

I *used to* know what you watched, on YouTube

I *used to* know what you watched, on YouTube - Jeremiah Grossman, blog.jeremiahgrossman.com.

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Content

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In doing some crossdomain.xml Flash research I noticed that [YouTube's policy file](#) trusted *.google.com. They quickly removed it after I privately disclosed the following security flaw to Google.

My idea was if an attacker could upload an arbitrary Flash movie (SWF) anywhere on the google.com domain they could leverage that trust. So if an authenticated YouTube user visited an attacker-controlled page anywhere on the Web, the attacker could SRC in the google.com hosted SWF, and use it compromise the victims YouTube username, email address, first/last name, viewing history, and even comment or post/delete videos.

[Billy Rios](#) [blogged](#) in the past about being able to upload arbitrary files to google.com, but the only place I could locate that allowed SWFs when I checked was Gmail. Maybe others?

Anyway, I emailed a SWF attachment to a Gmail account and located the download URL. Perfect, but the next problem was even with the correct URL the victim is not authorized to view the file unless they are authenticated on THAT particular Gmail account. This is where the [login-CSRF / identity misbinding trick](#) the Stanford guys wrote up came in quite handy.

Here's the step by step.

1. Attacker emails a special SWF to a Gmail account they control and locates the attachment download URL on google.com.
2. Logged-in YouTube user visits an attacker controlled page

3. Attacker forces their victim to authenticate to the attackers Gmail account (identify misbinding / CSRF).
4. Attacker embeds SWF from the Gmail account into the web page
5. Attacker now has read write access on YouTube.com as the victim's account.

Video:

Clever eh? :) I'm sure the Google/YouTube aren't the only places where this particular scenario is still possible.

Many thanks to Rich Cannings and Chris Evans from the [Google Security team](#) who sheperded this along!

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