

Marc Seeger (@rb2k)
Boston Devops Meetup
May 20th 2014

Act 1: Technology

7:24 PM



7:30 PM



Marc ★★★☆ @rb2k · Apr 7 IP, TCP, and HTTP - Syncing Data - objc.io issue #10 j.mp/1clubFR via

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7:26 PM



7:33 PM



To: hosting-eng Engineering OpenSSL Heartbleed Bug 7 Apr 2014 19:33 Hide Details Sent - acquia ¶



http://heartbleed.com/

I'm on my phone at the moment, but that doesn't sound fun.

Sent from my iPhone



Retweeted by Marc



I no longer even have the capacity to be surprised by or upset with SSL. You could tell me it murders children and I would be like k

Expand







Marc ★★★☆ @rb2k · Apr 7

Ugh, another OpenSSL bug. This one is bad: heartbleed.com

Update your stuff. Now.

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Quick risk assessment

Lucid:

[00:35:27] root@bal-2.dev:~# openssl version OpenSSL 0.9.8k 25 Mar 2009

Precise:

[00:34:37] root@master.dev:~# openssl version

OpenSSL 1.0.1 14 Mar 2012

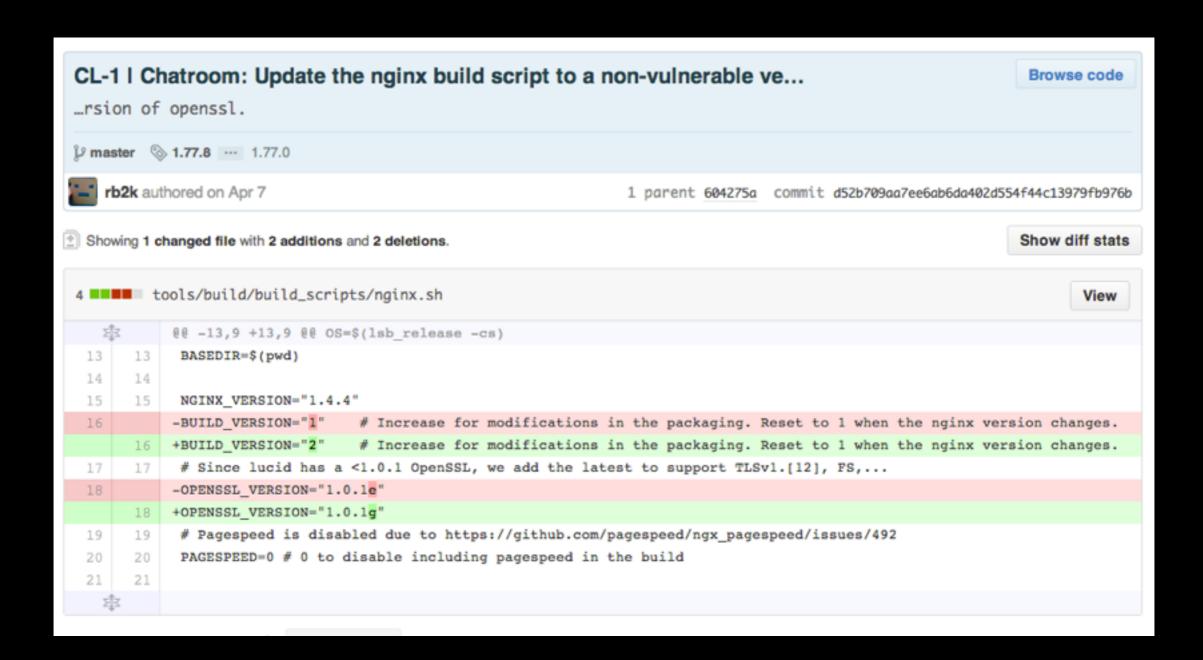
Where's Waldo OpenSSL



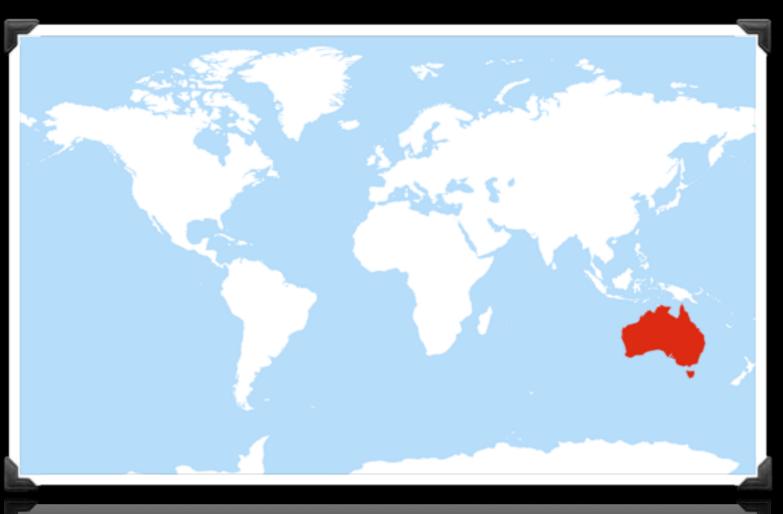
8000 EC2 Machines:

- 99.9% of them puppetized
- Candidates:
 - Balancers
 - SVN Servers
 - Appliances
 - ELBs
 - 3rd party AMIs
 - Unique little snowflakes (Jira, Crucible,...)

Let the patching begin



Rollout



Australia:

Con:

- Spiders
- Snakes

Pro:

- Ops is awake

Rollout



Scan



Waiting on ELBs...



Internal Certificates

Hall and the



Suddenly: "reverse" Heartbleed



Act 2: Communication

Internal

- Pre-determined chat rooms
- Dial-in conference bridges
- A communication plan



Thanks SSAE-16, PCI and FedRAMP... I guess:)

Statuspage + Twitter



Documentation

https://docs.acquia.com/articles/heartbleed-acquia-cloud

Heartbleed (CVE-2014-0160) on Acquia Cloud

On April 7, 2014, a security vulnerability with servers running the OpenSSL cryptographic library was revealed at http://heartbleed.com.ex. The security advisory for this vulnerability is CVE-2014-0160 ex. Acquia has completed maintenance on all servers and infrastructure to close this vulnerability and ensure that Acquia Cloud customer sites are protected.

For more information on Acquia's response to Heartbleed, please see the blog post Protecting Enterprise Drupal Users Against Heartbleed.

Actions to take

At this time Acquia is recommending that customers should complete the following actions:

- Rekey P your SSL certificates. Customers should read the first FAQ question in the next section to determine the action they need to take for their sites and begin the process to retrieve their rekeyed certificate from their Certificate Signing Authority (CSA), if necessary.
- Reset your Drupal passwords, especially site administrative password(s) and the passwords of any users with elevated permissions. See the following document for further information: How do I reset my admin password in Drupal 7?.
- Audit all SSH keys. See Adding a public key to your server for information on viewing your keys.
- Reset all Acquia Network passwords.

FAQ

Here are the answers to some common questions:

How can I tell if I am affected?

- If you are not using SSL on your website, you are not affected by this security vulnerability, and you
 can ignore this article.
- If you are using SSL on your website, you are affected and you should rekey your SSL certificate as

Proactive communication



Phone calls by Acquia support, TAMs, ...

Since then: Post mortem



Since then: Incident Commander



(shamelessly stolen from Heroku)

http://en.wikipedia.org/wiki/Incident_command_system

Since then:

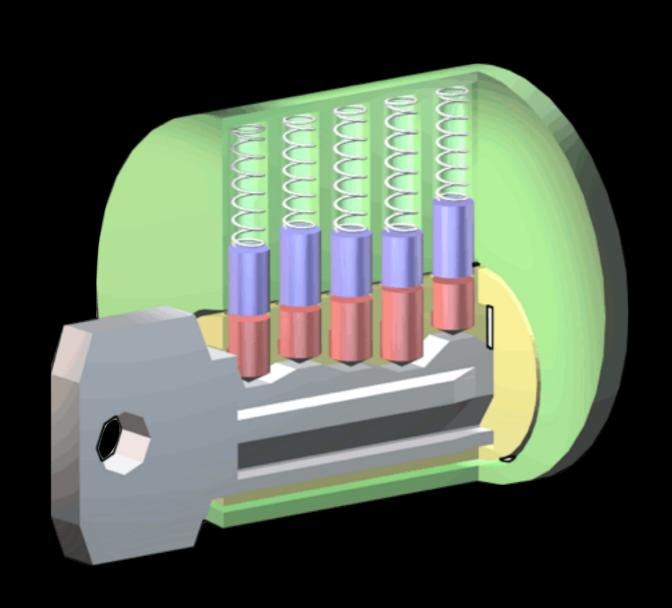
Dedicated resource to vet security threats

IF YOU SEE SOMETHING. SOMETHING.

Since then: Clean up intranet docs



Since then: Additional tooling



We're hiring

(shameless self promotion)

bit.ly/acquiajobs

Engineering

Cloud Software Engineer

Cloud Systems Engineer

Cloud Systems Engineer (EMEA)

Director, Platform Tools & Services

<u>Distributed Systems Cloud Engineer</u>

Drupal Engineer

Senior Cloud Systems Engineer

Burlington, MA United States

Burlington, MA United States

Reading, United Kingdom

Burlington, MA United States

Burlington, MA United States

Burlington, MA United States

Burlington, MA United States