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SOLUTION NOTE

THREAT INTELLIGENCE (TI)

Uplift the entire security stack by optimizing your blend of threat intelligence



OBSTACLES TO OPTIMIZING THREAT INTELLIGENCE USE

Defending a modern enterprise requires a broad collection of security tools, orchestrated to provide maximum coverage of the attack surface. But, regardless of the tool, its effectiveness can be limited by the underlying threat intelligence, particularly for more mature security programs where Indicators of Compromise (IoCs) make up only one aspect of the overall threat intelligence required.

Unfortunately, numerous studies in recent years have underscored the inadequacies of depending on a limited number of threat intelligence sources (aka feeds.) This puts the burden on SecOps to identify, collect, normalize, and distribute different kinds of threat intelligence from dozens of available sources to the appropriate tools. From protection and detection to investigation and response, having fast access to the right blend of threat intelligence is key to success.

COMPREHENSIVE, MULTI-SOURCED THREAT INTELLIGENCE FROM INFOBLOX

While most security products come with a single feed from the vendor, Infoblox offers customers a broad range of options to customize the threat intelligence they receive. This includes a variety of feed sources that are managed and curated by the Infoblox threat research team for effectiveness and quality, as well as several specialized feeds from trusted 3rd parties including government, open source, and other threat feed sources.

The precise blend of threat intelligence available with BloxOne® Threat Defense depends on the package purchased. The Advanced package even includes a tool that can support any threat intelligence feed, and automate TI distribution across the entire security stack. This enables you to empower all your defenses with a custom' super-feed' of threat intelligence, maximizing the value of all your security investments.

OUT-OF-THE-BOX THREAT INTELLIGENCE AVAILABILITY

BloxOne Threat Defense is available as four packages:

- 1. BloxOne Threat Defense Essentials
- 2. BloxOne Threat Defense Business On-Premises
- 3. BloxOne Threat Defense Business Cloud
- 4. BloxOne Threat Defense Advanced

FACTS & FIGURES

According to the <u>2021 SANS</u> <u>Cyber Threat Intelligence (CTI)</u> <u>Survey</u>:

- 77% of respondents use Open Source or public threat intelligence feeds
- 71% use data from **CTI-specific** vendors, while 63% use data from general security vendors
- Just over 2/3rds of respondents use TI from community or industry groups (i.e. ISACs, CERTs)
- 63.4% are trying to use Internal TI gathered from security tools (i.e. IDS, firewall, endpoint, etc.)

Each package offers access to a range of threat intelligence data via 'feeds'. The Advanced package also includes a tool for custom threat feed ingestion and distribution called TIDE (Threat Intelligence Data Exchange) as well as a threat research portal called Dossier that leverages this data, and more.

Here are the threat feeds available for each BloxOne Threat Defense package:

	Bloxone Tl	hreat Defense Essen	tials (10)								
Base HostnamesAnti-malwareRansomware	 Bogon DHS_AIS_IP DHS_AIS_ Hostname 	 DHS AIS NCCIC Watch list Hostnames and Domains 	DHS AIS NCCIC Watch list IPs	 DoH Public Hostnames DoH Public IPs 							
Bloxone Threat Defense Business On-Premises and Business Cloud (18)											
 Base Hostnames Anti-malware Ransomware Bogon DHS_AIS_IP DHS_AIS_ Hostname 	 DHS AIS NCCIC Watch list Hostnames and Domains DHS AIS NCCIC Watch list IPs DoH Public Hostnames DoH Public IPs 	 Anti-Malware IPs Malware DGA hostnames TOR Exit Node IPs 	 NOED Cryptocurrency hostnames and domains 	 EECN lps US OFAC Sanctions IPs US OFAC Sanctions IPs(High Risk) US OFAC Sanctions IPs(Medium Risk) 							
	Bloxone Tl	nreat Defense Advar	nced (25)								
 Base Hostnames Anti-malware Ransomware Bogon DHS_AIS_IP DHS_AIS_ Hostname DHS AIS NCCIC Watch list Hostnames and Domains 	 DHS AIS NCCIC Watch list IPs DoH Public Hostnames DoH Public IPs Anti-Malware IPs Malware DGA hostnames TOR Exit Node IPs 	 NOED Cryptocurrency hostnames and domain EECN IPs 	 US OFAC Sanctions IPs US OFAC Sanctions IPs(High Risk) US OFAC Sanctions IPs(Medium Risk) Extended Base & anti-malware Hostnames Extended malware Ips Extended TOR Exit Node IPs 	 Extended Ransomware IPs Suspicious Domains Suspicious Lookalikes Suspicious NOED 							

BLOXONE THREAT DEFENSE ESSENTIALS

Ten reputation data sets can be applied to the Infoblox DNS Firewall RPZ security policy.

- 1. Base hostnames: The base hostnames set enables protection against known hostnames that are dangerous asdestinations and are sources of threats such as APTs, bots, compromised host/ domains, exploit kits, maliciousname servers and sinkholes.
- 2. Anti-malware: This set enables protection against hostnames that contain known malicious threats that can acton or take control of your system, such as malware command and control (C&C), malware download and activephishing sites.
- **3. Ransomware:** The ransomware set enables protection against hostnames that contain malware that restricts access to the computer system that it infects and demands a ransom for removal of the restriction. Some forms of ransomware encrypt files on the system's hard drive. Others some may simply lock the system and displaymessages intended to coerce the user into paying.
- 4. Bogon: Bogons are often the source addresses of DDoS attacks. "Bogon" is an informal name for an IP packeton the public Internet that claims to be from an area of the IP address space reserved, but not yet allocated ordelegated by the Internet Assigned Numbers Authority (IANA) or a delegated Regional Internet Registry (RIR). Theareas of unallocated address space are called "bogon space." Many ISPs and end-user firewalls filter and blockbogons because they have no legitimate use, and usually are the result of accidental or malicious misconfiguration.
- **5/6. DHS AIS_IP and DHS AIS_Hostname (2 feeds):** The Department of Homeland Security (DHS) Automated Indicator Sharing (AIS) program enables the exchange of cyber threat indicators between the federal government and the private sector. AIS is a part of the DHS's effort to create an ecosystem in which, as soon as a company or federal agency observes an attempted compromise, the indicator is shared with AIS program partners, including Infoblox. IP indicators contained in this feed are not validated by DHS because the emphasis is on velocity and volume. Infoblox does not modify or verify the indicators. However, indicators from the AIS program are classified and normalized by Infoblox to ease consumption.
- 7/8. DHS AIS NCCIC Watch list Hostnames and Domains and DHS AIS NCCIC Watch list IPs (2 feeds): Indicators contained in these feeds appear on the watch list from the National Cybersecurity and Communications Integration Center (NCCIC) and are not verified or validated by DHS or Infoblox. NCCIC acts as a hub for information-sharing activities among public and private sector partners to build awareness of vulnerabilities, incidents and mitigations.

Data included in these AIS_IP, AIS_Hostname, DHS AIS NCCIC Watch list Hostnames and Domains and DHS AIS NCCIC Watch list IPs feeds include AIS data subject to the U.S. DHS Automated Indicator Sharing Terms of Use available: www.us-cert.gov/ais. and must be handled in accordance with the Terms of Use. Prior to further distributing the AIS data, you may be required to sign and submit the Terms of Use available at: www.us-cert.gov/ais. Please email ncciccustomerservice@ http://www.us-cert.gov/ais. Please email <a href="http://www.us-cert.gov/

9/10. DoH Public Hostnames and DoH Public IPs (2 feeds) This policy-based feed contains Domain names and IPs of 3rd party DoH (DNSover HTTPS) services. Organizations wishing to provide security policy enforcement through DNS may wish toprevent the bypass of DNS security policies by using 3rd-party DoH servers.

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BLOXONE THREAT DEFENSE BUSINESS ON-PREMISES AND BLOXONE THREAT DEFENSE BUSINESS CLOUD

BloxOne Threat Defense Business On-Premises and BloxOne Threat Defense Business Cloud offer data sets available with BloxOne Threat Defense Essentials plus additional data sets that can be applied to the security infrastructure, including Infoblox DNS Firewall RPZ policy. It provides a total of 19 feeds. The additional data sets included in BloxOne Threat Defense Business On-Premises and BloxOne Threat Defense Business Cloud are:

- **11. Anti-Malware IPs:** The malware IP set enables protection against known malicious or compromised IP addresses. Theseare known to host threats that can act on or control a system by way of C&C malware downloads and activephishing sites.
- **12.** Malware DGA hostnames: Domain generation algorithms (DGA) appear in various families of malware used toperiodically generate many domain names that can act as rendezvous points with their C&C servers. Examples includeRamnit, Conficker and Banjori.
- **13.** Tor Exit Node IPs: Tor Exit Nodes are the gateways where encrypted Tor traffic hits the Internet. This means an exitnode can monitor Tor traffic (after it leaves the onion network). The Tor network is designed to make it difficult todetermine its traffic source.
- 14. Cryptocurrency hostnames and domains: This feed features threats that allow malicious actors to perform illegaland/or fraudulent activities, coinhives that allow site owners to embed cryptocurrency mining software into theirwebpages to replace normal advertising, cryptojacking that lets site owners mine for cryptocurrency without theowner's consent and cryptocurrency mining pools.
- **15. EECN IPs:** This policy-based feed contains IPs of countries in Eastern Europe and China that are often sources of cyberattacks seeking intellectual property or other sensitive or classified data, as well as theft of credit card orfinancial information.
- 16. US OFAC Sanctions IPs: This policy-based feed contains IPs of U.S.-sanctioned countries listed by the U.S.Treasury Office of Foreign Assets Control (OFAC), which administers and enforces economic sanctions imposed by the United States against foreign countries. More information is available on the "Sanctions Programs and CountryInformation" page found here: <u>www.treasury.gov/resource-center/</u> <u>sanctions/Programs/Pages/Programs.aspx</u>.
- 17. US OFAC Sanctions IPs (High Risk): This feed includes all high-risk indicators from sanctioned countries. Indicators from the following countries are included in the feed: Belarus, Cambodia, Central African Republic, China, Cuba, DR Congo, Iran, Iraq, Libya, Macao, Myanmar, North Korea, Russia, Syria, Venezuela, and Yemen.
- **18.** US OFAC Sanctions IPs (Medium Risk): This feed includes all medium risk indicators from sanctioned countries.Indicators from the following countries are included in the feed: Belarus, Cambodia, Central African Republic, China,Cuba, DR Congo, Iran, Iraq, Libya, Macao, Myanmar, North Korea, Russia, Somalia, South Sudan, Sudan, Syria,Venezuela, Yemen, and Zimbabwe.
- **19.** NOED (Newly Observed Emergent Domains): These are newly observed domains and those that show a significant uptick in traffic globally, which indicates that this domain is active and relatively new.

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BLOXONE THREAT DEFENSE ADVANCED

BloxOne Threat Defense (B1TD) Advanced includes all the data feeds described above plus additional data feeds and the TIDE platform. It provides a total of 26 feeds. The additional data sets in BloxOne Threat Defense Advanced include:

Extended TTL feeds: These feeds expand the base, anti-malware, ransomware, exploit kits and TOR Exit Node feeds that contain recently expired threats with an extended time-to-live (TTL) applied. The extended TTL feeds increase the reach of protection for a DNS Firewall. However, they may also increase the risk of false positives because indicators may no longer be active.

The Extended TTL feeds are:

- 20. Extended base & anti-malware: Base and anti-malware hostname feeds combined into a single feed with the extended TTL feeds applied
- 21. Extended malware IPs
- 22. Extended TOR Exit Node IPs
- 23. Extended ransomware IPs
- 24. Suspicious Domains: These are domains that share common indicators with other known malicious sites, although not to the level that would also make them malicious. This feed contains high confidence IoCs, and we recommend blocking them for most users.
- **25.** Suspicious Lookalikes: These are suspicious domains with the additional factor of appearing to impersonate a trusted domain, which is a common technique used in 'phishing' threat activity.
- 26. Suspicious NOED (Newly Observed Emergent Domains): These are suspicious domains that have demonstrated a significant uptick in traffic globally among our customers, which may indicate that this domain is now part of an active campaign.

LEVERAGING "SUSPICIOUS" THREAT INTELLIGENCE FOR A PROACTIVE DEFENSE

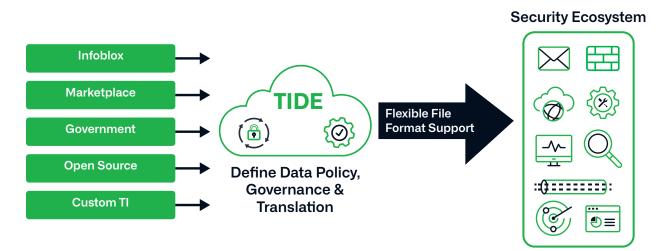
While the production of 'known' threat lists, and even published, detailed analysis of emerging threats through public and private sector reporting is critical to understanding the threat landscape, such threat intelligence is retrospective in nature and the release of indicators often come long after the first attacks take place. Consumers and corporations are best protected by a proactive, low regret model that enables threats to be <u>blocked before they are validated</u>. Infoblox suspicious threat intelligence feeds help identify many of the domains used in in threat campaigns such as those used in <u>phishing campaigns</u>.

ADDITIONAL OPPORTUNITIES TO OPTIMIZE YOUR USE OF THREAT INTELLIGENCE

BloxOne Threat Defense Advanced offers two unique features to create the ideal blend of threat intelligence for your needs, and apply it in ways that will speed threat investigations, accelerate incident response, facilitate threat hunting, and enhance numerous other SecOps activities.

TIDE (THREAT INTELLIGENCE DATA EXCHANGE)

TIDE is a platform that can automate the ingestion, management, and distribution of threat intelligence, supporting the use of additional feeds from government/industry, open source, third-party TI vendors, general security vendors, or even your own internal threat intelligence.



DOSSIER

Dossier puts analysts in the middle of available threat intelligence, with on-demand access to threat severity, WHOIS data, MITRE ATT&CK guidance, related IPs/URLs/Domains, file samples, timelines, threat actor background, and more. It empowers analysts to easily pivot where they need to go and reach confident conclusions faster.

had.wf					Last Active Threat Detection: 08/11/2022 (Active) Add to Custom List	Feedback on Results
Summary						
	Summary	Summary			Infoblox Threat Level	
More Details	7 DNS Record Count	20 Domain/Subdomain Count	0 URL Count	411	Threat Level is designed to help users understand how dangerous an indicator can be, since not all malware behave the same way. The information can be used in combination with 7 6	High
Impacted Devices	©	Doman Subdoman Counc	one count	ii coon	the same way. The information can be used in combination with other scores from Infoblox.	10
Current DNS	3 Categorizations					
Related Domains	Infoblox Nameserver Reput	Infoblox Nameserver Reputation Low Risk (1.14)			O Infoblax Risk Level	
Related URLs	S InfoRank DNS Ranking	41766th most queried	d domain		TheRisk score represents the likelihood that a user will be	
Related IPs	Infoblox Threat Property	Infoblox Threat Property Phishing_Phish			and the set of the set	
Related File Samples	Infoblox Threat Property	MalwareC2_Generic			exposed to a threat or compromised by interacting with the Indiator. 9.7	/10
Related Contacts	Registered Owner (WHOIS)	Registered Owner (WHOIS)				
Metadata	0				Infoblox Confidence Level	High
Timeline	Created	11/21/19		TheConfidence Score provides additional insight into the indicator class and property. It represents our level of tust in classification and threat of the indicator.		
	Updated					
Threat Actor	Expires			11/21/22		
MITRE ATT&CK™	Registrant Name			Zomro B.V.	Infoblox Threat Intelligence Group Research Notes	
WHOIS Record	Registrant Country Registrar Name			NL	-	
Raw Whois	Negisti ai Naine	regiou el melle HOSTING CONCEPTS B.V.			This domain is operated by a threat actor named WhiteSawShark and primarily used to deliver malspan In cases, the domain is used to distribute infostealers and remote access trojans. In some Agent Tesla sampes, found the domain embedded in the malware confurration.	
	SSL Certificate					
	Certificate had.wf			Details 🛩	Active Threat Feeds and Status Info Low	Medium Hij
CN C Expires: 11.06/					Infoblox AntiMalware	
	V Iniso	This certificate is valid		Infoblox Extreme Block		

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THIRD-PARTY THREAT FEEDS AVAILABLE FOR BLOXONE THREAT DEFENSE ADVANCED

BloxOne Threat Defense Advanced offers customers the option to supplement the many Infoblox threat intelligence options with additional threat data from third-party sources. And while the TIDE feature of BloxOne Threat Defense can simplify and automate this process, many partners have worked with Infoblox to simplify a customer's onboarding process. The following partners offer out-of-the-box support for the TIDE feature of BloxOne Threat Defense Advanced:



CrowdStrike: This is a leading provider of next-generation endpoint protection, threat intelligence and services. CrowdStrike Falcon hostname and IP intelligence enables customers to prevent damage from targeted attacks, detect and attribute advanced malware and adversary activity in real time and effortlessly search all endpoints, reducing overall incident response time. Customers must purchase the CrowdStrike feed directly from CrowdStrike, but Infoblox can help to "turn on" the feed in the TIDE platform.



FireEye iSIGHT Threat Intelligence: Its IP and hostname cyber threat intelligence equips enterprises with strategic, operational and tactical analysis derived by its global team of experts. A ThreatScape subscription provides the intelligence necessary to align a security program with business risk management goals and to proactively defend against new and emerging cyber threats. Although customers to purchase the iSight feed directly from FireEye, Infoblox can help to "turn on" the feed in the TIDE platform.

In addition, BloxOne Threat Defense Advanced subscribers can leverage the following third-party vendor feeds (requires additional subscription) in RPZ format (at no additional cost) to increase their threat coverage at the DNS control plane:

F < RSIGHT SECURITY **Farsight Security Newly Observed Domains (NOD) Feed:** This feed supplies an incremental layer of defense to combat malware exfiltration, brand abuse and spam- based attacks that originate or terminate at newly launched domains.

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Proofpoint Emerging Threats (ET) IP and Domain Reputation Feed: This feed provides actionable IP and domain reputation entries that are scored based on observations of in-the-wild threat actor behavior and direct observations by Proofpoint's ET Labs. Built upon a proprietary process that leverages one of the world's largest active malware exchanges, victim emulation at massive scale, original detection technology and a global sensor network, Proofpoint ET Intelligence is updated in real time to provide organizations with the actionable intelligence to combat today's emerging threats.



Infoblox unites networking and security to deliver unmatched performance and protection. Trusted by Fortune 100 companies and emerging innovators, we provide real-time visibility and control over who and what connects to your network, so your organization runs faster and stops threats earlier. Corporate Headquarters 2390 Mission College Blvd, Ste. 501 Santa Clara, CA 95054

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