

# Secure Cloud Transformation Ensures Bandwidth-Efficient Video Streaming

The Menlo Security Cloud Platform executes video streaming on a remote browser in the cloud, where policies can be controlled and implemented.

## Benefits:

- 100% malware-free video streaming
- No impact on performance or native user experience
- Saves bandwidth and related IT costs

Grainy and pixelated YouTube videos are a thing of the past. Users now expect high-quality video experiences that leverage cutting-edge technologies such as 4K resolution and interactive features. However, with increasing quality comes increasing bandwidth requirements. While the average 480p resolution video consumes 1.6 Mbps, the same video rendered in 1080p consumes 3.5 Mbps and a 4K version consumes 30 Mbps, an increase of nine times over the initial 480p consumption.

Companies must balance the user's growing expectations with the growing bandwidth costs of high-definition video. Growth in video bandwidth can very easily surpass Internet Access Point (IAP) capacity given a company of sufficient size. In fact, many enterprises are upgrading their IAPs, offering a better connection to meet ever-rising demand. However, increasing bandwidth comes with the caveat of requiring an upgrade of the security inspection stack in order to accommodate the increased bandwidth.

Clearly, a new approach is needed.

## Secure, Bandwidth-Efficient Video Streaming

The Menlo Security Cloud Platform is the perfect solution for reducing bandwidth consumption without affecting the native user experience. Network-based traffic shaping relies on throttling the Internet to force lower resolution and therefore results in a poor, unpredictable user experience. Alternatively, Menlo Security enforces the resolution set by an IT team's policy for users or groups with an extension on the remote browser. This provides native video resolution, ensuring a user experience that is familiar, native, and positive.

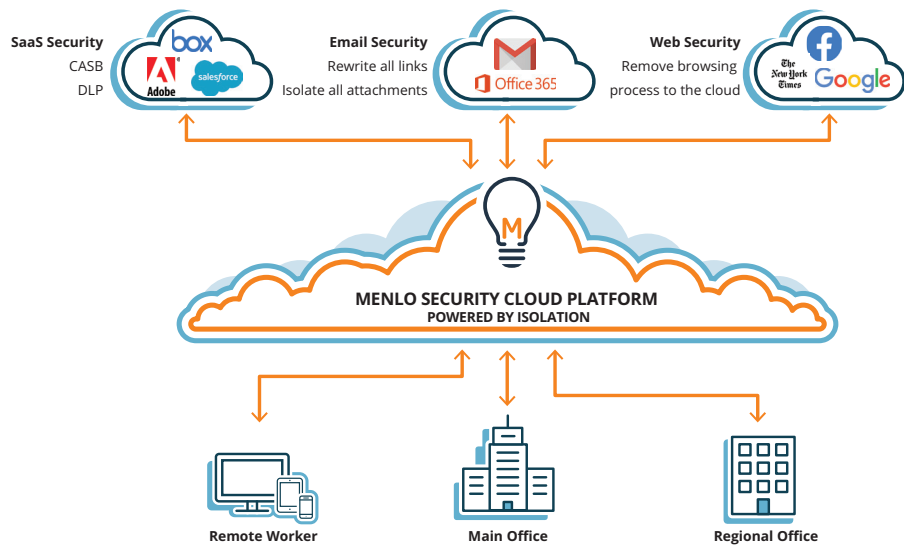
Menlo Security Cloud Platform is also aware of whether content is being streamed in the foreground or the background. If a user is watching a video in the foreground, Internet isolation can reliably enforce 480p resolution using 25.5 Mbps.



If, however, the user is listening to music in a background browser tab, Menlo will reduce the video resolution to 240p while continuing to stream audio. This further reduces bandwidth while remaining focused on the user's experience.

Menlo enforces the resolution set by an IT team's policy for users or groups using the remote browser.

### Secure Cloud Transformation



Internet isolation executes video streaming without compromising security integrity or the user experience. This table shows the amount of data transferred with and without Menlo Security:

In this example at right, Menlo Security reduced data transferred by **73 percent**, while maintaining a predictable, positive user experience.

User-1 <b>without</b> Menlo Security—Watching video in foreground tab @1080p	73.5MB
User-2 <b>without</b> Menlo Security—Listening to music in background tab @1080p	73.5MB
<b>Total data transferred</b>	<b>147MB</b>
User-1 <b>with</b> Menlo Security—Watching video in foreground tab @480p	25.2MB
User-2 <b>with</b> Menlo Security—Listening to music in background tab @240p	9.6MB
<b>Total data transferred</b>	<b>34.9MB</b>

To find out how Menlo Security can help your business reduce bandwidth consumption from video streaming while ensuring protection against malware, visit [menlosecurity.com](http://menlosecurity.com) or contact us at [ask@menlosecurity.com](mailto:ask@menlosecurity.com).

### About Menlo Security

Menlo Security protects organizations from cyberattacks by eliminating the threat of malware from the web, documents, and email. Menlo Security has helped hundreds of Global 2000 companies and major government agencies achieve Secure Cloud Transformation. The company's Cloud Security Platform scales to provide comprehensive protection across enterprises of any size, without requiring endpoint software or impacting the end-user experience. The company was named a Visionary in the Gartner Magic Quadrant for the Secure Web Gateway. © 2019 Menlo Security, All Rights Reserved.

#### Contact us

[menlosecurity.com](http://menlosecurity.com)  
(650) 614-1705  
[ask@menlosecurity.com](mailto:ask@menlosecurity.com)

