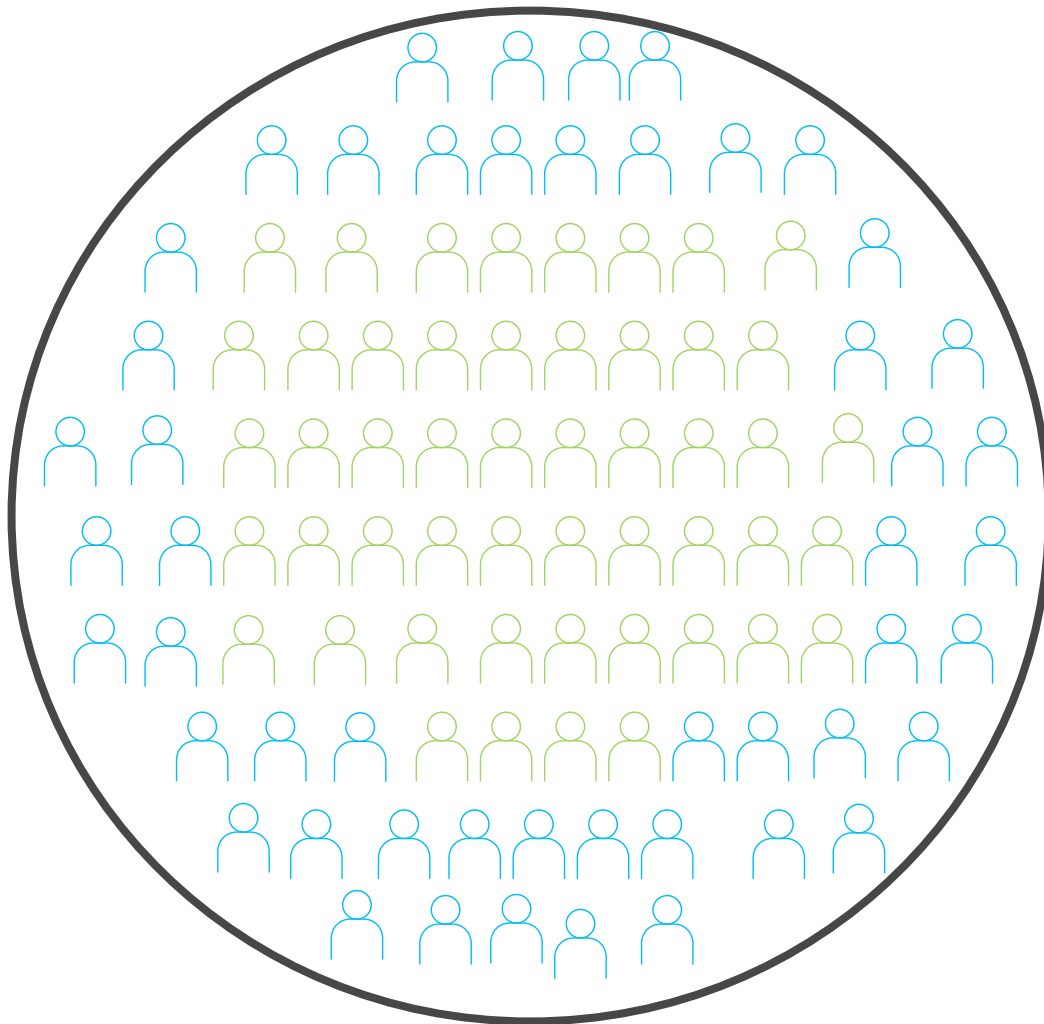




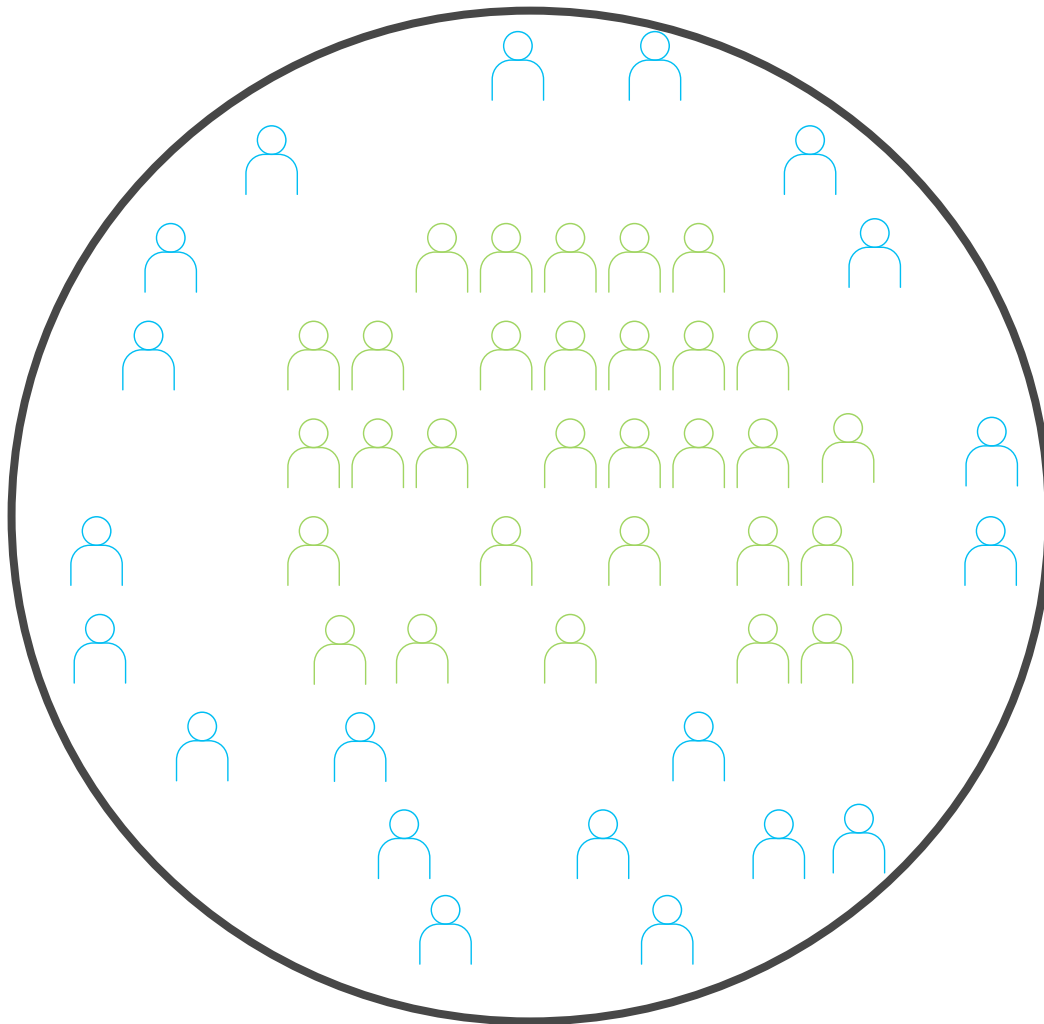
The Power of Community

Robert Haynes

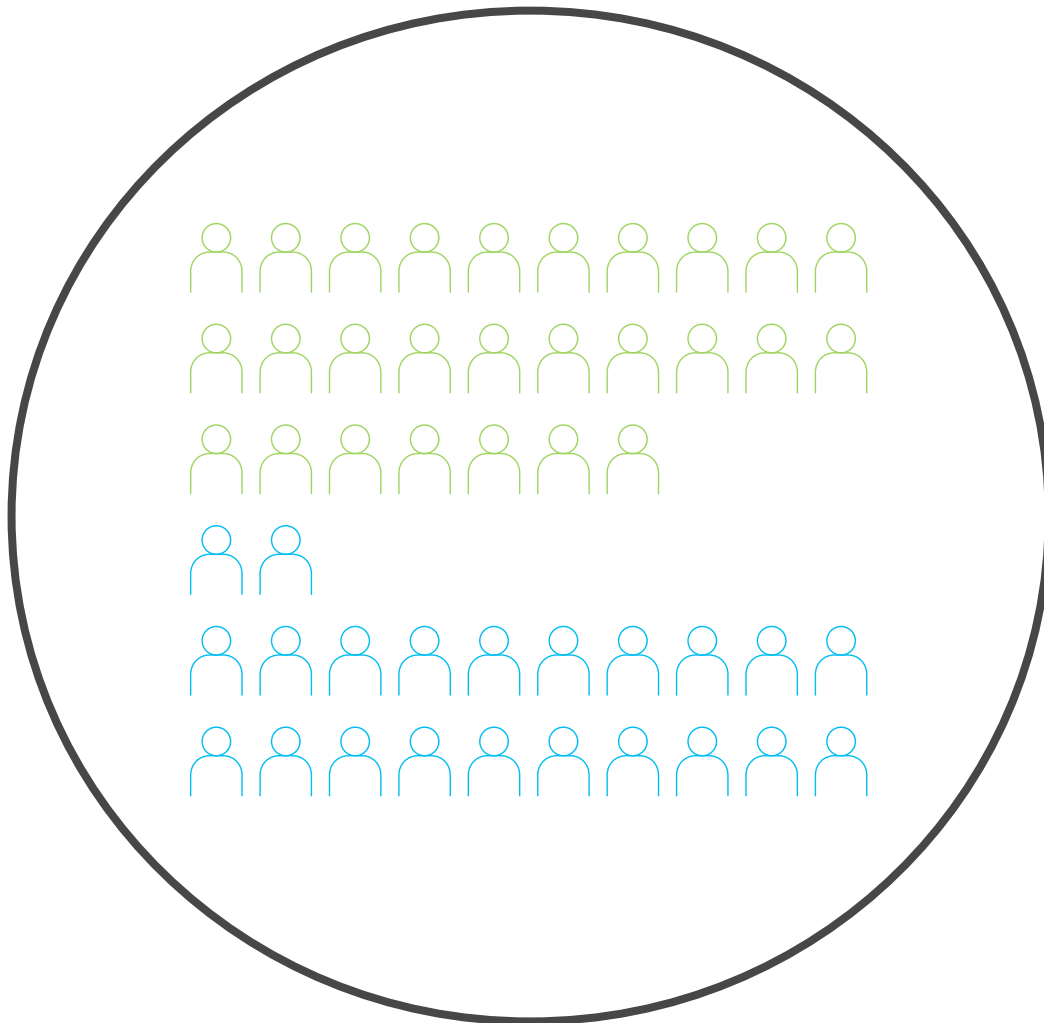


Take 100 people

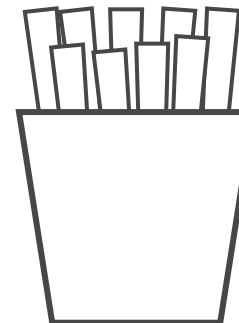
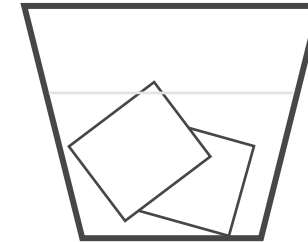
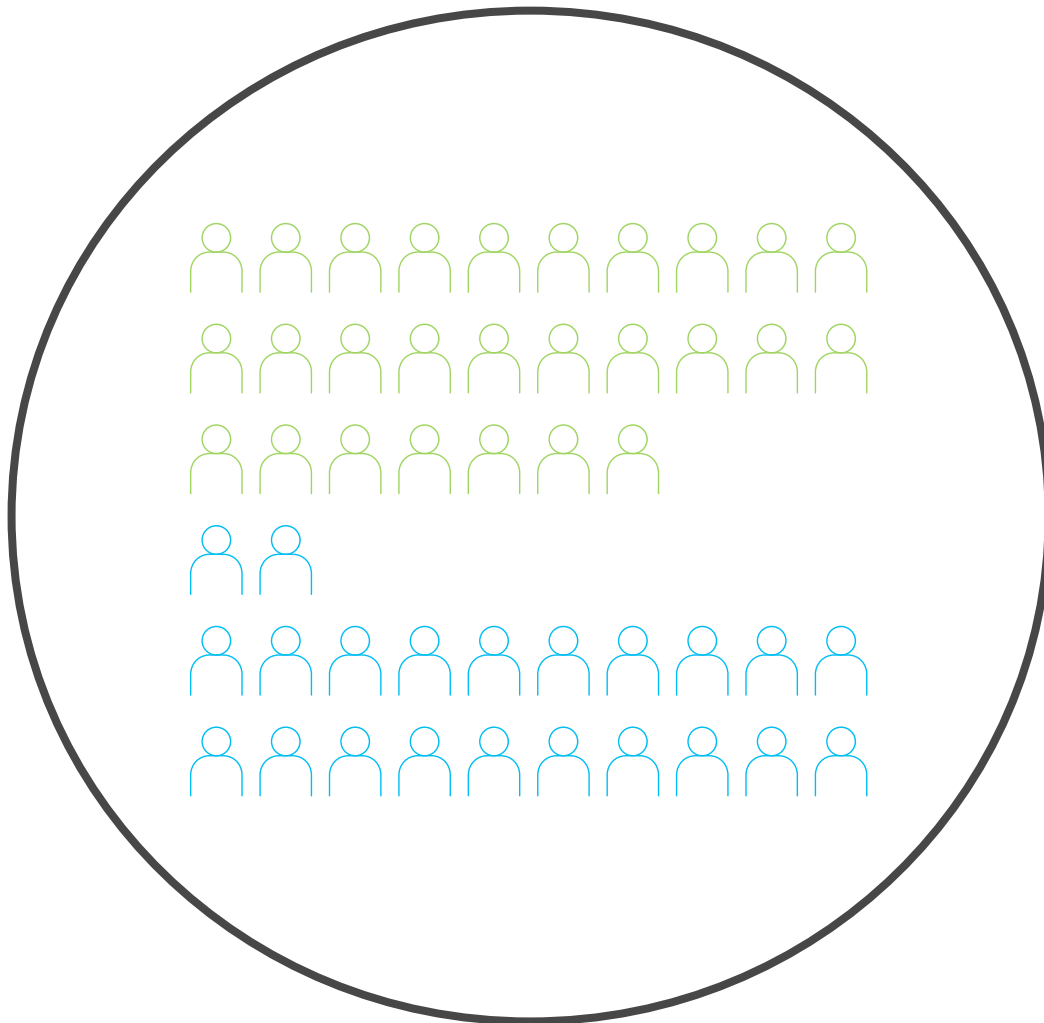
50 Have 'strong community ties', 50 don't.

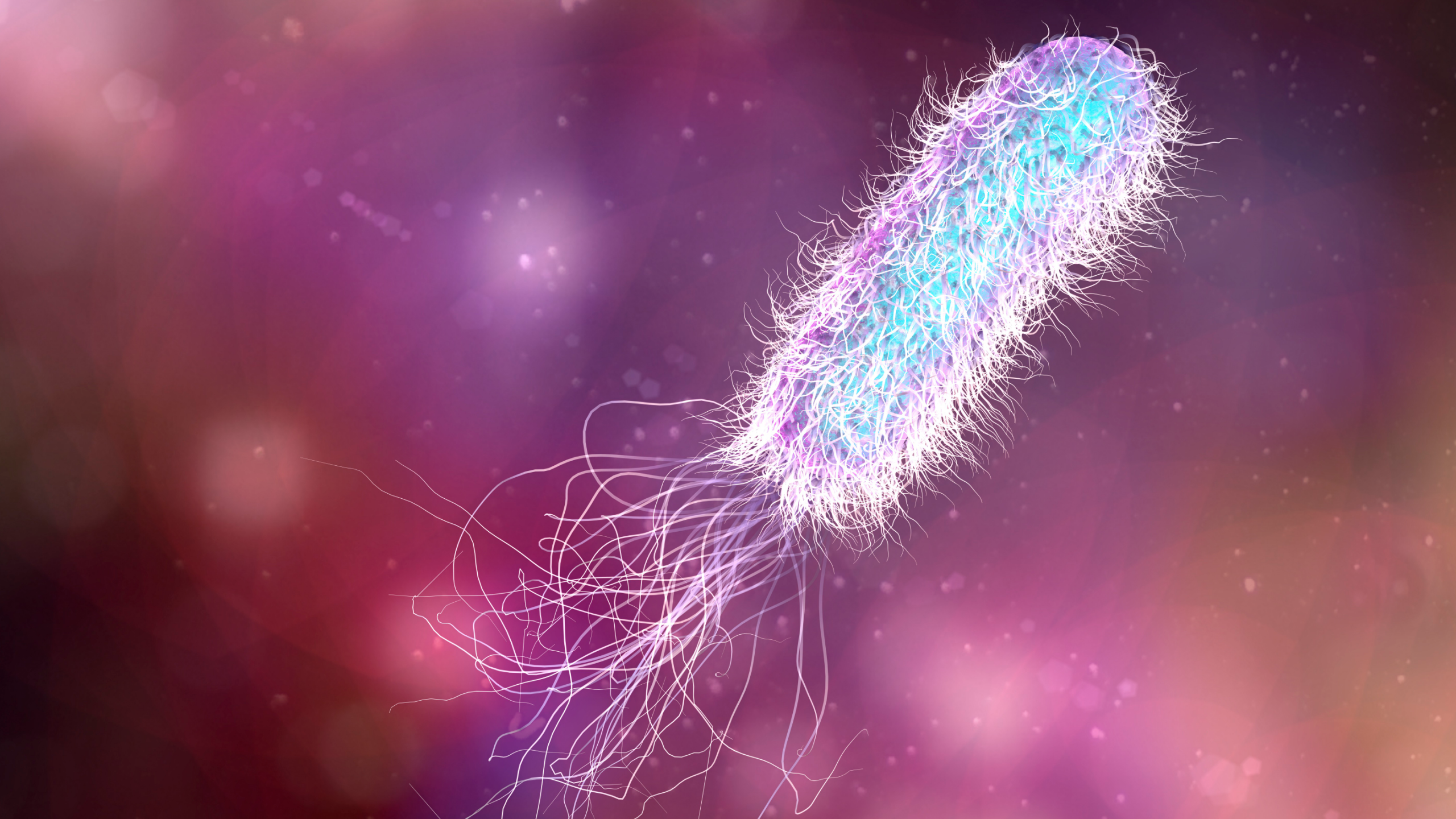


Eventually 50 die



5 more Community people live.

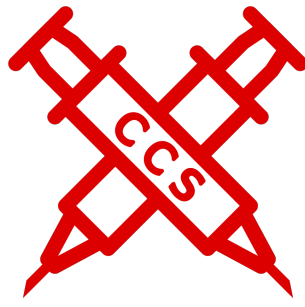




Good news: IT is (mostly) not life or death



1



2



3



4



5

(Whatever the logos might suggest)

¹By Leena Snidate / Codenomicon - <http://heartbleed.com/heartbleed.svg>, CC0, <https://commons.wikimedia.org/w/index.php?curid=32089280>

²By Lepidum Co. Ltd. - <http://ccsinjection.lepidum.co.jp/>, CC0, <https://commons.wikimedia.org/w/index.php?curid=51826364>

³By Qihoo 360 Co. Ltd. - <http://security.360.cn/cve/CVE-2016-6304/>, CC0, <https://commons.wikimedia.org/w/index.php?curid=52346391>

⁴By CrowdStrike Inc. - <https://web.archive.org/web/20150513104122/http://venom.crowdstrike.com/>, CC BY-SA 4.0,

⁵By Natascha Eibl - <https://meltdownattack.com/>, CC0, <https://commons.wikimedia.org/w/index.php?curid=65235937>

A long time ago

Security

'Devastating' Apache bug leaves servers exposed

Devs race to fix weakness disclosed in 2007

By [Dan Goodin](#) 24 Aug 2011 at 18:05

42 

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Maintainers of the Apache webserver are racing to patch a severe weakness that allows an attacker to use a single PC to completely crash a system and was first diagnosed 54 months ago.

Attack code dubbed “Apache Killer” that exploits the vulnerability in the way Apache handles HTTP-based range requests was [published Friday](#) on the Full-disclosure mailing list. By sending servers running versions 1.3 and 2 of Apache multiple GET requests containing overlapping byte ranges, an attacker can consume all memory on a target system.



madi 56757 asked a question.

August 25, 2011 at 5:09 AM

Apache Killer

hello all,

I need help for following rule

We need an irule to avoid an exploit on Apache

Apache syntax

RewriteEngine On

RewriteCond %{REQUEST_METHOD} ^(HEAD|GET) [NC]

RewriteCond %{HTTP:Range} ([0-9]*-[0-9]*) (\s*,\s*[0-9]*-[0-9]*)+

RewriteRule .* - [F]



dlg 23340

8 years ago

```
1 when HTTP_REQUEST {
2   if { [HTTP::header exists "Range"] and ([HTTP::header "Range"] matches_regex {(,.*?){40,}}) } {
3     log local0. " Range attack CVE-2011-3192 detected from [IP::client_addr].  [llength [split
[HTTP::header "Range"], ","]] ranges requested."
```

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[Upvote](#) · [Reply](#)



madi 56757

8 years ago

it seem to work

thank you very much for your help

[Show More](#)

[Upvote](#) · [Reply](#)



naladar 65658

8 years ago

Cool iRule dlg! :)

[Upvote](#) · [Reply](#)



dlg 23340

8 years ago

After another announcement from the apache folks and little help from smp offline, we have this:

```
1 when HTTP_REQUEST {
2   HTTP::header remove Request-Range
```

[Show More](#)

[Upvote](#) · [Reply](#)



zero 39359

8 years ago

May I know is there any difference for "[0-9]*[40,]" on irule and "[0-9]*[5,]" on CVE-2011-3192, it seem the counter is difference, your irule is count for 40 and the CVE-2011-3192 is count for 5 range, thanks!

[Upvote](#) · [Reply](#)



dlg 23340

8 years ago

zero, the 5 from the CVE seemed too restrictive, given the legitimate uses of the Range header. It ends up we could withstand quite a few simultaneous attacks at 40, so it seemed like a good balance between blocking bad traffic and allowing good traffic.

Meanwhile.....

Solutions Now Available for Apache Killer

Posted on: **September 7, 2011** at 3:54 am Posted in: **Vulnerabilities**

Author: **Kim Chanwoo (Security Specialist)**



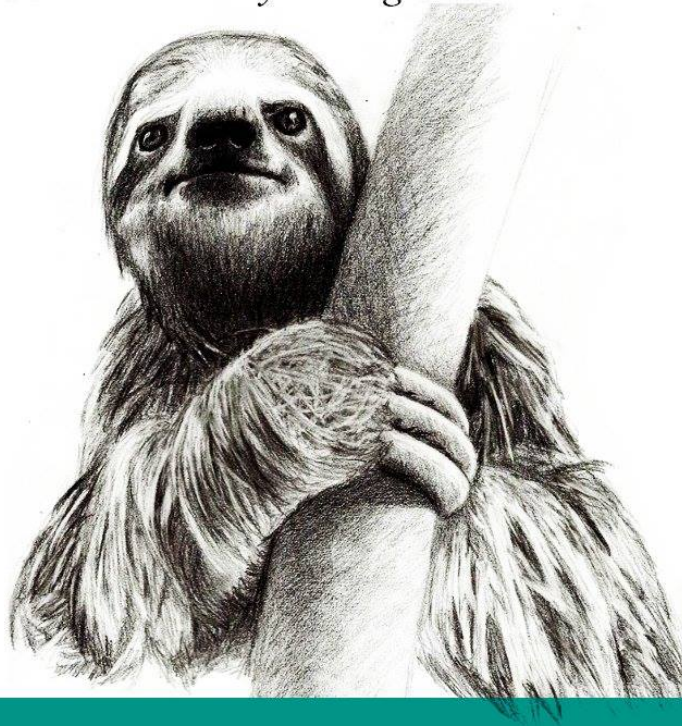
If you are a frequent reader of this blog, you are more or less already familiar with denial-of-service (DoS) attacks. Such an attack typically targets specific systems or servers and “floods” it with information in order to prevent legitimate users from accessing information or services.

This time around, we observed a DoS attack exploiting a specific vulnerability. This is different from the usual known DoS attack methods. DoS attacks are typically done by flooding the target site with traffic (SYN flooding, UDP flooding, ICMP flooding). What makes this attack noteworthy, however, is that it does not require the use of a huge amount of traffic. All the attacker has to do is to send the especially crafted HTTP request, which will render the site inaccessible.

We recently did a deeper analysis of the said vulnerability (**CVE-2011-3192**) found in certain versions of *Apache HTTP Server* that allows a remote attacker to conduct a DoS attack by sending a small HTTP request.

The vulnerability exists in the *byterange* filter in *Apache HTTP Server 1.3.x, 2.0.x* through *2.0.64* and *2.2.x* through *2.2.19*. It can be exploited by a range header that expresses multiple overlapping ranges. The **proof of concept** for the exploit that abuses this vulnerability was published in August. A tool that conducts DoS attacks by exploiting this vulnerability was later created and dubbed as the “Apache Killer.” Apache already **patched this security hole last week**.

Cutting corners to meet arbitrary management deadlines



Essential

Copying and Pasting from Stack Overflow

Who, me?

O'REILLY®

The Practical Developer
@ThePracticalDev

Source: @thePracticalDev (I think)



A cartoon illustration of a person with a wide-open mouth, eyes wide open, and arms raised in shock or surprise. A black arrow points down towards the person's head.

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“You can buy every ‘DevOps’ tool in the market and end up further away from your DevOps goals than you are now.”¹

Without an empowered community
who work together to deliver – you
will fail²

¹ Somebody I read on the internet somewhere

² Me

The F5 and NGINX Community



dev/central
AN F5 COMMUNITY

NGINX

Forum

Our Commitment to Communities



300K Users



400M websites



>\$500k donations

