Filter YouTube videos with Cisco Web Security Appliance

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**About this Document**

This document is for Cisco engineers, partners, and customers who want to learn how to filter YouTube videos with Cisco Web Security Appliance (WSA).

**What credentials do I need?**

For access to the YouTube API, you need:
- A Google Account to create API & Services Project.
- API keys for any needed services.
- A proxy to forward YouTube API requests.

**Public data**

YouTube API requests are available for public and private consumers. The API keys are specific to the consumer and are associated with the consumer's API project.

**What action do I need to take?**

The following steps are required to filter YouTube videos with Cisco WSA:

1. Enable HTTPS proxy on the Cisco WSA to decrypt the request to extract the video token ID.
2. Visit the Enabled APIs page. In the list of APIs, make sure the status is ON, then enable the YouTube API.
3. Navigate to Security Services > HTTPS Transparent Request Gateway and enable HTTPS gateway.
4. Navigate to Web Security Manager > Services and enable the YouTube API category.
5. Go Back to WSA UI and enable YouTube Categorization under Acceptable Use Controls Settings.
6. In the HTTPS Transparent Request Gateway, use the following configuration to enable YouTube video filtering:
   - Traffic redirection to the YouTube API server.
   - Certificate to use for decryption.
   - Key and Query Timeout (default is 10 seconds).
7. The default routing table is Data for YouTube API request traffic if Data and Management interface both are enabled.
8. Submit and commit your changes.

**Example URL**

URL_GET https://www.youtube.com/watch?v=S-sPJtZjld8

**YouTube API**

The YouTube API is used to retrieve the video token ID associated with YouTube videos. The API is available if you have enabled the YouTube API on the Cisco WSA.

**Verification:**

Upon YouTube Category List update, WSA generates the Update alert and the access logs show the following changes:

- Non YT URL Category: 1073741824
- Google Account to create API & Services Project.
- Tool for accessing the entire Streaming Video category or YouTube using AVC or Custom Category.
- This setting only applies to Catalyst Security Services.
- Executable (e.g. cron job, daemon)
- Category detail under Web Tracking Search results
- Warning Alert message from WSA with information you enter. Once the HTTPS Proxy is enabled, all HTTPS policy decisions are handled by Decryption Policies.

**Done.**

Cisco WSA with URL filtering, Application Visibility Control (AVC), Anti-Malware, and Web Securitygateway that offers broad protection, extensive controls, and investment value.

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