

In the Boxing Ring

JAN 2021



Network Box Technical News

from **Mark Webb-Johnson**

Chief Technology Officer, Network Box

Welcome to the January 2021 edition of In the **Boxing Ring**

Happy New Year! First of all, I would like to thank all our staff, partners, and suppliers for their support during 2020. It has been a challenging year for most, and I'm grateful that we've managed to work together to deliver and maintain effective security solutions for our customers. We've spent the year remotely supporting our customers', and in particular, facilitating remote working technologies. I would also like to thank our customers for their continued trust in Network Box, our platform, and our security services.

Moving forward, this month, we will be looking at the **Network Box platform in 2021 and beyond.**

On page 4, we highlight the features and fixes to be released in this quarter's Patch Tuesday for Network Box 5.

In this month's Media Coverage, Network Box was featured in the **South China Morning Post**, **Brilliance Security Magazine**, and **ntv**. Finally, to round-up another eventful year for Network Box, we have compiled all the key *In the Boxing Ring* articles in the **2020 Network Box Technology Review**.

Mark Webb-Johnson
CTO, Network Box Corporation Ltd.
January 2021

In this month's issue:

Page 2 to 3

The Network Box Platform in 2021 and Beyond

2020 has been a challenging year. As most have adopted a work-from-home policy, we have spent the past year supporting our customers with their remote work technologies while also effectively maintaining their security. Looking forward, in this month's featured article, we outline the Network Box Security Platform in 2021 and beyond.

Page 4

Network Box 5 Features

The features and fixes to be released in this quarter's Patch Tuesday for Network Box 5.

Page 5

Network Box Highlights:

- **Network Box Technology Review 2020**
- **Network Box Media Coverage:**
 - SCMP
 - Brilliance Security Magazine
 - ntv

Stay Connected

You can contact us here at Network Box 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:



<https://twitter.com/networkbox>



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



<https://www.linkedin.com/company/network-box-corporation-limited/>



<https://www.youtube.com/user/NetworkBox>

The Network Box platform in 2021 and BEYOND

Network Box is building systems and technology to protect our customers' data, using the same protection technologies irrespective of where that data is stored. Furthermore, we recognise that our customers are migrating more and more data to the cloud (both to virtual devices and to move to multi-tenanted SAAS systems); and we aim to support that transition both from a protection and a migration point of view.

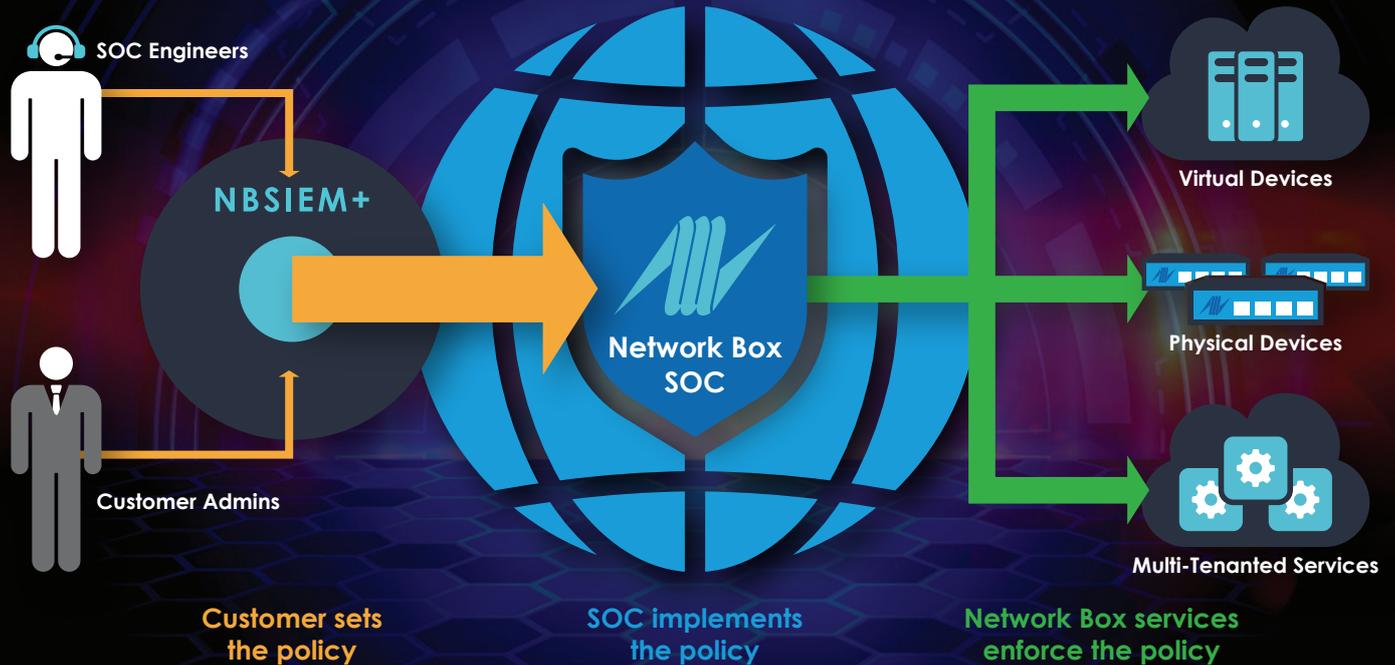
The Service Delivery Platform

During 2021 and beyond, Network Box will continue to develop our Service Delivery Platform based on NBSIEM+ (Network Box Security Incident and Event Management Plus) as the administrative interface, and the following three key components:

1. The customer sets the policy
2. Network Box SOC implements the policy
3. Network Box services enforce the policy via:
 - Physical Network Box devices installed on-premises either in offices or data centres
 - Virtual Network Box devices installed in private and public virtual clouds
 - Virtual multi-tenanted services delivered from the cloud

We aim to make this as seamless as possible, with the same cloud-based administrative systems used to define and maintain the data protection policy, no matter where or how that policy is enforced.

For example, it will not matter whether your email is scanned on a physical on-premises device next to your mail server, on a virtual device in the cloud, or by a multi-tenanted cloud mail scanning service. Whatever the mechanics of the policy enforcement, the administrative interface and reporting will be the same. The same policy can be used for both on-premises mail scanning, in the cloud, or multi-tenanted; the customer can migrate between solutions as their requirements change over time.



NBSIEM+

Our NBSIEM+ multi-tenanted cloud portal continues to be the focus of much of our work. During the first half of 2021, we plan to release a new web-based front-end for this, along with companion full-function, multi-platform mobile device apps for both Android and iOS. By separating the front-end and back-end components of NBSIEM+, with a well defined public API connecting the two, we can optimise the user experience and provide improved partner integrations.



The End-User

At Network Box, we recognise that users nowadays are mobile, which is truer now than ever before in times of COVID-19 remote working. We see the solution as the user connecting to 'the network'. Not necessarily an office network, or a data centre network, but a virtual network through which the user can be:

- authenticated
- secured
- protected
- have policy enforced

This network connection can be local or remote, with the same protection and policies equally applied available to both.

Access to this virtual network will be via SDWAN based technologies such as private circuits, VPNs, and proxies. The aim here is to keep the technologies flexible and dynamic; to deliver the best experience possible to the end-user.

We continue to enhance our holistic entity model, to track all the devices used (workstations, laptops, phones, tablets, etc.), but attribute that activity to individually identifiable and reportable end-users.

Multi-Tenanted SAAS

We continue to see a migration to multi-tenanted SAAS style services, and continue to expand our service offerings via our own multi-tenanted services, to be better able to protect data entering and leaving such SAAS offerings.

All our core services (such as web client protection, mail server protection, WAF, etc.) will be released as multi-tenanted options in the coming months.

In 2021 and beyond, the Network Box Service Delivery Platform now means more than simply the appliance itself. We are working to deliver a single unified platform using NBSIEM+ as the administrative user interface to set the policy, our Security Operation Centres to implement the policy, and provide three options (physical, virtual, and multi-tenanted cloud) to enforce the policy - no matter where the data is stored.

Network Box



NEXT GENERATION MANAGED SECURITY

On Tuesday, 5th January 2021, 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 January 2021

This month, for Network Box 5, these include:

- Improvements to BGP configuration backup/restore system
- Updates to Network Box Provisioning services IP address allocations
- Updates to regional SOC IP address allocations
- A small enhancement to allow underscore characters in host ACLs
- Support for new E-1000i, E-2000i, and E-4000i box models
- Introduction of an option to sync entities and their attributes from Office 365
- Improvements to command line console scripting and search capabilities
- Initial base firmware support for multi-tenanted cloud services
- Improvements in IPv6 address parsing in IDS/IPS events
- Support for pre-shared keys greater than 57 characters in length, in IPSec protocol
- Reduced memory usage in large user portal reports
- Enhancements to IMAP4 protocol decoding (especially in pipelined mode)
- Improvements in data transfer accounting from web client event logs
- Extension of license key for Kaspersky anti-malware engine

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 HIGHLIGHTS



Network Box Technology Review 2020

2020 was an eventful year for Network Box. The past year saw the opening of two additional Network Box offices in **Austria** and **Spain**. In addition to upgrades to the CPU, RAM, and Hard-disk capacity of the **M-255i** and **E-Series**, the **S-80i** was launched for small/home offices. Furthermore, the Network Box Security Incident and Event Management+ (**NBSIEM+**), and the upgraded **Dark Web Monitoring Service** was also released.

As a special end-of-year review, Network Box has compiled the key *In the Boxing Ring* technology news, features, and articles from 2020.

LINK: https://network-box.com/sites/default/files/files/Technology_Review_2020.pdf



Newsletter Staff

Mark Webb-Johnson
Editor

Michael Gazeley
Kevin Hla
Production Support

Network Box HQ
Network Box USA
Contributors

Subscription

Network Box Corporation
nbhq@network-box.com
or via mail at:

Network Box Corporation
16th Floor, Metro Loft,
38 Kwai Hei Street,
Kwai Chung, Hong Kong

Tel: +852 2736-2083
Fax: +852 2736-2778

www.network-box.com

Copyright © 2021 Network Box Corporation Ltd.



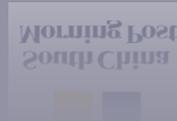
Network Box Media Coverage and Security Headlines



SCMP

Hong Kong's new iAM Smart app set to launch, allowing residents access to 20 public services including coronavirus jabs and test results

LINK: <https://bit.ly/38ae5Fg>



Budget smartphone brand Gionee made more than US\$4 million after employees infected 20 million phones with malware

LINK: <https://bit.ly/3pJbJmS>



Brilliance Security Magazine

Safely and Securely Working from Home

LINK: <https://bit.ly/38ciNSU>



ntv

This is how companies benefit from cyber security management services

LINK: <https://bit.ly/3b5WCA0>



The New York Times

FireEye, a top cybersecurity firm, says it was hacked by a Nation-State

LINK: <https://bit.ly/3ooUJSR>



The Hacker News

US Agencies and FireEye were hacked using SolarWinds software backdoor

LINK: <https://bit.ly/3s0Alto>