



How to get the best out of your bug bounty program

A view from both sides



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EdOverflow

Bug Bounty Program VS Vulnerability Disclosure Program

Public
VS
Private

Scope

https://example.com/

https://example.com/*

*.example.com

In Scope

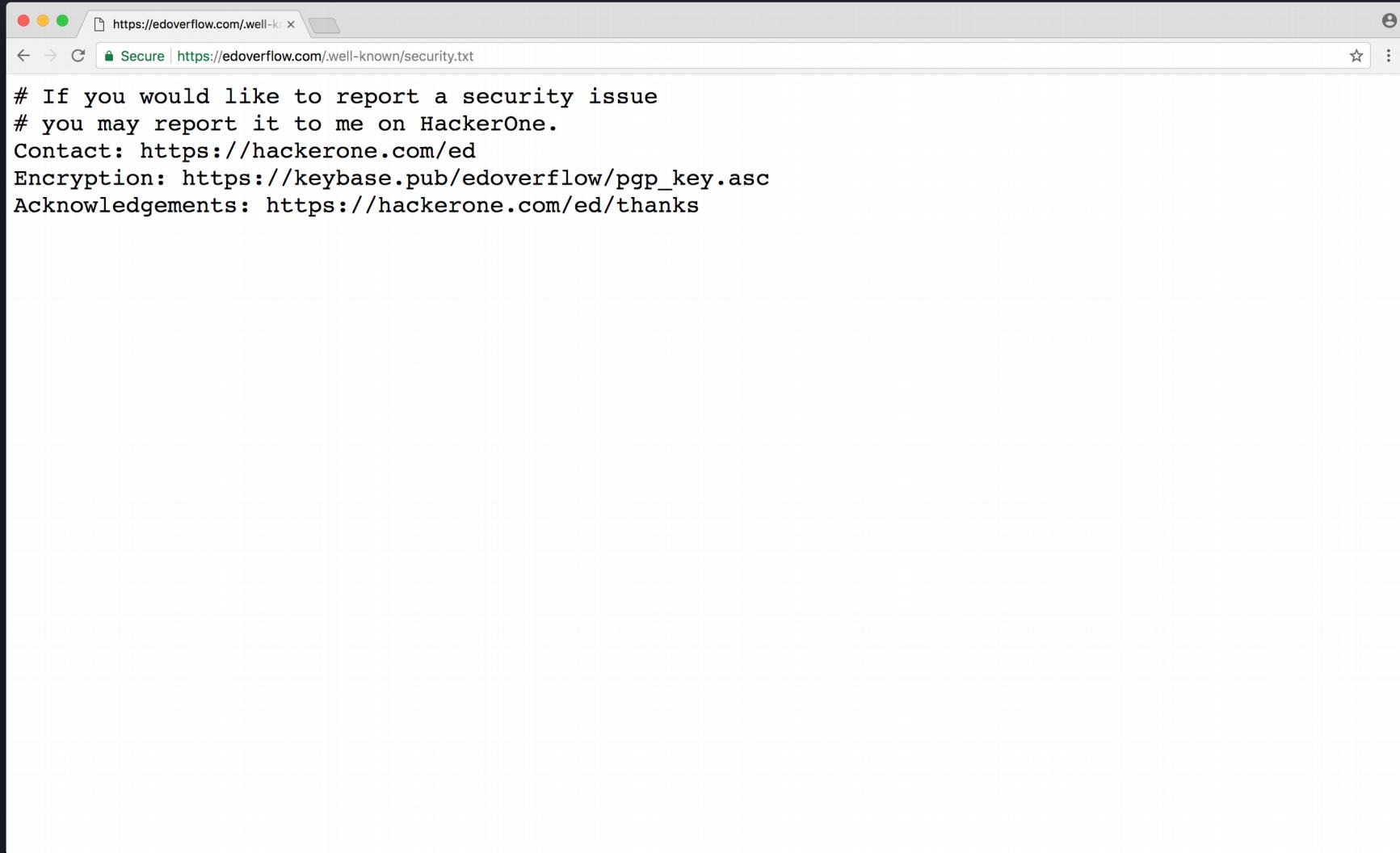
Note: Severity shown here only indicates the **maximum** severity possible for reports submitted to the Asset.

Domain	[REDACTED]	 Critical	Eligible for bounty
Domain	[REDACTED]	 Critical	Eligible for bounty
Domain	[REDACTED]	 High	Eligible for bounty
Other	other	 Critical	Eligible for bounty

Last updated on November 30, 2017. [View changes](#)



**Use *security.txt* to define
your scope**



A screenshot of a web browser window displaying a security.txt file. The browser has a light gray header bar with standard window controls (red, yellow, green) and a back/forward button. The address bar shows the URL <https://edoverflow.com/.well-known/security.txt>. Below the address bar, a green lock icon indicates a secure connection. The main content area of the browser displays the following text:

```
# If you would like to report a security issue
# you may report it to me on HackerOne.
Contact: https://hackerone.com/ed
Encryption: https://keybase.pub/edoverflow/pgp_key.asc
Acknowledgements: https://hackerone.com/ed/thanks
```

There is software code with better security today than yesterday.

In scope targets

In-scope:

www.lahitapiola.fi
verkkopalvelu.lahitapiola.fi
verkkopalvelu.tapiola.fi
yrityspalvelu.tapiola.fi
viestinta.lahitapiola.fi

Reward: range from \$50USD up to \$50,000USD

Our security address

Contact: security[at]lahitapiola.fi

Our vulnerability disclosure program

Platform: <https://hackerone.com/localtapiola>

Dedicated staff

Ways to inform third parties

Service status: Security Issue

2018.01.09 Issue with TLS-SNI-01 and Shared Hosting Infrastructure

Incidents



josh ISRG Executive Director

1 5h

Jan 10

1 / 2

Jan 10

At approximately 5 p.m. Pacific time on January 9, 2018, we received a report from Frans Rosén of Detectify outlining a method of exploiting some shared hosting infrastructures to obtain certificates for domains he did not control, by making use of the ACME TLS-SNI-01 challenge type. We quickly confirmed the issue and mitigated it by entirely disabling TLS-SNI-01 validation in Let's Encrypt. We're grateful to Frans for finding this issue and reporting it to us.

We'd like to describe the issue and our plans for possibly re-enabling TLS-SNI-01 support.

Problem Summary

In the ACME protocol's TLS-SNI-01 challenge, the ACME server (the CA) validates a domain name by generating a random token and communicating it to the ACME client. The ACME client uses that token to create a self-signed certificate with a specific, invalid hostname (for example, 773c7d.13445a.acme.invalid), and configures the web server on the domain name being validated to serve that certificate. The ACME server then looks up the domain name's IP address, initiates a TLS connection, and sends the specific .acme.invalid hostname in the SNI extension. If the response is a self-signed certificate containing that hostname, the ACME client is considered to be in control of the domain name, and will be allowed to issue certificates for it.

5h ago

 Terminal

```
$ ./contact.sh -d google.com
```

by EdOverflow

[+] Finding security.txt files
| Confidence level: ★★★

```
[+] Checking HackerOne's directory for hostname  
| Confidence level: ★★★  
https://hackerone.com/doubleclick  
https://hackerone.com/google
```

```
[+] Checking Bugcrowd's list for hostname  
| Confidence level: ★★★  
https://www.google.com/about/appsecurity/patch-rewards/index.html  
https://www.google.com/about/appsecurity/reward-program/  
http://www.google.com/about/appsecurity/android-rewards/  
http://www.google.com/about/appsecurity/reward-program/
```

A photograph of a man with dark hair and glasses, wearing a grey and white plaid shirt. He is looking down at a laptop screen, which is visible in the bottom right corner of the frame. The background is slightly blurred, showing what appears to be a workshop or laboratory setting with various equipment and tools.

Incident response

Service-level agreement

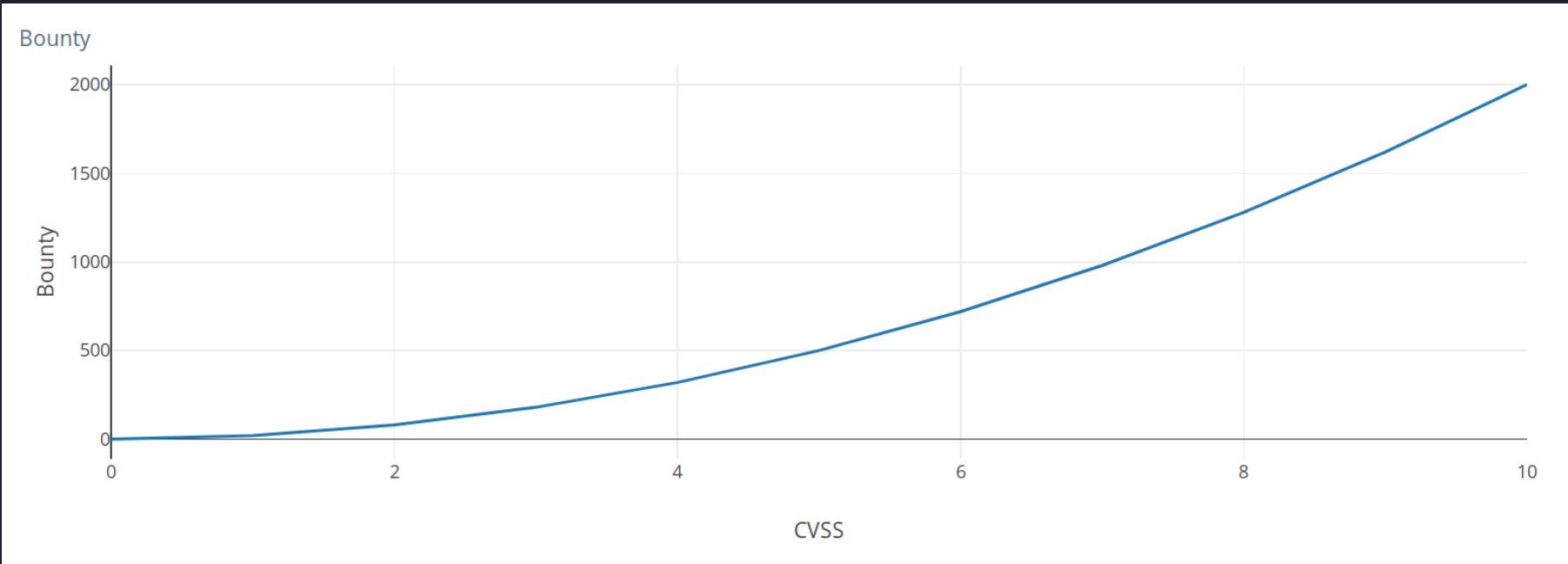
Bounties

$$\forall C(0\leq C\leq 10)$$

$$\forall n(n \in \mathbb{R}^+ \wedge 1.0 \leq n \leq 3.0)$$

$$N=\frac{b_{max}}{(C_{max})^n}$$

$$b=N\times(C^n)$$





Julia Galef 
@juliagalef

Follow



Aquarium rewards dolphins w/a fish if they bring a piece of litter or dead gull (to help keep pool clean)

One dolphin starts (1) tearing pieces of litter into smaller pieces & trading each piece in for a reward & (2) stockpiling fish to lure & kill gulls



Why dolphins are deep thinkers

The more we study dolphins, the brighter they turn out to be, writes Anuschka de Rohan

theguardian.com

Make triaging easier

Template Generator

localhost:8000

sub-domain_takeover_false_po

Clear

username	
triaiger	

Hi {{username}},

Thank you for the report. Unfortunately, this appears to be a false positive. We are currently unable to find a way of claiming this sub-domain. You have our permission to attempt to take over the sub-domain. To verify the issue, simply upload the following proof of concept: https://github.com/EdOverflow/bugbountyguide/blob/master/files/sub-domain_takeover.html. If you are able to find a way, please report back and we will accept your report.

Have fun!

{{triaiger}}

Hi {{username}},

Thank you for the report. Unfortunately, this appears to be a false positive. We are currently unable to find a way of claiming this sub-domain. You have our permission to attempt to take over the sub-domain. To verify the issue, simply upload the following proof of concept: https://github.com/EdOverflow/bugbountyguide/blob/master/files/sub-domain_takeover.html. If you are able to find a way, please report back and we will accept your report.

Have fun!

{{triaiger}}



BOT: [Gratipay](#) posted a comment.

Jun 17th (7 months ago)

Hi,

Thanks for the report. Unfortunately, this has already been reported to us. We look forward to more reports from you in the future.

Best regards,

The Gratipay Security Team

Consider the hunter's
reputation

**Familiarise yourself with the
community**

Hire bug bounty hunters

Bug Bounty Guide

I am a
bug
bounty
program

I am a
bug
bounty
hunter

GET STARTED →

GET STARTED →