ABAP SDK for Google Cloud

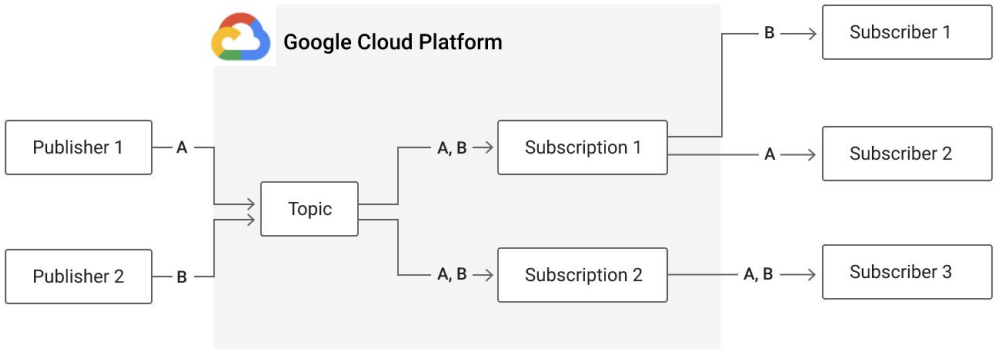
Cloud Pub/Sub API

Google Cloud

Cloud Pub/Sub with ABAP SDK for Google Cloud

Checkout our quick start

Pub/Sub is an asynchronous and scalable messaging service that decouples services producing messages from services processing those messages.



- Real-Time Messaging
- High Scalability
- Reliability
- Durability
- Ordering
- Filtering
- Expiration
- Monitoring & Logging

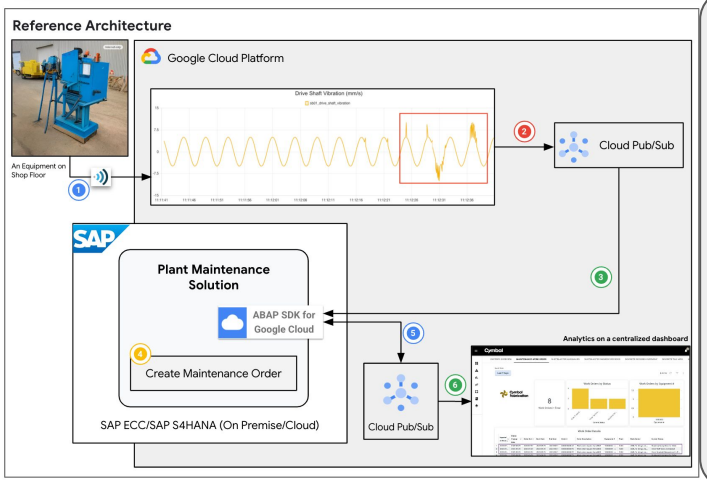
Now, this capability is just a method call away

```
TRY.
* Open HTTP Connection
    DATA(lo_client) = NEW /goog/cl_pubsub_v1( iv_key_name = 'DEMO_PUBSUB' ).

* Populate relevant parameters
    lv_p_projects_id = lo_client->gv_project_id.
    lv_p_topics_id = 'SAMPLE_TOPIC_01'.
    ls_message-data = cl_http_utility=>encode_base64( unencoded = 'Hello World!').
    APPEND ls_message TO ls_input-messages.

* Call API method
    CALL METHOD lo_client->publish_topics
      EXPORTING
        iv_p_projects_id = lv_p_projects_id
        iv_p_topics_id   = lv_p_topics_id
        is_input         = ls_input
      IMPORTING
*       es_raw           =
        es_output        = DATA(ls_output)
        ev_ret_code      = DATA(lv_ret_code)
        ev_err_text      = DATA(lv_err_text)
        es_err_resp      = DATA(ls_err_resp).

    IF lo_client->is_success( lv_ret_code ).
      DATA(lv_msg) = 'Message was published with message ID: ' && ls_output-message_ids[ 1 ].
      MESSAGE lv_msg TYPE 'S'.
    ELSE.
      MESSAGE lv_err_text TYPE 'E'.
    ENDIF.

* Close HTTP Connection
    lo_client->close( ).

  CATCH /goog/cx_sdk INTO DATA(lo_exception).
    MESSAGE lo_exception->get_text( ) TYPE 'E'.
ENDTRY.
```

1. Connect to the API
2. Construct Input parameters for publishing the message
3. Call API Method
4. Read API Response
5. Handle error and exception

Example use case of Predictive Maintenance of Equipment

Checkout quick demo



Demo Flow

1. Sensors mounted on equipment stream sensor data for “Shaft Vibration” to MDE
2. On detection of anomaly, a notification is sent to Cloud Pub/Sub
3. ABAP logic in SAP uses ABAP SDK to pull in the malfunctioning equipment information from Cloud Pub/Sub
4. ABAP logic creates a Maintenance Order for the equipment
5. On each event of change in status of the order, SDK is used to publish the status to Cloud Pub/Sub
6. Published information is consumed by a centralized dashboard to generate analytics

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Some quick references....

Predictive Maintenance of Equipment using Cloud Pub/Sub

Scan to know more about ABAP SDK:

Public Documentation

GitHub Repository - Quickstart and Code Samples

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