

MAY 2016

In the Boxing Ring

Network Box Technical News

from Mark Webb-Johnson, CTO Network Box

Welcome to the May 2016 edition of In the Boxing Ring

This month, Network Box USA's CTO, Pierluigi Stella, discusses the *Harvard Report on Encryption*. The report, evaluates 865 encryption products from 55 countries, and also questions the US mandate forcing back-doors for law-enforcement access. However, by having these in place, leaves vulnerabilities for Hackers to exploit. Pierluigi discusses this issue in greater detail on pages 2-3.

On pages 4-5, we highlight the features and fixes to be released in this month's patch Tuesday for Network Box 5 and Network Box 3. Based on Sunset Policy, we will

continue to support, Network Box 3 until at least late 2018.

Finally, Network Box is proud to announce that *Network Box 5 UTM+* won the **Cybersecurity Excellence Awards**, and the company also won the *Best Network Security Provider* at this year's **Capital Outstanding Enterprise Awards**. In addition, Network Box China was at the China IT Expo 2016, and Network Box Indonesia participated at the Microsoft/Deloitte Cyber Security Event.



Mark Webb-Johnson
CTO, Network Box Corporation Ltd.
May 2016

You can contact us here at HQ by eMail (nbhq@network-box.com), or drop by our office next time you are in town. You can also keep in touch with us by several social networks:

twitter <http://twitter.com/networkbox>

facebook <http://www.facebook.com/networkbox>
<http://www.facebook.com/networkboxresponse>

Linked in <http://www.linkedin.com/company/network-box-corporation-limited>

Google+ <https://plus.google.com/u/0/107446804085109324633/posts>

In this month's issue:

2-3

The Harvard Report on Encryption

Network Box USA's CTO, Pierluigi Stella, discusses the issues of backdoors found on encryption products from the USA. To view the original report, please use this link:

https://cyber.law.harvard.edu/publications/2016/encryption_survey/

4-5

Network Box 5 and Network Box 3 Features

The features and fixes to be released in this month's patch Tuesday for Network Box 5 and Network Box 3. Based on Sunset Policy, we will continue to support, Network Box 3 until at least late 2018.

5

Network Box Highlights:

- **Capital Outstanding Enterprise Awards**
Best Network Security Provider
- **Cybersecurity Excellence Awards**
Unified Threat Management - *Winner*
- **Network Box China**
China IT Expo (CITE) 2016
- **Network Box Indonesia**
Microsoft/Deloitte Cyber Security Event



The Harvard Report on ENCRYPTION

by Pierluigi Stella

Chief Technology Officer
Network Box USA

Earlier this year, Bruce Schneier of Harvard University - Berkman Center for Internet and Society, collaborator Kathleen Seidel, together with Harvard College student Saranya Vijayakuma, published a report on 865 encryption products from 55 different countries. In the report, Schneier questions the efficacy of any US mandates forcing backdoors for law-enforcement access.

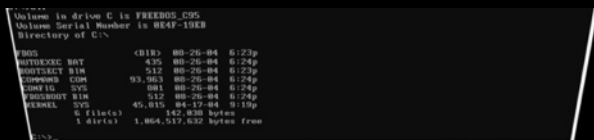
Contrary to what many Americans seem to believe (FBI and US Gov included), the Harvard report reveals that encryption is no longer just a domestic thing. Though the largest percentage of companies offering encryption software is still based in the US, many other countries have developed their own products. Germany for example, has some very stringent rules pertaining to how private data should be transmitted and stored, and based on these rules, several products have been created, all of which comply with German standard requirements. All these clearly fly in the face of the FBI 'fuss' over Apple not wanting to create a backdoor to allowing them to hack iPhones at will. The only people affected by such backdoors would be honest, unassuming citizens. People like you, and like me, who have nothing to hide and therefore, would never go looking for a different encryption. Hackers, criminals and terrorists would, more than likely, acquire someone else's technology, rendering those backdoors useless, and sending the FBI right back to square 1.



It's especially important to highlight that when you put in a government mandated backdoor, the only ones affected are those who really have nothing to hide. I'm inclined to be not overly bothered by the issue because I really don't care if the FBI checks my texts. There might be other people from whom I want to hide them, but certainly not the FBI because there's absolutely nothing illegal in them!

As such, I may choose to live with any backdoor they put in, in the knowledge that it's unlikely they'll ever need to snoop in my phone. But that backdoor, as the survey authors rightly pointed out, will likely cause vulnerabilities that, if found by hackers, will expose my data to them. And that, I do not want.

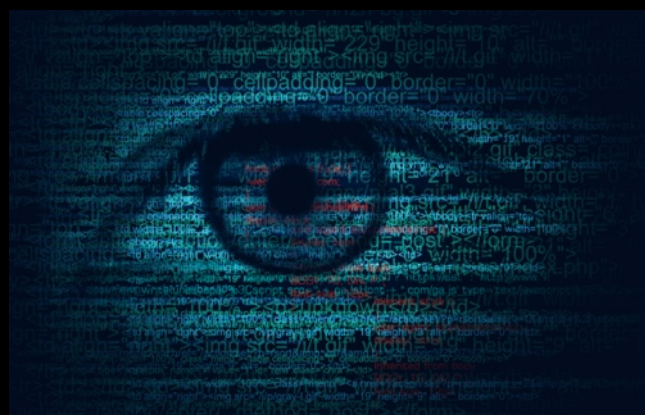
Hackers are great researchers; they find vulnerabilities in products before the authors of those products do. Do you think they won't find the backdoors? And when they do, all of Apple's users' data will be exposed. And for what? For the FBI to be able to decrypt the phone of 1 person, who might be smart enough to use a product from another country anyway, thus rendering all this discussion completely moot.



US companies, and US people in particular, need to learn the meaning of "the world is flat". There's a very nice book by Thomas L. Friedman of that same title which, I firmly believe, both the FBI and the US government should read.

We live in an open world; and the Internet has made it all the more easy for anyone to access anything from their couch. I don't need to fly to Tanzania to purchase their encryption software; I can just download it over the internet. Geographical barriers are nonexistent, and we all more or less

speak English to communicate. So, if I really have something to hide, I'll just purchase something that isn't American. Personally, I'm starting to think that even with computing products (routers, switches, laptops and the likes) I need to start looking outside the US.



To be honest, I'm quite tired of this tirade. I'm tired that every time we talk about this topic, the ONLY companies that turn out to be culpable are American companies.

I mean, I've yet to hear of a single Chinese company that has truly been found guilty of such doings; despite all the efforts made by our President to muddy the names of certain Chinese competitors of our major corporations. The Chinese government seems too preoccupied with spying on its own citizens to have time to spy on us.

Besides, what do they really care about the data in my iPhone? Each time we look deeper, the only backdoors we discover turn out to be from US companies.

Are YOU not tired of living in the beacon of the free world, all the while knowing that you're the only one truly being spied upon?



To view the *Harvard Report*, please use the link below:

https://cyber.law.harvard.edu/publications/2016/encryption_survey/

Network Box 5

NEXT GENERATION MANAGED SECURITY

On Tuesday, 3rd May 2016, Network Box will release our patch Tuesday set of enhancements and fixes. The regional SOC's will be conducting the rollouts of the new functionality in a phased manner over the next 14 days.

Network Box 5 Features May 2016

This month, for Network Box 5, these include:

- Improvements to system startup when database storage is unavailable
- New GMS sensor for URL scanning status
- New GMS sensor for LICENSING status
- New GMS sensor for CPU UTILISATION status
- Improvements to status display for DISKSPACE GMS sensor
- Improvements to NTP service, using more upstream NTP servers for greater stability
- Add support for 'primaryemail' entity attribute in LDAP synchronisation
- Enhanced support for SSL vpn idle timeouts on SSL VPN clients
- Performance improvements in core database subsystem
- Improvements to CSV export in reports
- Introduction of fine-grained control of quarantined email in user portal report
- Improved translations in user web portal
- Performance improvements in user web portal
- Performance improvements in admin web portal
- Improvements to admin web portal configuration pages
- Performance improvements in core scanning sub-system
- Improvements to mail scanning anti-spam performance and accuracy

In most cases, the above changes should not impact running services or require a device restart. However, in some cases (depending on configuration), a device restart may be required. Your local SOC will contact you to arrange this if necessary.

Should you need any further information on any of the above, please contact your local SOC. They will be arranging deployment and liaison.

Network Box ISO 9001 / ISO 20000 / ISO 27001 certified Security Operations Centre, ensures that customers' networks are protected against cyber threats, 24x7x365.



Network Box 3 Features

May 2016

On Tuesday, 3rd May 2016, Network Box will release our patch Tuesday set of enhancements and fixes. The regional SOCs will be conducting the rollouts of the new functionality in a phased manner over the next 7 days. This month, for Network Box 3, these include:

- Enhancements to Box Office and Response web sites
- Various (mostly internal) enhancements to several internal support systems

In most cases, the above changes should not impact running services or require a device restart. However, in some cases (depending on configuration), a device restart may be required. Your local SOC will contact you to arrange this if necessary.

Network Box wins Capital Outstanding Enterprise Awards



Network Box has received the Capital Outstanding Enterprise 2016 Award for the **Best Network Security Provider**. This is the sixth Outstanding Enterprise Award that Network Box has received from Capital Magazine.

LINK: http://network-box.com/sites/default/files/files/Capital_Outstanding_Enterprise_2016_Award.pdf

Network Box 5 UTM+ wins Cybersecurity Excellence Awards



Network Box won the 2016 Cybersecurity Excellence Award, in the category of **Unified Threat Management (UTM)**, with **Network Box 5 UTM+**.

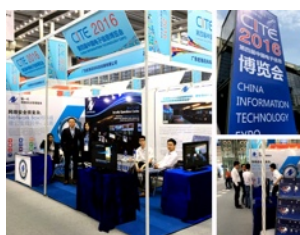
LINK: http://network-box.com/sites/default/files/files/Cybersecurity_ExcellenceAwards_2016.pdf

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Network Box China China IT Expo (CITE) 2016

Network Box China took part in the **China Information Technology Expo (CITE) 2016**, which took place on 8 to 10 April in Shenzhen, China.



Network Box Indonesia Microsoft / Deloitte Cybersecurity Event

Network Box Indonesia's CEO, *Lindra Hismanto*, was a guest speaker at **Cyber Security [Evolved]**, organized in association with Microsoft and Deloitte.

