

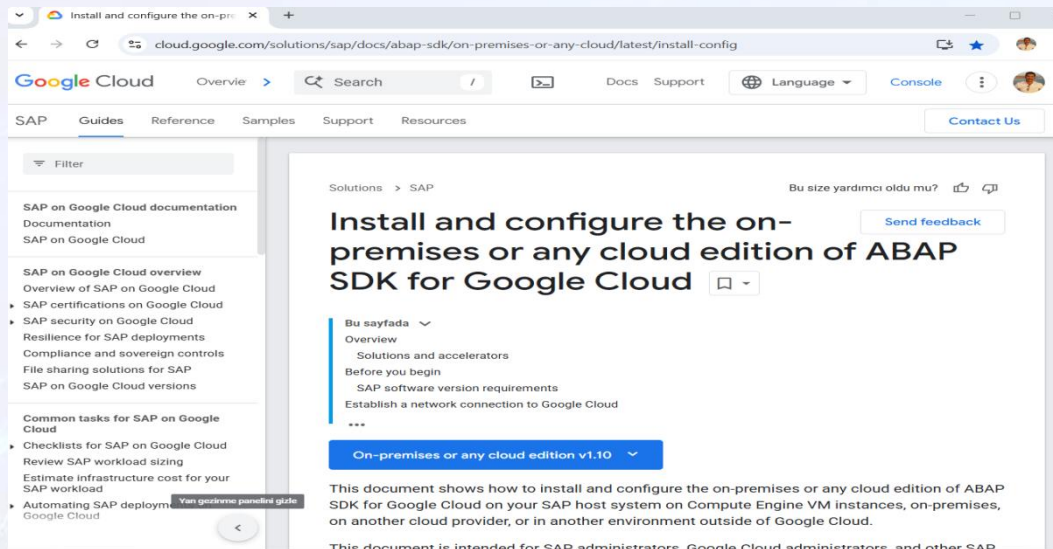
10.05.2025

Abit Yıldız

SAP ABAP SDK for Google Cloud

- Install and configure the on-premises or any cloud edition of ABAP SDK for Google Cloud

<https://cloud.google.com/solutions/sap/docs/abap-sdk/on-premises-or-any-cloud/latest/install-config>



- SAP NetWeaver with SAP_BASIS 702 or later.
- SAP ERP 6.0 (ECC)
- S/4HANA 1909 or later
- SAP Business Warehouse (BW)
- SAP Landscape Transformation Replication Server (SLT)
- SAP Customer Activity Repository (CAR)

- The /UI2/CL_JSON class attribute must be available in your SAP system.
- The class attribute version must be version **12** or later.



- Download the installation package that contains the transport files from the **download portal**:
<https://bq-slt-connector.appspot.com/abapsdk/download>

ABAP SDK for Google Cloud Download Portal

Supported Versions

version 1.10

Archived Versions

version 1.9

version 1.8

version 1.7

version 1.6

version 1.5

version 1.0

İndirilenler > connectors_abapsdk_abap-sdk-for-google-cloud-1.10

Ad	Tür	Sıkıştırılmış boyut	Parola Kor...	Boyut	Oran	Değiştirme tarihi
CHANGELOG	Markdown Kaynak Dosyası	1 KB	Hayır	3 KB	%75	13.04.2025 23:07
DELETIONLOG	Markdown Kaynak Dosyası	1 KB	Hayır	1 KB	%70	13.04.2025 23:07
K900451.GM1	GM1 Dosyası	1 KB	Hayır	1 KB	%64	13.04.2025 23:07
K900453.GM1	GM1 Dosyası	1 KB	Hayır	1 KB	%65	13.04.2025 23:07
K900455.GM1	GM1 Dosyası	1 KB	Hayır	1 KB	%62	13.04.2025 23:07
LICENSE	Dosya	1 KB	Hayır	1 KB	%38	13.04.2025 23:06
R900451.GM1	GM1 Dosyası	7 KB	Hayır	7 KB	%1	13.04.2025 23:07
R900453.GM1	GM1 Dosyası	92.335 KB	Hayır	100.806 KB	%9	13.04.2025 23:07
R900455.GM1	GM1 Dosyası	58 KB	Hayır	59 KB	%2	13.04.2025 23:07

2. Copy the ABAP SDK for Google Cloud transport files into the SAP Server transport import directories:

- To get the core ABAP SDK for Google Cloud functionality, you must copy the following transport files:

- `/usr/sap/trans/cofiles/K900453.GM1`
- `/usr/sap/trans/data/R900453.GM1`

These transport files include [client library classes](#), [solutions and accelerators](#), and authentication classes for [tokens](#), [API keys](#), and [Workload Identity Federation](#).

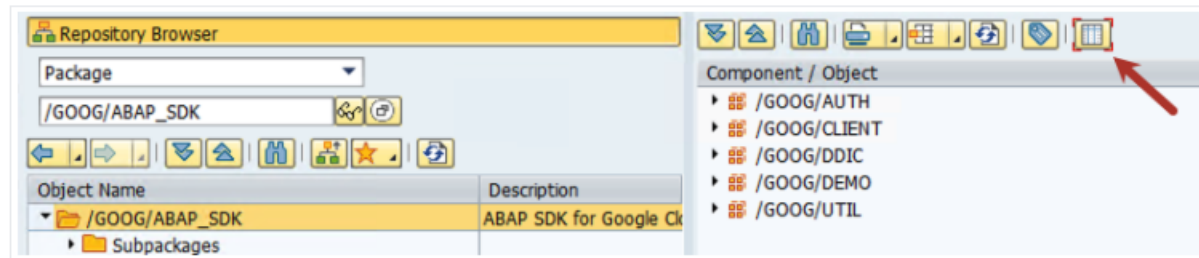
- To authenticate with OAuth 2.0 client credentials, copy the following transport files:

- `/usr/sap/trans/cofiles/K900455.GM1`
- `/usr/sap/trans/data/R900455.GM1`

These transport files don't provide additional functionality, other than the OAuth 2.0 client credentials based authentication. For OAuth 2.0 client credentials based authentication, first import the transport files for core ABAP SDK for Google Cloud functionality, and then import the transport files for OAuth 2.0 client credentials.

To use OAuth 2.0 client credentials, your SAP system must support OAuth 2.0. For information about the SAP systems that support OAuth 2.0, see SAP Note [3041322 - OAuth 2.0 Client: Downport of grant type Client Credentials](#) [🔗](#).

3. To import the transport files into your SAP system, in the SAP GUI, use the transaction code `STMS_IMPORT` or `STMS`.
4. Make sure all objects in the `/GOOG/ABAP_SDK` package are active and consistent:
 - a. In the SAP GUI, enter transaction code `SE80`.
 - b. In the package selector, select `/GOOG/ABAP_SDK`.
 - c. In the **Object Name** field, right-click on the package `/GOOG/ABAP_SDK`, and then choose **Check > Package Check > Package Objects (Including Subpackages)**.
 - d. Click the **Switch to List View** icon.



A green check in the **Result of Package Check** column indicates that all objects passed the package check.

Set up SSL certificates

Download and import the required Google certificates into **STRUST**.

1. Download all root CA certificates from the [Google Trust Services repository](#).

To ensure that you're using the latest trusted root CA certificates, we recommend that you update your system's root certificate store every six months.

PEM and **DER** are commonly used certificate formats. You can download the certificates in a format that is compatible with your SAP system. If the required format is not available, then refer to the SAP Note [2755238 - How to convert a certificate into the appropriate format with OpenSSL](#) for converting the certificates to the required format.


2. In the SAP GUI, enter transaction code **STRUST**.
3. Switch to change mode.
4. Double-click **SSL client SSL Client (Standard)**.
5. Click **Certificate > Import** and then import the certificates that you downloaded from the Google Trust Services repository.
6. Click the button with the green check.
7. Click **Edit > Add to certificate list**. Make sure that the certificate information is visible in the **Certificate** area in the lower right panel.
8. Save the entry.

Download CA certificates

<https://pki.goog/repository/>

Download CA certificates

Expand all 

Root CAs 

Subordinate CAs 

Externally operated subordinate CAs 

Third-party subordinate CAs 

Private CAs, not included in Root programs 

Historical Root CAs 

Revoked subordinate CAs 

Manage authorizations

To access the ABAP SDK for Google Cloud specific transactions, you need to grant users access to the SDK authorization object. The SDK transport files include the SDK authorization object `ZG00G_SDK` and authorization group `ZSGC`.

To grant access to the SDK transactions, do the following:

1. In the SAP GUI, enter transaction code `PFCG`.
2. Define a role for the SDK.
3. For the authorization object `ZG00G_SDK`, grant the role access to the authorization `Activity 16`.

To limit access to the SDK configuration tables, do the following:

1. In the SAP GUI, enter transaction code `PFCG`.
2. Define a role for restricting access to the SDK configuration tables.
3. To restrict the access to authorization object `S_TABU_DIS`, exclude the authorization group `ZSGC`.

Set up Google Cloud security

If your SAP system is hosted on Google Cloud, then configure the following on the host Compute Engine VM instance:

- Create an IAM service account for the host VM instance. For instructions, see [Create a service account](#).
- Grant the `Service Account Token Creator` role to the service account. For instructions, see [Grant a single role](#).
- Attach the service account to the VM instance. Also, set the VM's access scope to `cloud-platform` so that the IAM permissions of the VM are completely determined by the IAM roles that you grant to the VM's service account. For instructions, see [Create a VM and attach the service account](#).
- Create a dedicated IAM service account to access Google Cloud APIs. For instructions, see [Create a service account](#).
- Grant the service account the required IAM roles to access the API functionality. To understand the role requirement for Google Cloud APIs, see the individual API documentation and follow the principle of [least privilege](#). For more information about API specific predefined roles, see [IAM basic and predefined roles reference](#).

Service Accounts

 To view this page, select a project.

Select project

Create project

Select a recent project

My Project

Project ID: annular-beacon-136423

Organization: No organization

Accessed Mar 25, 2025

abap-sdk-poc

Project ID: abap-sdk-poc-454818

Organization: No organization

Accessed Mar 25, 2025

My First Project

Project ID: iron-hull-454111-p1

Create a service account

A service account is a special kind of account that an application or compute workload can use to make authorized calls to Google Cloud services.

To create a service account, click **Start**.

Before you start

See the [permissions required for this task](#) .

How to use this tutorial

START

To create an RFC destination, do the following:

1. In the SAP GUI, enter transaction code `SM59`.
2. Create new RFC destinations by copying the sample RFC destinations.
3. For the RFC destinations that you created, make sure the **Connection Type** is set as follows: `G - HTTP connection to external server`.
4. Go to the **Technical Settings** tab and enter the following details:

- **Target Host:** enter the Google Cloud API hostname. For example, you can use `translation.googleapis.com`.
- **Path Prefix:** enter the resource path. For example, you can use `/language/translate/`.
- **Service No.:** enter `443`. This port number used for secure communication.

To gather the Google Cloud API specific details that you need for creating an RFC destination, see [Gather details for creating an RFC destination](#).

5. Go to the **Logon & Security** tab and make sure that the **SSL Certificate** field is set with the option **DFAULT SSL Client (Standard)**.
6. Optional: You can [configure proxy settings](#), [enable HTTP compression](#), and [specify Private Service Connect endpoints](#).
7. Save your changes.

Gather details to create an RFC destination

To get the details that you need to create an RFC destination, do the following:

1. In SAP GUI, execute the transaction code `/G00G/SDK_IMG`.

Alternatively, execute the transaction code `SPRO`, and then click **SAP Reference IMG**.

2. Click **ABAP SDK for Google Cloud > Utilities > Get RFC Settings for Google Cloud Services**.
3. Specify the Google Cloud service name.
4. Click **Execute** to view the details.



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DEMO:

Muhatatap adres bilgisinden koordinat bilgisi elde etmek

Business Partner 32 Kızkulesi Kızkulesi / 34674 Üsküdar
Display in BP role 000000 Business Partner (Gen.)

Address Address Overview Identification Control Payment Transactions Status Technical Identification

Name
Title 0001 Ms.
First name Kızkulesi
Last name Kızkulesi

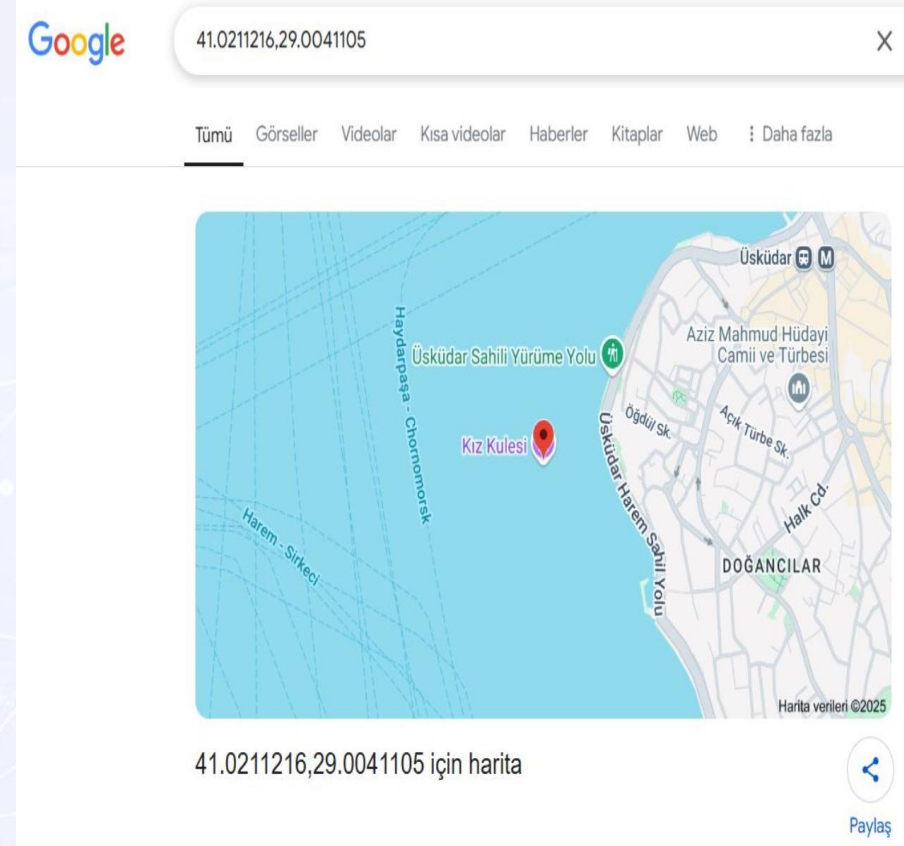
Search Terms
Search Term 1/2 KIZKULESI KIZKULESI

Standard Address
Print Preview
Street Address
Street/House number Kızkulesi Üsküdar
Postal Code/City 34674 Üsküdar
Country TR Turkey Region 34 Istanbul
Time zone EET

Data Browser: Table ZBPCOORDINAT00 Select Entries 1

Check Table...

CLIE	PARTNER	PARTNER_GUID	LAT	LNG
001	0000000032	0800275C884F1FD081AAED76A754C6...	41.0211216	29.0041105



Teşekkürler

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