# Zerobot Attack

### Go-based malware exploiting multiple vulnerabilities

https://www.fortinet.com/blog/threat-research/zerobot-new-go-based-botnet-campaign-targets-multiple-vulnerabilities CVEs: CVE-2017-17105, CVE-2019-10655, CVE-2020-25223, CVE-2021-42013, CVE-2022-31137, CVE-2022-33891

Zerobot is a Go-based botnet that spreads primarily through IoT and web application vulnerabilities. According to Fortinet research analysis the most recent distribution of Zerobot includes additional capabilities such a new DDoS attack capabilities and exploiting Apache vulnerabilities.

Background	In November 2022, FortiGuard Labs observed a unique botnet written in the Go language known as Zerobot which contains several modules, including self-replication, attacks for different protocols, and self-propagation. For more information on Zerobot Malware, see the link to Fortinet blog below. Please note, ZeroBot Malware does not relates to ZeroBot Chatbot or ZeroBot Al
Announced	December 06, 2022: Fortinet posted a security blog research about Zerobot at https://www.fortinet.com/blog/threat-research/zerobot-new-go-based-botnet-campaign-targets-multiple-vulnerabilities
Latest Developments	December 12, 2022: Microsoft uncovers new Zerobot 1.1 capabilities and posted a blog at https://www.microsoft.com/en-us/security/blog/2022/12/21/microsoft-research-uncovers-new-zerobot-capabilities

## PROTECT

Countermeasures across the security fabric for protecting assets, data and network from cybersecurity events:

Reconnaissance

Weaponization

#### Delivery

AV

Ģ

0

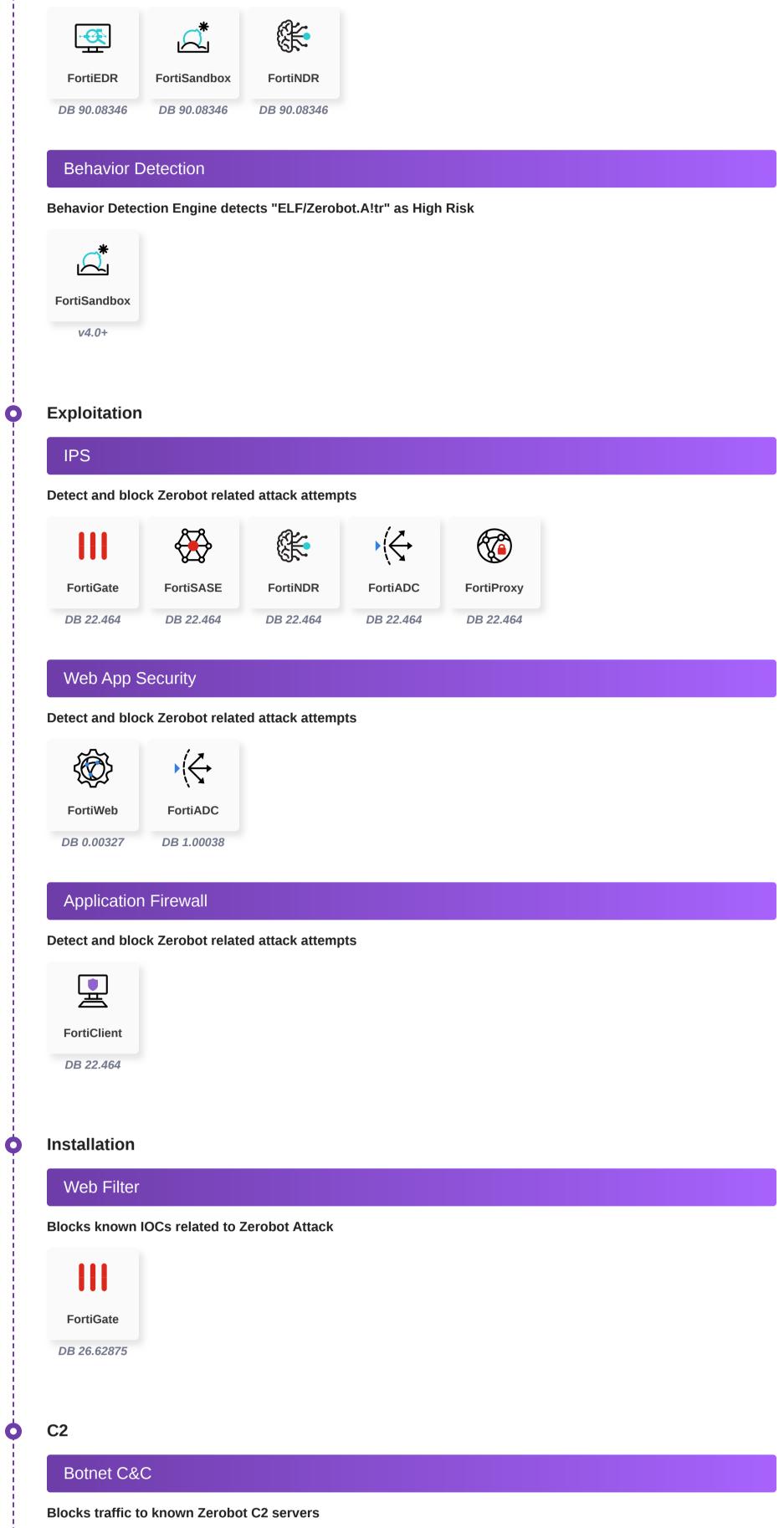
Detect and block payloads related to Zerobot Malware

	÷				< <u></u>	<*>>
FortiGate	FortiWeb	FortiClient	FortiSASE	FortiMail	FortiCASB	FortiCWP
DB 90.08346	DB 90.08346	DB 90.08346	DB 90.08346	DB 90.08346	DB 90.08346	DB 90.08346
$\mathbf{F}(\mathbf{x})$						
FortiADC	FortiProxy					
DB 90.08346	DB 90.08346					
Vulnerabili	ty					
Detect vulnerable devices related to Zerobot attack						
FortiClient						

DB 2.128

### AV (Pre-filter)

Detect and block payloads related to Zerobot Malware



FortiGate
DB 3.00156
• Action
DETECT
Find and correlate important information to identify an outbreak, the following updates are available to raise
alert and generate reports:
FortiAnalyzer FortiSIEM FortiSOCaaS
DB 1.002442 DB 1.002442 DB 1.002442
Outbreak Detection
FortiAnalyzer
DB 1.00082
Threat Hunting
FortiAnalyzer FortiSIEM
v6.4+ v6.6+
Content Update
X
FortiSIEM
DB 309

## RESPOND

Develop containment techniques to mitigate impacts of security events:

#### Automated Response

Services that can automaticlly respond to this outbreak.





#### Assisted Response Services

Experts to assist you with analysis, containment and response activities.





### RECOVER

Improve security posture and processes by implementing security awareness and training, in preparation for (and recovery from) security incidents:

#### InfoSec Services

Security readiness and awareness training for SOC teams, InfoSec and general employees.

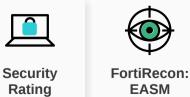


**IDENTIFY** 

Identify processes and assets that need protection:

#### Attack Surface Monitoring (Inside & Outside)

Security reconnaissance and penetration testing services, covering both internal & external attack vectors, including those introduced internally via software supply chain.



### **Additional Resources**

Fortinet Blog	https://www.fortinet.com/blog/threat-research/zerobot-new-go-based-botnet-campaign-targets-multiple-vulnerabilities
Micorsoft Blog	https://www.microsoft.com/en-us/security/blog/2022/12/21/microsoft-research-uncovers-new-zerobot-capabilities/
The Hacker News	https://thehackernews.com/2022/12/zerobot-botnet-emerges-as-growing.html
Security Week	https://www.securityweek.com/zerobot-iot-botnet-adds-more-exploits-ddos-capabilities
Bleeping Computer	https://www.bleepingcomputer.com/news/security/zerobot-malware-now-spreads-by-exploiting-apache-vulnerabilities/
Threat Signal	https://www.fortiguard.com/threat-signal-report/4926

Learn more about FortiGuard Outbreak Alerts

