

How to Enforce YouTube for Schools in the Firewall

<https://campus.barracuda.com/doc/45024304/>

YouTube for Schools will be discontinued as of July 1, 2016. Google is offering current YouTube for Schools users and all G Suite users a new way restrict YouTube content, per this [Google article](#).

If you already have a YouTube for Schools token, you can continue using YouTube for Schools with the Barracuda NextGen Firewall until July 1, 2016. Google has stopped issuing YouTube for Schools tokens.

The Barracuda NextGen Firewall X-Series can transparently add YouTube for Schools restrictions for all connections that the X-Series Firewall forwards to YouTube without the need to configure the clients. Enable YouTube for Schools for access rules matching HTTP and HTTPS traffic connecting to YouTube.

Limitations

- YouTube for Schools relies on YouTube to honor and filter the search results. The X-Series Firewall can enable this feature, but the execution is left up to YouTube.
- YouTube for Schools is not enforced for mobile YouTube apps.

Before You Begin

Create a YouTube for Schools account. For more information, see [Signing Up and Getting Started with YouTube for Schools](#)

Step 1. Enter the YouTube for Schools Token




























The YouTube for Schools token is a unique ID identifying your YouTube for Schools account.

1. Go to **Firewall > Settings**.
2. Enter your YouTube for Schools token.

| SAFE BROWSING CONFIGURATION | | Help |
|---|---|------|
| YouTube for Schools Token: | <input type="text" value="XXXXXXXXXXXXXXXX"/> | |
| <small>An alphanumeric, unique ID for your school network provided by YouTube when you sign up for YouTube for Schools at: youtube.com/schools. Enable the YouTube for Schools feature for every affected subnet or user group on the Firewall -> Firewall Rules -> Edit Access Rule -> Advanced page.</small> | | |

Step 2. Create an Access Rule to Enforce YouTube for Schools


1. Go to **FIREWALL > Firewall Rules**.
2. Click **Add Access Rule**.

| CUSTOM FIREWALL ACCESS RULES | | | | | | | Help |
|------------------------------|-------------------------|--------------------|--------------------------|----------------------|-----------------|---|-------------------------------------|
| Add Access Rule | | Search | | | | | |
| Action | Name | Source | Destination | Service | Interface Group | Actions | Disabled |
| ➔ | LAN-2-BARRACUDA-SERVERS | Trusted LAN | Barracuda Update Servers | HTTP+S | Matching |    | <input type="checkbox"/> |
| ↻ | LOCALDNSCACHE | Trusted LAN | Any | Redir-To-Caching DNS | Matching |    | <input checked="" type="checkbox"/> |
| ↻ | TRANSPARENT-PROXY | Trusted LAN | Internet | Redir-To-Proxy | Matching |    | <input checked="" type="checkbox"/> |
| ↻ | LAN-2-INTERNET-SIP | Trusted LAN | Internet | Redir-To-SIP | Matching |    | <input checked="" type="checkbox"/> |
| ↻ | INTERNET-2-LAN-SIP | Any | Internet | Redir-To-SIP | Matching |    | <input checked="" type="checkbox"/> |
| ➔ | LAN-2-INTERNET | Trusted LAN | Internet | Any | Matching |    | <input type="checkbox"/> |
| ➔ | LAN-2-LAN | Trusted LAN | Trusted LAN | Any | Matching |    | <input type="checkbox"/> |
| ➔ | VPN-SITE-2-SITE | VPN-Local-Networks | VPN-Remote-Networks | Any | Matching |    | <input checked="" type="checkbox"/> |
| ➔ | VPNCLIENTS-2-LAN | Any | Trusted LAN | Any | VPNClients |    | <input type="checkbox"/> |

3. Create a **PASS** access rule with the following settings:
 - **Name** – Enter **Name** for the access rule. For example, LAN-2-YOUTUBEFORSHOOLS
 - **Source** – Select a network object containing the subnets for which YouTube for Schools must be enforced and click **+**.
 - **Network Services** – Select to **HTTP+S** and click **+**.
 - **Destination** – Select **Internet** and click **+**.
 - **Connection** – Select **Default (SNAT)**.
4. Set **Application Control** to **Yes**.
5. Set **SSL Inspection** to **Yes**.

General **Advanced**

Action: Allow



*DNAT (port forwarding) - Redirect traffic to a specific IP address.
 Redirect to Service - Redirect traffic to a service on the Barracuda Firewall.
 Bi-directional - Source and destination networks are interchangeable.*

Name: LAN-2-YOUTUBE4SCHOOLS

Description:

Connection: Default (SNAT)

Adjust Bandwidth: Internet

The interface must have bandwidth management enabled on the NETWORK > IP Configuration page for this policy to be applied.

Bi-directional: ☐ Yes ☒ No

Disable: ☐ Yes ☒ No

IPS: ☒ Yes ☐ No

Application Control: ☒ Yes ☐ No

URL Filter: ☐ Yes ☒ No

Safe Search: ☐ Yes ☒ No

Virus Protection: ☐ Yes ☒ No

SSL Inspection: ☒ Yes ☐ No

URL Filter, Virus Protection and SSL Inspection depend on Application Control enabled. URL Filter and Virus Protection require a valid Web Security subscription.

Source

Internet +

Ref: Trusted LAN -

Network Services

FTP +

HTTP+S -

Destination

Any +

Ref: Internet -

☒ Network Objects ☐ IP Address ☐ Geo Loc.

☒ Network Objects ☐ IP Address ☐ Geo Loc.

Cancel Save

6. Click the **Advanced** tab.

7. Set **YouTube for Schools** to **Yes**.

Valid For Users

All Authenticated Users +

If no users are added to this rule, then any user information in the traffic will be ignored.

Apply only during this time

None ▼

Select or create new time objects to define a time frame this rule shall be applied. One time object may be selected.

Denial of Service and Spoofing Protection

Interface Group: Matching ▼

*Select the interface(s) the rule applies to or select **Any** to match all interfaces. **Matching** automatically determines the interface.*

SYN Flood Protection: ☒ Automatic ☐ Always On

*Automatically detects SYN flood attacks and switches to a different TCP handshake mode to protect the network. **Default:** Automatic*

Maximum Sessions: 0

*Maximum number of accepted concurrent connections for this rule. **Default:** 0 = unlimited*

Maximum Sessions per Source: 0

*Maximum number of accepted concurrent connections per source address. **Default:** 0 = unlimited*

Other

YouTube for Schools: ☒ Yes ☐ No

*Activates the YouTube for Schools feature for this access rule. Only available if a corresponding Youtube for Schools token has been provided in the Firewall -> Settings page. **Default:** No*

8. Click **Save**.

Step 3. Verify the Order of the Access Rule

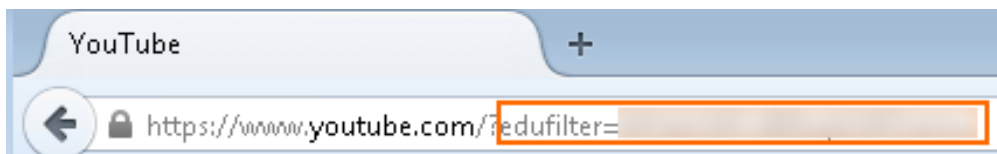
New rules are created at the bottom of the firewall ruleset. Rules are processed from top to bottom in the ruleset. Drag your access rule to a slot in the rule list, so that no access rules before it matches this traffic. Verify that your rules are placed above the BLOCKALL rule. Otherwise, the rule never

matches.

After adjusting the order of rules in the ruleset, click **Save**.

Step 4. Verify that YouTube for Schools is Working

1. Open your browser and go to www.youtube.com.
2. Verify that the parameter **edufilter** followed by your YouTube for Schools token is appended to the URL.



Figures

1. YouTube_01.png
2. YouTube_02.png
3. YouTube_03.png
4. YouTube_05.png
5. YouTube_06.png

© Barracuda Networks Inc., 2024 The information contained within this document is confidential and proprietary to Barracuda Networks Inc. No portion of this document may be copied, distributed, publicized or used for other than internal documentary purposes without the written consent of an official representative of Barracuda Networks Inc. All specifications are subject to change without notice. Barracuda Networks Inc. assumes no responsibility for any inaccuracies in this document. Barracuda Networks Inc. reserves the right to change, modify, transfer, or otherwise revise this publication without notice.