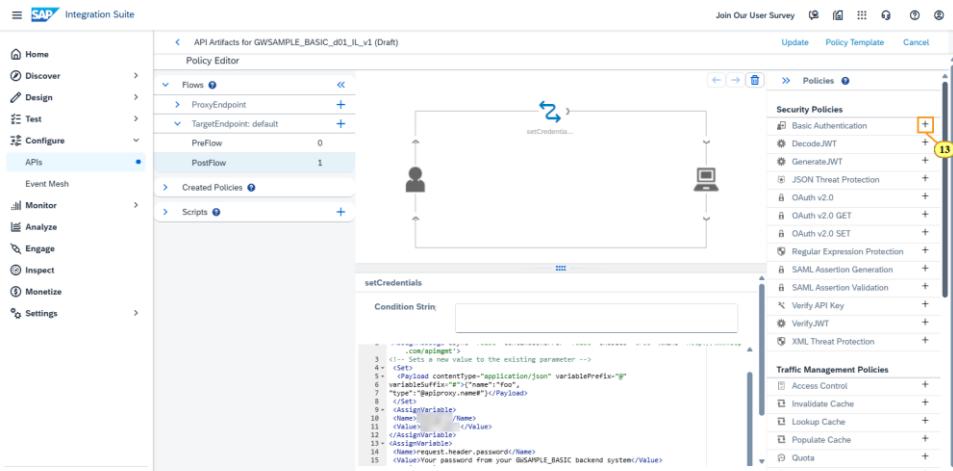
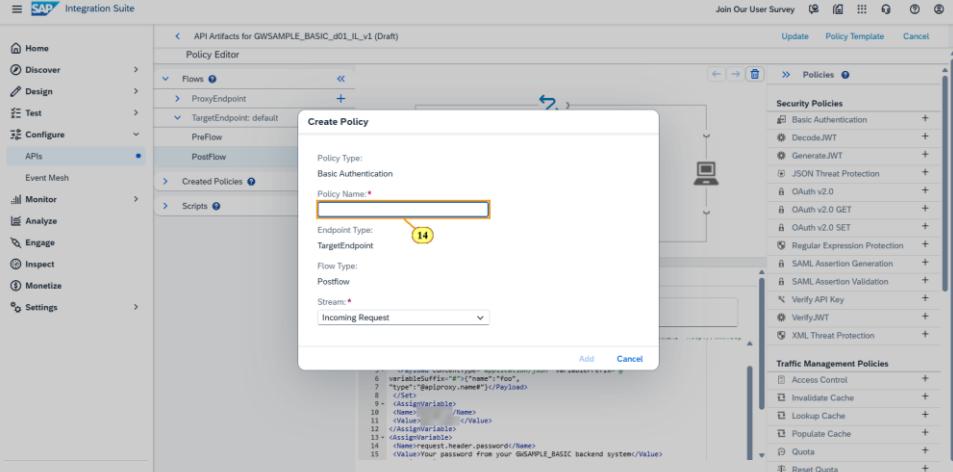
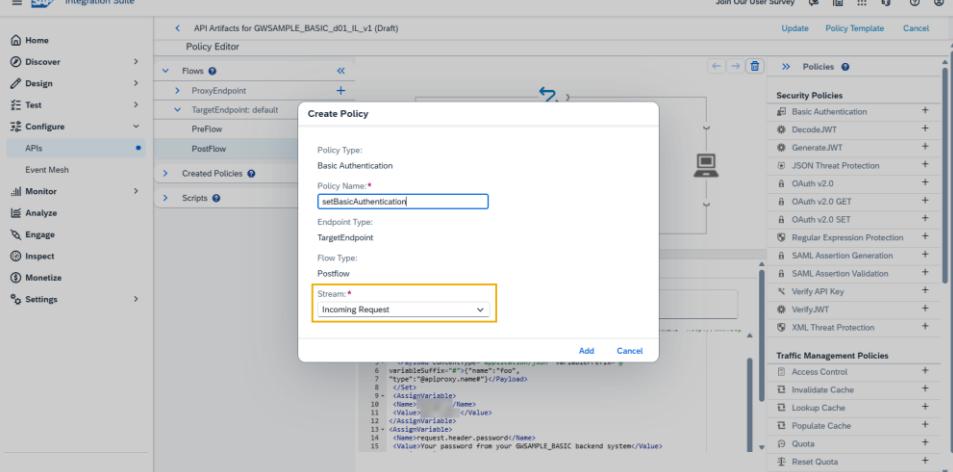
Explanation	Screenshot
<p>3. Choose <b>GWSAMPLE_BASIC_d01_IL_v1</b>.</p>	
<p>4. Choose <b>Policies</b>.</p>	
<p>5. Choose <b>Edit</b>.</p>	

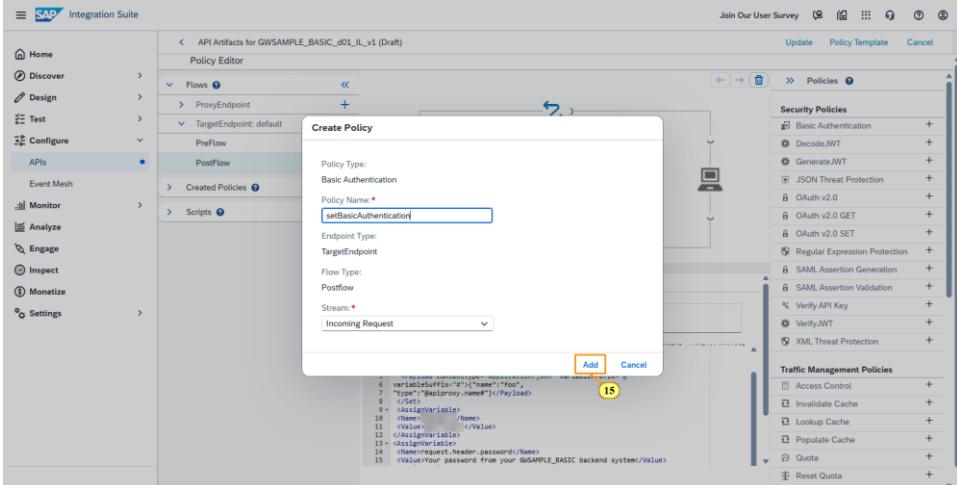
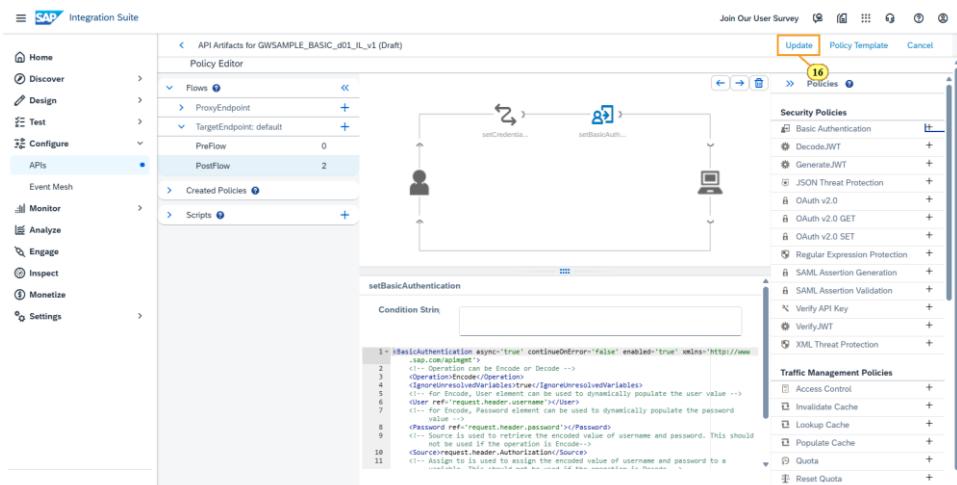
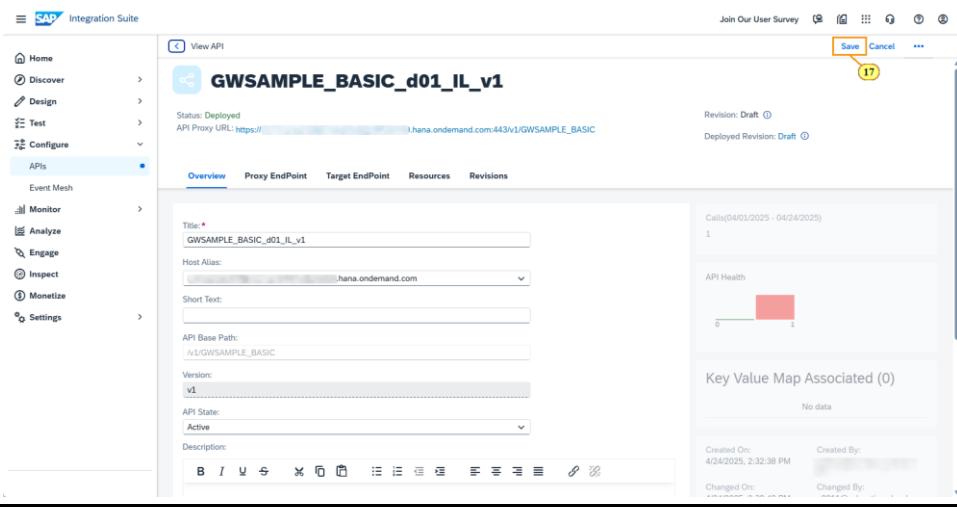
Explanation	Screenshot
<p> Note: You can see the grey plus symbols under security policies.</p>	
<p><b>6. Choose Target Endpoint.</b></p>	
<p><b>7. Choose PostFlow.</b></p>	

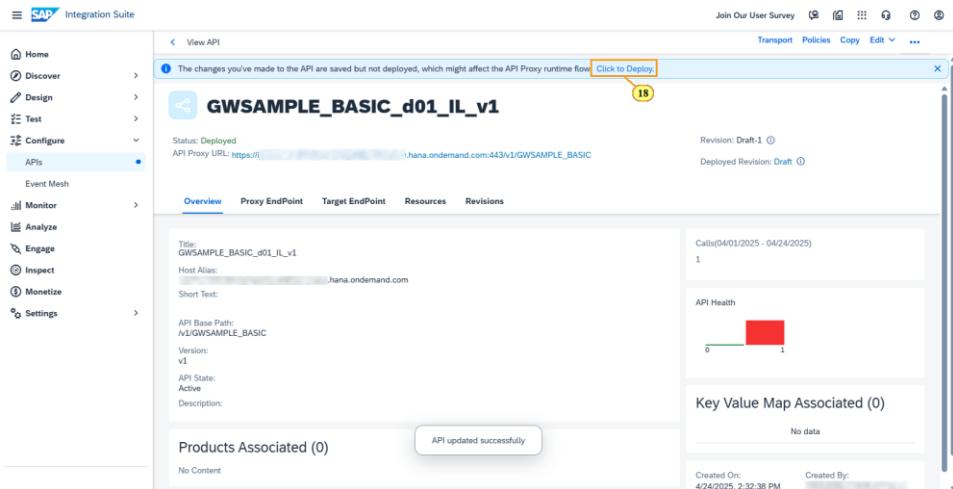
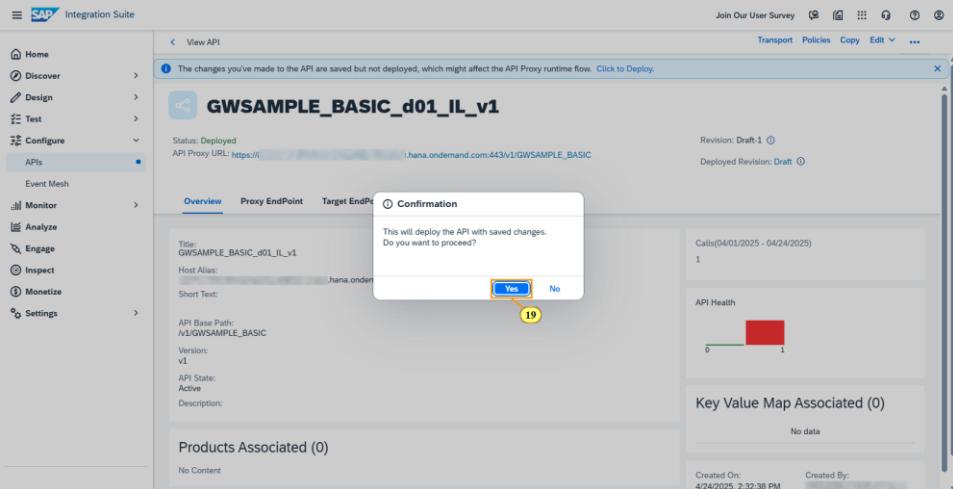
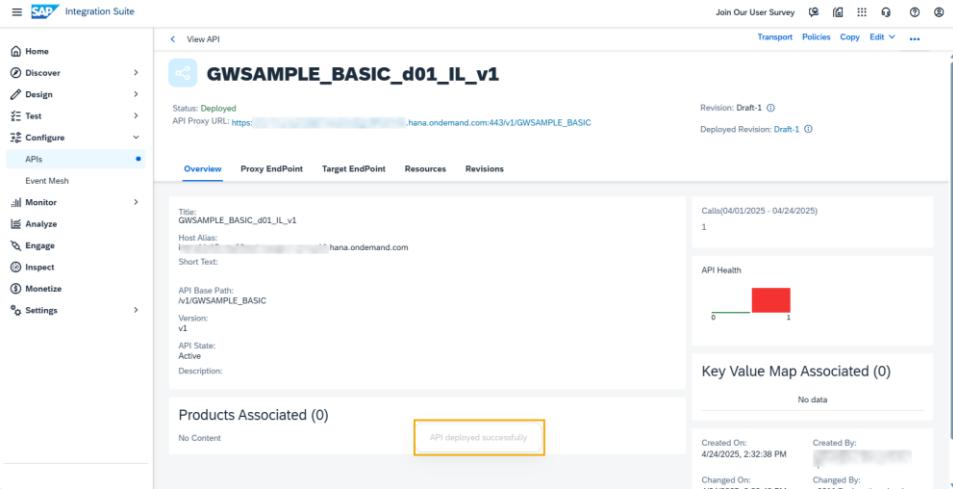
Explanation	Screenshot
<p><b>Note:</b> The plus signs are now black and usable.</p>	
<p>8. Select the scroll bar to scroll down.</p>	
<p>9. Choose Assign Message.</p>	

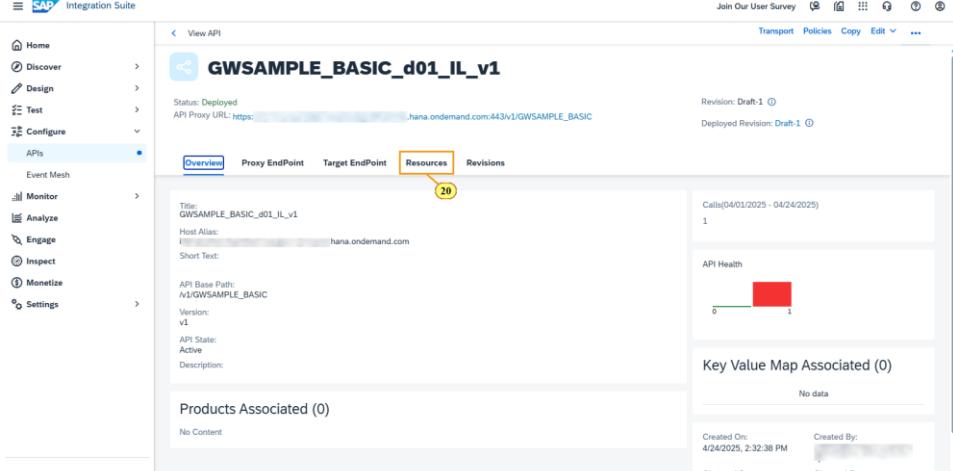
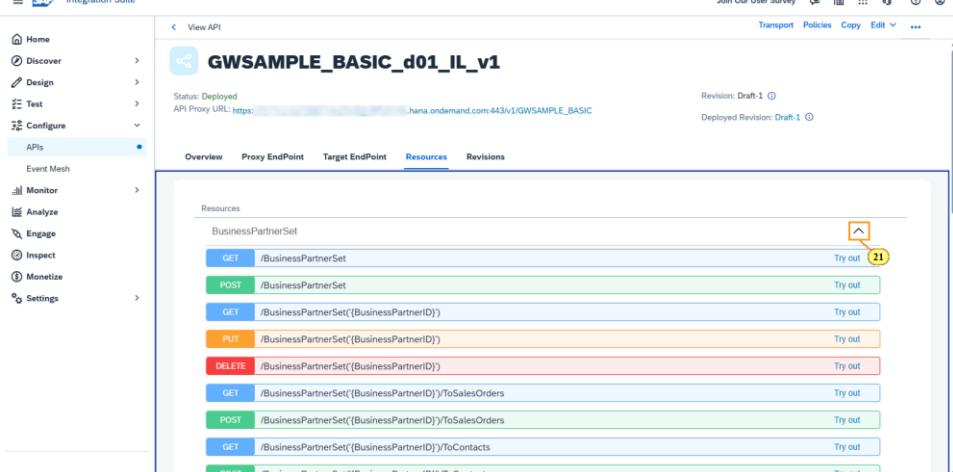
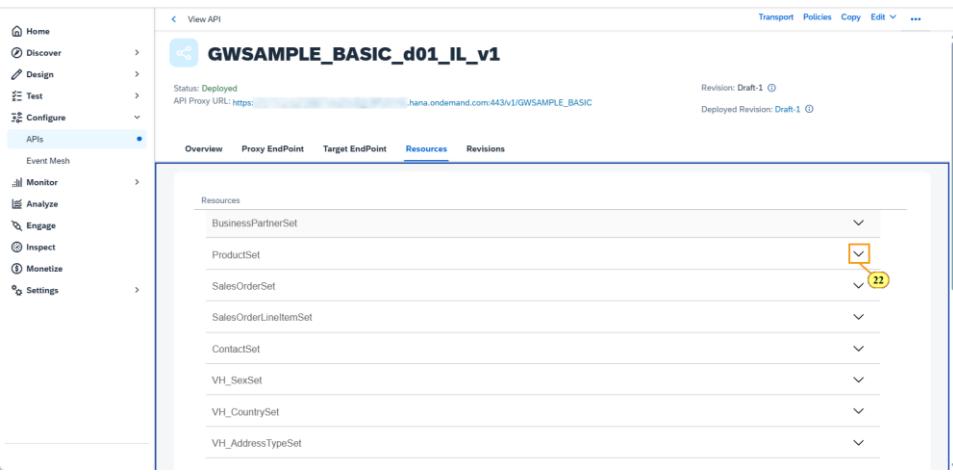
Explanation	Screenshot
<p>10. In the <i>Policy Name</i> field, enter <b>setCredentials</b>.</p>	
<p>Note: In the stream field, the Incoming Request is maintained by default.</p>	
<p>11. Choose <b>Add</b>.</p>	

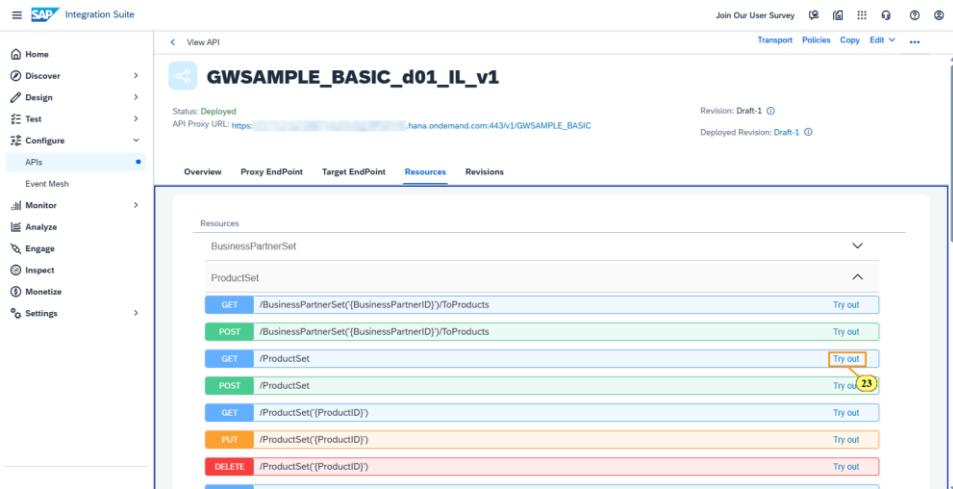
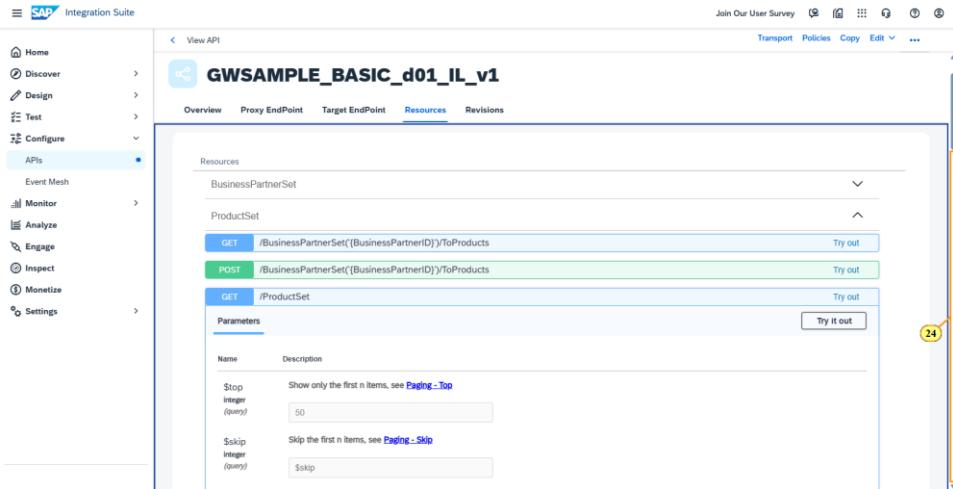
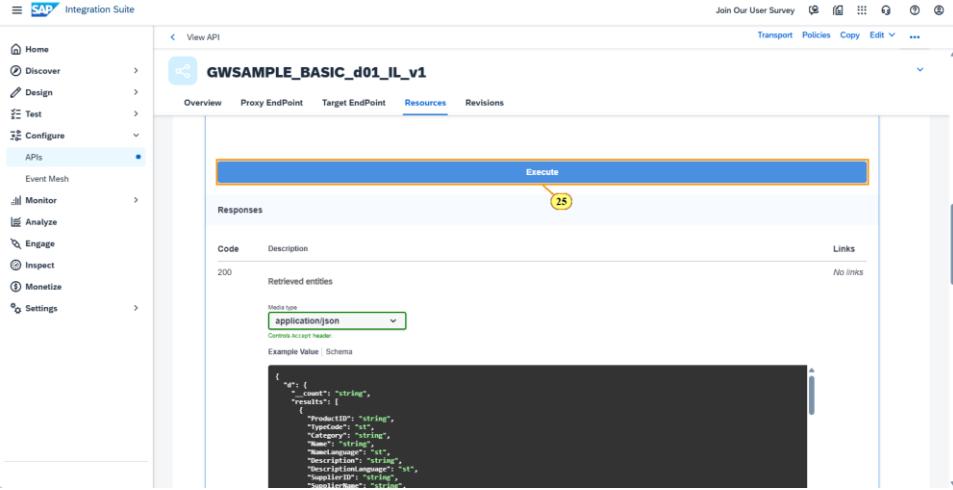
Explanation	Screenshot
<p><b>Note:</b> In the XML editor, you will enter the following code via copy-paste.</p>	 <p>The screenshot shows the SAP Integration Suite Policy Editor interface. On the left, the navigation bar is visible with sections like Home, Discover, Design, Test, Configure, APIs, Event Mesh, Monitor, Analyze, Engage, Inspect, Monetize, and Settings. The APIs section is currently selected. The main area displays a flow diagram with a 'setCredentials' step. Below the diagram is a code editor containing the following XML code:</p> <pre> 1 &lt;!-- This policy can be used to create or modify the standard HTTP request and response 2 &lt;AssignMessage async="false" continueOnError="false" enabled="true" xmlns="http://www.sap 3 .com/api/gw"&gt; 4   &lt;!-- Sets a new value to the existing parameter --&gt; 5   &lt;Set&gt; 6     &lt;Payload content-type="application/json" variablePrefix="\$" variableSuffix="\$"&gt; 7       &lt;!Name:&gt;"foo" &lt;Type:&gt;"BasicString" /&gt;&lt;/Payload&gt; 8   &lt;/Set&gt; 9   &lt;IgnoreUnresolvedVariables&gt;false&lt;/IgnoreUnresolvedVariables&gt; 10 &lt;AssignTo createNew="false" type="response"&gt;response&lt;/AssignTo&gt; 11 &lt;/AssignMessage&gt; </pre>
<p><b>12.</b> Select the scroll bar to scroll down.</p>	 <p>The screenshot shows the SAP Integration Suite Policy Editor interface, similar to the previous one. A yellow box highlights the vertical scroll bar on the right side of the screen, indicating where to scroll down to view more content.</p>
<p><b>Note:</b> Now, you have defined two variables, <code>request.header.username</code> and the <code>request.header.password</code>.</p>	 <p>The screenshot shows the SAP Integration Suite Policy Editor interface. The XML code now includes variable definitions:</p> <pre> 1 &lt;!-- This policy can be used to create or modify the standard HTTP request and response 2 &lt;AssignMessage async="false" continueOnError="false" enabled="true" xmlns="http://www.sap 3 .com/api/gw"&gt; 4   &lt;!-- Sets a new value to the existing parameter --&gt; 5   &lt;Set&gt; 6     &lt;Payload content-type="application/json" variablePrefix="\$" variableSuffix="\$"&gt; 7       &lt;Name:&gt;"foo" &lt;Type:&gt;"BasicString" /&gt;&lt;/Payload&gt; 8   &lt;/Set&gt; 9   &lt;IgnoreUnresolvedVariables&gt;false&lt;/IgnoreUnresolvedVariables&gt; 10 &lt;AssignTo createNew="false" type="response"&gt;response&lt;/AssignTo&gt; 11 &lt;AssignVariable&gt; 12   &lt;Name:&gt;"username" &lt;Value:&gt;"\${request.header.username}" /&gt; 13 &lt;/AssignVariable&gt; 14 &lt;AssignVariable&gt; 15   &lt;Name:&gt;"password" &lt;Value:&gt;"\${request.header.password}" /&gt; 16 &lt;/AssignVariable&gt; 17 &lt;AssignTo createNew="false" type="response"&gt;response&lt;/AssignTo&gt; 18 &lt;/AssignMessage&gt; </pre>

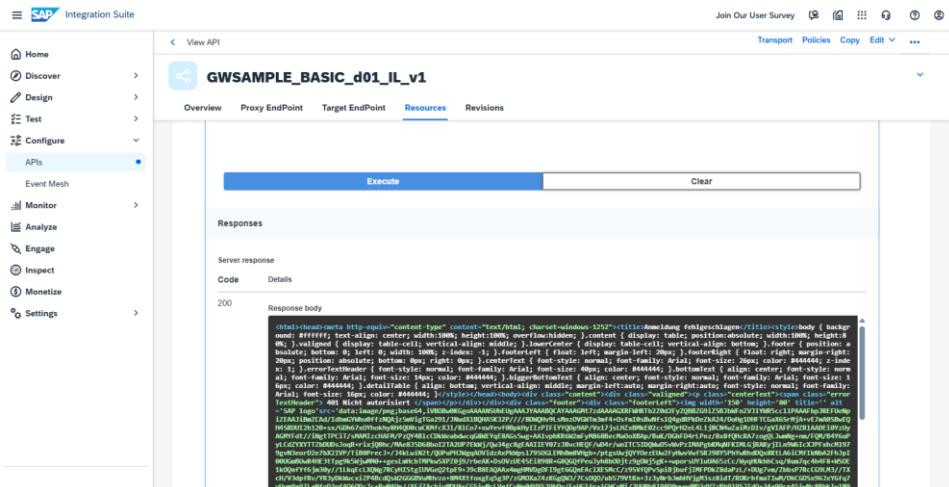
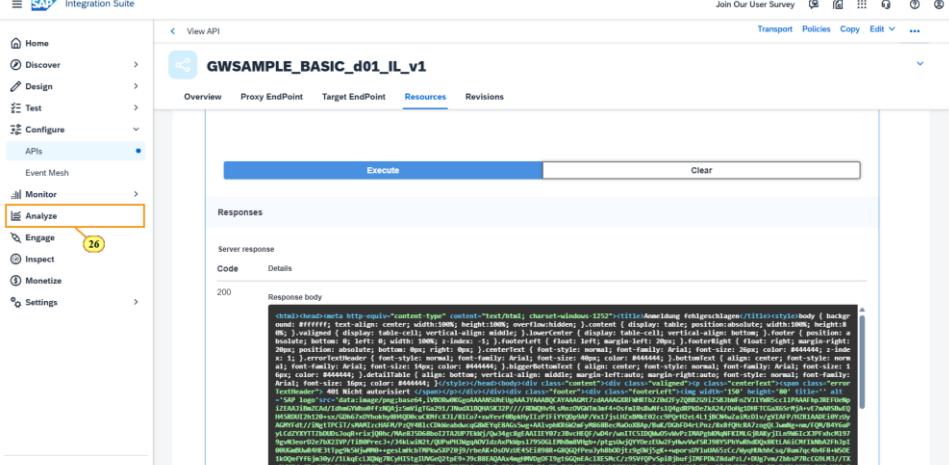
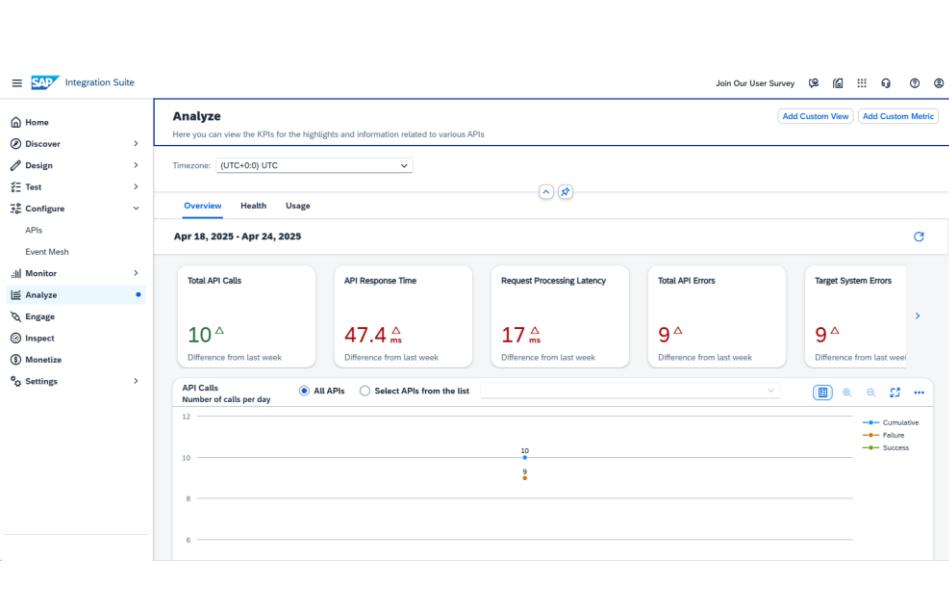
Explanation	Screenshot
<p><i>(i)</i></p> <p>In the following steps, you will add the basic authentication policy.</p> <p><b>13. Choose Basic Authentication.</b></p>	 <p>The screenshot shows the SAP Integration Suite Policy Editor. A flow diagram is displayed with a 'setCredentials' step highlighted. The script for this step is shown below:</p> <pre> 3 &lt;-- Sets a new value to the existing parameter -- 4 &lt;--&gt; 5 &lt;Payload content-Type="application/json" variable-PreFix="--&gt; 6 variablesIf[#1="#"]&lt;name&gt;:root&lt;/name&gt; 7 &lt;type&gt;:&lt;#&gt;ipdproxy_name#&lt;/type&gt; 8 &lt;Set&gt; 9 &lt;AssignVariable&gt; 10 &lt;Name&gt;:root&lt;/Name&gt; 11 &lt;Value&gt;:your password&lt;/Value&gt; 12 &lt;/AssignVariable&gt; 13 &lt;AssignVariable&gt; 14 &lt;Name&gt;:request.header.password&lt;/Name&gt; 15 &lt;Value&gt;:your password from your @SAMPLE_BASIC backend system&lt;/Value&gt; </pre>
<p><b>14. In the Policy Name field, enter setBasicAuthentication.</b></p>	 <p>The screenshot shows the SAP Integration Suite Policy Editor with the 'Create Policy' dialog open. The 'Policy Name' field contains 'setBasicAuthentication'. The 'Stream' dropdown is set to 'Incoming Request'.</p>
<p><i>(i)</i></p> <p>Note: In the stream field, the Incoming Request is maintained by default.</p>	 <p>The screenshot shows the SAP Integration Suite Policy Editor with the 'Create Policy' dialog open. The 'Policy Name' field contains 'setBasicAuthentication'. The 'Stream' dropdown is set to 'Incoming Request'.</p>

Explanation	Screenshot
15. Choose Add.	 <p>The screenshot shows the SAP Integration Suite Policy Editor interface. A 'Create Policy' dialog is open, titled 'Basic Authentication'. The 'Policy Name' field contains 'setBasicAuthentication'. The 'Endpoint Type' is set to 'TargetEndpoint'. The 'Flow Type' is 'Postflow'. The 'Stream' is 'Incoming Request'. On the right side, there is a list of 'Security Policies' including 'Basic Authentication', 'DecodeJWT', 'GenerateJWT', etc. At the bottom of the dialog, there is a code editor window showing XML policy code. An orange box highlights the 'Add' button at the bottom right of the dialog, with a yellow circle containing the number 15.</p>
16. Choose Update.	 <p>The screenshot shows the SAP Integration Suite Policy Editor interface. The 'setBasicAuthentication' policy is selected in the list. The 'Condition String' field is empty. Below it is a code editor window showing XML policy code. On the right, there is a list of 'Security Policies'. An orange box highlights the 'Update' button at the top right of the screen, with a yellow circle containing the number 16.</p>
17. Choose Save.	 <p>The screenshot shows the SAP Integration Suite API Overview page for the API 'GWSAMPLE_BASIC_d01_1L_v1'. The API status is 'Deployed' with the URL 'https://hana.ondemand.com:443/v1/GWSAMPLE_BASIC'. The 'Overview' tab is selected. On the right, there are sections for 'API Health' (with a red status bar) and 'Key Value Map Associated (0)'. At the bottom right of the screen, there is a 'Save' button, which is highlighted with an orange box and a yellow circle containing the number 17.</p>

Explanation	Screenshot
<p>18. Choose <i>Click to Deploy</i>.</p>	
<p>19. Choose Yes.</p>	
<p>Note the API deployed successfully.</p>	

Explanation	Screenshot
<p> In the following steps, you will test your policies.</p> <p>20. Choose Resources.</p>	
<p>21. To collapse the <i>BusinessPartnerSet</i> pane, choose the arrow.</p>	
<p>22. To expand the <i>ProductSet</i> pane, choose the arrow.</p>	

Explanation	Screenshot
<p>23. Choose <i>Try out</i> <i>GET/ProductSet</i>.</p>	
<p>24. Select the scroll bar to scroll down.</p>	
<p>25. Choose <i>Execute</i>.</p>	

Explanation	Screenshot						
<p><i>(i)</i></p> <p>Note: You receive an HTTP status Code with response 200 and the containing response body.</p>	 <pre data-bbox="477 781 1426 792"> &lt;html&gt;&lt;head&gt;&lt;meta http-equiv="Content-Type" content="text/html; charset=UTF-8"&gt;&lt;/head&gt;&lt;body&gt; &lt;pre&gt;{"id": "1", "name": "John Doe", "age": 30, "city": "New York", "state": "NY"}&lt;/pre&gt; &lt;/body&gt;&lt;/html&gt; </pre>						
<p><i>(i)</i></p> <p>In the following steps, you will monitor your API calls.</p> <p>26. Choose Analyze.</p>							
<p><i>(i)</i></p> <p>Note: We use the API Analyze dashboard to examine the metrics of the API calls made so far. An extra app is available.</p> <p><i>(i)</i></p> <p>You have now successfully added policies for basic authentication against the ES5 demo system.</p>	 <table border="1" data-bbox="477 1680 1426 1713"> <thead> <tr> <th>API Calls</th> <th>Number of calls per day</th> </tr> </thead> <tbody> <tr> <td>All APIs</td> <td>10</td> </tr> <tr> <td>Select APIs from the list</td> <td>9</td> </tr> </tbody> </table>	API Calls	Number of calls per day	All APIs	10	Select APIs from the list	9
API Calls	Number of calls per day						
All APIs	10						
Select APIs from the list	9						

