

Rapid Pilot Program v2

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Goals

- Clarity on how to achieve a core clean with BTP and Event Driven Architecture
- Understand how to building extensions with using EDA approach
- Understand the benefits of an Enterprise Event Mesh?
- Understand how to make your ERP environment an active participant in your business
- Understand what it means to be event driven and the potential business outcomes

Your hosts



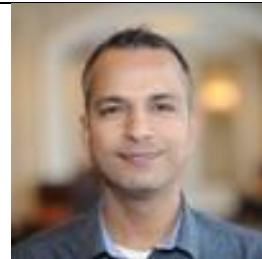
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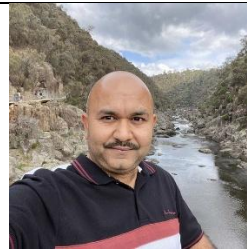
John Adegbile
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Director of EDA Solutions
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Director of EDA Solutions
(SAP), APJ and ME

Prerequisites

You will need the following resources prior to the commencement of the workshop :

1. CPEA Contract in place
2. Approximately 5K of CPEA credits available to activate 2 AEM brokers for 4 weeks
 - Please refer to the following link to activate the service should you need assistance : [Enable AEM in BTP](#)
3. SAP Build Process Automation (Free Tier Available)
 - Access to SAP WorkZone
4. Access to Integration Suite (Free Tier Available)
 - Integration Suite Activated prior to the workshop
5. A BTP Resource who has the appropriate authorizations to activate/use the relevant BTP Services. (E.g. Advanced Event Mesh, SAP Bus. Process Automation and Integration Suite)
6. SAP Build Process Automation – a resource who is familiar with Building Processes/Workflows
7. Integration Suite – a resource who is familiar with building iFlows and has the necessary authorizations to deploy new artifacts

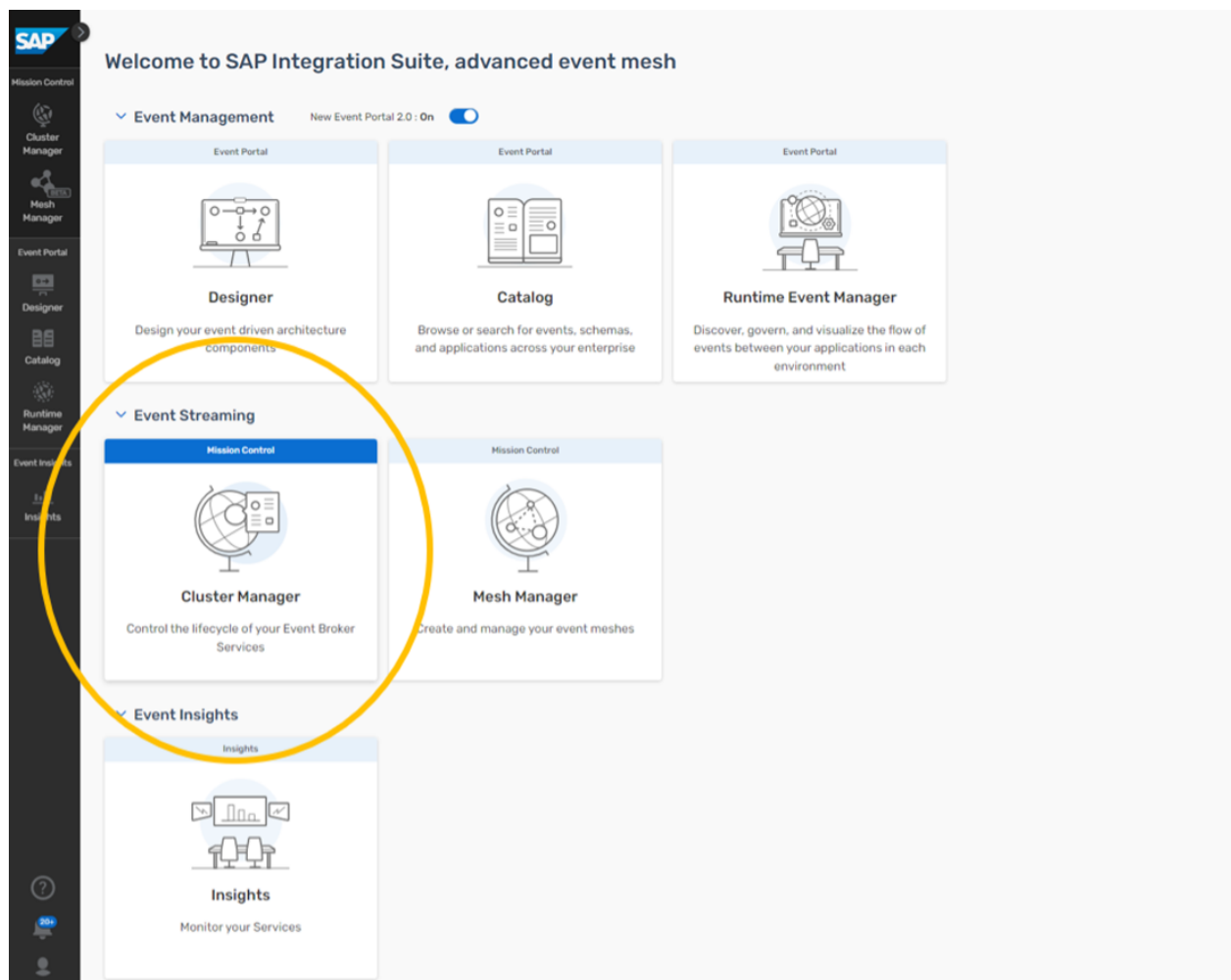
Create AEM Services

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
Cluster Manager: Services

Filter by service name ☐ Only show my services

Create Service

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

Cluster Manager
Cluster Manager: Services

Filter by service name ☐ Only show my services

Create Service

All services

ap1
eks-ap-southeast-1a
Enterprise 250
Christian Holtfurth
Running

cn1
aks-eastasia
Enterprise 250
Christian Holtfurth
Running

dan1
eks-eu-central-1a
Standard
Daniel Brunold
Running

eu1
sapdemo-eks-eu-central-1
Enterprise 250
Christian Holtfurth
Running

MontrealBroker-10.1
eks-ca-central-1a
Standard
Scott Dillon
Running

sa1
eks-af-south-1b
Enterprise 250
Christian Holtfurth
Running

us1
gke-gcp-us-central1-a
Enterprise 250
Christian Holtfurth
Running

+

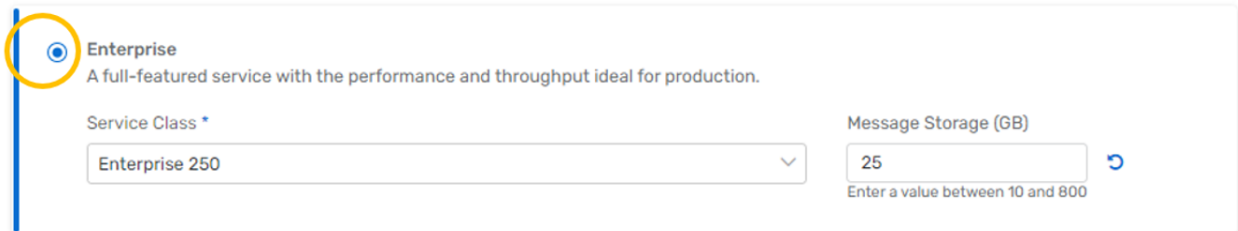
3. Name your service

Service Name *

MyMesh-Svc1

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.

- Pick Enterprise as the service type.

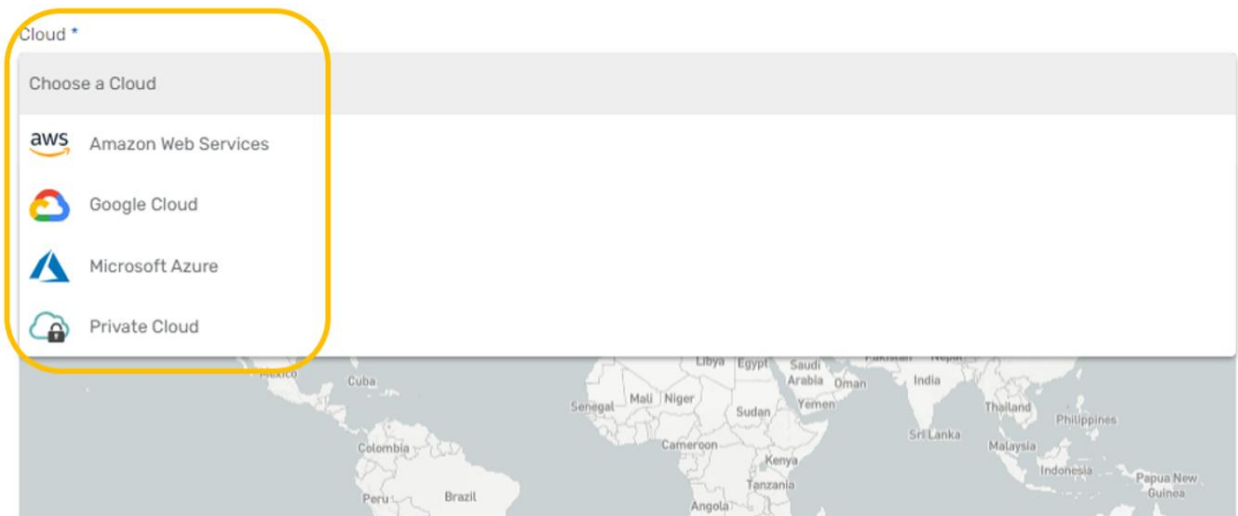


For now, keep the default service class and message storage settings.

- Choose your cloud provider from the pull down list.

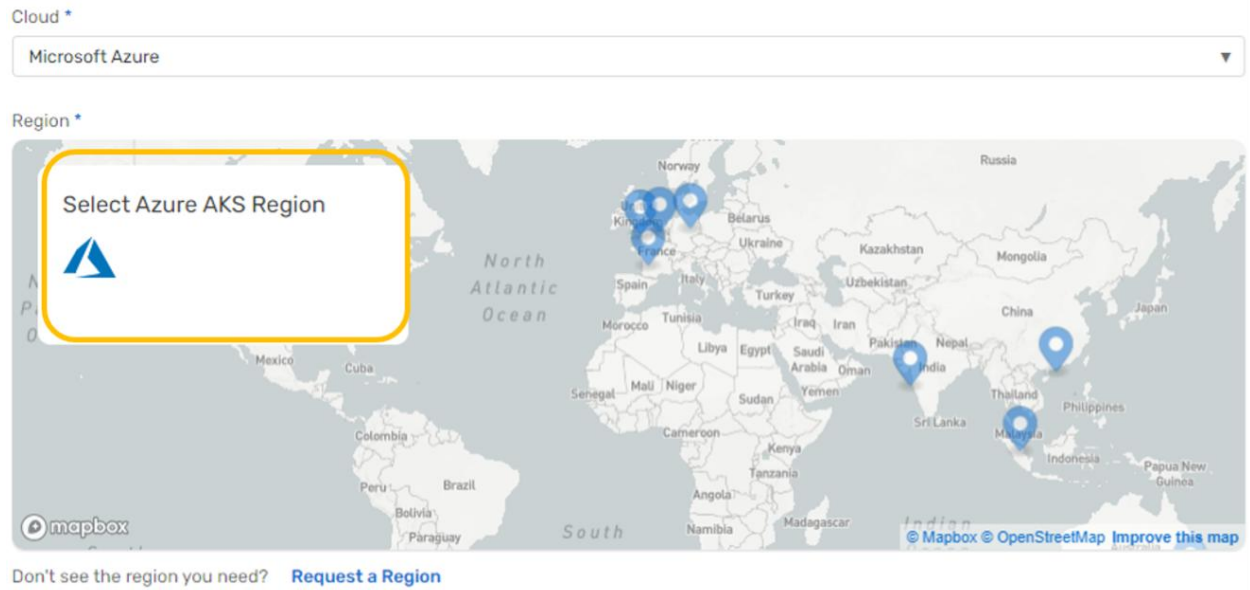
For the first AEM service, select the same IaaS (Infrastructure as a Service) provider and region where your SAP is running, the RISE provider and region where your SAP Cloud is running, or for an on-premises SAP pick a cloud provider and region closest to where your data center is located.

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).

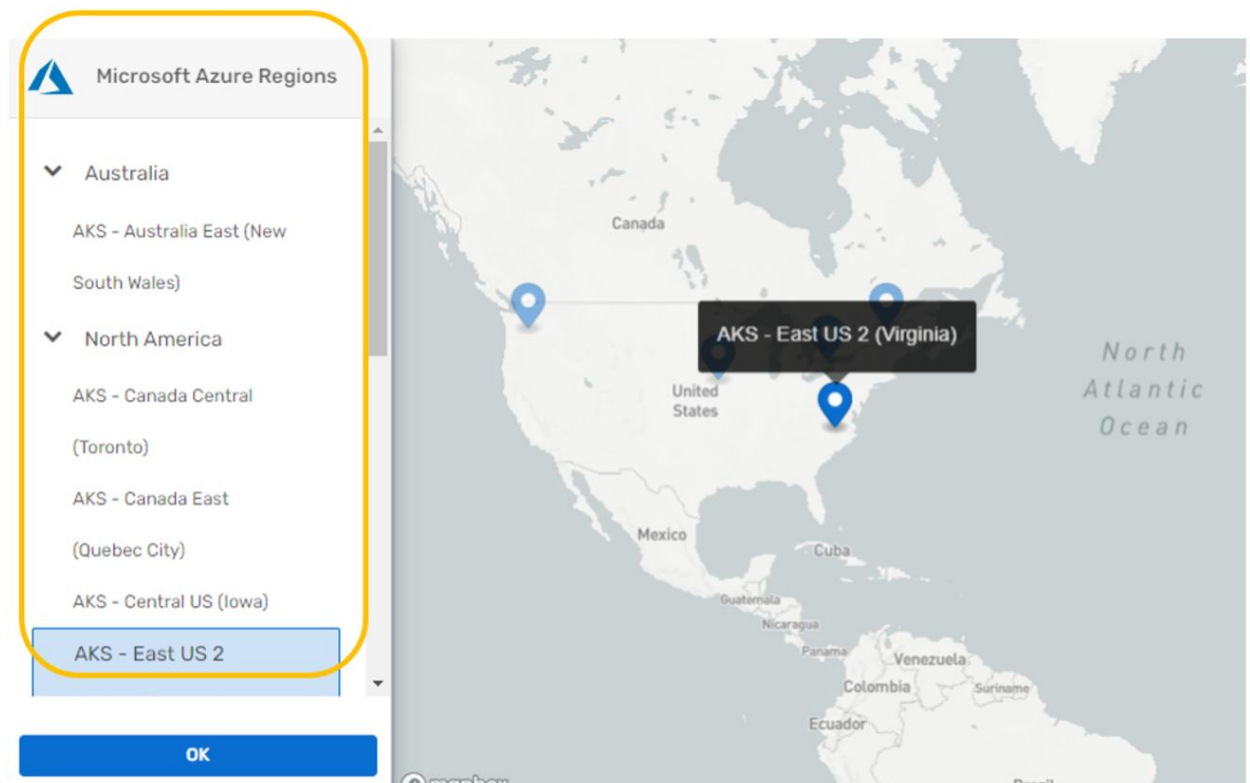


Note that you can also request buildout of a private cloud region on-premises at your data center later, but for now please select the best matching cloud provider.

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

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

> Advanced Connection Options

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

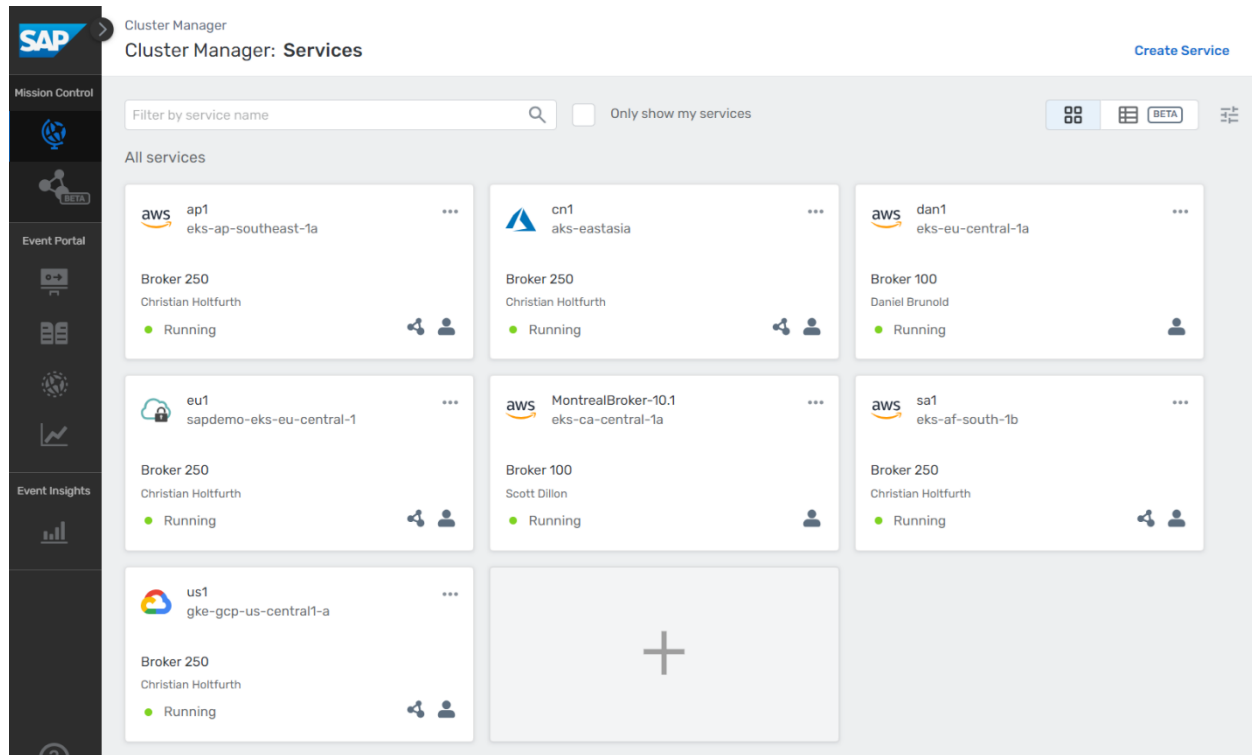
You can proceed with the next step while your first AEM service is starting.

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).

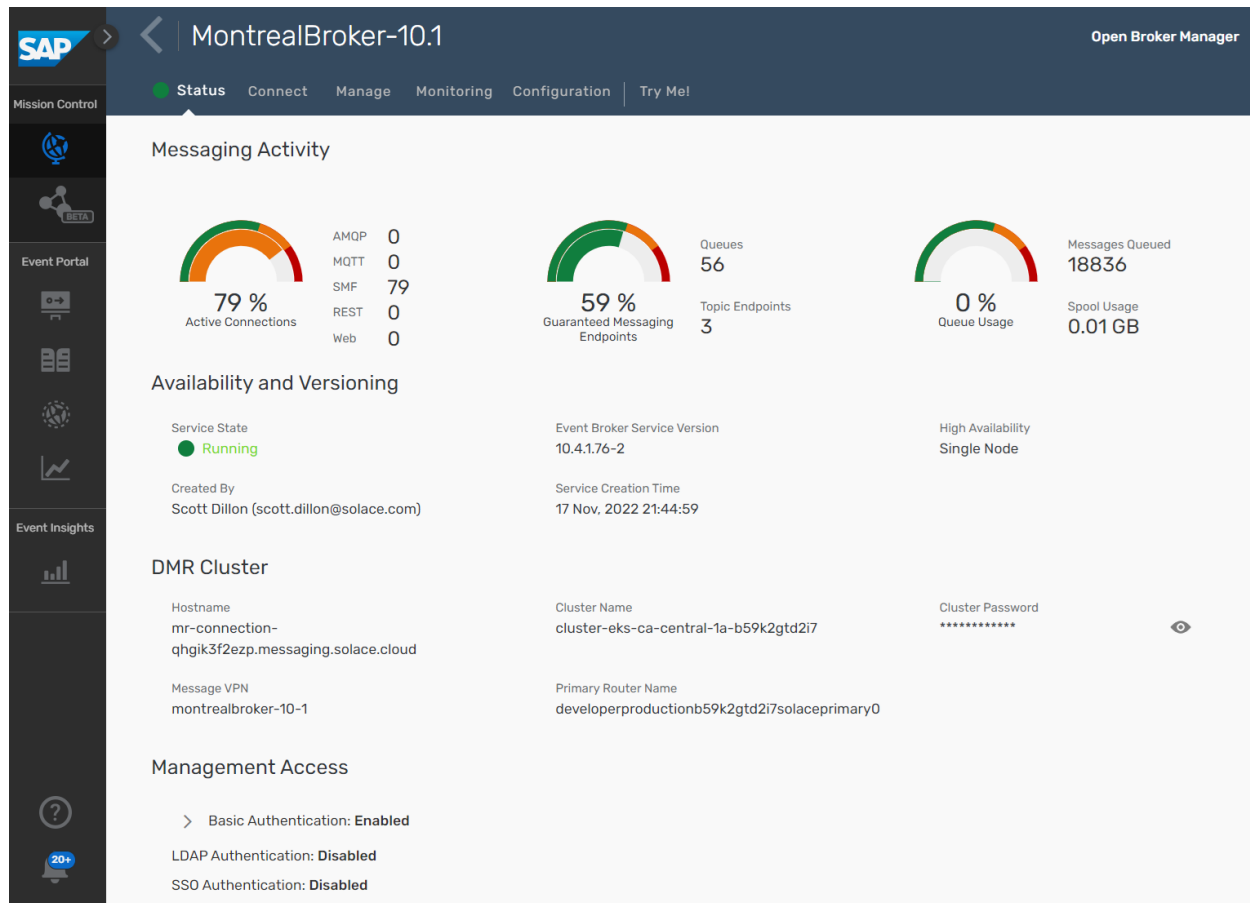
Once the services finish starting up, you should see the 2 services you created and you can click on each of them to see the status.



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

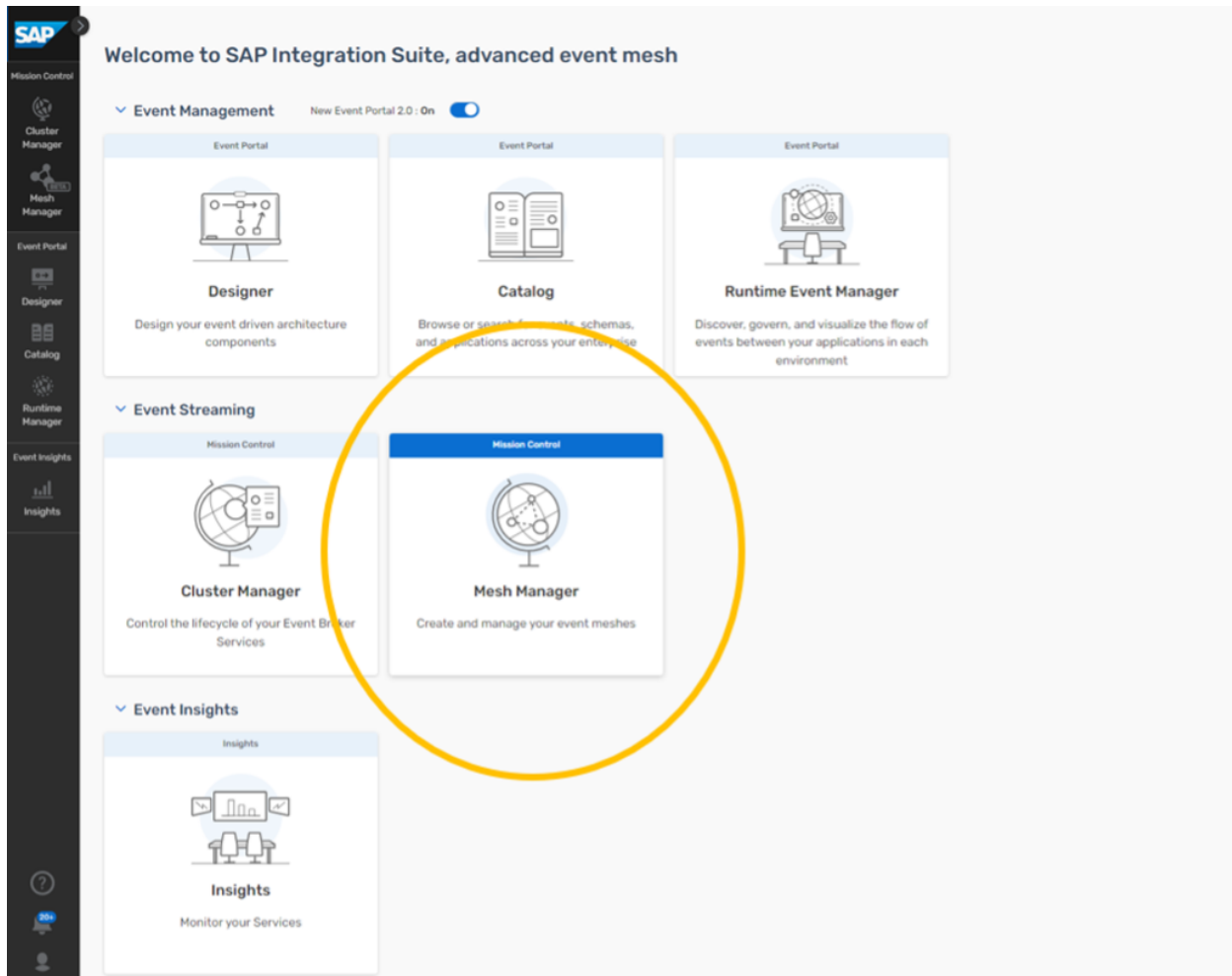
From this view, I can see for example that I have 79 SMF connections open.

Question: Do you know what SMF stands for?

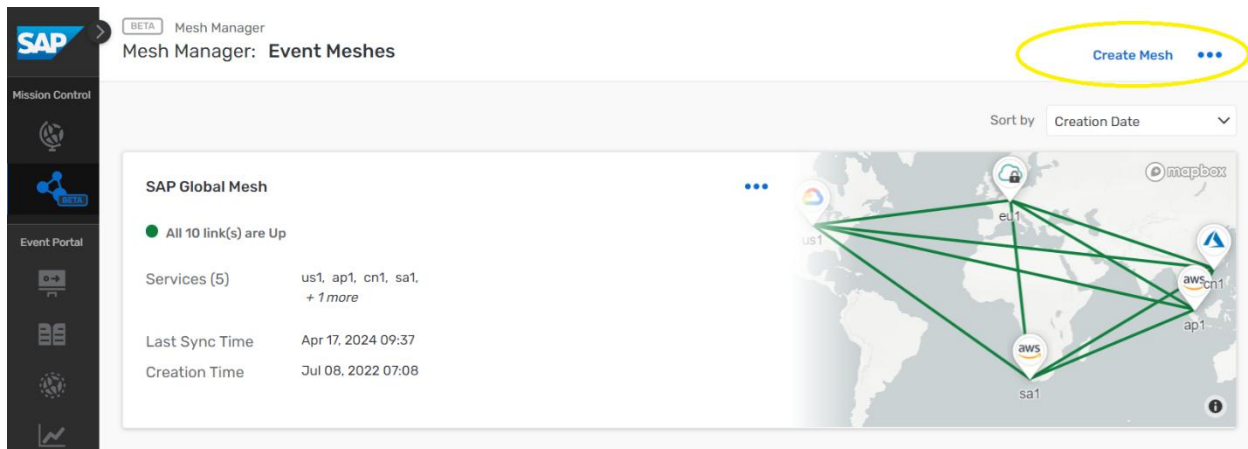


Build an Event Mesh

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



Click the Create Mesh



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

Add Service: Full Mesh

Select a service to add to a full mesh topology.

MyMesh

MyMesh-Svc1

MyMesh-Svc2

Cancel Add Service

Click Add Service in the dialog to complete the action:

Add Service: Full Mesh

Select a service to add to a full mesh topology.

MyMesh-Svc1

Cancel Add Service

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

RPPv2 - Day 1



Mesh Name *

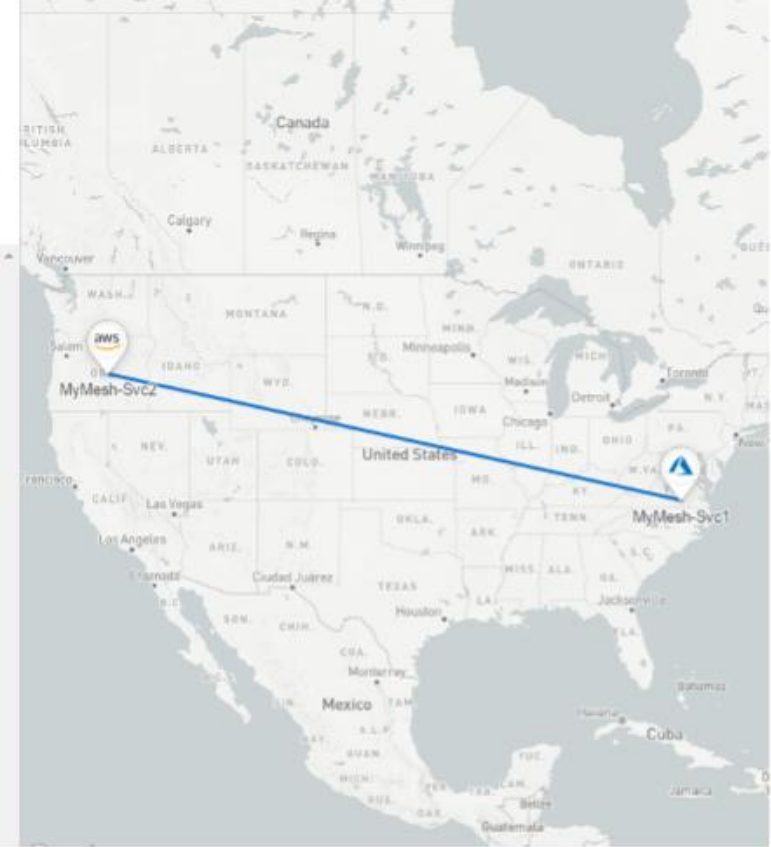
MyMesh

Topology Type

Full Mesh


Services in Mesh (2) Add Service


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



MyMesh

● Health check in progress

 Creating Event Mesh



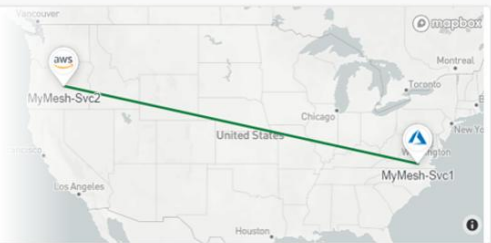
MyMesh ...

● All 1 link(s) are Up

Services (2) MyMesh-Svc2, MyMesh-Svc1

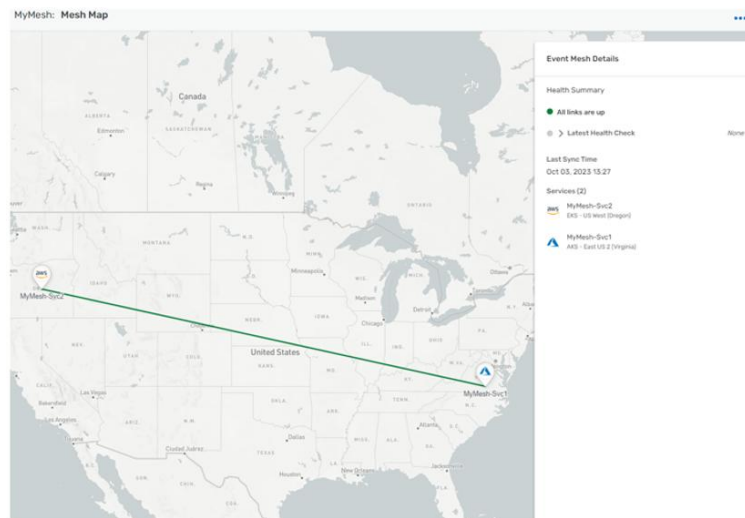
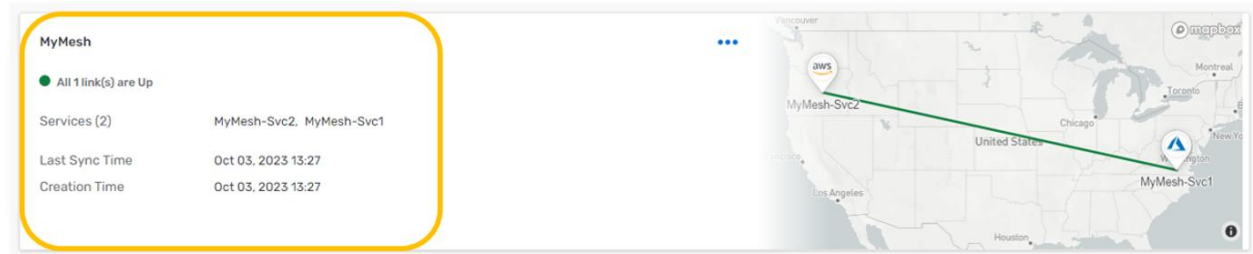
Last Sync Time Oct 03, 2023 13:27

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 :

RPPv2 - Day 1



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

Event Mesh Details

Health Summary

● All links are up

▼ Latest Health Check *None*
Status

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