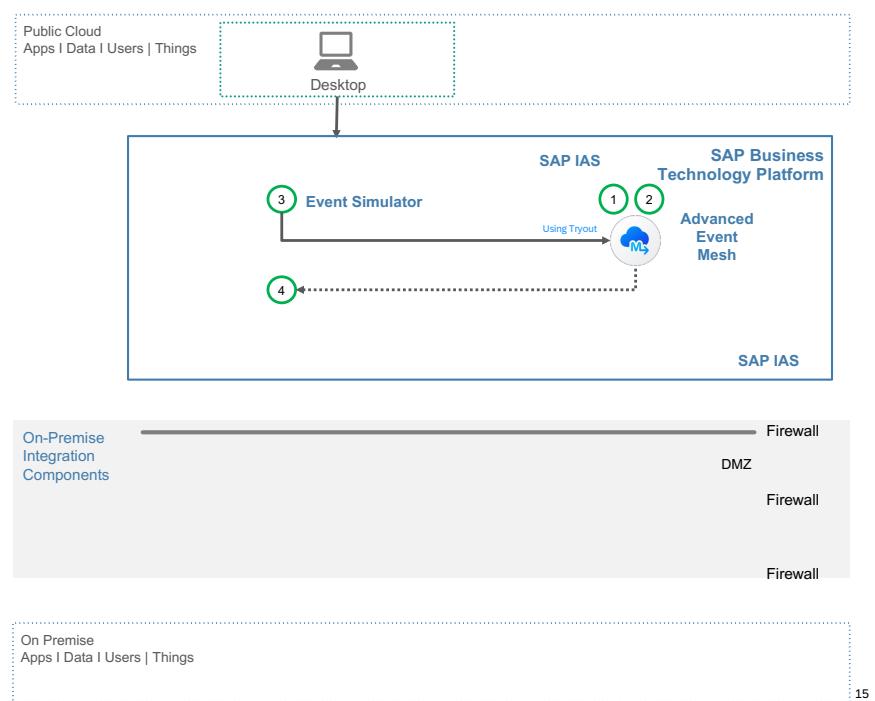
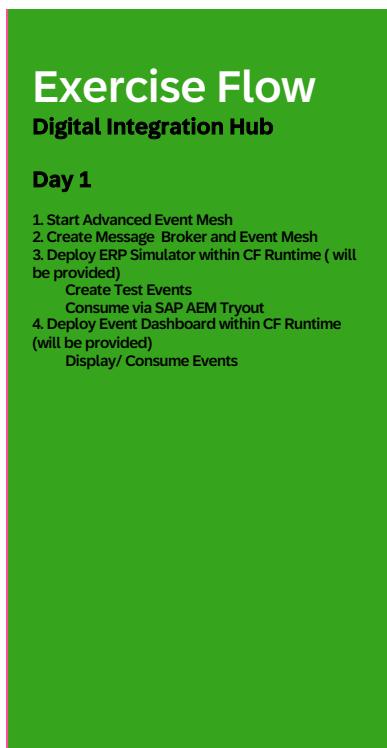


Day 1

1. Start Advanced Event Mesh
2. Create Message Broker and Event Mesh
3. Deploy ERP Simulator within CF Runtime (will be provided)
Create Test Events
Consume via SAP AEM Tryout
4. Deploy Event Dashboard within CF Runtime
(will be provided)
Display/ Consume Events



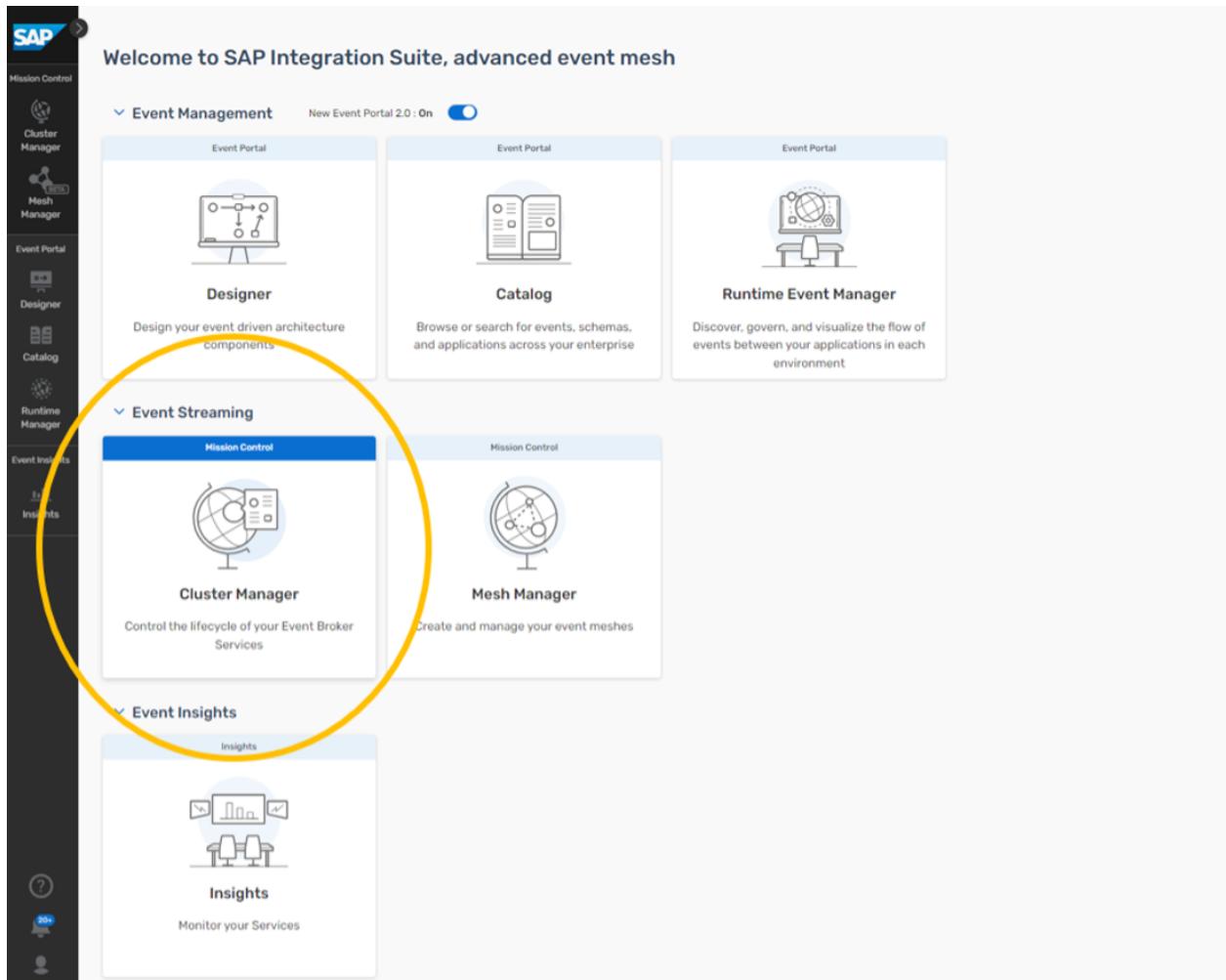
Create AEM Services

In this task, you will be creating two Enterprise AEM services, connecting them to form a mesh and verifying your mesh health.

Before starting, it will be helpful to know what cloud provider and region your SAP environment is in, and the primary cloud provider and region where your cloud applications are deployed. The value of building a mesh topology is realized when placing your AEM services close to your event producing and consuming systems. If your SAP environment is running in an on-premises data center, you will use the geographic region of that site to help select an appropriate location for that AEM service.

Create your first AEM service:

1. From the SAP AEM Console, open the Cluster Manager.



2. Now we will be creating a new AEM service

Depending on which view, you have selected, Graphical or Table based, you will see one of the following views. In either case, you can either select the “Create Service” option on the top right or the big “+” sign at the bottom.

Cluster Manager: Services

Create Service

Cluster Manager: Services

Create Service

Name	State	Cloud Region	Service Class	Owner	Created	Actions
Select All					0 selected	Actions
aws ap1	Running	eks-ap-southeast-1a	Enterprise 250	Christian Holtfurth	7/8/2022	...
cn1	Running	aks-eastasia	Enterprise 250	Christian Holtfurth	7/10/2023	...
aws dan1	Running	eks-eu-central-1a	Standard	Daniel Brunold	5/8/2024	...
eu1	Running	sapdemo-eks-eu-cen...	Enterprise 250	Christian Holtfurth	7/8/2022	...
aws MontrealBroker-10.1	Running	eks-ca-central-1a	Standard	Scott Dillon	11/17/2022	...
aws sa1	Running	eks-af-south-1b	Enterprise 250	Christian Holtfurth	7/10/2023	...
us1	Running	gke-gcp-us-central1-a	Enterprise 250	Christian Holtfurth	7/8/2022	...

All services

- aws ap1 eks-ap-southeast-1a
 - Enterprise 250 Christian Holtfurth
 - Running
- cn1 aks-eastasia
 - Enterprise 250 Christian Holtfurth
 - Running
- aws dan1 eks-eu-central-1a
 - Standard Daniel Brunold
 - Running
- eu1 sapdemo-eks-eu-central-1
 - Enterprise 250 Christian Holtfurth
 - Running
- aws MontrealBroker-10.1 eks-ca-central-1a
 - Standard Scott Dillon
 - Running
- aws sa1 eks-af-south-1b
 - Enterprise 250 Christian Holtfurth
 - Running
- us1 gke-gcp-us-central1-a
 - Enterprise 250 Christian Holtfurth
 - Running

3. Name your service

Service Name *

Note that service names must be unique within your account. We suggest using the mesh name you want, a hyphen, and a service ID to make it unique.

4. Pick Enterprise as the service type.

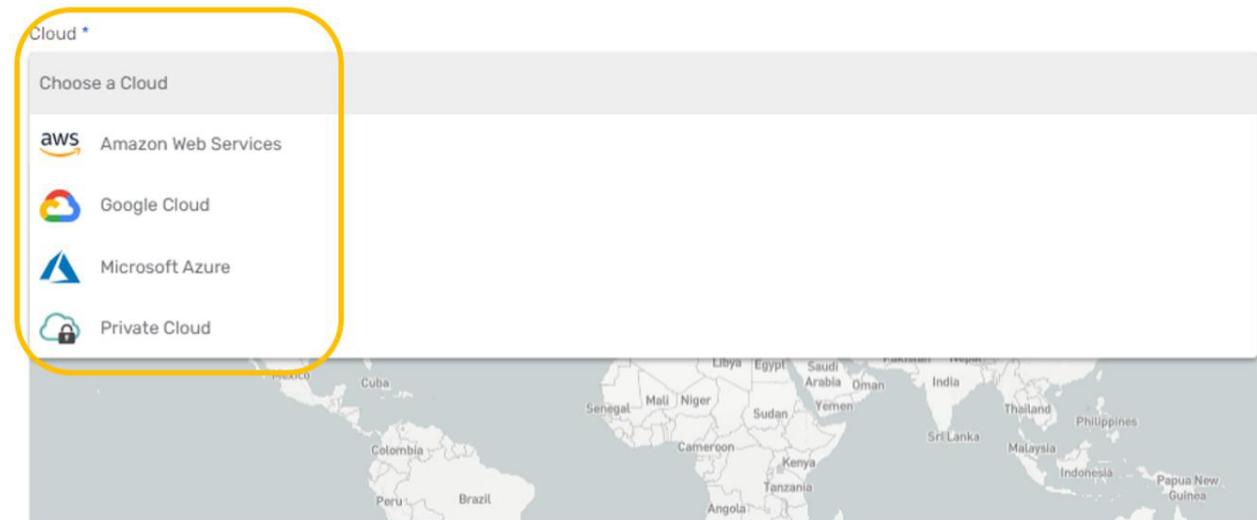
The screenshot shows a configuration form for an AEM service. On the left, there is a vertical blue line with a yellow circle around the 'Enterprise' option, which is selected. To the right of the line, the 'Enterprise' service type is described as 'A full-featured service with the performance and throughput ideal for production.' Below this, there are two input fields: 'Service Class *' containing 'Enterprise 250' and 'Message Storage (GB)' containing '25'. A note below the storage field says 'Enter a value between 10 and 800'.

For now, keep the default service class and message storage settings.

5. Choose your cloud provider from the pull down list.

For the first AEM service, select the same IaaS (Infrastructure as a Service) provider and region where your SAP is running, the RISE provider and region where your SAP Cloud is running, or for an on-premises SAP pick a cloud provider and region closest to where your data center is located.

For the second AEM service, select the same provider and region where your cloud applications are located. If you have several, pick one that is distant from your SAP environment (you can expand your mesh later to include additional cloud locations).



Note that you can also request buildout of a private cloud region on-premises at your data center later, but for now please select the best matching cloud provider.

6. Click the Select Region box inside the map and select your cloud region.

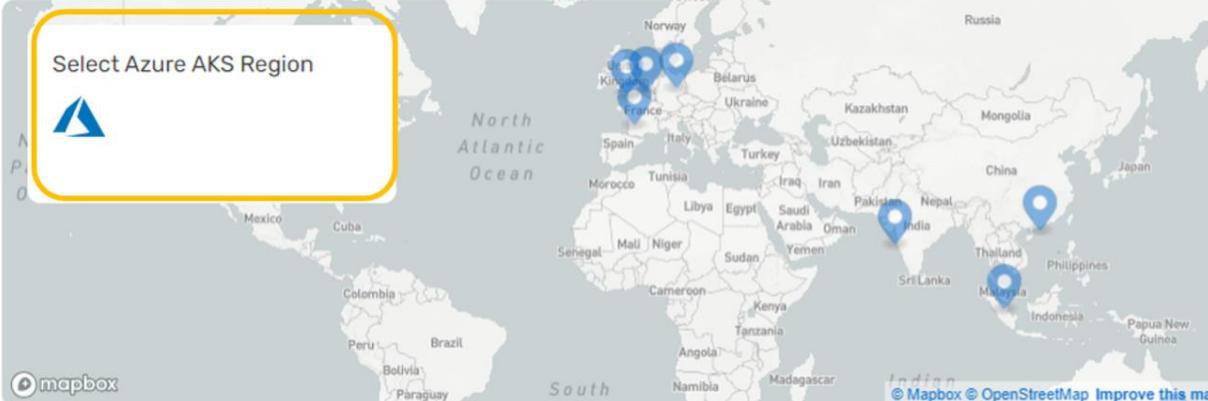
Cloud *

Microsoft Azure

Region *

Select Azure AKS Region

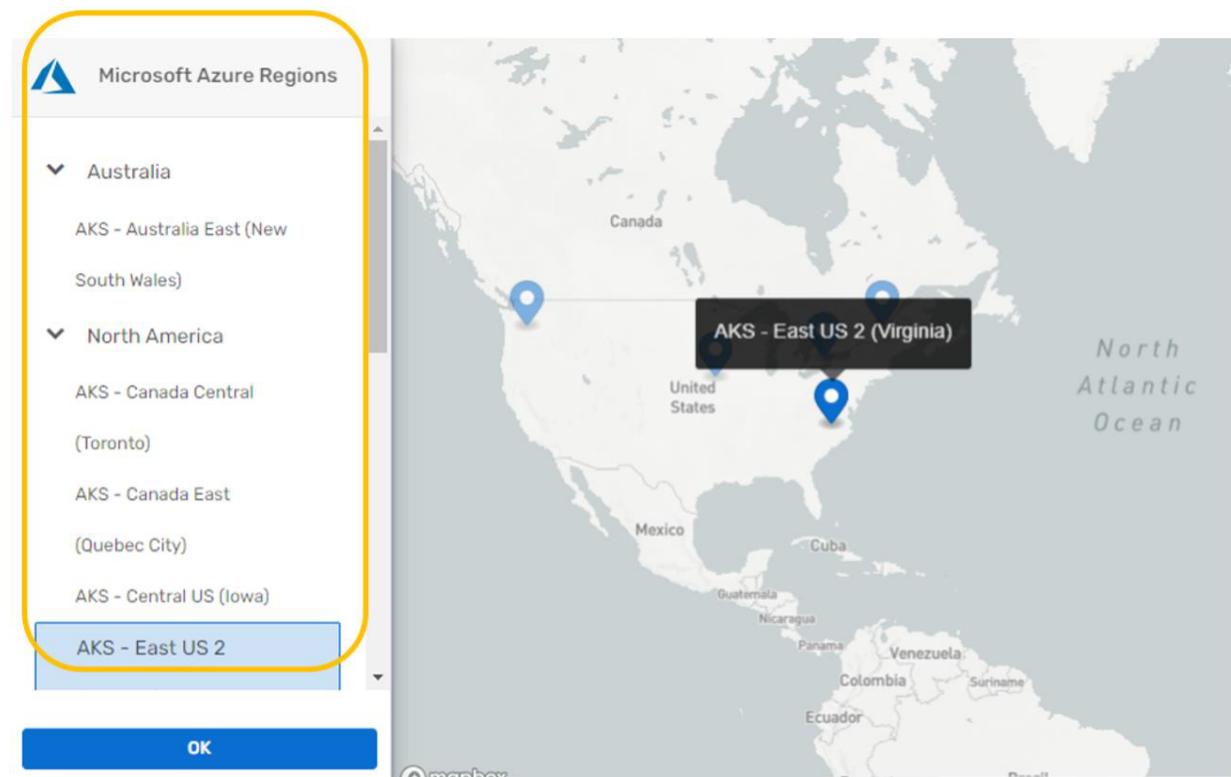




mapbox © Mapbox © OpenStreetMap Improve this map

Don't see the region you need? [Request a Region](#)

This example shows selecting Azure as the provider and East US 2 (Virginia) as the region:



Please substitute your best provider and region as you make your selection and click OK.

7. Keep the Default Broker Version Selection

Broker Version *

10.7.1.56-4



8. Click Create Service to launch your AEM service.

SAP Cluster Manager > Create Service
Create Service

Service Name * MyMesh-Svc1

Cloud * Microsoft Azure

Region * aks-eastus2

Broker Release * 10.7 (Default)

Broker Version * 10.7.1.56-4

Service Type *

Developer (Broker-100) 100 Connections 25 GB Message Storage
A service with the minimum required features, connections, and storage for development.

Enterprise
A full-featured service with the performance and throughput ideal for production.

Service Class * Broker 250

Message Spool Size (GB) 50

Cloud and Region

For more information about choosing a cloud provider, see [Cloud Provider](#)

For more information about the regions available for the selected cloud provider, see [Regions](#)

Service Classes

Each service class has upper limits such as connections, queues, storage. The higher the service class, the higher the limits.

[Learn more about services](#)

Cancel **Create Service**

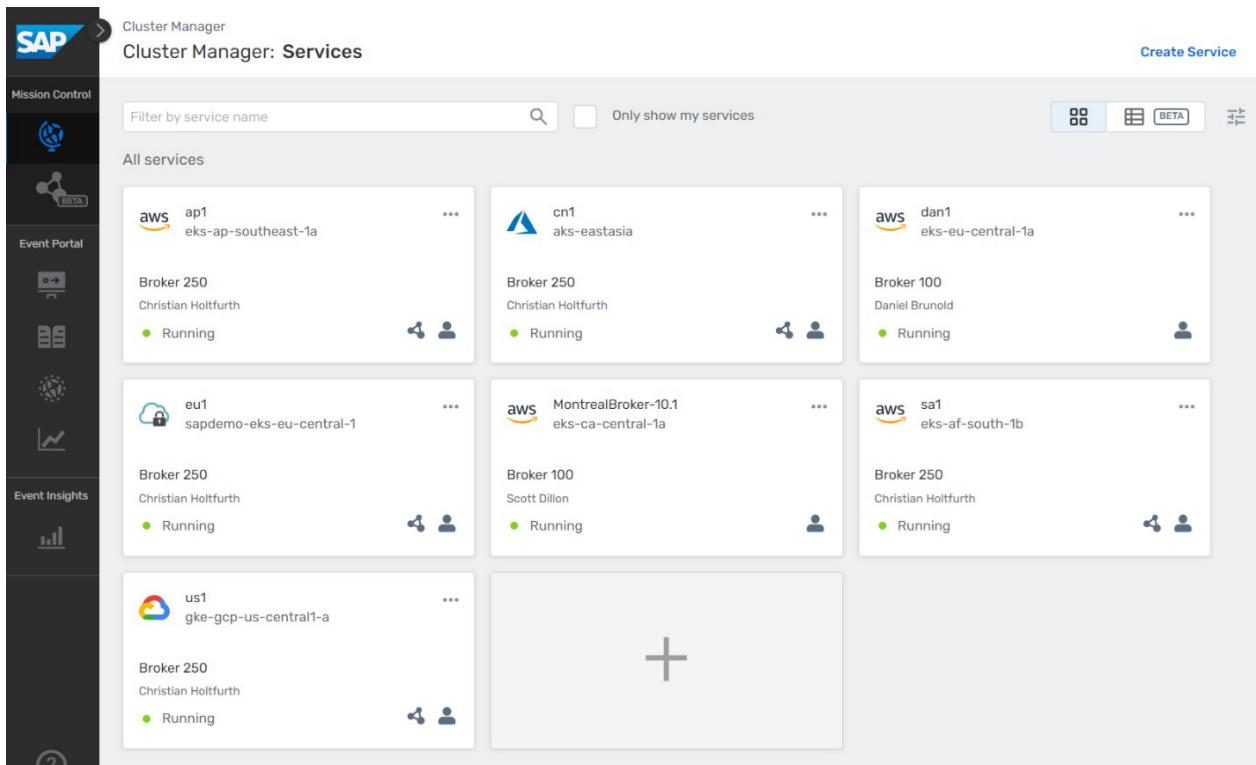
You can proceed with the next step while your first AEM service is starting.

9. Repeat steps 2 through 8 for your second AEM service.
Substitute the name (Svc2) along with the appropriate cloud provider and region.

IMPORTANT - For your second AEM service:

Select a Different Region for the 2nd service (with the same or different cloud provider).

Once the services finish starting up, you should see the 2 services you created and you can click on each of them to see the status.



The screenshot shows the SAP Cluster Manager Services interface. On the left is a vertical sidebar with icons for Mission Control (BETA), Event Portal (BETA), and Event Insights. The main area is titled "Cluster Manager: Services" and has a "Create Service" button in the top right. A search bar and a checkbox for "Only show my services" are also present. The main content area is titled "All services" and displays a grid of service cards. Each card contains the service name, provider, cluster name, owner, status (e.g., Broker 250, Running), and three action icons (ellipsis, share, user). There are two rows of four cards each, plus one empty card at the bottom with a plus sign. The services listed are:

Service Name	Provider	Cluster	Owner	Status
aws ap1	aws	eks-ap-southeast-1a	Christian Holtfurth	Broker 250 Running
cn1	aws	aks-eastasia	Christian Holtfurth	Broker 250 Running
aws dan1	aws	eks-eu-central-1a	Daniel Brundold	Broker 100 Running
eu1	sapdemo-eks-eu-central-1		Christian Holtfurth	Broker 250 Running
aws MontrealBroker-10.1	aws	eks-ca-central-1a	Scott Dillon	Broker 100 Running
aws sa1	aws	eks-af-south-1b	Christian Holtfurth	Broker 250 Running
us1	gke-gcp-us-central1-a		Christian Holtfurth	Broker 250 Running

For example, clicking on our MontrealBroker, provides me with the following view:

From this view, I can see for example that I have 79 SMF connections open.

Question: Do you know what SMF stands for?

The screenshot shows the SAP AEM Solace Broker Manager interface for the broker "MontrealBroker-10.1".

Messaging Activity:

- Active Connections: 79 % (AMQP: 0, MQTT: 0, SMF: 79, REST: 0, Web: 0)
- Guaranteed Messaging Endpoints: 59 % (Queues: 56, Topic Endpoints: 3)
- Queue Usage: 0 % (Messages Queued: 18836, Spool Usage: 0.01 GB)

Availability and Versioning:

- Service State: Running
- Event Broker Service Version: 10.4.1.76-2
- High Availability: Single Node
- Created By: Scott Dillon (scott.dillon@solace.com)
- Service Creation Time: 17 Nov, 2022 21:44:59

DMR Cluster:

Hostname	Cluster Name	Cluster Password
mr-connection-qhgik3f2ezp.messaging.solace.cloud	cluster-eks-ca-central-1a-b59k2gtd2i7	*****
Message VPN montrealbroker-10-1	Primary Router Name developerproductionb59k2gtd2i7solaceprimary0	

Management Access:

- Basic Authentication: Enabled
- LDAP Authentication: Disabled
- SSO Authentication: Disabled

Build an Event Mesh

1. Define a new mesh. From the SAP AEM Console, open the Mesh Manager:

Welcome to SAP Integration Suite, advanced event mesh

Event Management New Event Portal 2.0 : On

- Event Portal**
 - Designer**: Design your event driven architecture components
 - Catalog**: Browse or search for semantic schemas, and applications across your enterprise
 - Runtime Event Manager**: Discover, govern, and visualize the flow of events between your applications in each environment

Event Streaming

- Mission Control**
 - Cluster Manager**: Control the lifecycle of your Event Broker Services
 - Mesh Manager**: Create and manage your event meshes

Event Insights

- Insights**: Monitor your Services

Click the Create Mesh

BETA Mesh Manager

Mesh Manager: Event Meshes

Create Mesh

SAP Global Mesh

- All 10 link(s) are Up
- Services (5) us1, ap1, cn1, sa1, + 1 more
- Last Sync Time Apr 17, 2024 09:37
- Creation Time Jul 08, 2022 07:08

Sort by Creation Date

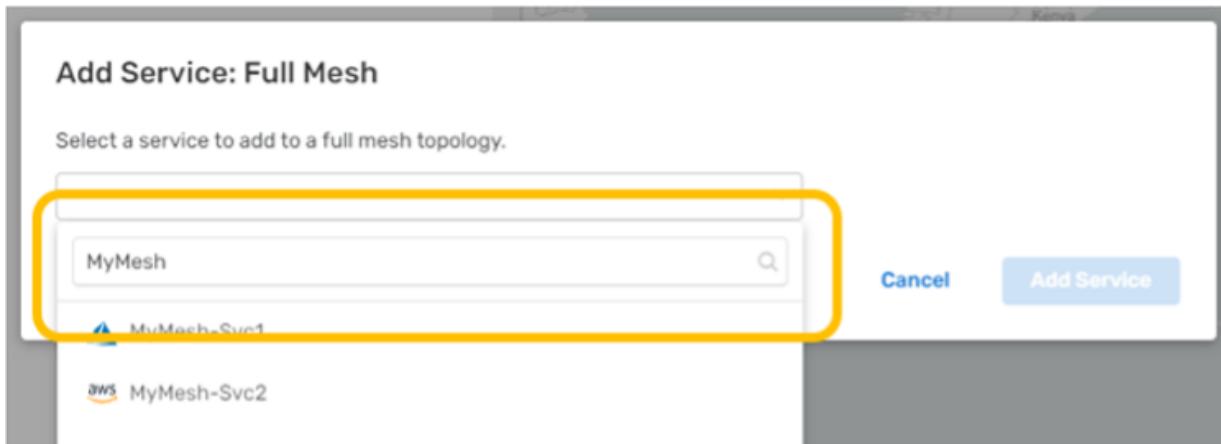
Enter the same mesh name used when defining your AEM services.

Mesh Name *

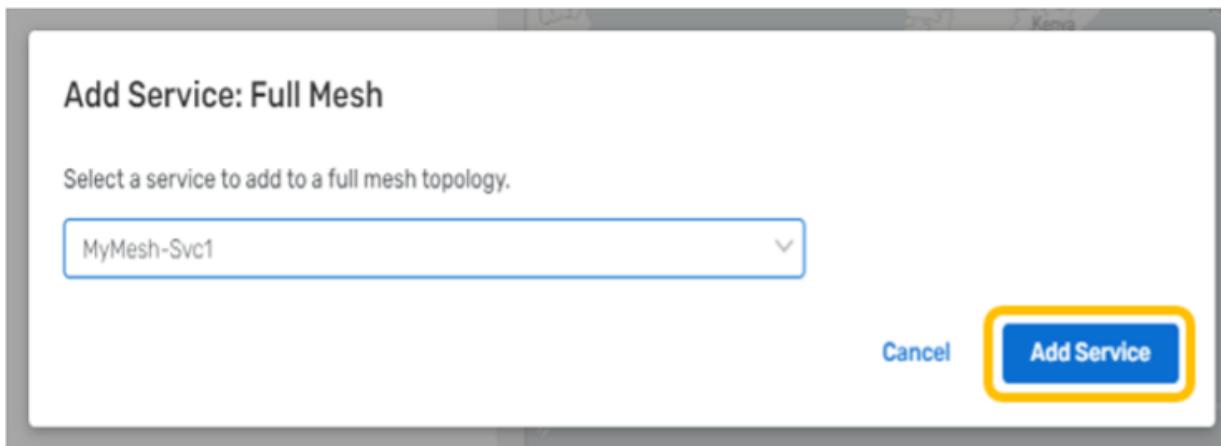
MyMesh

2. Add your AEM services to the mesh.

Click Add Service, then use the pull down search box to find and select your first service



Click Add Service in the dialog to complete the action:



Click Add Service again and add your second service.

Mesh Name *

MyMesh

Topology Type

Full Mesh

Services in Mesh (1)

Add Service

! This mesh is not valid with only one service.

 MyMesh-Svc1
AKS - East US 2 (Virginia)

...

Add Service: Full Mesh

Select a service to add to a full mesh topology.

MyMesh-Svc2



Links To Service (1)

Initiating Service

Remote Service

Remote Service Endpoint

 MyMesh-Svc2



 MyMesh-Svc1

Public Endpoint



Cancel

Add Service

Mesh Name *
MyMesh

Topology Type
Full Mesh

Services in Mesh (2)

- MyMesh-Svc1
AKS - East US 2 (Virginia)
- MyMesh-Svc2
EKS - US West (Oregon)

Add Service

MyMesh

- Health check in progress
- ⌚ Creating Event Mesh

MyMesh

- All 1 link(s) are Up

Services (2)	MyMesh-Svc2, MyMesh-Svc1
Last Sync Time	Oct 03, 2023 13:27
Creation Time	Oct 03, 2023 13:27

3. **(Optional)** Run a health check on your event mesh. From the Mesh Manager, click on your event mesh to open the status page :

MyMesh

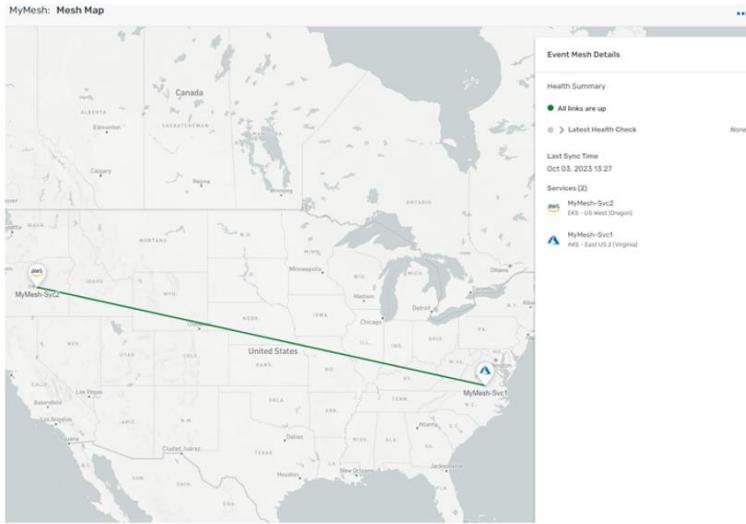
All 1 link(s) are Up

Services (2) MyMesh-Svc2, MyMesh-Svc1

Last Sync Time Oct 03, 2023 13:27

Creation Time Oct 03, 2023 13:27

A map of North America showing the locations of two mesh services. MyMesh-Svc2 is marked with a yellow circle in the western United States, and MyMesh-Svc1 is marked with a blue triangle in the eastern United States. A green line connects the two service points.



Expand the Latest Health Check and click Run Health Check action:

Event Mesh Details

Health Summary

- All links are up
-  Latest Health Check
Status

None

The traffic flow across the mesh has never been checked.

[Run Health Check](#)

Last Sync Time

Oct 03, 2023 13:27

Services (2)

 MyMesh-Svc2
EKS - US West (Oregon)

 MyMesh-Svc1
AKS - East US 2 (Virginia)

The health check progress is shown, followed by the health check status:

Event Mesh Health Check

This process tests that traffic properly passes between the various services in your mesh. During this test, each service is pinged twice. The time for each link represents the round-trip time for each ping to occur.



Setting up the health check

[Close](#)

Event Mesh Health Check

This process tests that traffic properly passes between the various services in your mesh. During this test, each service is pinged twice. The time for each link represents the round-trip time for each ping to occur.

› MyMesh-Svc1

[Success](#)

› MyMesh-Svc2

[Success](#)

[Close](#)