

Day 4

SAP Advanced Event Mesh – Use APIs – Publish a REST Message

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Day 4

Exercise: Use APIs

- Understand the different APIs of Advanced Event Mesh
- Work with an Postman collection: Create and Delete an new Development Broker Service
- Publish a "Rest"-Event via Postman
- Create a new Queue via SEMP API
- Check Queues with SEMP API

Prerequisites

- You access and use the same broker you setup previously

Day 4 Solution 1

Solution 1: Use APIs

Exercise 1

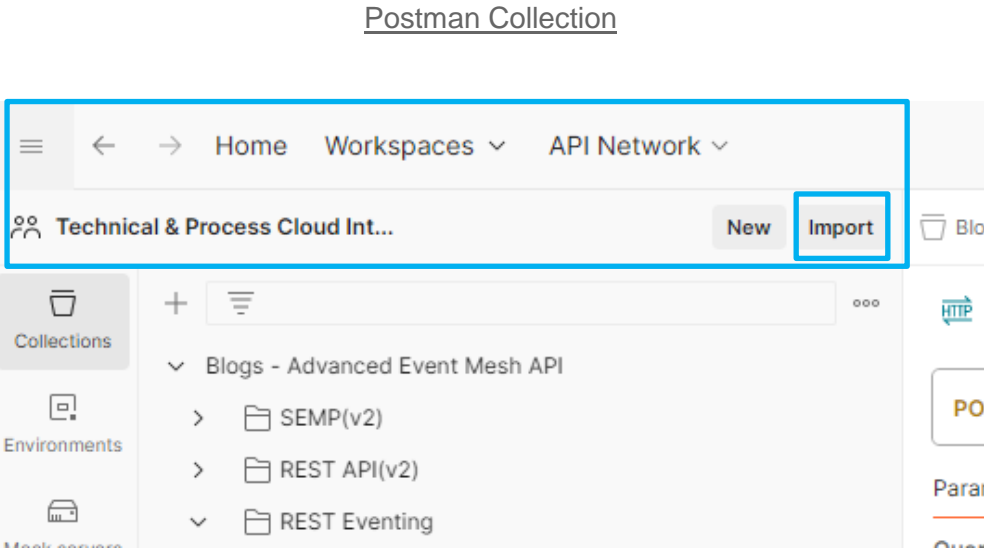
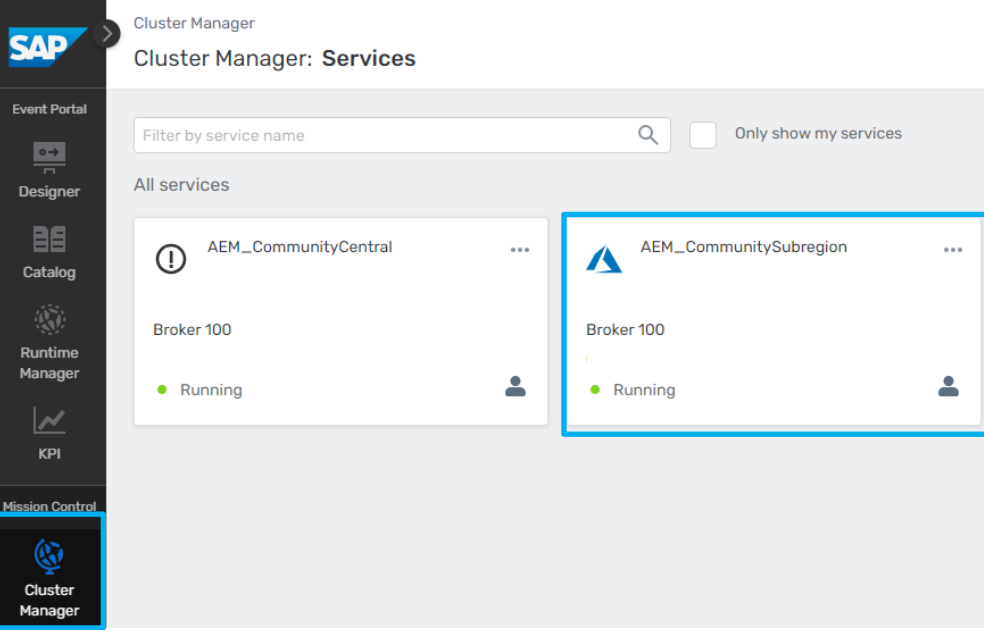
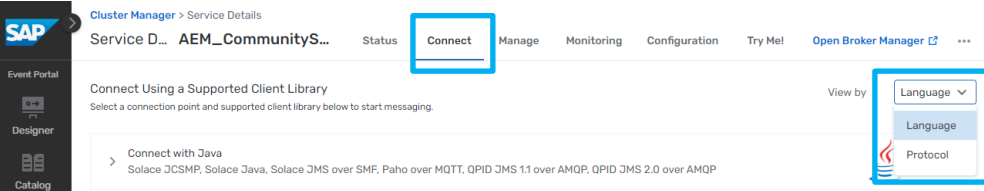
- Create Token for Mission Control
- Download PostMan – Collection
- Identify REST API(v2) Cloud URL
- Use the Mission Control Folder in PostMan
 - Get list of all Datacenters
 - Get list of all Event Broker Service in your Landscape
 - Delete 1 of the Event Broker via specific ID (delete your demo Event Broker)
 - Create 1 new Event Broker with Development Attributes

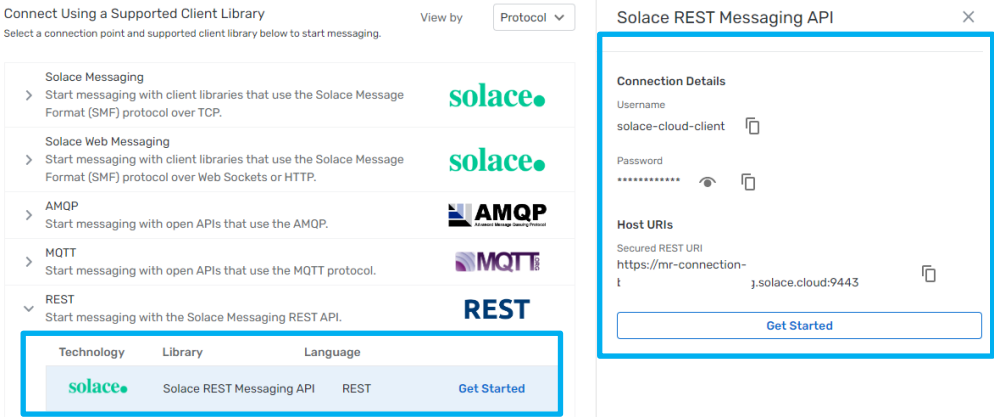
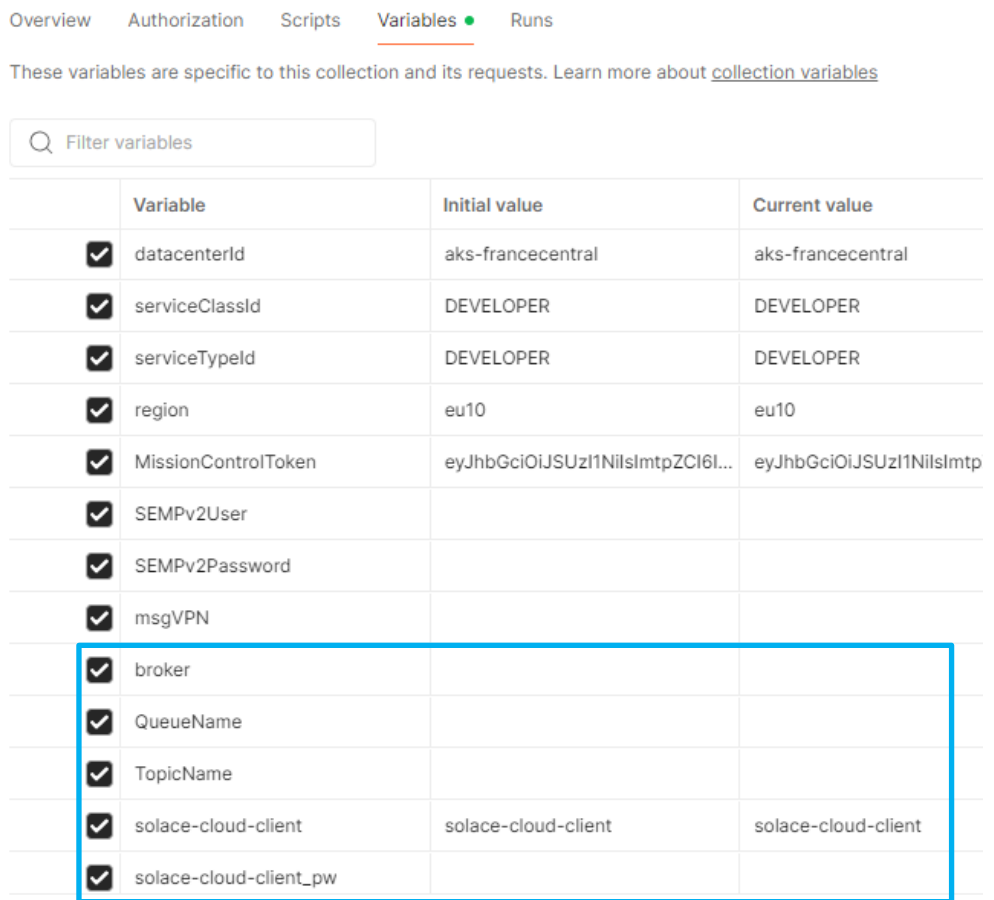
Exercise 2

- Create a new Queue in your Event Broker Service
- Create a new Topic subscription in your Event Broker Service
- Publish a new Message in a specific Queue / Topic subscription

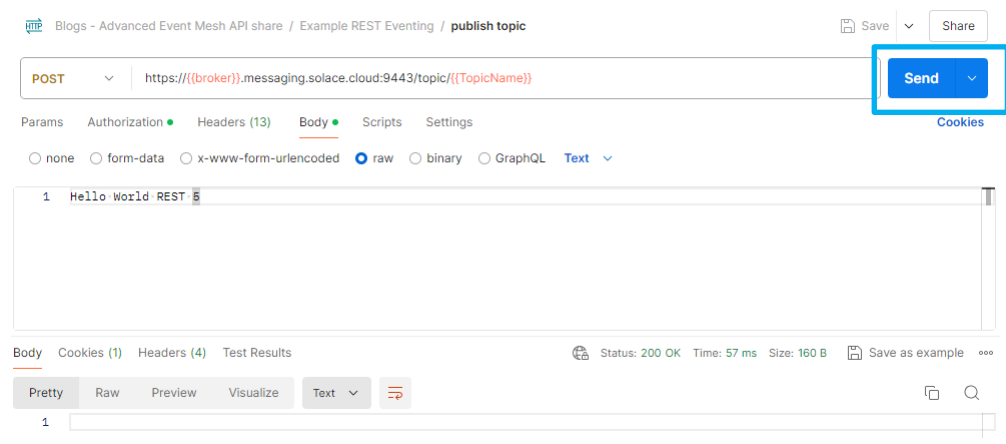
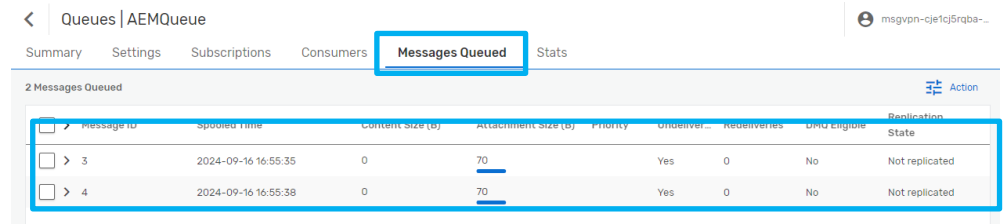
Exercise 3

- Leverage the SEMP – API
 - Create a new Queue by Payload and Publish an other Rest Message
 - Identify your published message in a specific Queue

Explanation	Screenshot
Download the Postman collection with some basic apis and import this collection in your postman (Done in Exercise 1 APIs)	 <p>The screenshot shows the Postman web interface. At the top, there's a navigation bar with 'Home', 'Workspaces', and 'API Network'. Below it, a collection named 'Technical & Process Cloud Int...' is displayed. An 'Import' button is highlighted with a blue box. The collection contains several folders: 'Blogs - Advanced Event Mesh API', 'SEMP(v2)', 'REST API(v2)', and 'REST Eventing'.</p>
Open a Broker Service via Cluster Manager	 <p>The screenshot shows the SAP Cluster Manager interface. On the left, there's a sidebar with various navigation items. The 'Cluster Manager' item is highlighted with a blue box. The main area displays a list of services, including 'AEM_CommunityCentral' and 'AEM_CommunitySubregion'. The 'AEM_CommunitySubregion' service is highlighted with a blue box.</p>
Got to Connect change the view to Protocol	 <p>The screenshot shows the SAP Cluster Manager 'Connect' page. The 'Connect' button is highlighted with a blue box. Below it, there's a section titled 'Connect Using a Supported Client Library'. On the right, there's a 'View by' dropdown menu with 'Language' and 'Protocol' options. The 'Protocol' option is selected and highlighted with a blue box.</p>

Explanation	Screenshot																																																								
<p>Start with “REST API”</p> <p>Get Connection Details for Postman Collection</p>																																																									
<p>Update your variables: broker, QueueName, TopicName, solace-cloud-client, solace-cloud-client-pw.</p> <p>Broker = part of the REST API Host Url between: https://{broker}.messaging.solace.cloud:9443</p> <p>Solace-cloud-client and _pw values from connection Details</p> <p>QueueName: AEMQueue</p> <p>TopicName AEMTopicSub</p>	 <table><tr><th></th><th>Variable</th><th>Initial value</th><th>Current value</th></tr><tr><td><input checked="" type="checkbox"/></td><td>datacenterId</td><td>aks-francecentral</td><td>aks-francecentral</td></tr><tr><td><input checked="" type="checkbox"/></td><td>serviceClassId</td><td>DEVELOPER</td><td>DEVELOPER</td></tr><tr><td><input checked="" type="checkbox"/></td><td>serviceTypeId</td><td>DEVELOPER</td><td>DEVELOPER</td></tr><tr><td><input checked="" type="checkbox"/></td><td>region</td><td>eu10</td><td>eu10</td></tr><tr><td><input checked="" type="checkbox"/></td><td>MissionControlToken</td><td>eyJhbGciOiJSUzI1NiIsImtpZCI6I...</td><td>eyJhbGciOiJSUzI1NiIsImtpZCI6I...</td></tr><tr><td><input checked="" type="checkbox"/></td><td>SEMPv2User</td><td></td><td></td></tr><tr><td><input checked="" type="checkbox"/></td><td>SEMPv2Password</td><td></td><td></td></tr><tr><td><input checked="" type="checkbox"/></td><td>msgVPN</td><td></td><td></td></tr><tr><td><input checked="" type="checkbox"/></td><td>broker</td><td></td><td></td></tr><tr><td><input checked="" type="checkbox"/></td><td>QueueName</td><td></td><td></td></tr><tr><td><input checked="" type="checkbox"/></td><td>TopicName</td><td></td><td></td></tr><tr><td><input checked="" type="checkbox"/></td><td>solace-cloud-client</td><td>solace-cloud-client</td><td>solace-cloud-client</td></tr><tr><td><input checked="" type="checkbox"/></td><td>solace-cloud-client-pw</td><td></td><td></td></tr></table>		Variable	Initial value	Current value	<input checked="" type="checkbox"/>	datacenterId	aks-francecentral	aks-francecentral	<input checked="" type="checkbox"/>	serviceClassId	DEVELOPER	DEVELOPER	<input checked="" type="checkbox"/>	serviceTypeId	DEVELOPER	DEVELOPER	<input checked="" type="checkbox"/>	region	eu10	eu10	<input checked="" type="checkbox"/>	MissionControlToken	eyJhbGciOiJSUzI1NiIsImtpZCI6I...	eyJhbGciOiJSUzI1NiIsImtpZCI6I...	<input checked="" type="checkbox"/>	SEMPv2User			<input checked="" type="checkbox"/>	SEMPv2Password			<input checked="" type="checkbox"/>	msgVPN			<input checked="" type="checkbox"/>	broker			<input checked="" type="checkbox"/>	QueueName			<input checked="" type="checkbox"/>	TopicName			<input checked="" type="checkbox"/>	solace-cloud-client	solace-cloud-client	solace-cloud-client	<input checked="" type="checkbox"/>	solace-cloud-client-pw		
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Explanation	Screenshot
Create manual a queue: AEMQueue	
Create manual a Topic Subscription: AEMTopicSub	
Publish message on Queue via Postman	

Explanation	Screenshot																											
<p>Publish message in Topic via Postman</p>	 <p>The screenshot shows the Postman REST client interface. The method is set to POST, and the URL is <code>https://((broker)).messaging.solace.cloud:9443/topic/((TopicName))</code>. The body is set to raw with the text <code>Hello World REST</code>. The status bar at the bottom indicates a successful response with status 200 OK, time 57 ms, and size 160 B.</p>																											
<p>Cross check Queue and messages</p> <p>Result: 2 messages should be there</p>	 <p>The screenshot shows the Solace AEMQueue interface with the 'Messages Queued' tab selected. It displays a table with 2 messages. The first message has ID 3 and the second has ID 4. Both messages are in the 'Not replicated' state.</p> <table><tr><th>Message ID</th><th>Spooled Time</th><th>Content Size (B)</th><th>Attachment Size (B)</th><th>Priority</th><th>Undelivered</th><th>Redeliveries</th><th>DRU Engine</th><th>Replication State</th></tr><tr><td>> 3</td><td>2024-09-16 16:55:35</td><td>0</td><td>70</td><td></td><td>Yes</td><td>0</td><td>No</td><td>Not replicated</td></tr><tr><td>> 4</td><td>2024-09-16 16:55:38</td><td>0</td><td>70</td><td></td><td>Yes</td><td>0</td><td>No</td><td>Not replicated</td></tr></table>	Message ID	Spooled Time	Content Size (B)	Attachment Size (B)	Priority	Undelivered	Redeliveries	DRU Engine	Replication State	> 3	2024-09-16 16:55:35	0	70		Yes	0	No	Not replicated	> 4	2024-09-16 16:55:38	0	70		Yes	0	No	Not replicated
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<p>Congratulations! You successfully completed the Exercise</p>																												