In the Boxing Ring

Network Box Technical News
from Mark Webb-Johnson, CTO Network Box

Welcome to the December 2015 edition of In the Boxing Ring

This month, we are proud to announce the launch of **Network Box 5.3**, the next level of security enhancements for our next generation managed security platform. Key features and updates include: Next Generation Firewall with in-built Anti-DDoS as standard, Ruggedized VPN, Enhanced authentication and encryption, Infected LAN, Kiosk Mode, Comprehensive support for SSL across all core protocols, Event Correlation, Z-Scan+, Cloud email backup, Cloud DNS backup, Enhanced multi-protocol handling, HTML-5 Dashboard refresh, KPI Reporting, iOS / Android App, New hardware for SOHO, and many more are highlighted on pages 2 to 4.

On pages 5–6, 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 Germany became certified by KV-S@feNet, Network Box 5 won the SMBWorld Award 2015 Award in the category of Security Solution Hardware, and we highlight the Network Box 5.3 launch event which was held on 27th November 2015.

Mark Webb-Johnson
CTO, Network Box Corporation Ltd.
December 2015

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:

NETWORK BOX

NETWORK BOX 5.3

In 2013, Network Box 5 was launched, offering next generation security solutions to customers right across the globe. Since the launch of the platform, many new features and enhancements have been added, and Network Box is now proud to announce the launch of **Network Box 5.3**, the next level in cyber security.

Network Box 5.3
THE NEXT LEVEL IN SECURITY

Next Generation Firewall

Network Box has taken our Hybrid Firewall which combined:

- Packet Filtering
- Stateful Inspection
- Proxying

and added Anti-DDoS as standard, with automatic bridging between IPv4 and IPv6 protocols. In addition, the Network Box IDP (Intrusion and Detection and Prevention) system can now optionally include WAF (Web Application Firewall).

Ruggedized VPN

The Network Box VPN system has been Ruggedized to relieve connectivity issues.

- Bridges non-standard compliant connections
- Automates the approach for the most common issues
- Better handling of ISP connectivity issues
- Logging at three levels:
  - *Connection start/stop events*
  - *Session*
  - *Correlation*

Visual VPN

All VPN types (IPSEC, SSL, PPTP, etc) have been unified into a single unified framework, and centralized status, reporting and control.

- Configurability of VPN types
- Reporting on VPN availability
- Capability to start/stop/restart VPN tunnels
- New Global Monitoring Sensor for VPN links
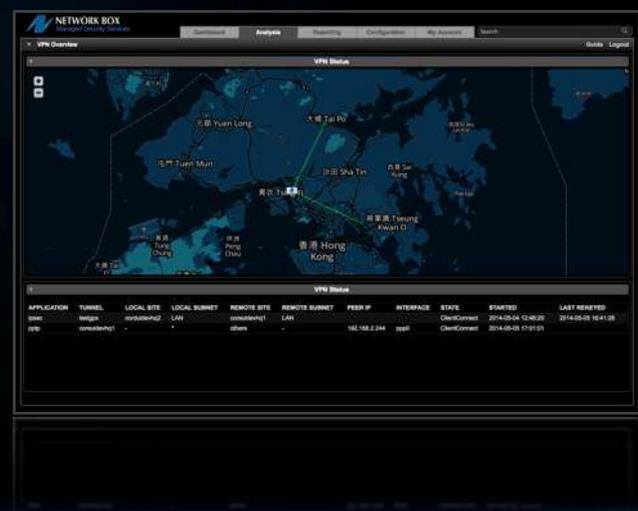
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Enhanced Authentication and Encryption

Elliptical Curve Key Exchange, X.509 Certificate Authentication, and IKE2 Support, have all been added to Network Box 5.3, so that **KV-S@feNet** Certification could be achieved, allowing for official integration with Germany's medical network.

Infected LAN

Identifies infected workstations and server in the LAN/DMZ, and isolates them from the network.

- Detection of outbound access to known public BotNet command and control servers
- Detection of outbound access to known malware update sites
- Highly-granular detection for highly-prolific malware
- Optional support for dynamically blacklisting detected infected workstations / servers

Kiosk Mode

Gives an overview of users activity irrespective of the device they are using, application and IP address.

- Supports user authentication transparently - *users access the network via a log in screen*
- Supports iOS, Android and other mobile devices
- Able to track entity attributes and activities
- Fully integrated with holistic entities

SSL Support for encrypted traffic

Network Box also blocks malware and other undesirable content arriving via encrypted channels

- SSL support through all our core protocols
- STARTTLS support for switching to secure mode
- SSL offload All this includes full scanning and policy enforcement

Event Correlation

The system correlates intrusion activity across all the network-frontline, network-ips, network-ids and network-firewall systems.

- Maintains statistical data for each source IP
- Highly configurable thresholds
- Dynamically blacklisting the source of the attack
- Alerts admin (via email) to the source and details of the attack

Z-Scan+

Enhanced protection with the augmentation of Z-Scan, with additional third-party threat intelligence.

- Extends the number and breadth of signatures available in the cloud
- Supplements the on the box anti-malware signature set
- Allows Network Box to be one step ahead of the attackers

Cloud email backup

Resolves loss of email issues by storing incoming emails in the cloud, and delivering them when the problem has been fixed.

- Backup queuing if the primary MX servers are overloaded and temporarily not accepting new connections/emails
- 4 geographical locations: Asia, America, Europe and the Pacific
- Once delivered, the emails will be removed and only logs will be retained

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Cloud DNS backup

Allows customers to use Network Box's extensive network of cloud DNS servers to provide backup DNS in the cloud.

- DNS queries are responded to, even if the Internet link to the master DNS server in the LAN/ DMZ is down
- Full control over which of domains will use the service
- Full control over which cloud backup servers will be used for which domain

KPI reporting

The monitoring and reporting system, have been enhanced to leverage the concept of KPIs (Key performance Indicators), and is able to show what has been happening both in real-time, as well as over any given period of time.

HTML-5 Dashboard refresh

The Network Box 5.3 Dashboard has been significantly improved to include:

- Icons refreshed (clearer, self-explanatory)
- Improved workflow (spam, holistic, etc)
- KPIs and Reporting
- User-focused dashboard layout
- Single global menu
- Enhanced search function

Enhanced multi-protocol handling

Network Box 5.3 includes an enhanced Protocol Enforcement system, for better handling of non-native use of ports, by applications.

- Supports Next Generation applications such as WhatsApp and Line
- Allows or denies access for these applications
- Integrated with the Application Identification and Control system

iOS / Android App

New iOS / Android App for mobile devices will be launched.

- iOS APNS support
- Google GCM support
- Control for notifications:
  - ‣ *Set-up schedules*
  - ‣ *Types of notifications*
  - ‣ *Group boxes and notifications*

VPN-5

High performance VPN device for securing connections for your home office or branch office's Virtual Private Network

- Dual Core 1.6 GHz CPU
- PPTP, SSL and IPSEC support
- High performance to handle large bandwidth remote office connections

S-38i / S-68i

UTM device to offer small offices Enterprise-level protection

- Multi-core processor
- Industrial grade chassis
- Fanless, with no moving parts

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Network Box 5
NEXT GENERATION MANAGED SECURITY

On Tuesday, 1st December 2015, Network Box will release our patch Tuesday set of enhancements and fixes. This month, the regional NOCs will be conducting the rollouts of the new functionality in a phased manner over the next 7 days.

Network Box 5 Features
November 2015

This month, for Network Box 5, these include:

- Improvements to entity management on backup box of a high availability cluster
- New GMS sensor for nbsyslog legacy service
- Improvements to IPS rule configuration
- Change of SPF threat names to differentiate between HELO/EHLO and MAILFROM checks
- Suppress virtual entity objects for configuration synchronisation performance improvements
- Improved support for meta data in spam trap submissions

- Support for NOC address changes in USA and Indonesia
- Enhanced support for custom external system conditions
- Improvements to synchronisation amongst secondary NOC servers
- Support secondary IPv4 addresses on VLAN and bond aggregated interfaces
- DHCRELAY support for virtual interfaces
- DHCRELAY support for vpn tunnels

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.

Note:
To coincide with the launch of Network Box 5.3, we will be releasing an out-of-cycle update for this later this month, for your deployment.

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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
December 2015

On Tuesday, 1st December 2015, 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 support new contract options and time frames
- Enhancements to Box Office and Response web sites
- Improved support for new international GMS test points
- 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.

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Network Box 5.3 Security Platform
Launch Event

The Network Box 5.3 launch event was held on the 102nd floor of the Ritz-Carlton Hotel, at the amazing Michelin Starred TOSCA restaurant. Along with 130 guests, a number of which flew half way around the world specifically to be at the event, Network Box also celebrated it's 15th Anniversary.

Link: http://www.network-box.com/networkbox53

Network Box Germany
KV-S@feNet Certification

Network Box has recently become certified by KV-SafeNet, allowing for official integration with Germany's medical network

Network Box 5 wins
SMBWorld Awards 2015

Network Box is very proud to announce that Network Box 5 won the SMB World 2015 Award for Security Solution Hardware, for the latest Network Box 5 UTM+ (Unified Threat Management Plus) appliances.

Link: http://network-box.com/sites/default/files/files/SMB2015_Awards.pdf

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