

ABAP SDK Implementation guide for Azure Event hubs

https://github.com/Microsoft/ABAP-SDK-for-Azure

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What is Azure Event hub?

Stream millions of events per second

Azure Event Hubs is a hyper-scale telemetry ingestion service which collects, transforms and stores millions of events. As a distributed streaming platform, it gives you low latency and configurable time retention, which enables you to ingress massive amounts of telemetry into the cloud and read the data from multiple applications using publish-subscribe semantics.

For more details on Azure Event hubs, visit Microsoft Azure Event hub

Prerequisites

Make sure you have installed ABAP SDK for Azure in your SAP system. Refer document 'ABAP SDK for Azure – Github' for more details.

How to setup Event hub in Azure?

Login to Microsoft Azure portal.

Note: If you do not have an account already. please create a new Azure account. You can start free

Once you are logged into portal, chose push button '+' on the left to create a new Azure service.

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()	Linux Virtual Machines IZ Provision Ubuntu, Red Hat, CentOS, SUSE, CoreOS VMs	Personalized guidance and support when issues in Azure services affect you. Learn more 亿
& 1	App Service 12 Create Web Apps using .NET, Java, Node.js, Python, PHP	
1215 2011	Functions IP Process events with a serverless code architecture	Marketplace
•	SQL Database [2] Managed relational SQL Database as a Service	



Search for Event hubs and Select "Event Hubs' with Microsoft as publisher.

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*	AI + Machine Learning	RedPoint Data Management™		RedPoint Global Inc.	Compute		
-	Internet of Things						
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Now choose the Create push button to create new event hub instance in your subscription.



Event Hubs	5			* 🗖
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Use Event Hubs to:				
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Create				

Provide appropriate values in the fields and hit push button Create



Preview	Microsoft Azure		Report a bug	${\cal P}$ Search resources, se	rvices,
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+	Create Event Hubs Namespace				×
Ξ	Event Hubs Namespaces are logical containers for your Event	Hubs. Learn more			^
_*-	NAMESPACE DETAILS				
	Name	ABAPSDKKDEMO-EH		~	
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This should create a new Event Hub. This might take some time, so please wait until it is created successfully. You can check status in **Notifications.**

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:= - * 		▼ Filter		×	Azure Event Hubs is a higf per second and stream th massive amounts of data Use Event Hubs to: • Log millions of eve • Connect devices u	Deployment 'AB 'RG_ABAPSDKDI	ent succeede APSDKKDEMO- EMO' was succe	d 2:37 PM EH' to resource group ssful.
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Once it is successfully created, navigate to your Event Hub either by selecting from Navigations pane or from Home screen.

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You can see multiple options in Azure Event Hubs. We are not discussing each of them in detail in this document. Please visit <u>Microsoft Azure Website</u> for more details.

Once you have entered your Event Hubs Namespace. Now you must create a new Event Hub Entity by selecting **Event Hub** under entities.

Preview	Microsoft Azure			Report a bug	${\cal P}$ Search resources, services, and docs	×Q	\$ O	01	nakurmad@microsoft
»	Home > ABAPSDKKDEMO-EH - Overview > AB								
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Create a new Event Hub with appropriate name like 'SAPEvents'. You can choose any name of your choise and **Create**.

We would post messages from our SAP system to this eventhub.

Preview	Microsoft Azure	Report a bug	${\cal P}$ Search resources, services, and docs	×
»	Home > ABAPSDKKDEMO-EH - Overview > ABAPSDKKDEMO-EH - Event Hubs > Create Event Hub			
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This will now create a new Event Hub in your Event Hubs namespace.

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Once you are done with creating Event Hub. Now you must create Shared access Policy. By Default, you will have policy **'RootManageSharedAccessKey'** which will have complete access to Read, Write and Manage. In case you want to restrict users to only Read and Write, create your own policy accordingly.

Note: We will use the SAS key of this policy to access Azure Event Hub from SAP through HTTPS protocol.

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Once you select the policy, this will display SAS keys that will be used to Authenticate Azure Event Hub. These are secret keys and not to be shared with anyone.



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With this we are ready with the setup process in Azure portal. We will now configure and code in SAP system to send data from SAP system directly to Azure Event Hub.

How to send data from SAP to Azure Event hub?

Creation of RFC destination to Azure Event hub

Go to transaction SM59 in your SAP system and create new RFC destination of type 'G'. Maintain your Event hubs namespace endpoint in the Target host and Event Hub name in path prefix as shown below.

Target host: <Eventhub Namespace>.servicebus.windows.net

Port: 443

Path Prefix: /<Eventhub name>/messages



RFC Destinatio	on AZURE ABAPSDKKDEMO-EH
Connection Test	
RFC Destination	AZURE ABAPSDKKDEMO-EH
	G HTTP Connection to External Serv Description
Description	
Description 1	Connection to Azure Event Hub 'ABAPSDKKDEMO-EH'
Description 2	
Description 3	
Administration	Technical Settings Logon & Security Special Options
Target System Setti	ngs
Target Host	ABAPSDKKDEMO-EH.servicebus.windows.net Service No. 443
Path Prefix	/sapevents/messages
HTTP Proxy Options	
Global Configurat	ion
Proxy Host	
Proxy Service	
Proxy User	
Proxy PW Status	is initial
Proxy Password	******

Now go to 'Logon & Security' tab and choose radio button SSL 'Active' and select SSL certificate 'DFAULT SSL Client (Standard)'.



RFC Destination AZURE_ABAPSDKKDEMO-	EH
Connection Test 🍄	
RFC Destination AZURE_ABAPSDKKDEMO-EH Connection Type G HTTP Connection to External Serv Description] Description
Description 1 Connection to Azure Event Hub 'ABAPSDKKD Description 2 Description 3 Control Con	EMO-EH'
Logon With User	
Do Not Use a User Basic Authentication User PW Status is initial	
Logon with Ticket Do Not Send Logon Ticket Send Logon Ticket Without Target System Reference Send Assertion Ticket for Dedicated Target System System ID Client	
Security Options Status of Secure Protocol SSL Inactive SSL Certificate DFAULT SSL Client (Standard)	▼ Cert. List
Authorization for Destination	

Do a connection test to make sure it is working. A popup might appear asking for user name and password, select Cancel button. Even if you get 401 Not authorized error, do not worry. you are still good and your RFC destination setup is complete.

Connection Tes	t HTTP De	estination AZURE_ABAPSDKKDEMO-EH
Destination AZU	RE_ABAPSDKKD	DEMO-EH
Ty. HTT	Connection to	o External Server
Test Result Res	oonse Header F	Fields Response Body Response Text
Detail	Value	
Status HTTP Response	401	
Status Text	Unauthorized	
Duration Test Call	2368 ms	

STRUST Setup

We need to import Microsoft's Certificate and import in STRUST for SSL handshake between SAP system and Azure Eventhub over HTTPS protocol. To download the certificate, in your browser, go to URL with the hostname and path prefix you used for creating RFC destination.

https://abapsdkkdemo-eh.servicebus.windows.net/sapevents/messages

https://abapsdikidemo-e x	Θ	-	٥	×
← → C e Secure https://abapsdk.demo-eh.servicebus.windows.net/sapevents/messages		☆ 🛛		+
This XML file does not appear to have any style information associated with it. The document tree is shown below.				
<pre>v <error></error></pre>	5/29/2018	3 4:57:35	5 PM	

Click on the Lock symbol you find next to refresh button in Chrome browser and select **Certificate** to view the certificate used for communication

	Microsoft
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https://ab	apsdkkdemo-el ×		Θ	-	٥	×	:
← → C	Secure https://abapsdkkdemo-eh.servicebus.	windows.net/sapevents/messages		☆	<i>J.</i>	4	:
This XML fi	Connection is secure	sociated with it. The document tree is shown below.					_
▼ <error> <code>40: ▼<detail> Missing <td>Your information (for example, passwords or credit card numbers) is private when it is sent to this site. Learn more</td><td> TrackingId:03829d23-6422-45de-a7b2-dc266984b0c5_010, SystemTracker:abapsdkkdemo-eh.servicebus.windows.net:sapevents/messages, Timestamp:5/ </td><td>/29/201</td><td>8 4:5</td><td>7:35 PM</td><td>1</td><td></td></detail></code></error>	Your information (for example, passwords or credit card numbers) is private when it is sent to this site. Learn more	 TrackingId:03829d23-6422-45de-a7b2-dc266984b0c5_010, SystemTracker:abapsdkkdemo-eh.servicebus.windows.net:sapevents/messages, Timestamp:5/ 	/29/201	8 4:5	7:35 PM	1	
	Certificate (Valid)						
	Cookies (0 in use) Show certificate (issued	by Microsoft IT TLS CA 5)					
	Site settings						

⊕ Type here to search	Ū.	([])	е		8	0	P	w	9	۶	P	Ş	я ⁹	^	90	((, 句))	10:41 PM 5/29/2018	21

In the certificate, go to Details tab and Choose button '**Copy to File'** to download the certificate to your local machine. Repeat the process and download all the certificate until root. In this case, you need to download three certificates.

- 1. Servicebus.windows.net
- 2. Microsoft IT TLS CA 5
- 3. DigiCert Baltimore Root

Certificate X	Certificate	X Certificate X
General Details Certification Path	General Details Certification Path	General Details Certification Path
Certificate Information This certificate is intended for the following purpose(s): - Ensures the identity of a remote computer - Prove your identity to a remote computer - Microsoft IT CPS	Show: CAI> Field Value Version V3 Serial number 2d0002213b234a203fd977afd Signature also algorithm sha2565	Certification gath
* Refer to the certification authority's statement for details. Issued to: servicebus.windows.net	Issuer Microsoft IT IS CA 5, Microson Valid from Friday, February 23, 2018 2:2 Valid to Sunday, February 23, 2020 2: Subtact servicebus windows net	
Issued by: Microsoft IT TLS CA 5		View Certificate
Valid from 2/23/2018 to 2/23/2020		Certificate gtatus: This certificate is OK.
Issuer Statement	Edit Properties Copy to File	
OK	ОК	ОК

when all the certificates are downloaded, Go to STRUST transaction in your SAP system and Import all these certificates in DFAULT PSE.

Note: We are not going through the process of Importing certificates in STRUST in this document. It is straight forward, and your BASIS team can help you to do this activity.



Configuration

ABAP SDK has following main configuration tables and they need to be maintained. We will create a new Interface ID to establish connection between SAP system and target Azure Event Hub. A new Interface ID needs to be created for each Event Hub namespace.

Note: Currently all these Configurations tables must be maintained manually using SM30. We are developing a new Graphical Interface to simplify the configuration steps. This will be released with next versions. Keeping looking for Updates.

ZREST_CONFIG – Master Table for Interface ID Maintenance. You must define a new Interface name and maintain the RFC destination that was created for target Event hub.

ZREST_CONF_MISC – This is an Interface Miscellaneous table which contains information on Alerts and re-processing of failed messages automatically.

ZADF_CONFIG – This is an Interface extension table. This stores data that is more specific to Azure Services like SAS keys, AAD secrets and processing Method.

ZADF_EHUB_POLICY – This is Event hub specific table that stores Azure Event hub policy details that shall be used during communication.

ZREST_CONFIG

Create a new Interface ID like 'DEMO_EHUB' and Maintain the RFC destination you created earlier.

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-	Change V	/iew "Configure Interface URI Destination": Overview	
6	🌶 🕄 New	Entries 🗈 🖶 🖙 🕃 🖡	
	Configure Inte	erface URI Destination	
	Inter ID	RFC Destination	
	DEMO_EHUB	AZURE_ABAPSDKKDEMO-EH	
		· · · · · · · · · · · · · · · · · · ·	

ZREST_CONF_MISC

Create an entry in table 'ZREST_CONF_MISC' for the above interface Id 'DEMO_EHUB'.

Details of configuration:

- METHOD is 'POST'.
- MAX_RETRY is number of retry in case of service failure.
- EMAIL_ID is the email id for sending alerts.
- MAIL_BODY_TXT is Text Id to be maintained for the mail content.
- RETRY_METHOD is type of retrial (Regular '0' or exponential '1')



Table ZREST_CONF_MISC Display MANDT \$00 INTERFACE ID DEMO_EHUB METHOD POST MAX RETRY 2 EMAIL ID nakurmad@microsoft.com MAIL BODY TXT ERROR WHILE SENDING MESSAGE TO EVENTHUB RETRY METHOD 0

ZADF_CONFIG

Create an entry in table 'ZADF_CONFIG' for the above interface Id 'DEMO_EHUB'.

Details of configuration:

- INTERFACE_TYPE is 'EVENTHUB.
- SAS_KEY is the shared access key. This you can retrieve from Azure portal. Check page 10 of this document. Primary key is the SAS key. Every time you generate a new SAS key in portal, you need to change in this config table.
- URI is left blank. This may be required for future versions.
- SERVICE_TYPE can be synchronous(S) or asynchronous(A)
- IS_TRY is a reprocessing flag, maintain as blank or 'X'. it can be configured for reprocessing in case of failure of services.

Table ZADF_	CONFIG Display
MANDT	300
INTERFACE ID	DEMO_EHUB
INTERFACE TYPE	EVENTHUB
SAS KEY	****
URI	
SERVICE TYPE	S
IS TRY	X



ZADF_EHUB_POLICY

You need to maintain the policy name that you have created in Azure portal in this config table. This is required to generate token for authentication with Azure Event hubs. Refer Page 10 of this document to get the policy name. Azure creates default policy 'RootManageSharedAccessKey', but if you had created your own policy, then maintain that policy name here.

Table ZAD	F_EHUB_POLICY Display
MANDT INTERFACE ID	BOO DEMO_EHUB
POLICY	RootManageSharedAccessKey

DEMO Program

Please refer to DEMO program **'ZADF_DEMO_AZURE_EVENTHUB'** to send sample data from your SAP system to Azure Event hub.

View sent data in Azure Eventhub

To view data in Azure Event hub, Install Service bus explorer

You can get more details on How to setup Service Bus explorer in MSDN Blog

ABAP SDK Monitor

We have provided an Interface Monitor (Transaction ZREST_UTIL), using this monitor you can view history of all the messages that were posted to Azure Services. Incase you have a scheduled a background job to post messages to Azure, you can view the statuses of the messages in this monitor. This Monitor can be used for troubleshooting and re-processing of the message as well.

Go to transaction ZREST_UTIL and provide your Interface ID in the selection screen and execute to view all the messages



Monitor				
Ø				
Interface ID		to		(
Stores Execution Date Stores execution time Stores Completed Date Stores Completed time	05/31/2018 00:00:00 00:00:00	to 0 to 0 to 0 to 0	5/31/2018 0:00:00 0:00:00	
Http Status Message Id Business Identifier	000000000000000000000000000000000000000	to 0 to 0 to	000000000000000000000000000000000000000	

In this monitor, you can view the status of the HTTPs message and its headers, response, payload and so on. In case of errors, you can also re-process the message from this tool.

Screen								
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Exception Co	orelation Id	Operation Status Httpstatu	is Execution dat	e Execution Time	Completed	date Completed time T	me-ms	Retry [
	000000000000000000000000000000000000000	POST Created 201	05/30/2018	23:51:37	05/30/2018	3 23:51:38	547	05/30/
	[×				
	Group description	Cell Content						
	Operation	POST						
	Status	Created		_				
	Httpstatus	201		_				
	Execution date	05/30/2018						
	Execution Time	23:51:37						
	Completed date	05/30/2018						
	Completed time	23:51:38		_				
	Time-ms	547						
	Retry Date	05/30/2018						
	Retry Attempt	001						
	Retry Time	23:51:38						
	Host ABAPSDKKDEMO-EH.servicebus.windows.net			t i				
	URI	/sapevents/messages						
	Interface Id	DEMO_EHUB						
	Calling Program	ZCL_ADF_SERVICE						
	Calling Method	SEND		_				
	User Alias	NAKURMAD						



Auto re-processing of failed messages

For auto-processing of messages in case of failures, you must schedule a background job for program 'ZREST_SCHEDULER' as a pre-requisite.