



In the Boxing Ring JUL 2023



Network Box Technical News

from **Mark Webb-Johnson**

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Welcome to the July 2023 edition of In the **Boxing Ring**

This month, we are talking about **Scanning and the External Threat View**. When analyzing the security posture of a computer network, various viewpoints can be considered: the internal view, the privileged external view, and the public external view. To understand one's security posture, it is crucial to have a clear view of what hosts and services are exposed to each of those viewpoints. Network Box Security Response has released a **Scan External View** cloud service to assist with this. On pages 2 to 3, we discuss this in greater detail and highlight the service's key features.

In other news, Network Box Hong Kong hosted a cybersecurity workshop for the staff of Fujifilm. Network Box Hong Kong also participated in HK Digital Finance Association- IT Event. And in this month's global security headlines, there were security issues with Fortinet, Google Chrome, Barracuda Networks, and Outlook.

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



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

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Scanning and the External Threat View

Commencing with the June 2023 Patch Tuesday and gradually rolling out to all customers globally in a phased manner, Network Box Security Response has launched a **Scan External View** cloud service. In our featured article we highlight this in greater detail.

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 - Fujifilm - Cybersecurity Workshop
 - HK Digital Finance Association- IT Event
- **Global Security Headlines:**
 - Fortinet
 - Google Chrome
 - Barracuda Networks
 - Microsoft Outlook



Scanning and the External Threat View

When analyzing the security posture of a computer network, various viewpoints can be considered, of which the top three are usually:

1. The Internal View

Which services are reachable for a potentially malicious intruder accessing them from within the LAN/DMZ.

2. The Privileged External View

Looking at services reachable to external privileged partners on the Internet - usually accessing from specifically privileged source addresses, MPLS networks, or via VPNs.

3. The Public External View

Services reachable to the general Internet.

While the public external view is not the only concern, it is commonly the most likely vector for a breach/intrusion. Thus, it is a focus for many protection technologies and policies.

To understand your security posture, it is crucial to have a clear view of what hosts and services are exposed to each of those viewpoints. While configuration reviews can go some way towards helping network reconnaissance by scanning (including enumeration of reachable hosts and services, and attempted identification of these), it is still the most effective technique.



Network Box External Threat View

Commencing with the June 2023 Patch Tuesday and gradually rolling out to all customers globally in a phased manner, Network Box Security Response has launched a **Scan External View** cloud service that operates as follows:

- Firstly, we need to know what to scan. To do this, we build a list of public and private IP addresses, domain names, and other such information for each asset under management. These 'asset attributes' are maintained automatically by parsing Network Box configurations but can also be manually administered (for attributes not directly visible in configurations). Administrators and SOC engineers can view these attributes on the Asset screen of NBSIEM+.
- Periodically (once a week or after major configuration changes by default), we comprehensively scan UDP and TCP ports on all public IP addresses from sources on the public Internet. This scan is typically in four parts:
 - 1. Scanning:**
for open UDP or TCP ports and retrieving welcome banner messages from these reachable services.
 - 2. Service Identification:**
based on banner analysis and other fingerprinting technologies.
 - 3. HTTP/HTTPS Identification:**
specifically looking for web services.
 - 4. Basic Common Vulnerability Identification:**
highlighting Best Practices findings.
- The results of the scan (discovered hosts, services, and vulnerabilities) are stored in a database and made available in the NBSIEM+ **Asset > Scans** screen, as well as for reporting purposes.

This is not intended as a full Vulnerability Scan. It is purely a reconnaissance scan, only showing what services (protocols/ports) and hosts (IP addresses) are open and visible to the public Internet. The scan is lightweight and only issues requests commonly seen daily in such Internet traffic.

Usage of the Results

The results are primarily used by Network Box SOC engineers as part of the configuration review process. They are part of a consistency check to ensure that the configuration correctly reflects the customer policy.

Network Box Security Response engineers also use the database when handling emerging vulnerabilities. We can quickly search for affected services and identify networks under management with those services reachable from the public Internet.



The Network Box Scan External View cloud service has been released and is now in operation globally. The results of these scans will be available to customers later this summer in the next release of NBSIEM+. This is the first of several upcoming Network Box Red Team services to be offered.

Network Box HIGHLIGHTS



Network Box Hong Kong Fujifilm - Cybersecurity Workshop

Network Box Hong Kong hosted a workshop to staff from Fujifilm to highlight Network Box's Managed Cybersecurity Services, the latest features, functionality, certifications, compliance, and KPI reporting capabilities. Other discussion topics included MESH Cybersecurity Architecture, Risk Management, ISO 31000, In-Situ SIEM+, Virtual Patching, and other key technologies to stay ahead of hackers, malware, and other cyber threats.



Network Box Hong Kong HK Digital Finance Association- IT Event



Network Box Managing Director, Michael Gazeley, was invited by the Hong Kong Digital Finance Association to participate in a panel discussion about cybercrime and cybersecurity. At the event, which took place at the AsiaWorld Expo, Mr. Gazeley was joined by HKECIA President Emil Chan, Kornerstone Institute's Catherine Chan, Culsin Li of Baobab Tree Event, and Chief Inspector Lester Ip of the Hong Kong Police Force Cyber Security and Technology Crime Bureau.



Global Security Headlines



Bleeping Computer

Fortinet: New FortiOS RCE bug may have been exploited in attacks

LINK: <https://tinyurl.com/3dvvy5dj>



GB Hackers

Google Chrome Zero-Day Vulnerability Exploited Widely

LINK: <https://tinyurl.com/3a7hpf8>



Bleeping Computer

Barracuda says hacked ESG appliances must be replaced immediately

LINK: <https://tinyurl.com/2et9zhyy>



Bleeping Computer

Outlook.com hit by outages as hackers claim DDoS attacks

LINK: <https://tinyurl.com/3cunk8mv>

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