Filter YouTube Videos with Cisco Web Security Appliance

1. Enable HTTPS proxy on the Cisco WSA to decrypt the request to extract the YouTube video token ID.


3. Navigate to Security Services > Click on Global Settings button > Key and Query Timeout (default is 10 seconds).

4. In the HTTPS Ports to Proxy field, enter the default port.

5. If split routing is not enabled on the WSA, make sure you add an exception for googleapis.com for upstream traffic from the M1 interface.

6. Customers cannot block the video that appears on the main page of a channel, even if the video belongs to a blocked YouTube category.

7. In the Applications that Use HTTPS section, select one of the following options:

   - Deny the HTTPS request
   - Decrypt
   - Redirect

   After selecting the options, click the Apply button to save your changes.

8. Submit and commit your changes.

9. The default routing table is Data for YouTube API request traffic if Data and Management interface both are enabled. You can also use the Network Route Table button to add an appropriate route to allow traffic to your YouTube API endpoint.

10. If you are generating the API key from within the Cisco WSA, then click API Management > Generate API Key. Otherwise, follow the steps below to generate the API key using Google Account:

   a. Go to the API Console and select the project that you just registered.
   b. After creating your project, make sure the YouTube Data API is one of the services that the project is enabled for.
   c. Create a project in the Google Developers Console and obtain authorization credentials.
   d. Generate API key using Google Account.

11. Depending on your number of requests, you may run into a quota-based warning. Follow the steps below to increase the Token Quota from Google up to 1 million by sending a request to Google and providing a business use case.

12. If API Management is not enabled, then enable it to make the API key accessible in the configuration.

13. It is recommended to set the Action for URL GET https://www.youtube.com/watch?v=S-sPJtZjld8 to 'decrypt' option to allow access to the video.

14. WSA generates the warning alert and Monitor action will be triggered if the video access is attempted.

15. If you have questions, please contact your organization's network administrator and provide the relevant URLs and videos.

16. Until now, this configuration is specific to HTTPS video. For non-HTTPS video URLs, set the Action to 'Block' option.

17. The Cisco update server and WBNP telemetry server, configure the same for googleapis.com as well.

18. The proposed solution offers extensive controls and investment value by enforcing granular restrictions to protect user's web traffic.

19. Once the YouTube Video Categories are filtered, you get the entire Streaming Video Category or YouTube using AVC or Custom Category.

20. The proposed solution ultimately helps our customers to enforce the right and ensure compliance with the YouTube Terms of Service.