

AWS Connector for SAP

ABSTRACT

Installation Guide



AWS CONNECTOR FOR SAP

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REVISIONES

Versión	Autor	Fecha
v1.0	Linke – Gerard Lagalina	01/05/2019



Prerequisites

To run AWS Connector in your SAP system, following prerequisites should be met:

- SAP Netweaver 7.0 or higher (SAP_BASIS 700 0028 SAPKB70028)
- SAP Kernel release 720 or higher
- SAP Cryptolib properly installed
- System configured properly to run ABAP Webdynpros (check OSS note 1088717 and mind the host file)
- ICM Services HTTP and HTTPS configured and active
- Connectivity to the Internet (either directly or through a Proxy properly configured).
- To install the add-on, a user with enough privileges (please read Authorizations).

Actions to do in AWS

CloudFormation.

First step is download the CloudFormation Template from this link:

```
https://s3-eu-west-
```

```
1.amazonaws.com/docs.linkeit.com/repo/awsconnector/AWSConnectorCloudformation.yam
```

Go to the CloudFormation services on AWS console and press the Create stack Button.

CloudFormation $ imes$	CloudFormation > Stacks		
<mark>Stacks</mark> StackSets Exports	Stacks (27) Q. Filter by stack name		C Delete Update Stack actions Create stack
Designer	Stack name	Status	Created time V Description
Previous console			

In prepare template select the option "Template is ready".

in specify template menu, select the "upload a template file" and chose the yaml file downloaded previously.

Specify template	
Step 2 Specify stack details	Prerequisite - Prepare template
Step 3 Configure stack options	Prepare template Every stack is based on a template. A template is a JSON or YAML file that contains configuration information about the AWS resources you want to include in the stack. Image: Template is ready Image: Use a sample template Image: Control of template is ready Image: Control of template is control of template
Step 4 Review	
	A template is a JSON or YAML file that describes your stack's resources and properties. Template source Selecting a template generates an Amazon S3 URL where it will be stored.
	Amazon S3 URL Upload a template file
	Upload a template file Choose file AWSConnectorCloudformation.yaml JSON or VAML formatted file
	S3 URL: https://s3-eu-west-1.amazonaws.com/cf-templates-9wzpjo0j5mh7-eu-west-1/2019288M0C-AWSConnectorCloudform View in ation.yaml Designer
	Cancel Next

In specify stack details menu, insert name "AWSConnectorCloudFormation" in field stack name.

CloudFormation > Stacks >	Create stack
Step 1 Specify template	Specify stack details
Step 2 Specify stack details	Stack name
Step 3 Configure stack options	Stack name AWSConnectorCloudFormation Stack name can include letters (A-2 and a-2), numbers (0-9), and dashes (-).

In parameters menu, insert SAP SID value (only lowercase and numbers).

Review	
	Parameters
	Parameters are defined in your template and allow you to input custom values when you create or update a stack.
	Policy Details
	AW/Sconnector Policy Name
	Instance Policy for AWSConnector
	AWSConnector_policy
	User Details
	AWS Connector User Name
	If you don't want to create AWS Connector user, please, enter an existing IAM User.
	AWSConnector
	Do you want to create the AWS Connector User?
	Create AWS Connector default User.
	true 🗸
	Server that will use AWS Connector
	SAD SID
	(Only lowercase and numbers)
	SAP SID
	(Only lowercase and numbers)
	SAP SID
	(Only lowercase and numbers)



Add one tag with these values:

Key = Product

Value = AWSConnector

pecify template	Configure stack options		
ecify stack details	Tags You can specify tags (key-value pairs) to apply to resources in your	stack. You can add up to 50 unique tags for each stack. Learn more.	
tep 3 onfigure stack options	Product	AWSConnector	Remove
	Кеу	Value	Remove
tep 4 Review	Add tag		
	Permissions	eate, modify, or delete resources in the stack. If you don't choose a ro	le, CloudFormation uses permissions
	based on your user credentials. Learn more.		
	based on your user credentials. Learn more.	erformed on the stack.	

In Review AWSConnectorCloudFormation step, check the option "I acknowledge that AWS CloudFormation might create IAM resources with custom names.".

Press "create stack" button.

Stack creation options
Rollback on failure Enabled
Timeout -
Termination protection
Disabled
Inis template contains identity and Access Management (IAM) resources. Lineck that you want to create each of these resources and that they have the minimum required permissions. In addition, they have custom names. Check that the custom names are unique within your AWS account. Learn more.
Cancel Previous Create change set Create stack

When the stack is created successfully a screen similar to this will be displayed.

CloudFormation > Stacks >	AWSCon	nectorCloudFormation			
		Delete Update Stack actions	Create	stack	
Stacks (27) C		Stack info Events Resources	Outputs F	Parameters Template Change sets	
Active	•				
View nested < 1	>	Overview			C
		Stack ID		Description	
	0	arn:aws:cloudformation:eu-west- 1:742189430206:stack/AWSConr 7b0-ea83-11e9-852d-06bacc45a	nation/af594	IAM Permissions for AWS Connector CloudFormation	
	0	Status		Status reason -	
		Root stack		Parent stack	
	_	-		-	
2019-10-09 12:58:11 UTC+0200	•	Created time		Deleted time	
CREATE_COMPLETE		2019-10-09 12:58:11 UTC+0200		-	
	0	Updated time -			
		Drift status		Last drift check time	
		⊖ NOT_CHECKED			

In Outputs menu, you can see the AccessKey and the SecretKey. These keys should be used later in credentials tab on AWS Connector management transaction.

WSConnector(CloudFor	mation				
Delete Update	Stack action	s 🔻 Ci	eate stack			
Stack info Events	Resources	Outputs	Parameters	Template	Change sets	5
Outputs (2)						C
Q Search outputs						0
Key 🔺 Value			⊽ Desci	ription	∇	Export name 🔻
AccessKey			Acces	s Key for AWSCo	nnector User	-
SocratKay			Secre	t Key for AWSCo	nnector User	_



Actions to do in SAP.

Download Add-on.

Download Add-on from this link: <u>https://s3-eu-west-</u> 1.amazonaws.com/docs.linkeit.com/repo/awsconnector/D040020760607_0000016.PAT

Logon to client 000.

Installation of AWS Connector must be done in client 000.

SAINT.

Go to transaction SAINT.

Add-On Installation Tool - Version 7.40/0071

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EA-FIN	617	0006	EA-FIN	(
EA-FINSERV	600	0027	SAP Enterprise Extension Financial Services	(
EA-GLTRADE	600	0026	SAP Enterprise Extension Global Trade	(
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Installation Package menu -> Load package -> From Application Server.

Autor: Linke – Gerard Lagalina Revisión: v1.0



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the pop up that appears press the yes button.

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- Choose [STAF	RT] to start an ins	allation or	an upgrade				
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Or also the add-on can be install from Frontend. Installation Package menu -> Load package -> From Front end.

Load packages From Front End From Application Server Exit Shift+F3 From Application Server Add-On Installation Tool - Version 7.40/0071 Image: Server Add-On Installation Add-On Installation Tool - Version 7.40/0071 Image: Server Add-On Installation Add-On Installation Tool - Version 7.40/0071 Image: Server Add-On Installation Add-On Installation Tool : Installed Add-ons Installed Components Uninstallable components Add-on/PCS Release Level Add-On Assembly Kit Import clip EA-APPL 617 0006 AOFTOOLS 500_740 0000 Add-On Sasembly Kit Import clip EA-APPL 617 0006 EA-FIN
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Select the .car/.sar file.

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Add-on/PCS Release Level Description Import clim AOFTOOLS 500_740 0000 Add-On Assembly Kit (* EA-APPL 617 0006 SAP Enterprise Extension PLM, SCM, Financials (* EA-DFPS 600 0026 SAP Enterprise Extension Defense Forces & Public Security (* EA-FIN 617 0006 EA-FIN (* EA-FINSERV 600 0027 SAP Enterprise Extension Financial Services (* EA-GLTRADE 600 0026 SAP Enterprise Extension Global Trade (* EA-HR 600 0109 SAP Enterprise Extension HR (* EA-HRCAR 600 0109 Sub component EA-HRCAR of EA-HR (* Status/Remarks - - * >		ients Uninsta	liable com	bonents	
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EA-HRCAR 600 0109 Sub component EA-HRCAR of EA-HR (~ Status/Remarks The overview shows you the installed Add-ons and Preconfigured systems - Choose [START] to start an installation or an upgrade Back Start Cancel	EA-HR	600	0109	SAP Enterprise Extension HR	(^
Status/Remarks	EA-HRCAR	600	0109	Sub component EA-HRCAR of EA-HR	(~
Status/Remarks					· · /
Status/Remarks I The overview shows you the installed Add-ons and Preconfigured systems - Choose [START] to start an installation or an upgrade Back Start Cancel	CI I /D I				
The overview shows you the installed Add-ons and Preconfigured systems Choose [START] to start an installation or an upgrade Back Start Cancel	Status/Remarks				
- Choose [START] to start an installation or an upgrade		v snows you the in	istalled Add	o-ons and Precontigured systems	
Back Start Cancel	- Choose [STAR	 to start an inst 	tallation or	an upgrade	
Back Start Cancel					
Back Start Cancel					
Back Start Cancel					
	Back		art		Cancel
	Duck				Curroot



If the add-on is not displayed on screen, you must press the load button.

Add-On Installation Tool - Version 7.40/0071

	Add-On	Installation Tool: PCS package selection	n
Installable PCS pac	kages in the Syster	n	
PCS	Release	Description	Package type 👔
		No fitting Installation Packages are available	^
			× ×
			^
			¥
		< >	< >
Status/Remarks			
i Select a packa	age from the instal	lable PCS packages	
- Choose [CONT	INUE] to start the	calculation of the installation queue	
- Choose [BACK]] to go back to the	overview of the installed Add-ons	
- Choose [LOAD] to load additional	packages from the application server	
Γ			
🗧 Back	📑 Conti	nue 😪 Load Screen 1 /	4 😢 Cancel
1			
	<u></u>		

Press the yes button.

Add-On Installation Tool: PCS package selection Installable PCS packages in the System PCS Release Description Package type
Add-On Installation Tool: PCS package selection Installable PCS packages in the System PCS Release Description Package type III
Installable PCS packages in the System PCS Release Description Package type III
PCS Release Description Package type
No fitting Installation Packages are available
SAINT: Confirm upload
The EPS inbox is located under the following
path: /usr/sap/trans/EPS/in
Do you want to upload OCS Packages from the EPS
inbox?
Status/Remarks Yes No
i Select a package from the installable PCS packages
- Choose [CONTINUE] to start the calculation of the installation queue
- Choose [BACK] to go back to the overview of the installed Add-ons
- Choose [LOAD] to load additional packages from the application server
🗧 Back 🕞 Continue 😪 Load Screen 1 / 4 😢 Cancel

Once loaded the add-on, press the continue button

Add-On Installation Tool - Version 7.40/0071

ाstallable Add-on	packages for your	ack XML file	
Add-On	Release	Description	Package type
LNKAWS	100_740	LNKAWS 100_740: Add-On Installation	Installation
			(
		< >	< >
Status/Pomarks			
	coveral packages f	rom the installable Add on packages	
- Choose [CON	Thoe start the		
) to go back to the	node of the installed Add-ons	
- Choose [LOAL			



Press the continue button.

In	stallation of several Ac	ld-ons : S	upport Package selectio	n
Installation queue	Support Package selection			
Software Comp.	Target Support Package	Level	Calculated Package	Level
LNKAWS		¥	SAPK-174COINLNKAWS	0000
SAP_BASIS		×		
SAP_ABA		¥		
SAP_GWFND		×		
SAP_UI		×		
PI_BASIS		×		
ST-PI		~		
SAP_BW		~		
Status/Pemarks				
i You can extend	the installation queue with further	Support Packa	Indes	
- Choose the rea	uired target Support Package for ea	ch component	.9	
- Choose [CONTI	NUE] to start the calculation of the	extended insta	llation queue	
- Choose [BACK]	to go back to the Add-on selection			
- The tab nade "I	e Installation queue" displays the preli	minary installa	tion queue	

Press the continue button.

Add-On Installatio	on Tool - Version 7.4	0/0071			
e H 🧃 🚺					
I	Installation of sever	al Add-ons : Calcula	ited queue		
Installation queue	Software Components				
OCS packages for imp	ort				
OCS Package	Package type	Software Component	Release	Short description	
SAPK-174COINLNKAWS	Installation	LNKAWS	100_740	LNKAWS 100_74(^	•
				~	•
				~	•
				~	•
				< >	
Status/Remarks					_
i The displayed pack	ages must be imported when i	installing the Add-on			
- You have not select	ed any further Support Packag	les			
- Choose [CONTINUE]] to add Modification Adjustme	nt Transports to the queue			
- Choose [BACK] to g	o back to the Support Package	e selection			
_					
Back	🔓 Continue	Logs	Screen 3 / 6	😢 Cancel	



In the displayed pop up, press yes button. Add-On Installation Tool - Version 7.40/0071

Press continue button.

Add-On Installati	ion Tool - Version	7.40/0071		
A. H. 🛐 i				
Installation queue	callation of seven Selection of adjustmen	ral Add-ons: Add a ttmsp.	djustment transpo	orts
	^			
Adjustment transp	ort Check Result	Short Description		
				~
				< >
Status/Remarks				
🔶 There are no Moo	dification Adjustment Tran	sports available		
- Choose [SEARCH]	to search for Modification	Adjustment Transports		
- Choose [CONTINU	JE] to import the complete	e queue		
- Choose [BACK] to	go back to the queue cal	culation		
E Back	Continue	M Search	Screen 4 / 6	😢 Cancel



In the displayed pop up, press the Ok button.

Inst	allation of several Add-ons : Import of the queue	<u>.</u>
AINT: Add-on installation		×
The Add-On LNKA	NS rel.100_740 is being installed.	
To avoid alread with Add-On Ins	' known problems, read SAP Note 1843158 "Known Pro /Upgr in SAP NW 7.40 AS ABAP".	oblems 👻
The installatio the individual	queue is imported using the following start option	ions for
Preparation: Import 1: Import 2: Clean Up:	 Start in dialog Continue in dialog Continue in dialog Continue in dialog 	~
	6-3 Note Start optio	ns 🛐 😵



Press finish button.

Add-On Installation	n Tool - Version 7.40	0/0071		
I	Installation of seve	ral Add-ons : Import	ed queue	
Installation queue	Software Components			
Imported OCS packages	5			
OCS Package	Package type	Software Component	Release	Short description
SAPK-174COINLNKAWS	Installation	LNKAWS	100_740	LNKAWS 100_74(^
				×
				v
	< >			< >
Status/Remarks				
i The Add-on was succ	cessfully imported with the di	splayed queue		
- Choose [LOGS] to dis	play the import logs			
- Choose [FINISH] to c	omplete the installation			
E Rock	D Einich		Scroop 6 / 6	Cancol
			Screen 0 / 0	Calicei

In the sending the runtime analysis pop-up, you can press the display button or do not send button.

Add-On Installation Tool - Version 7.40/0071
🔄 Sending the runtime analysis
The import of the OCS queue was successfully finished!
During the import of the OCS queue, data about the import process were collected. This data can be sent to SAP with your permission.
o Choose "Send" to open a feedback form with the runtime analysis data in a local browser window. You can use this form to send data to SAP.
O Choose "Display" to display the runtime analysis first and then send the feedback form in a local browser window.
o Choose "Do not send" to leave this dialog without sending the runtime analysis data.
Send Bo Display OD not send
Back Finish Logs Screen 6 / 6 Cancel

Check HTTPS service.

Ensure HTTP and HTTPS services are existing and active. Go to transaction **SMICM**.

🖙 🕑 List Edit	Goto Administration	Settings	System	Help
	<u>T</u> race File Tr <u>a</u> ce Level) 🖶	H H	₺ ₺ ₽ ₽ ₽ ₽ ₽
ICM Monitor of S	Parameters	• 00		
🕄 🔂 💽 😪 Re	<u>S</u> tatistics <u>M</u> emory Pipes	, -	λ Σ	,⁄9 🗗 🗈 🗑 🔩 🎟 🕾 🖓 🚺 🖊 ◀ 🕅
	Host Name Buffer	•		
ICM Status: Restart After E	S <u>e</u> rvices Shift+F1	L	00	
Trace Level (0-	Connections	•		
Created Worker '	<u>R</u> elease Notes FS) / () / 500 (Current / Peak / Maximum)
Queue Entries U	HTTP Plug-In	• 2 /	6000 (Current / Peak / Maximum)
	<u>B</u> ack F3	3		

ICM Monitor - Service Displa	у					
9 🖸 🖪 🖪 🏛 🛪 🗙	Σ 🗶 🝸 🔁 🗴	🎫 🔮 🚝 🚺 🖊 ┥				
Active Services						
No. Protocol	Service Name/Port	Host Name M	Keep Alive Pr	coc.Timeo Actv	External Bind	ACL File

STRUST

First run of /LNKAWS/AWS_STRUST.

The system must be configured to add to STRUST in SSL client the AWS certificates.

This is automatically done with transaction /LNKAWS/AWS_STRUST. A preparation must be done priori running /LNKAWS/AWS_STRUST. Run transaction SM69.

If the operating system is Linux:

Create a new command:

0	~].	« 🗏 🔇	😣 😂 🖶 H H	1111	<mark>?</mark> *			
Extern	External Operating System Commands							
3								
■Type	Command name	Op.system	External program	Parameters of external program	Additional Trace	Created By	Date	Time
SAP	ARCAUTO	ANYOS	arcauto		x	SAP	07.08.1995	11:12:1 ^
SAP	BACKUP_HISTORY	ANYOS	sddb6his		х	SAP	08.11.1996	15:12:5 -
SAP	BRARCHIVE	ANYOS	brarchive		x	SAP	02.08.1995	18:23:5
SAP	BRBACKUP	ANYOS	brbackup		х	SAP	02.08.1995	18:24:0
SAP	BRCONNECT	ANYOS	brconnect		Х	SAP	25.07.2000	19:07:5
C+D	DDTOOLO	110/00	1 A A		v .	04D		46.07.4

OpenSSL.

Command Command Name ZOPENSSL Operating System Linux Type Create and Last Change
Command ZOPENSSL Operating System Linux Type Image: Command Last Change
Command Name ZOPENSSL Operating System Linux Type Image: Common set of the
Operating System Linux Type Create and Last Change
Type
Create and Last Change
Created By
Last Changed By 00:00:00 00:00:00 00:00:00
Definition
Operating System Command Openss Parameters for Operating System Command
Additional Parameters Allowed
Check Module



Wget.

Create an External Con	nmand	
Command		
Command Name	ZWGET	
Operating System	Linux	
Туре		
Create and Last Change		
Created By		
		00:00:00
Last Changed By		
		00:00:00
Definition		
Operating System Command wget]
Parameters for Operating Syste	em Command	
Additional Parameters Allowe	ed	
Trace		
Check Module		

If the operating system is Windows:

1.- Configure path in the /LNKAWS/CONST table (SM30): The Low field informs the path where you want to store the openSSL and Wget executables. The data to be entered in the table are the following:

60 Image: Statistic statistic statistics Image: Statistic statistic statistics 800 Image: Statistic statistics Image: Statistic statistics	
EMANDTPROGRAM_NAME FIELD_NAME COUNTER SIGN OPTIONS LOW HI	
800 /INKAWS/AWS STRUST PATH 1 I FO	IGH COMMENTS
800 /LNKAWS/OPENSSL_FILE PATH 1 I EQ	
800 /LNKAWS/WGET_FILE PATH 2 I EQ	

2.- Create a new command:

0	~]~	« 🗏 🔇	😣 🔁 H H					
Externa	External Operating System Commands							
■ Type	Command name	Op.system	External program	Parameters of external program	Additional 1	race Created By	Date	Time
SAP	ARCAUTO	ANYOS	arcauto		х	SAP	07.08.1995	11:12:1 ^
SAP	BACKUP_HISTORY	ANYOS	sddb6his		Х	SAP	08.11.1996	15:12:5 -
SAP	BRARCHIVE	ANYOS	brarchive		х	SAP	02.08.1995	18:23:5
SAP	BRBACKUP	ANYOS	brbackup		х	SAP	02.08.1995	18:24:0
SAP	BRCONNECT	ANYOS	brconnect		х	SAP	25.07.2000	19:07:5

3.- OpenSSL.

External Command "ZOF	PENSSL" fo	r "Windows NT"		
😔 💉 🖆 👫 🗒 🛼				
Command				
Command Name	ZOPENS	SL		
Operating System Wind		s NT		
Type Custo		er		
Create and Last Change				
Created By	1	LNKABAP		
		24.01.2019		
	:	11:56:16		
Last Changed By]	LNKABAP		
		30.01.2019		
	:	14:33:45		
Definition				
Operating System Command				
/LNKAWS/CONST-LOW				
Parameters for Operating System	n Command			
, , , , , , , , , , , , , , , , , , , ,				
Additional Parameters Allowed				
Trace				
Check Module				



4.- Wget.

External Command "ZW	/GET" for "Windows NT"	
🕀 🖍 🛅 🐴		
Command		
Command Name	ZWGET	
Operating System	Windows NT	
Туре	Customer	
Create and Last Change		
Created By	LNKABAP	
	30.01.2019	
	14:27:36	
Last Changed By	LNKABAP	
	30.01.2019	
	14:32:58	
Definition		
Operating System Command		7
/LNKAWS/CONST-LOW + w	get.exe	
Parameters for Operating Syste	m Command	
Additional Parameters Allowed	1	
Check Module		

Once added ZOPENSSL and ZWGET to SM69, Run transaction /LNKAWS/AWS_STRUST with these parameters:

AWS Connector. STRUST automatic maintenance for SSL certificates

() i		
Parameters		
Endpoint	aws.amazon.com	*
✓ Remove old SSL certificates		
Remove certs, days before	3	
For initial installation only! (if SSL Client	t (Standard) does not exist)	
✓ Create SSL Client (Standard)		

Expect to have this result:

AWS Connector. STRUST automatic maintenance for SSL certificates

AWS Connector. STRUST automatic maintenance for SSL certificates

Certificate	import success	for dl.cacerts.digicert.com/DigiCertBaltimoreCA-2G2.crt.pem
Certificate	import success	for dl.cacerts.digicert.com/BaltimoreCyberTrustRoot.crt.pem
Certificate	import success	for www.amazontrust.com/repository/SFSRootCAG2.pem
Certificate	import success	for www.amazontrust.com/repository/AmazonRootCA1.pem
Certificate	already exists	for: www.amazontrust.com/repository/SFSRootCAG2.pem
Certificate	already exists	for: www.amazontrust.com/repository/AmazonRootCA1.pem
Certificate	import success	for aws.amazon.com
Certificate	already exists	for: dl.cacerts.digicert.com/BaltimoreCyberTrustRoot.crt.pem
Certificate	already exists	for: dl.cacerts.digicert.com/DigiCertBaltimoreCA-2G2.crt.pem
Certificate	import success	for s3-ap-northeast-1.amazonaws.com
Certificate	import success	for s3-ap-northeast-2.amazonaws.com
Certificate	import success	for s3-ap-south-1.amazonaws.com
Certificate	import success	for s3-ap-southeast-1.amazonaws.com
Certificate	import success	for s3-ap-southeast-2.amazonaws.com
Certificate	import success	for s3-ca-central-1.amazonaws.com
Certificate	import success	for s3.eu-central-1.amazonaws.com
Certificate	import success	for s3-eu-west-1.amazonaws.com
Certificate	import success	for s3-eu-west-2.amazonaws.com
Certificate	import success	for s3-sa-east-1.amazonaws.com
Certificate	import success	for s3.amazonaws.com
Certificate	import success	for s3-us-east-2.amazonaws.com
Certificate	import success	for s3-us-west-1.amazonaws.com
Certificate	import success	for s3-us-west-2.amazonaws.com
Certificate	import success	for iam.amazonaws.com
TCM restarte	be	

You can check the result in transaction STRUST:

Trust Manager: Display		
63 🕅		
 System PSE SNC SAPCryptolib SSL server Standard SSL client SSL Client (Anonymo SSL client SSL Client (Anonymo SSL client SSL Client (Standar Inksap10_001_02 sapdev01_D01_00 SSL client Financial Services SSL client Financial Services SSL client SSL Jira connection SSL client SSE Web Service Se WS Security Standard WS Security Other System Encry WS Security Other System Encry WS Security Other System Encry SSL MIME Standard File 	SSL client SSL Client (Standa Own Certificate Subject Certificate List	r <u>CN=IDE SSL client SSL Client (Standard), OU=I0020760607, OU=SAP Web AS, O=SAP T</u> (Self-Signed) Subject
	E Veri. PSE	CN=Amazon Root CA 1, O=Amazon, C=US I CN=Baltimore CyberTrust Root, OU=CyberTrust, O=Baltimore, C=IE I CN=Starfield Services Root Certificate Authority - G2, O="Starfield Technologies, In • CN=DigiCert Baltimore CA-2 G2, OU=www.digicert.com, O=DigiCert Inc, C=US •
SSF E-Learning	Certificate	
SEF SAML2 Service Provider - E SEF SAML2 Service Provider - S *1 SSF Logon Ticket	Subject Subject (Alt.) Issuer Serial Number (Hex.) Serial Number (Dec.) Valid From Algorithm Check Sum (MD5) Checksum (SHA1)	to Key Length

Programming job /LNKAWS/AWS_STRUST.

AWS certificates can be invalidated or can be expired.

If this happens, new certificate(s) must be installed in STRUST to ensure AWS Connector can run properly.

The program /LNKAWS/AWS_STRUST will take care of it.

We recommend programming a job /LNKAWS/AWS_STRUST on a daily basis. To do so, go to transaction SM36:

Define Backgrou	nd Job				
Start condition	🗳 Step	🖍 Job selection	Ca Own jobs	🇯 Job wizard	Standard jobs
General Data			_		
Job Name	/LNKAWS/L	NKAWS_STRUST			
Job Class	С				
Status	Scheduled				
Exec. Target			Spoo	I List Recipient	
Job Start			Job Frequer	ιcy	

Autor: Linke – Gerard Lagalina Revisión: v1.0



Define Backgrour	nd Job					
Start condition	🗳 Step	🖍 Job select	ion 🔽 O	wn jobs 🛛 🎾	Job wizard	Standard jobs
Create Step 1						×
User	LNKABAP					
Program values						
ABAP pro	ogram	Extern	al command	E	xternal progra	m
ABAP program						
Name	/LNKAWS/A	WS_STRUST				
Variant						
Language	EN					
External command (co	mmand pre-def	ined by system ac	lministrator)			
Name						
Parameters						
Operating sys.						
Target server						
External program (dire	ct command in	out bv svstem adn	ninistrator)			
Name						
Parameter						
Target host						
				_		
			💽 Ch	eck	🖶 Print specific	ations 😢
	~ ~		🕴 🖶 🚺	14 🛍 🗋	🖡 🎝 🍹	🐳 😯 🗖
Step List Overvie	ew					
1 🖍 🔝 68) <u> </u>	pool 🏛	• • •			
	,					
No. Program name	e/command	Prog. type	Spool lis	t Parameter:	sUser	Lang.
1 /LNKAWS/AWS	STRUST	ABAP			LNKABAP	EN



Define Backgroun	nd Job				
Start condition	🗳 Step	▲ Job selection	Can Jobs	🇯 Job wizard	Standard jobs
General Data					
Job Name	/LNKAWS/L	NKAWS_STRUST			
Job Class	С				
Status	Scheduled				
Exec. Target			Spool	List Recipient	
Joh Start			Job Froguen	24	
JOD SLAT			Job Frequen	cy	
Job Steps					
1 Step(s) succe	ssfully de	fined			
Define Backgroun	d Job				
	Chan	· Job colection			Ctandard jaka
Start condition	⇒ Step	▲ Job selection		Sod Wizard	Standard jobs
Start Time					×
_					
Immediate	Date/Time	After Joh	After Event	At Operation Mode	
Inmediate	Date/ fille	Aitel Job	Alter Lvent	At Operation Mode	
Date/Time					
After Job			At Operation M	ode	
After Event					
				Check	
				Check	a



Inform the next day and the time you wish this job to run (the job takes a few seconds to execute, light workload).

Start condition	🗳 Step	📩 Job selection	🔽 Own jobs	🇯 Job wizard	Standard jobs
Start Time					×
Immediate	Date/Time	After Job	After Event	At Operation Mod	e
Date/Time					
Scheduled Start	Dat	e 18.01.2019	Time	09:00:00	
No Start After	Dat	e	Time		
lfter Joh			At Operatio	n Mode	
				Thous	
After Event					
Periodic Job					

Choose daily period

e	r Period Values	
_	Hourly	
	Daily	
-	Weekly	
	Monthly	
	Other period	
	🕜 Check 🛛 🔚 😣	



Save

Er Start Time
Immediate Date/Time After Job After Event At Operation Mode
Deta /Time
Scheduled Start Date 22.02.2019 Time 09:00:00
No Start After Date Date Time
After Job At Operation Mode
After Event
✓ Periodic Job
And save
🛇 🔤 🗔 🖓 🖓 😓 🚷 🖶 🖬 👫 🎝 🖓 💭 🜄 🖓 😵
Define Background Job
🏴 Start condition 🛛 🚓 Step 🛛 🖍 Job selection 🔽 Own jobs 🎾 Job wizard Standard job
General Data
Job Name /LNKAWS/LNKAWS STRUST
Job Class C
Status Scheduled
Exec. Target Spool List Recipient
Job Start Job Frequency
Planned Start Daily Date 22.02.2019 Time 09:00:00
Job Steps
1 Step(s) successfully defined
Job /LNKAWS/LNKAWS STRUST saved with status: Released



SICF, service awsconnector_s3

Run transaction /N/LNKAWS/SICF.

With this transaction, the SICF service awsconnector_s3 will be created and optionally the user for the service.

A selection screen will appear with a 3 options radio button.

User proposal. The proposed user is LNKAWSICFUSE. This user will be automatically created.

Creation of SICF node with serv	ice awsconnector_s3
\bigoplus	
Parameters	
 User proposal 	
\bigcirc I specify the user (will be automatically cr	eated if it does not exist)
I have Central User Administration	
User Name	LNKAWSICFUSE
Password	

I specify the user. The Username and password fields open. Specify user and password. It the user does not exist, it will be created automatically.

₽		
Parameters		
O User proposal I specify the user (will be I have Central User Admir	automatically created if it does not exist) istration]
User Name		
	******	* * *

I have Central User Administrator. The Username and password fields open. Specify user and password. The user must exist.

Creation of SICF node with service awsconnector_s3

Ð		
Parameters		
OUser proposal		
\bigcirc I specify the user (will be aut	romatically created if it does not exist)	
⊙I have Central User Administr	ration	7
User Name		-
Password	*****	



Choose your option. In our case we show it with "User proposal". Execute.

Creation of SICF node with service awsconnector_s3

¢		
Parameters		
User proposal		
◯ I specify the user (will be auto	matically created if it does not exist)	
O I have Central User Administra	ation	
User Name	LNKAWSICFUSE	
Password		

A list shows the configuration result.

Creation of SICF node with service awsconnector_s3
Creation of SICF node with service awsconnector_s3
User LNKAWSICFUSE created
SICF node awsconnector_s3 activated

Authorizations details

This is just to document what authorizations are given to the SICF user. The user for the service must have authorization for the object S_RFC_ADM with these values:

Maintain Aut	horization						
🥕 Maintain	values	Field docu	umentatior	ı			
Class: Object: Authorization: Change Status	AAAB S_RFC_ADM /LNKAWS/AUTH IDADMIN Active	Text: Text: Text: 01.02.2019 Saved	Administr Cross-app AWS Coni 9 11:39:37	ation for RFC Ilication Autho nector. Autho	Destination orization Ob rization	jects	
× ~ H =	4 📰 4						
Field Text			Field name	From (New)	To (New)	From(Act.)	To (Actv.)
✓ I Activity			ACTVT	03		03	
✓ Internet Comr	nunication Framewo	ork Values	ICF_VALUE				
 Logical Destination Image: Image of the second second	ation (Specified in F	unction Call)	RFCDEST	LNKAWS*	LNKAWS*	LNKAWS*	LNKAWS*
YIE Type of Entry IE	in RFCDES		RFCTYPE	G		G	

This is done in the profile /LNKAWS/SICF, which is automatically added to the service user.

In some cases we have realized that the profile is not created on an automatic way, so we have created it manually. In order to do this we follow next steps:

First go to TCODE SU02 to create the profile /LNKAWS/SICF.

Generate Work Area 🚺 Information
Important note
Do not use this transaction any longer for profile and
user administration. Use the Profile Generator instead.
The Profile Generator makes it much easier to allocate authorizations.
However, if you do not wish to use the Profile Generator,
you can still use this transaction.
🕀 To Profile Generator
Manually edit authorization profiles
Profile /LNKAWS/SICF Q
Version
Active only
Maintained only
Create work area for profiles
Profile List
🛅 🖍 🖮 🎢 🗋 Documentation 🛛 🖷 Single transport 🛼
Profile name Type Version Text



Profile Lis	st						
D	🨕 🖬 🕞	Documentation	n 📫 🗖 Sin	ale transport			
Drofilo namo Tu		Documentation		gie d'anopore	0-0		
FIONE Name I	pe version rext						
📴 Create Ne	w Profile					×	
							_
Profile		/LNKAWS/SICF					
Text		AWS Connector. Aut	horitzation profile fo	r S4			
		ProfType					
		Single profile					
		Composite Profile					
Maintain	Profile						
i 🔑 📑 Ado	authorization	🗧 🔁 Add object					
Profile		/LNKAWS/SICF					
Texts in User I	Master	Single profile					
Text		AWS Connector. Au	thoritzation profile f	or S4]
Changed By							_
Modification da	ite		Modification time		00:00:00		
Status		New	Saved/unsaved		Not saved		
Consisting of	Authorizations						
Consisting of	Authonizations		Tabix for User Mas	+	1 /		
Consisting o	f Authorizations						
Object	Text				Authoriza	tion	
						^	
						~	
						~	
						~	
<>						< >	

Add the Object S_RFC_ADM with authorization /LNKAWS/AUTH

Maintain P	rofile						
in 🕂 🖥 🕹 🕹	authorization	🔁 Add object	t 📑 🔁				
Profile		/LNKAWS/SICF					
Texts in User Ma	aster	Single profile					
Text		AWS Connector. Au	uthoritzation profile for S4				
Changed By		IDADMIN					
Modification date	Э	22.02.2019	Modification time	11:36:	27		
Status		Active	Saved/unsaved	Saved			
Consisting of A	uthorizations						
			Tabix for User Mast.	1	/ 1		
Consisting of	Authorizations						
Object	Text			A	uthorization		
S_RFC_ADM	Administration fo	r RFC Destination		/:	LNKAWS/AU	ΓΗ	< > < >
< >						< >	

As /LNKAWS/AUTH does not exist yet, double click on it to create

🔄 Authoriza	ation Text							>	<
Text		Α	WS Conn	ector. Auth	oritzatio	n			
$\langle \rangle$								¢	>
Maintain Aut	horization								
🥕 Maintair	n values	Field doc	umentatior	ı					
Class: Object: Authorization:	AAAB S_RFC_ADM /LNKAWS/AUT2	Text: Text: Text:	Administra Cross-app Authoritza	ation for RFC I lication Autho ation	Destination rization Ob	jects			
Eield Text	▲ Ⅲ ▲		Field name	From (New)	To (New)	From(Act)	$T_{0}(\Lambda_{chy})$		
Activity Activity Logical Destin Type of Entry	munication Framew ation (Specified in F in RFCDES	ork Values Function Call)	ACTVT ICF_VALUE RFCDEST RFCTYPE	rion (New)	10 (New)	TOM(Act.)	10 (ALLV.)		

Click on button

Maintain values ...

Include the needed values

Main	tain Aut	horization						
*	Maintain	values	Field doc	umentatior	ı			
Class Objec Autho	: ct: orization:	AAAB S_RFC_ADM /LNKAWS/AUTH	Text: Text: Text:	Administr Cross-app AWS Con	ation for RFC blication Autho nector. Autho	Destination orization Ob	jects	
≥≈		. == .						
Field T	ext			Field name	From (New)	To (New)	From(Act.)	To (Actv.)
🖌 📥 Ac	tivity			ACTVT				
- 🖹					03		11	
• 💼 In	ternet Comr	nunication Framewo	ork Values	ICF_VALUE				• •
• 🔁 Lo	ogical Destina	ation (Specified in F	unction Call)	RFCDEST	LNKAWS*	LNKAWS*	LNKAWS*	LNKAWS*
~ <mark>'⊡</mark> Ty • 🖹	/pe of Entry	in RFCDES		RFCTYPE	G		G	

Save and Activate

Go to SU01 and add the profile created to the user manually

Maintain	Users									
🤣 🚰										
User		LNKAWSI	CFUSE							
Changed By		IDADMIN	22.0	02.2019 11:	:12:28	Status		Revised		
Address	Logon Dat	a SNC	Defaults	Parameters	Roles	Profiles	Groups	Personalization	Lic. Data]
Assigned A	Authorization	Profiles	1 🖥 🖽	E .						
		Type T	ext	A	and the feat	64				
/LINKAVVS/	SICF	• A	ws Connector	. Authoritzation	profile for	54				

Actions to do in AWS Connector Manager

Run transaction /N/LNKAWS/S4MANAGER

☞ AWS Connector × 📑

AWS Connector				linke
Documentation				
System Status Credentials Buckets management	Bucket size	Archiving objects management	Attachments config L	ogs
Step HTTP service exists and is active HTTPS service exists and is active Command ZOPENSSL has been created /LNKAWS/LNKAWS_STRUST job is scheduled	Status			
AWSCONNECTOR_S3 service exists in SICF	v			

Note: In case Service cannot be reached when running transaction /N/LNKAWS/S4MANAGER:

Service cannot be reached

What has happened?

URL call was terminated because the corresponding service is not available.

Note The termination occurred in system with error code 403 and for the reason Forbidden.

What can I do?

Please select a valid URL.

HTTP 403 - Forbidden Your SAP Internet Communication Framework Team



Go to SICF and activate the service in sap/bc/webdynpro/lnkaws/wd_rocketsteam_s3:

Maintain service		
Create Host/Service	e 🤌 🛅 🛐 🚺 🕈 External Ali	ases 🛛 🧚 🏴 System Monitor Active 📲
Filter Details		
Virtual Host	Service Path	
ServiceName		
Description		
Lang.	EN English V Ref.Service:	
Y Apply	ኛ Reset 📫 Fine-Tune	
Virtuelle Hosts / Services	Documentation	Referenz Service
	UI Extension	
> Tui2suite	ui2suite ICE services	
• 🕤 ui5 demokit	SAPUI5 demokit	
> 🕤 ui5_ui5	SAPUI5 Application Handler SAPUI5 A	pplication c
> 🕤 vmc_test	VMC Test	
• 🕥 wappush	Handler for WAP PUSH	
> 🕥 wdisp	SAP Web Dispatcher	
• 🕥 wdvd	HTTP Service View Designer	
• 😭 wd_trace_tool	WebDynpro TraceTool	
• 😭 webapp	WEBAPP REDIRECT HANDLER	
🜱 😭 webdynpro	Web Dynpro (WD) Runtime	
> 😭 1wda	Namespace	
> 🕥 bcv	Namespace	
> 😭 bev2	Namespace	
> 😭 bobf	Namespace	
> 😭 bofu	Namespace	
> 😭 cbad	Namespace	
> 😭 ipro	NAMESPACE IPRO	
≥ () j7l	Namespace	
> т кук	Namespace	-
	Namespace	
	AAS AWS Connector. License UI	
	Namespace	
> m pinu		
> SPE	Wed Dynpro Applications for Consolid	lator Portal
> srmerp	Namespace	
> Tui2	Namespace	
> webflow	WebFlow	
< >	< >	



Credentials.

In Credentials tab add your credentials

WS Connect	tor							×
ocumentation								
System Status Cr	edentials	Buckets management	Bucket size	Archiving objects management	Attachmer	nts config	Logs	
User Name		AWS Account ID	Access Key	Secr.Acc.Key		Check result		
					- 11			

Press Check to check the credentials

AWS	S Connector				
Docum	entation				
System	n Status Credentials	Buckets managemer	nt Bucket size	Archiving objects management	Attachments config Logs
	User Name	AWS Account ID	Access Key	Sect Acc Key	Check result
	AWSConnector	770430631492	••••••••••••••••	•••••	•••••• 🖌
	🛃 Add 🧷 Edit	Delete		Discard changes	Check

Proceed with Buckets Management tab, and Attachments config.

Create bucket.

In Buckets Management create a bucket. Mind the bucket prefix. Once created press Check. Check result should be okay.

System Status Credentials Buckets management Bucket size Archiving objects management Attachments config	000		
System Status Credentials Buckets management Bucket size Archiving objects management Attachments config	0.00		
	Jugs		
Bucket User Name Region Content Rep. Buckt Lifecycle Client Encrypt Serv.Encry	pt Zip	ip Che	eck result
A sflight AWSConnector EU (Ireland) RB 0		 ✓ 	
zztestd01 AWSConnector EU (Ireland) RA 0		· ·	

Look at the Content Rep created (this will usually be RA, but may be another in case RA is already existing). This will be used to check the content server. #### Check the content server.

Run transaction OAC0 and display content server (in this case RA)

Display Content Repositories: Overview

🤣 🕄 🗅 🗈 🛼 前 [4 7 -		
Content Repository				
Content Repository	Document Ar	Storage type	Version	Description
LLS_COR_DOC_REP	/SAPSLL/CO	SAP System Databas.	0046	Document Repository on DB Basis
LXE_TTX	LXE_LTTX	SAP System Databas	0046	LXE: Repository for TTX Files
MA	ARCHLINK	SAP System Databas	0046	ma
MIME	MIME	SAP System Databas.	0045	MIME Object Storage
NOTES_RUIBB		SAP System Databas	0046	
NWECM_PL_DB_REPOSITORY	NWECM_PLDB	SAP System Databas.	0046	
QMM_STRUCT	QM_MANUAL	Structure storage sy	0045	Structure repository for QM
RA		HTTP content server	0045	AWS Connector. Content server AWS S3
RB		HTTP content server	0045	AWS Connector. Content server AWS S3
RC		HTTP content server	0045	RocketSteam. Content server AWS S3
REISCN01	SRM	SAP System Databas.	0045	DB Storage for Customer Content
REISRO01	SRM	SAP System Databas.	0045	DB Storage for Customer Content
REN01	SRM	SAP System Databas.	0045	DB Storage for Customer Content
RMPS_POID_DIRECTORY		SAP System Databas.	0046	SRM POID Directory for RMPS
RMPS_POID_DIRECTORY_CL.		SAP System Databas.	0046	SRM POID Directory for RMPS (client-dependent)
RPD01	SRM	SAP System Databas.	0045	
RPD02	SRM	SAP System Databas.	0045	
RPD03	SRM	SAP System Databas.	0045	
RPD04	SRM	SAP System Databas.	0045	
RPD05	SRM	SAP System Databas.	0045	
RPD06	SRM	SAP System Databas	0045	
RPR01	SRM	SAP System Databas.	0045	DB Storage for Customer Content
RPR02	SRM	SAP System Databas	0045	DB Storage for Customer Content
RPR03	SRM	SAP System Databas.	0045	DB Storage for Customer Content
RPR04	SRM	SAP System Databas.	0045	DB Storage for Customer Content
RPR05	SRM	SAP System Databas	0045	DB Storage for Customer Content
RPR06	SRM	SAP System Databas.	0045	DB Storage for Customer Content
RPR08	SRM	SAP System Databas.	0045	DB Storage for Customer Content
RPR09	SRM	SAP System Databas	0045	
	< >	ш		



Press on Status information and check the server status is running.

Display Content Repositories: Detail

🤣 🗋 🗈 🖶 โ	Simple admin. Full administration
Content Rep.	RA 1 / 1
Description	AWS Connector. Content server AWS S3
Document Area	▼
Storage type	04 HTTP content server
Protocol	SAPHTTP
Version no.	0045 Content Server version 4.5
HTTP server	10.254.253.10
Port Number	8001 SSL Port Number
HTTP Script	sap/bc/awsconnector_s3
Phys. path	/usr/sap/D01/SYS/global/
Server status	running
Description	
Vendor	http://www.linkeit.com
Version	V1.5
Build	20171005_1
pVersion	0045
Server time	22.02.2019 16:45:36
Contrep status	running
Description	
Time created	13.11.18 11:15:39
Created by	LNKABAP
Name	LNKABAP
Last Changed At	15.11.18 13:12:07
Last changed by	LNKABAP
Name	LNKABAP

Note: In case server status is not running, check the user in the service SICF

eate/Change	e a Service				
ath	/default_host/sap/bc/				
ervice Name	awsconnector_s3		Service	e (Active)	
ang.	EN English 🗸 👻			 Other Languages 	
Description					
Description 1	AWS Connector. A	rchive Link to AWS S3	•		
Description 2	<u> </u>				
Description 3					
Service Data	Logon Data Handle	r List Error Pages	Administration		
Procedure	Standard		~	SAMI Configura	tion
Use All Logon	Procedures		Security Se	ession: Unrestricted	v
Logon Data]		
Client	000				
User	LNKAWSICFU	SE			
Language		~			
Password Status	Set				
Security Require	ment				
 Standard 		OSSL			
Authentication					
Standard SAP	User	O Internet User			
Reauthentication	1				

awsconnector_s3. Ensure client is 000 and the user is OK.

SSF configuration.

You can skip SSF configuration in case you do not plan to use Client Encrypt. If you plan to use the option "Client Encrypt", SSF is used to encrypt the files before uploading to AWS S3, and decrypt it after downloading from AWS S3. In this way, the files stored in AWS S3 can only be retrieved by your system. ##### Automatic configuration SSF will be automatically configured as soon as you create your first Bucket with the option "Client Encrypt". AWS Connector creates an entry in Application-Specific SSF Parameter (table SSFAPPLIC) with key /LAWS/:

Ð	APPLIC	B_TOOLKIT	B_FORMAT	B_PAE	B_PROFIC	B_PROFILE	B_HASHALG	B_ENCRALG	B_INCCERTS	B_DETACHED	B_ASKPWD	B_DISTRIE	DESCRIPT
	/LAWS/	Х	Х	Х	х	Х		х					AWS Connector
	BSNAGT	Х	Х	Х	Х	Х	х	х	х	х	Х	Х	
	CCARD	Х	Х	Х	Х	Х						Х	Encryption of Payment Cards in SAP R/3
	CERTRQ	х	х	х	Х	х	х					Х	Certificate Request

AWS Connector creates also in STRUST the PSE for SSF AWS Connector:

Trust Manager: Display			
6 m			
System PSE SNC SAPCryptolib SSL server Standard SSL client SSL Client (Anonymo SSL client ERP SSL client AWS SSL client SSL Client (Standar	SSF AWS Connector Own Certificate Subject	CN=IDE SSF Awsconnector S4, OU=I0020760607, OU=SAP Web AS, O=SAP Trust Co (Self-Signed)	<u>om</u>
 SSL client ERP C4C SSL client Financial Services SSL client SSL Jira connection SSL client WSSE Web Service Se WS Security Standard WS Security Other System Encry WS Security WS Security Keys 	Certificate List	Subject	~
SNIME Standard SFile SF AWS Connector Sapevol_D01_02 Sapevol_D01_00	E Veri. PSE	Password	*

Configuration of your own SSL certificate

If you plan to use your own SSL certificate, you must follow this procedure. Run transaction /N/LNKAWS/S4MANAGER and create a first bucket with "Client Encrypt" enabled:

Status	Credentials	Buckets management	Bucket size	Archiving object	ts management	Attachments	config	Logs	
ucket		User Name	Region	Content Rep.	Buckt Lifecycle	Client Encrypt	Serv.Encry	/pt Zip	Check resul
ncryptclier	t	AWSConnector	EU (Ireland)	RD	0	\checkmark			
light		AWSConnector	EU (Ireland)	RB	0		\checkmark		
ztestd01		AWSConnector	EU (Ireland)	RA	0		\checkmark		
	Status ucket cryptclien ight testd01	Status Credentials	Status Credentials Buckets management ucket User Name cryptcliert AWSConnector ight Image: AWSConnector testd01 AWSConnector	Buckets management Bucket size ucket User Name Region cryptcliert AWSConnector EU (Ireland) ight Image: State Stat	Status Credentials Buckets management Bucket size Archiving object ucket User Name Region Content Rep. cryptcliert AWSConnector EU (Ireland) RD ight V AWSConnector EU (Ireland) RB testd01 AWSConnector EU (Ireland) RA	Status Credentials Buckets management Bucket size Archiving objects management ucket User Name Region Content Rep. Buckt Lifecycle cryptcliert AWSConnector EU (Ireland) RD 0 ight - AWSConnector EU (Ireland) RB 0 testd01 AWSConnector EU (Ireland) RA 0	Status Credentials Buckets management Bucket size Archiving objects management Attachments ucket User Name Region Content Rep. Buckt Lifecycle Client Encrypt cryptcliert AWSConnector EU (Ireland) RD 0 ✓ ight AWSConnector EU (Ireland) RB 0 ○ testd01 AWSConnector EU (Ireland) RA 0 ○	Status Credentials Buckets management Bucket size Archiving objects management Attachments config ucket User Name Region Content Rep. Buckt Lifecycle Client Encrypt Serv. Encrypt cryptcliert AWSConnector EU (Ireland) RD 0 ✓ Image: Content Rep. Serv. Encrypt ight - AWSConnector EU (Ireland) RB 0 ✓ Image: Content Rep. testd01 - AWSConnector EU (Ireland) RA 0 Image: Content Rep.	Status Credentials Buckets management Bucket size Archiving objects management Attachments config Logs Lacket User Name Region Content Rep. Buckt Lifecycle Client Encrypt Serv.Encrypt Zp cryptcilitr AWSConnector EU (Ireland) RD 0



AWS Connector performs automatic configurations, explained above. Run STRUST. Select the folder SSF AWS Connector and press Import certificate.

Trust Manager: Display

🦻 🕅							
> System PSE	SSF AWS Connector						
> SNC SAPCryptolib	Own Certificate						
SSL server Standard	Subject	CN=IDE SSE Awsconnector S4_011=I0020760607_011=SAP Web AS_0=SAP Trust Com					
SSL client SSL Client (Anonymo		(Colf-Signed)					
SSL client SSL Client (Standar		(sen-signed)					
SSL client ERP C4C	Certificate List						
SSL client Financial Services							
SSL client SSL Jira connection		Subject					
SSL client WSSE Web Service Se							
WS Security Standard							
WS Security WS Security Keys							
> SMIME Standard		v					
• 🔕 File							
SSF AWS Connector							
Inksap10_D01_02	🔄 Veri PSE						
• sapdev01_D01_00		1 down d					
SSF /LINKAW	Cortificato						
SSF E-Learning							
SSF GTS Signature Check	Subject						
SSF SAML2 Service Provider - E	Subject (Alt.)						
SSF SAML2 Service Provider - S	Issuer						
SSF Logon Ticket	Serial Number (Hex.)						
	Serial Number (Dec.)						
	Valid From	to					
	Algorithm	Key Length					
	Check Sum (MD5)						
	Checksum (SHA1)						
		Add to Certificate List					



A dialog "Import Certificate" opens. Press the search help for File path.

Import	Certificate				×
File	Database	Addr. Book	Directory service	SAP System]
File path					٥

A file browser dialog opens. Choose a pem file containing your certificate. In this configuration example we use SSL certificate from AWS S3.





ccept					
F Impor	t Certificate				×
Eile	Databasa	Addu. Daala	Dinastanu asmisa		
File	Database	Addr. Book	Directory service	SAP System	
	F				1_
File path	C:	\Users\Gerard\D	esktop\20141024_s3	.amazonaws.com	m.pem
ress "A	Add to Certi	ificate List"			00
ress "A rust Mana	Add to Cert	ificate List"			S
°ess "A rust Mana ▶ ¶	Add to Cert	ificate List"			Ø
ress "A rust Mana Mana System PSE	Add to Certinger: Change	ificate List"			
ress "A rust Mana System PSE SNC SAPCTP SSI server	Add to Certi	SSF AWS Connector Own Certificate			
rust Mana System PSE SNC SAPCry SSL server SSL client S	Add to Certinger: Change	SSF AWS Connector Own Certificate Subject	CN=IDE SSF Awsconn	ector S4, OU=1002076060	I7, OU=SAP Web AS, O=SAP Trust Com.
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SSF E-Learning	Subject	CN=s3.amazonaws.com, O=Amazon.com Inc., L=Seattle, SP=Washington, C=US			
SSF SAML2 Service Provider - E	Subject (Alt.)	dNSName=s3-control.dualstack.us-east-1.amazonaws.com, dNSName=*.s3-control.dual.			
SSF SAML2 Service Provider - S	Issuer	CN=DigiCert Baltimore CA-2 G2, OU=www.digicert.com, O=DigiCert Inc, C=US			
SSF Logon Ticket	Serial Number (Hex.)	0D:EB:E6:F5:D6:89:CD:CC:CC:0E:6C:7C:CC:EF:DC:3A			
	Serial Number (Dec.)	18504838138464633521438014041811311674			
	Valid From	03.12.2018 00:00:00 to 25.10.2019 12:00:00			
	Algorithm	RSA with SHA-256 Key Length 2048			
	Check Sum (MD5)	89:C5:BA:AE:B5:36:BA:B6:9F:3F:96:44:5E:9F:72:47			
	Checksum (SHA1)	9A:72:7D:D0:20:B5:06:D4:FC:9C:7D:9B:E0:27:9A:B6:A5:3A:D7:93			
		Add to Certificate List			



Monitoring settings (SCMSMO)

For each bucket you created, a Content Repository is created with name RX (Starting with RA ... RZ ... SA... SZ...).

In transaction SCMSMO you can access to monitoring.

We recommend setting Collect and Performance data collection every 900 seconds.



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Methods	
entServer\Server: 10.254.253.10:8001 _Collect	:\ContRep: RA\Collect
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	900 seconds
er	0 seconds
SCMS_CONTENT_SERVER_C	OLLECT_CREP
Content server data collection	n
<no_method></no_method>	
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Ionitoring: Properties and Met	thods
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operties of D01\ContentSer	ver\Server: 10.254.253.10:8001:\ContRep: RA\Performance
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General PerformanceAttribute Met	hods Addnl info
Method execution	
Start the data collection method every	900 seconds
In the absence of values deactivate after	0 seconds
Methods effective for MTE nodes	
Data collection method	SCMS_CONTENT_SERVER_COLLECT_PERF
	Content server data collection
Auto-reaction method	<no_method></no_method>
Analysis method	SCMS_CONTENT_SERVER_ANALYZE
	Content server Customizing
60 Method assignment	

We also recommend Performance threshold values (you may need to adjust this depending on your server and connection):

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View:	Current system	status (25.0	02.2019 . 11:3	5:47)		
Node displa	y off		,			
	entServer Common Server: 10.26.24 Server: <1p_addr Server: cll-http Server: cldvmxwi Server: dummy:80 Server: pwdf2625 Server: sapdev01 Server: 10.254.2 Common [10.2 Common [10.2 ContRep: RA Requestion	.44:1090: ress>:1090: cont.wdf.sap : :1081:: :1090: .dev.linkeit :53.10:8001: :54.253.10:800	.corp:1090: .corp:8080: .com:8001: 1:] .8001:]		00 Internal So	nuce Entor
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Conclusion

At this point you have configured AWS Connector, which is ready to be used. We hope you enjoy using AWS Connector.