


YouTube Connected System - V.1.0.0

Overview

- Using this connected system, users can access some of the services provided by YouTube.
- The authentication is done using the OAuth 2.0 (Authorization Code Grant) mechanism.
- YouTube provides an environment.

Inputs required

Create Connected System

**YouTube**
Establishes the connection between YouTube and Appian and perform searching and retrieving analytics or data of a video or playlist.
Version: 1

Name *

Description

YouTube Configuration

Copy this redirect URL (callback URL) and use it to register this connected system with the protected

[GO BACK](#) [CANCEL](#) [USE IN NEW INTEGRATION](#) [CREATE](#)

Create Connected System

YouTube Configuration

Copy this redirect URL (callback URL) and use it to register this connected system with the protected resource.

<https://appiandev.vuram.com/suite/oauth/callback>

Once registered, enter the properties provided to you by the protected resource to configure this authorization.

Youtube Client Id  *

Youtube Client Secret  *

AUTHORIZE

GO BACK

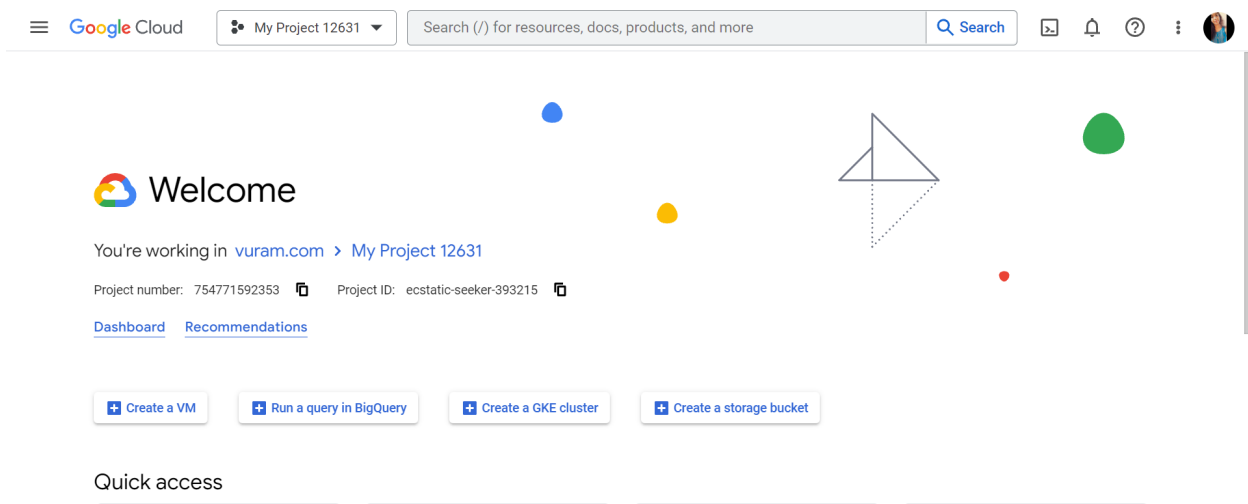
CANCEL

USE IN NEW INTEGRATION

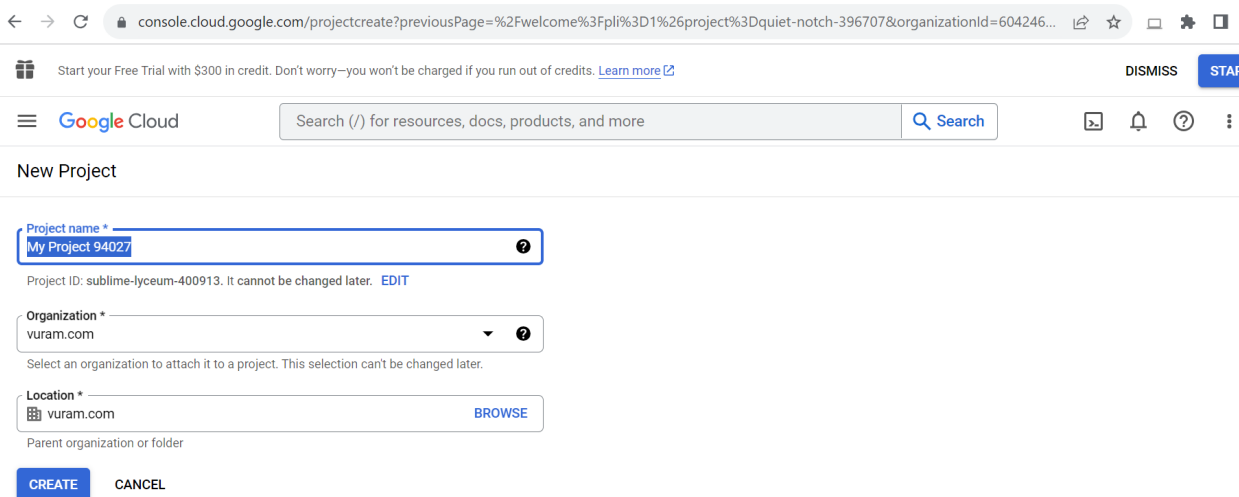
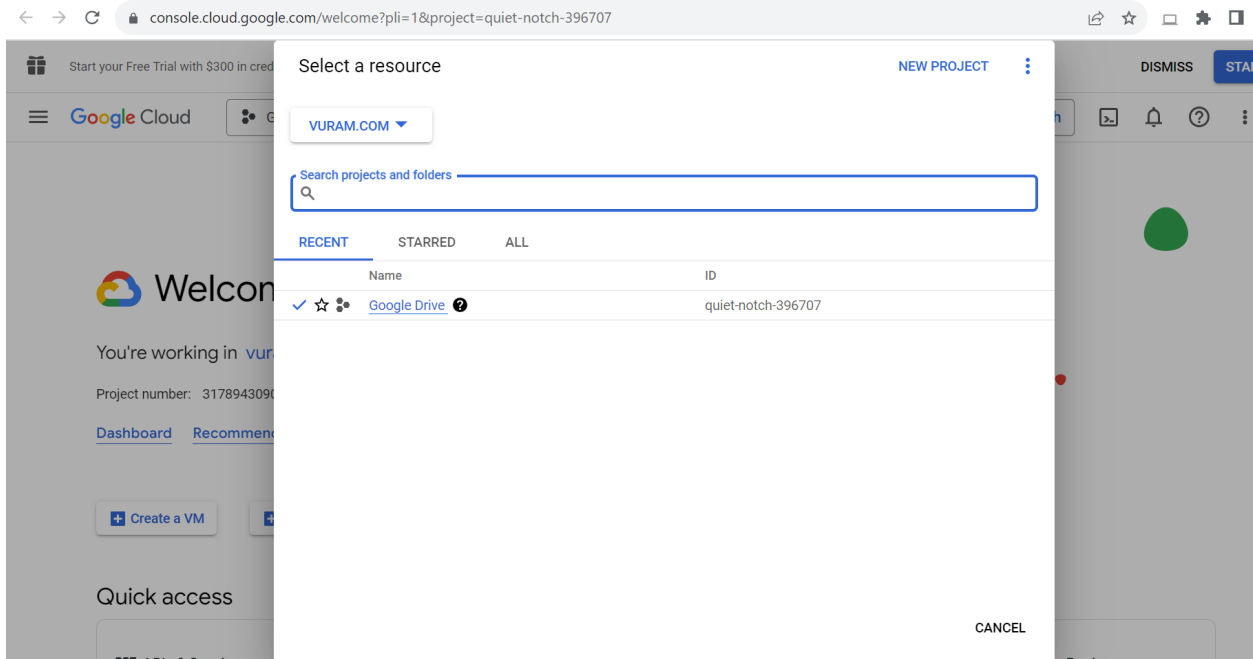
CREATE

To get a Client ID and Client Secret*

1. Open your browser
2. Create your [Project](#) by clicking on My Project, New Project



The screenshot shows the Google Cloud console dashboard. At the top, there is a navigation bar with the Google Cloud logo, a dropdown menu for 'My Project 12631', a search bar, and user profile icons. The main content area features a 'Welcome' message with the Google Cloud logo. Below this, it states 'You're working in vuram.com > My Project 12631' and provides project details: 'Project number: 754771592353' and 'Project ID: ecstatic-seeker-393215'. There are links for 'Dashboard' and 'Recommendations'. A row of four action buttons is displayed: 'Create a VM', 'Run a query in BigQuery', 'Create a GKE cluster', and 'Create a storage bucket'. At the bottom, there is a 'Quick access' section with four empty placeholder boxes.



3. Click on the Navigation menu and select API and services
4. Configure the OAuth Consent Screen, create a User Type, register your App, and add scopes.
5. Open the [Credentials page](#) in the API Console


- Click on Create Credentials, select OAuth Client ID, select Application type as Web Application, add redirect URI (<https://sample.company.com/suite/oauth/callback>), and click on Create.
- Enable APIs and services: Youtube Data API v3, Youtube Analytics API, Youtube Reporting API.

The screenshot shows the Google Cloud console interface. At the top, there's a navigation bar with the Google Cloud logo, a search bar, and a 'My Project' dropdown. Below this, the 'APIs & Services' section is active, with a '+ ENABLE APIS AND SERVICES' button. The left sidebar lists 'Enabled APIs & services' and other options like 'Library', 'Credentials', 'OAuth consent screen', and 'Page usage agreements'. The main area displays three charts: 'Traffic', 'Errors', and 'Median latency'. Each chart shows a message: 'No data is available for the selected time frame.' The time range is set to '1 day'.


- Enter the **Client ID**, and **Client Secret** in the Youtube Connected System.
- Click on **Authorize**. The login page will be opened.
- Sign in with your Google account and click Allow.

To Create a YouTube Channel

Follow these instructions to create a channel you can only manage using your Google Account.

- Sign in to YouTube on a computer or the mobile site.
- Click your profile picture  > Create a channel.
- You'll be asked to create a channel.
- Check the details (with your [Google Account name and photo](#)) and confirm to create your channel.

Upload videos in YouTube Studio

1. Sign in to [YouTube Studio](#).
2. In the top-right corner, click CREATE  > Upload videos.
3. Select the file you'd like to upload. You can upload up to 15 videos at a time. Be sure to click Edit on each file to edit your video details.

Integrations

The mentioned actions have been included in this connected system:

1	List Channels	Retrieves a collection of zero or more channel resources of the authorized user.
2	List Videos	Retrieves a list of playlists for the authorized user.
3	Get Basic Channel Statistics	Retrieves aggregated metrics for the channel. The report returns a single row of data that contains totals for each requested metric from the upload date to the present.
4	Get Basic Playlist Statistics	Retrieves total playlist starts, estimated minutes watched, views, and views per playlist start for a specific playlist. The views metric only counts video views that occurred in the context of a playlist.

5	Get Basic Video Statistics	Retrieve aggregated metrics for the channel's content. The report returns a single row of data that contains totals for each requested metric from the upload date to the present.
6	Get Daily Video Watchtime	Retrieves daily view counts, watch time metrics, and new subscriber counts for a channel's videos. The report returns one row of data for each day in the requested date range. Rows are sorted in chronological order.

ref: Youtube API documentation URL mentioned below.

Youtube Analytics API: <https://developers.google.com/youtube/analytics>

Youtube Data API: <https://developers.google.com/youtube/v3>

Examples

Create Connected System

Connected System Properties

Copy this redirect URL (callback URL) and use it to register this connected system with the protected resource.

https://appiandev.vuram.com/suite/oauth/callback

Once registered, enter the properties provided to you by the protected resource to configure this authorization.

Youtube Client Id ⓘ*

Youtube Client Secret

***** (Clear)

Create Integration to access the API

List Channels:

Connected System *
 YSA YouTube API

Operation *
 List Channels

Retrieves a collection of zero or more channel resources of the authorized user.

TEST REQUEST

Result Request Response

Success!

Time
 358 ms
 Prepare: < 1 ms - Execute: 358 ms (Send/Wait/Receive: N/A) - Transform: < 1 ms

Value: Result

- Dictionary
 - kind "youtube#channelListResponse" (Text)
- pageInfo Dictionary
 - totalResults 1 (Number (Integer))
 - resultsPerPage 5 (Number (Integer))
 - etag "WFNFD0PDHkazQ4LxzzpTLfz1ns" (Text)
- items List of Dictionary - 1 item
 - Dictionary
 - kind "youtube#channel" (Text)
 - etag "XfuDbojBw-1j8LNSx-5jIAjOCxw" (Text)
 - id "UCMC_9bjwrTUApC1VCeyZ9kA" (Text)

List Videos :

List Videos

Retrieves a list of videos from the authorized user's channel.

Channel Id *
 UCMC_9bjwrTUApC1VCeyZ9kA

The ID that YouTube uses to uniquely identify the channel being retrieved.

Previous/Next Page Token

The token that YouTube uses to retrieve the previous or next page of the result

Batch Size
 2

The Batchsize parameter specifies the maximum number of items that should be returned in the result set. Acceptable values are 0 to 50, inclusive. The default value is 5.

playlist

TEST REQUEST


Success!

Time
 222 ms
 Prepare: < 1 ms - Execute: 222 ms (Send/Wait/Receive: N/A) - Transform: < 1 ms

Value: Result

- Dictionary
 - regionCode "US" (Text)
 - kind "youtube#searchListResponse" (Text)
 - nextPageToken "CAIQAA" (Text)
- pageInfo Dictionary
 - totalResults 5 (Number (Integer))
 - resultsPerPage 2 (Number (Integer))
 - etag "-j1qkis22rbPdMr8wQna-80-6Q" (Text)
- items List of Dictionary - 2 items
 - Dictionary
 - snippet Dictionary
 - kind "youtube#searchResult" (Text)
 - etag "wmZKP7zRB4ebzCcjatP8j9HIM0" (Text)
 - id Dictionary
 - kind "youtube#video" (Text)
 - videoid "xfCk06GF200" (Text)

If we need a playlist list:

Connected System *


Operation *
 List Videos

Retrieves list of videos from the authorized user's channel.

Channel Id
 UCMC_9bjwrTUApC1VCeyZ9kA

The ID that YouTube uses to uniquely identify the channel being retrieved.

Previous/Next Page Token
 CAEQAA

The token that YouTube uses to retrieve the previous or next page of the result

playlist

The ID that YouTube uses to uniquely identify the channel being retrieved.

TEST REQUEST

Result Request Response

Success!

Time
 131 ms
 Prepare: < 1 ms - Execute: 131 ms (Send/Wait/Receive: N/A) - Transform: < 1 ms

Value: Result

- Dictionary
 - prevPageToken "CAEQAA" (Text)
 - kind "youtube#playlistListResponse" (Text)
 - pageInfo Dictionary
 - totalResults 2 (Number (Integer))
 - resultsPerPage 1 (Number (Integer))
 - etag "-3s9CDYzOwPMj6LimPrjHXUEbLM" (Text)
 - items List of Dictionary - 1 item
 - Dictionary
 - snippet Dictionary
 - kind "youtube#playlist" (Text)
 - etag "71v4i-Rmnk1Ndk_t_VZ4tOWbjbU" (Text)
 - id "PLcwfH0RVHvZ9XeNoyf62-zVxQ4YdS4xOh" (Text)

List Playlists:

Operation *
 List Playlists

Retrieves a collection of zero or more playlist resources of the authorized user.

Channel Id *
 UCMC_9bjwrTUApC1VCeyZ9kA

The ID that YouTube uses to uniquely identify the channel being retrieved. If it is ur own channel give as MINE or Channel ID

Previous/Next Page Token

The token that YouTube uses to retrieve the previous or next page of the result

Batch Size

The Batchsize parameter specifies the maximum number of items that should be returned in the result set. Acceptable values are 0 to 50, inclusive. The default value is 5.

TEST REQUEST

Result Request Response

Success!

Time
 137 ms
 Prepare: < 1 ms - Execute: 137 ms (Send/Wait/Receive: N/A) - Transform: < 1 ms

Value: Result

- Dictionary
 - kind "youtube#playlistListResponse" (Text)
 - pageInfo Dictionary
 - etag "npIF5hVgtvpv5IT5Av1Nw8TVE9o" (Text)
 - items List of Dictionary - 2 items
 - Dictionary
 - snippet Dictionary
 - kind "youtube#playlist" (Text)
 - etag "-2iHdInCA886Zh-r6tL4c50vLOs" (Text)
 - id "PLcwfH0RVHvZ-IBQIHwot7S3R7N1IE1JoX" (Text)
 - Dictionary
 - snippet Dictionary
 - kind "youtube#playlist" (Text)
 - etag "71v4i-Rmnk1Ndk_t_VZ4tOWbjbU" (Text)
 - id "PLcwfH0RVHvZ9XeNoyf62-zVxQ4YdS4xOh" (Text)

Get Basic Video Statistics:

Connected System *
YSA YouTube API

Operation *
Get Basic Video Statistics

Retrieves aggregated metrics for the channel's content. The report returns a single row of data that contains totals for each requested metric from the upload date to present.

Channel Id *
UCMC_9bjwrTUApC1VCeyZ9kA

The ID that YouTube uses to uniquely identify the channel being retrieved or MINE

Video id *
DbQZcAvd05Y

The ID that YouTube uses to uniquely identify the video being retrieved.

TEST REQUEST

Result Request Response

Success!

Time
257 ms
Prepare: < 1 ms - Execute: 257 ms (Send/Wait/Receive: N/A) - Transform: < 1 ms

Value: Result

Dictionary

- comments 1 (Number (Integer))
- averageViewDurationInSeconds 9 (Number (Integer))
- estimatedMinutesWatched 1 (Number (Integer))
- dislikes 0 (Number (Integer))
- views 12 (Number (Integer))
- likes 1 (Number (Integer))

Get Basic Playlist Statistics:

Connected System *
YSA YouTube API

Operation *
Get Basic Playlist Statistics

Retrieves total playlist starts, estimated minutes watched, views, and views per playlist start for a specific playlist. The views metric only counts video views that occurred in the context of a playlist.

Channel Id *
UCMC_9bjwrTUApC1VCeyZ9kA

The ID that YouTube uses to uniquely identify the Channel being retrieved.

Playlist Id *
PLCwFH0RVHvZ9XeNoyf62-zVxQ4YdS4xOh

The ID that YouTube uses to uniquely identify the Playlist being retrieved.

TEST REQUEST

Result Request Response

Success!

Time
375 ms
Prepare: < 1 ms - Execute: 375 ms (Send/Wait/Receive: N/A) - Transform: < 1 ms


Value: Result

Dictionary

- redViews 0 (Number (Integer))
- playlistStarts 1 (Number (Integer))
- averageViewDurationInSeconds 13 (Number (Integer))
- averageTimeInPlaylist 13 (Number (Integer))
- viewsPerPlaylistStart 1 (Number (Integer))
- estimatedMinutesWatched 0 (Number (Integer))
- estimatedRedMinutesWatched 0 (Number (Integer))
- views 1 (Number (Integer))

Get Basic Channel Statistics:

Connected System *

 YSA YouTube API ✕

Operation *

Get Basic Channel Statistics ▼

Retrieves aggregated metrics for the channel. The report returns a single row of data that contains totals for each requested metric from the upload date to the present.

Channel Id *

UCMC_9bjwrTUApC1VCeyZ9kA

The ID that YouTube uses to uniquely identify the Channel being retrieved.

TEST REQUEST

Result Request Response

Success!

Time

306 ms

Prepare: < 1 ms - Execute: 306 ms (Send/Wait/Receive: N/A) - Transform: < 1 ms

Value: Result 🔗

- ▼ Dictionary
 - subscribersGained **4** (Number (Integer))
 - dislikes **1** (Number (Integer))
 - views **16** (Number (Integer))
 - likes **3** (Number (Integer))

Get Daily Video Watchtime:

Get Daily Video Watchtime ▼

Retrieves daily view counts, watch time metrics, and new subscriber counts for a channel's videos. The report returns one row of data for each day in the requested date range. Rows are sorted in chronological order.

Channel Id *

UCMC_9bjwrTUApC1VCeyZ9kA

The ID that YouTube uses to uniquely identify the channel being retrieved.

Video Id *

DbQZcAvd05Y

The ID that YouTube uses to uniquely identify the video being retrieved.

Start Date *

2023-09-01

The date from which the data to be retrieved.

EndDate *

TEST REQUEST

Result Request Response

Success!

Time

216 ms

Prepare: < 1 ms - Execute: 216 ms (Send/Wait/Receive: N/A) - Transform: < 1 ms

Value: Result 🔗

- ▼ Dictionary
 - rows List of Dictionary - 2 items
 - ▼ Dictionary
 - comments **1** (Number (Integer))
 - averageViewPercentage **104.71** (Number (Decimal))
 - averageViewDurationInSeconds **14** (Number (Integer))
 - estimatedMinutesWatched **0** (Number (Integer))
 - dislikes **0** (Number (Integer))
 - day **"2023-09-12"** (Text)
 - views **4** (Number (Integer))
 - likes **1** (Number (Integer))
 - ▼ Dictionary
 - comments **0** (Number (Integer))
 - averageViewPercentage **100.07** (Number (Decimal))
 - averageViewDurationInSeconds **14** (Number (Integer))
 - estimatedMinutesWatched **0** (Number (Integer))
 - dislikes **0** (Number (Integer))