



# Youtube Video Integration with ServiceNow

#### **Problem Statement:**

Manually retrieving and managing YouTube video details, such as titles, descriptions, and URLs, is time-consuming and prone to errors, especially when dealing with large volumes of video references for knowledge sharing, incident management, or catalog item descriptions. The lack of integration between YouTube and ServiceNow creates inefficiencies and limits the automation of video-related workflows.

#### **Objective:**

Integrate ServiceNow with YouTube using the YouTube Data API to automatically fetch and display video metadata (e.g., title, description, URL) based on a YouTube Video ID. This integration streamlines workflows, enhances user productivity, and improves the accuracy of video-related information in ServiceNow records.

#### TASK INITIATION

### Milestone 1: Create Youtube API Key

**Activity 1:** Set up a project in Google Developer Console

- 1) Go to Google Developer Console.
- 2) Login with your Google account

### Activity 2: Create a New Project

- 1) Click on "Select a Project" in the top navigation bar.
- 2) Click "New Project" and provide a name for the project.
- 3) Click "Create" to set up your project.

### Activity 3: Enable YouTube Data API v3

- 1. Navigate to the API Library.
- 2. Search for YouTube Data API v3 in the search bar.

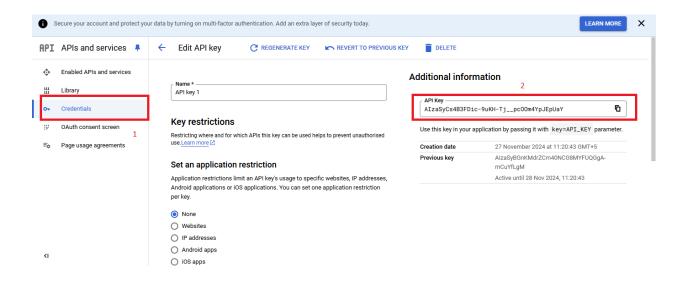




3. Select the API and click "Enable".

#### **Activity 4:** Create an API Key

- 1. Go to the Credentials section in the Developer Console.
- 2. Click "Create Credentials" and select "API Key".
- 3. Copy the generated API key and store it securely



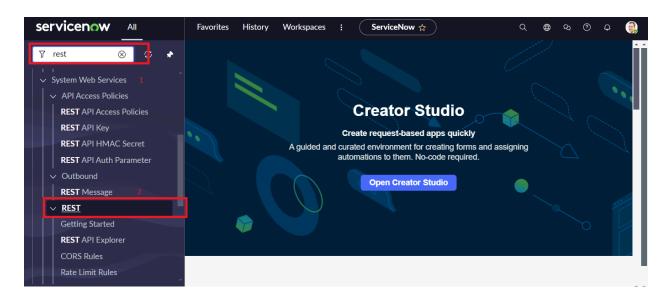
#### Milestone 2: Use REST API in ServiceNow

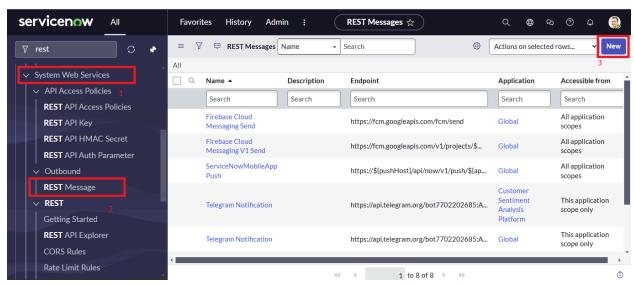
#### **Activity 1:** Create a REST Message in ServiceNow

- 1. Navigate to System Web Services > REST > REST Message in ServiceNow.
- 2. Click New to create a REST Message record.
  - Name: YouTube Video API
  - Endpoint: https://www.googleapis.com/youtube/v3/videos
- 3. Save the record.



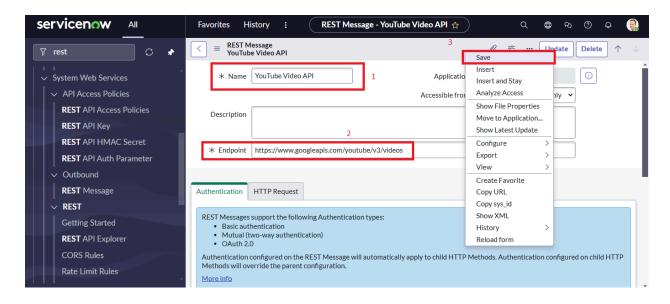






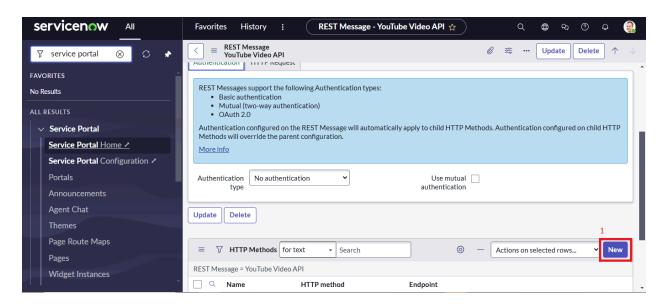






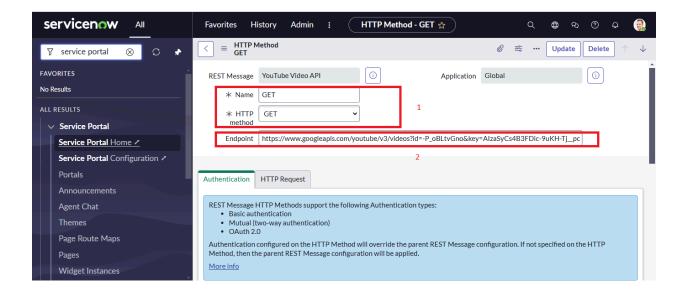
#### **Activity 2 :** Configure HTTP Method

- 1. Open the newly created REST Message 2.
- 2. Under the HTTP Methods tab, click New.
  - o HTTP Method: GET
  - Name: Get Video Details
- 3. Save the HTTP Method.









#### Milestone 3: Call the REST API in ServiceNow

### **Activity 1 :** Create Script Include

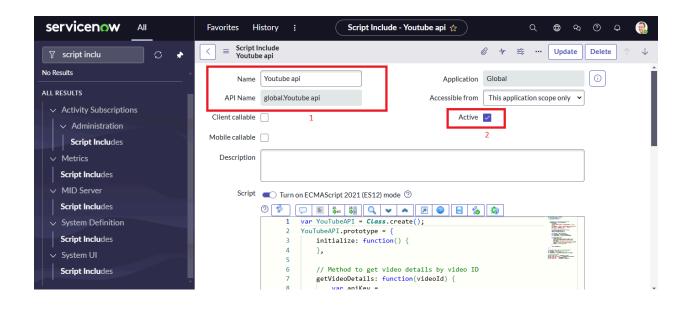
- 1. Navigate to System Definitions >> Script Include
- 2.Click on New
- 3. Fill in the details as follows

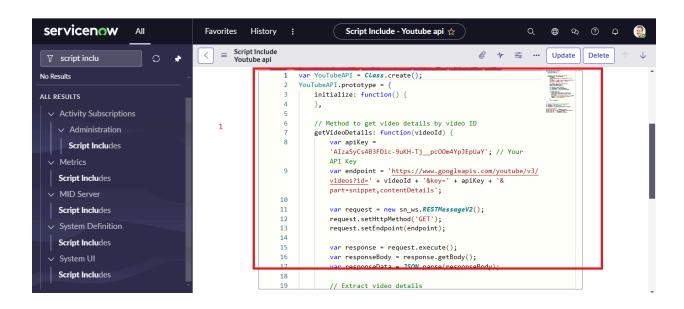
Name: Youtiubeapi and check on active box

- 4. Write the script
- 5. And click on save.



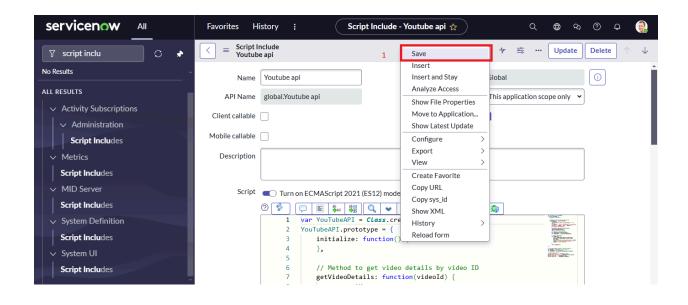












#### SCRIPT:

```
var YouTubeAPI = Class.create();
YouTubeAPI.prototype = {
    initialize: function() {
    },

    // Method to get video details by video ID
    getVideoDetails: function(videoId) {
        var apiKey = 'AIzaSyCs4B3FDic-9uKH-Tj__pcOOm4YpJEpUaY'; // Your
API Key
        var endpoint = 'https://www.googleapis.com/youtube/v3/videos?id='
+ videoId + '&key=' + apiKey + '&part=snippet,contentDetails';
```





```
var request = new sn_ws.RESTMessageV2();
        request.setHttpMethod('GET');
        request.setEndpoint(endpoint);
        var response = request.execute();
        var responseBody = response.getBody();
        var responseData = JSON.parse(responseBody);
        // Extract video details
        var videoDetails = {
            title: responseData.items[0].snippet.title,
            description: responseData.items[0].snippet.description,
            url: 'https://www.youtube.com/watch?v=' + videoId,
            embedUrl: 'https://www.youtube.com/embed/' + videoId //
YouTube embed URL
        };
        return videoDetails;
    }
};
// Test the method by calling it with the video ID
var videoId = '-P_oBLtvGno'; // Your video ID
```





```
var youtubeAPI = new YouTubeAPI();
var videoDetails = youtubeAPI.getVideoDetails(videoId);

// Log the video details
gs.info('Video Title: ' + videoDetails.title);
gs.info('Video Description: ' + videoDetails.description);
gs.info('Video URL: ' + videoDetails.url);
gs.info('Embed URL: ' + videoDetails.embedUrl);
```

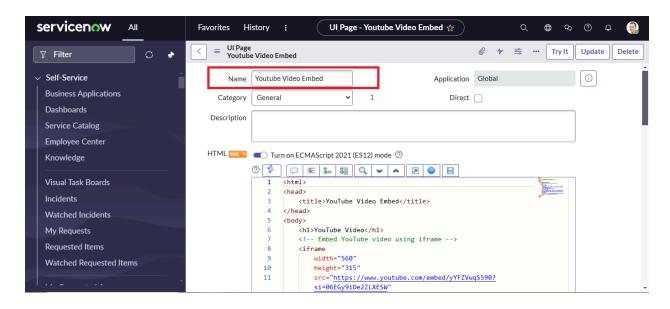
### Milestone 4: Display the youtube video

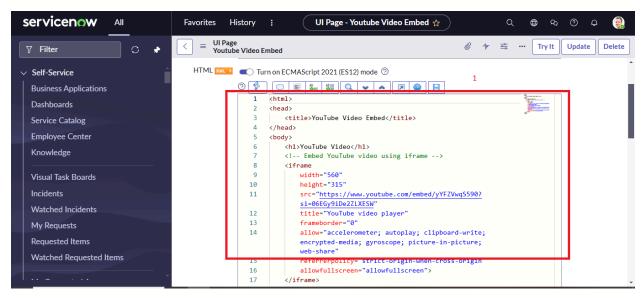
### Activity 1: Create Ui page

- 1. Navigate to System UI >> UI Pages
- 2. Click on New
- 3. Fill in the details
- 4. Write the HTML Script
- 5. Save



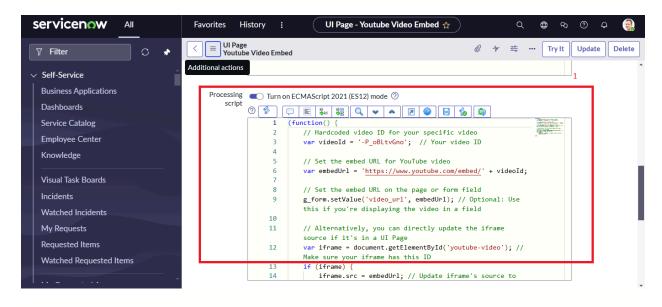


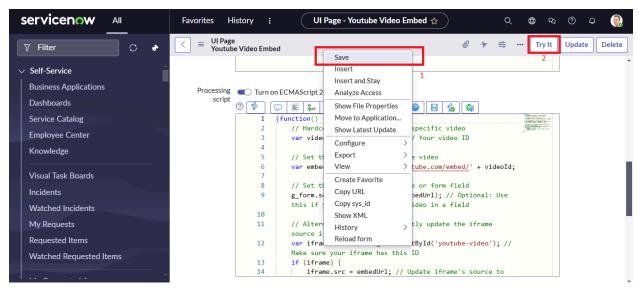












#### HTML Script:

<html>

<head>

<title>YouTube Video Embed</title>

</head>

<body>





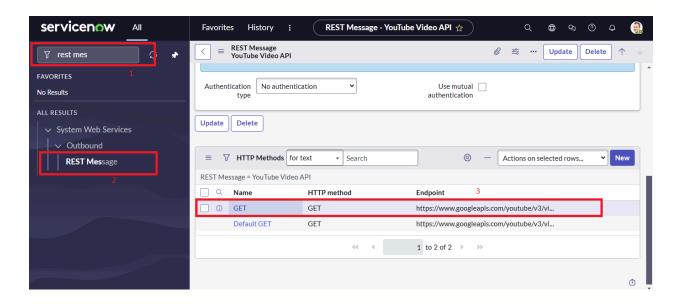
# **Milestone 4: Testing**

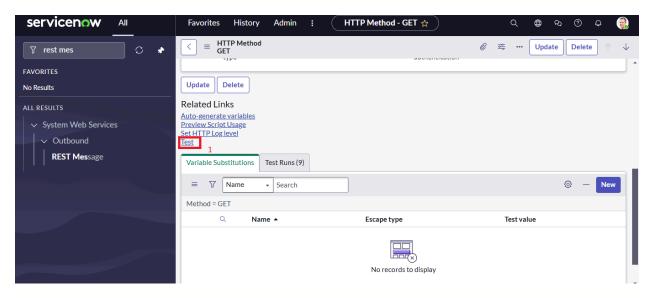
# Activity 1: Rest Api test

- 1. Navigate to rest message
- 2. Under the HTTP method
- 3. Open GET
- 4. Scroll down a click on Test.



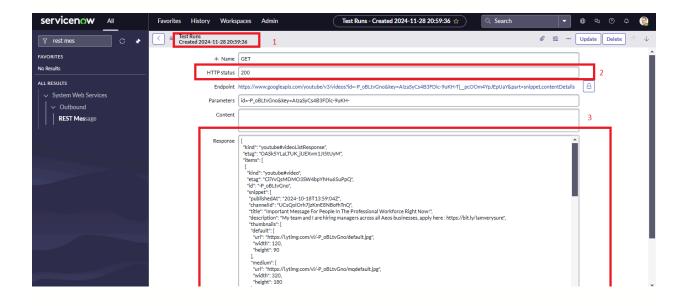










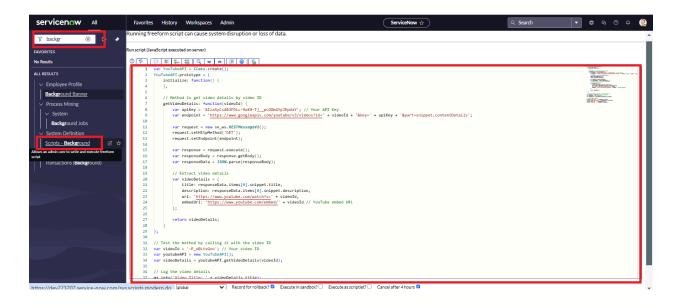


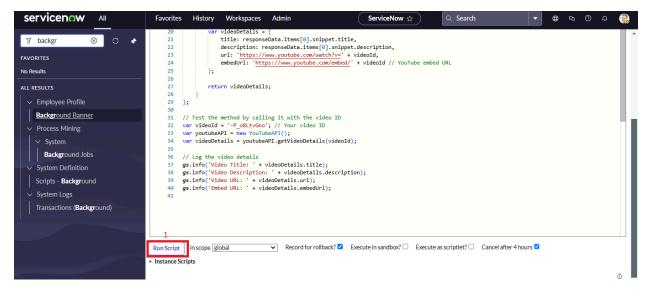
### Activity 2: Testing Script Include

- 1. Navigate to System Definition >> Scripts-Background
- 2. Write the previous script include code here
- 3. Click on Run Script
- 4. We can see the result on the youtube video we have integrated



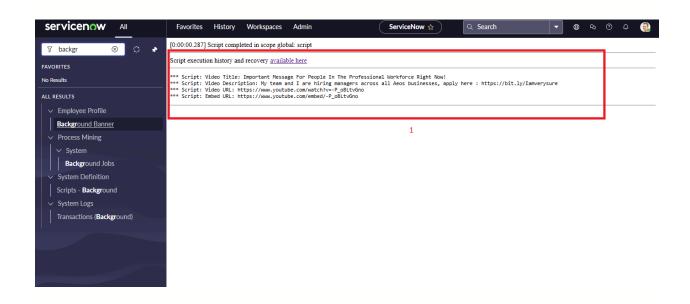












### Activity 3: Test UI Page

- 1. Navigate to System UI >> UI Pages
- 2. Open the UI page created previously
- 3. Click on Try It.
- 4. We can see the video which we have integrated
- 5. Play the video





