你所不知道的 Fortinet

Q3 202108

Dave Peng (彭冠嘉)

Technical Consultant Taiwan

New Feature

全方位的資安

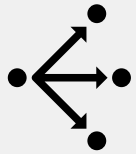
成功案例分享

Score : 10 / 100

NP7 新晶片問世

Line, Teams 等通訊軟體整合

Gartner 領先的 SDWAN

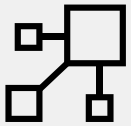


AI 防毒機制的導入

控管 Youtube 頻道

原廠支援客製化 IPS, App

自動化腳本機制

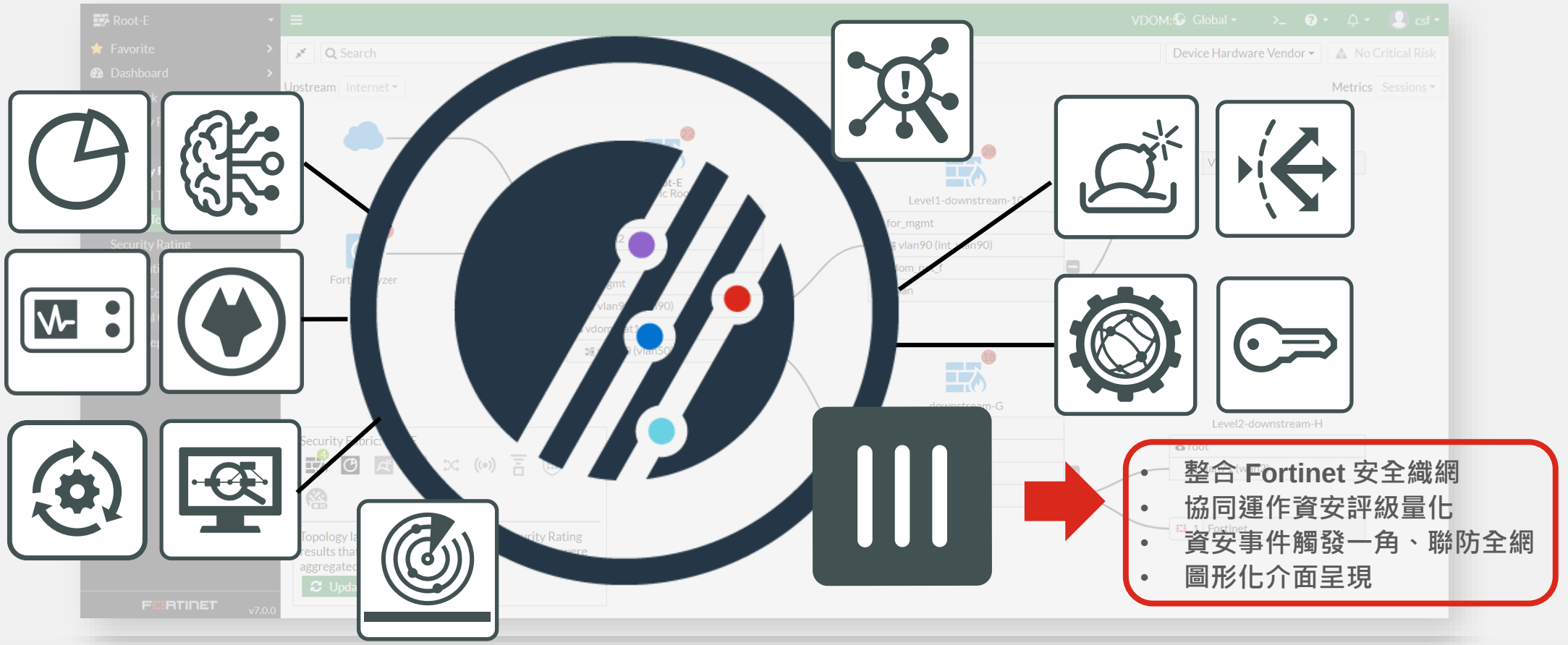


IoT / OT 辨識及防護

Fortinet 大家族齊聚一堂

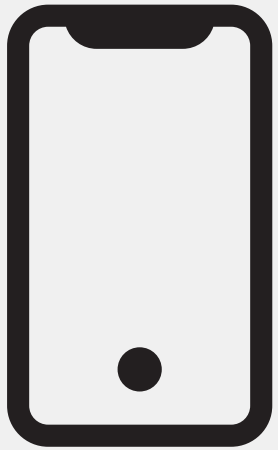
Score : 10 / 100

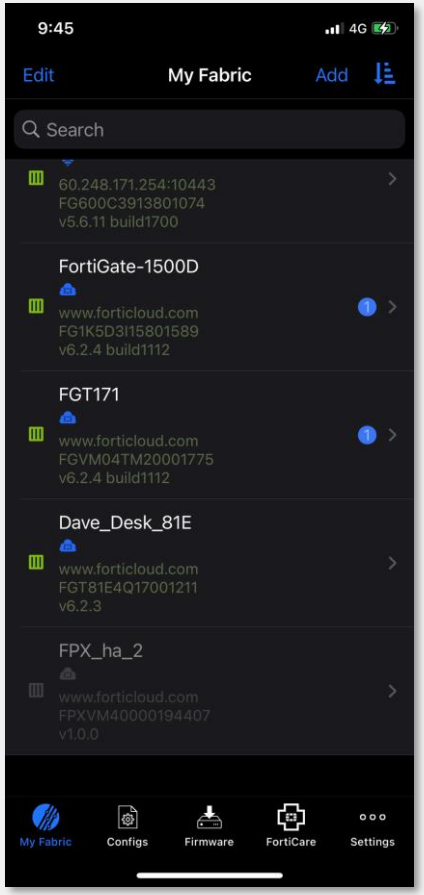
- Fortinet 的產品互相可以做到自動化及統一管理的功能

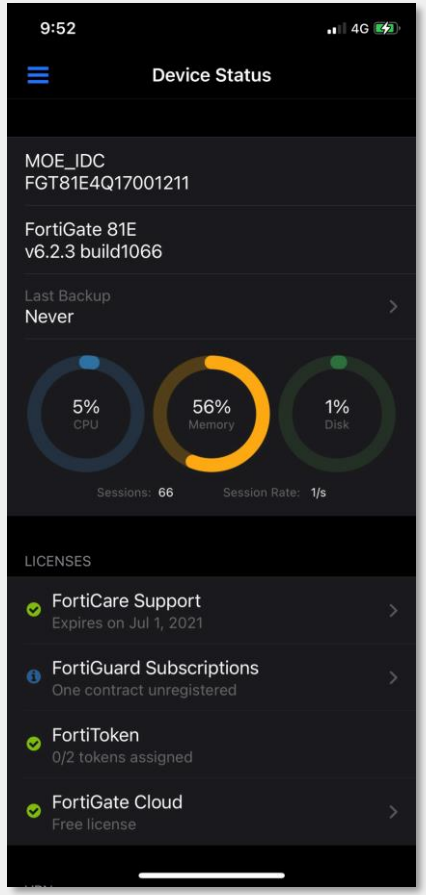


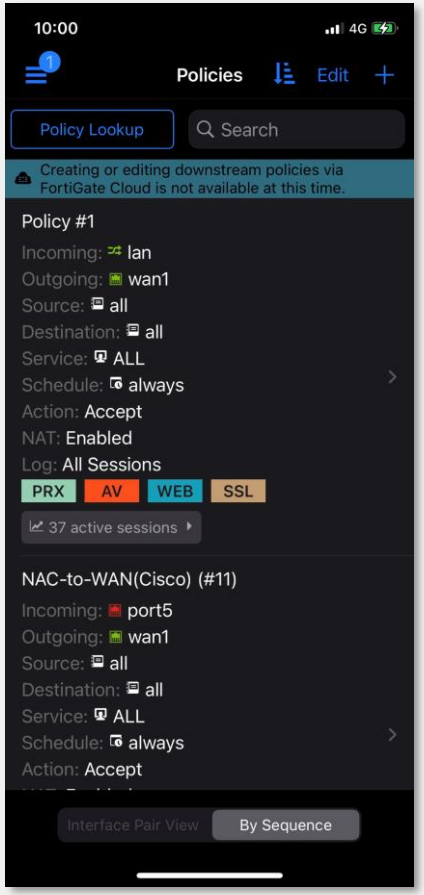
一機在手，希望無窮

Score : 20 / 100





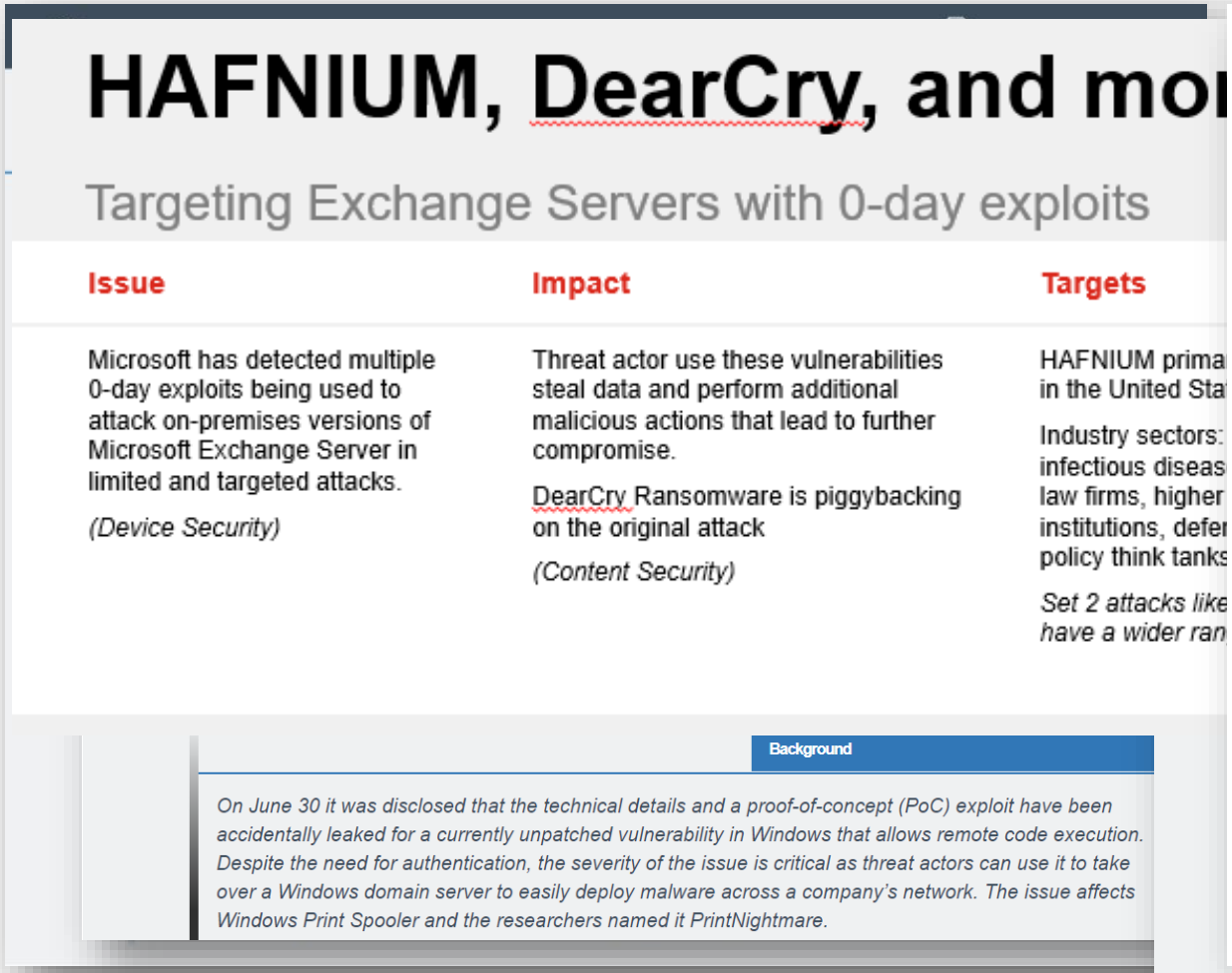




你的專屬資安助理: Outbreak Alert

Score : 30 / 100

- FortiGuard 資安事件爆發警報將成為向客戶和合作夥伴傳達重要信息的機制。
- 當發生對網路安全產生重大影響並影響眾多組織的資安事件與攻擊時，即時更新 FortiGuard 爆發警報的鏈接
- 可以產出 HTML、PDF、XML 和 CSV 格式的報告



HAFNIUM, DearCry, and mo

Targeting Exchange Servers with 0-day exploits

Issue

Microsoft has detected multiple 0-day exploits being used to attack on-premises versions of Microsoft Exchange Server in limited and targeted attacks.

(Device Security)

Impact

Threat actor use these vulnerabilities steal data and perform additional malicious actions that lead to further compromise.

DearCry Ransomware is piggybacking on the original attack

(Content Security)

Targets

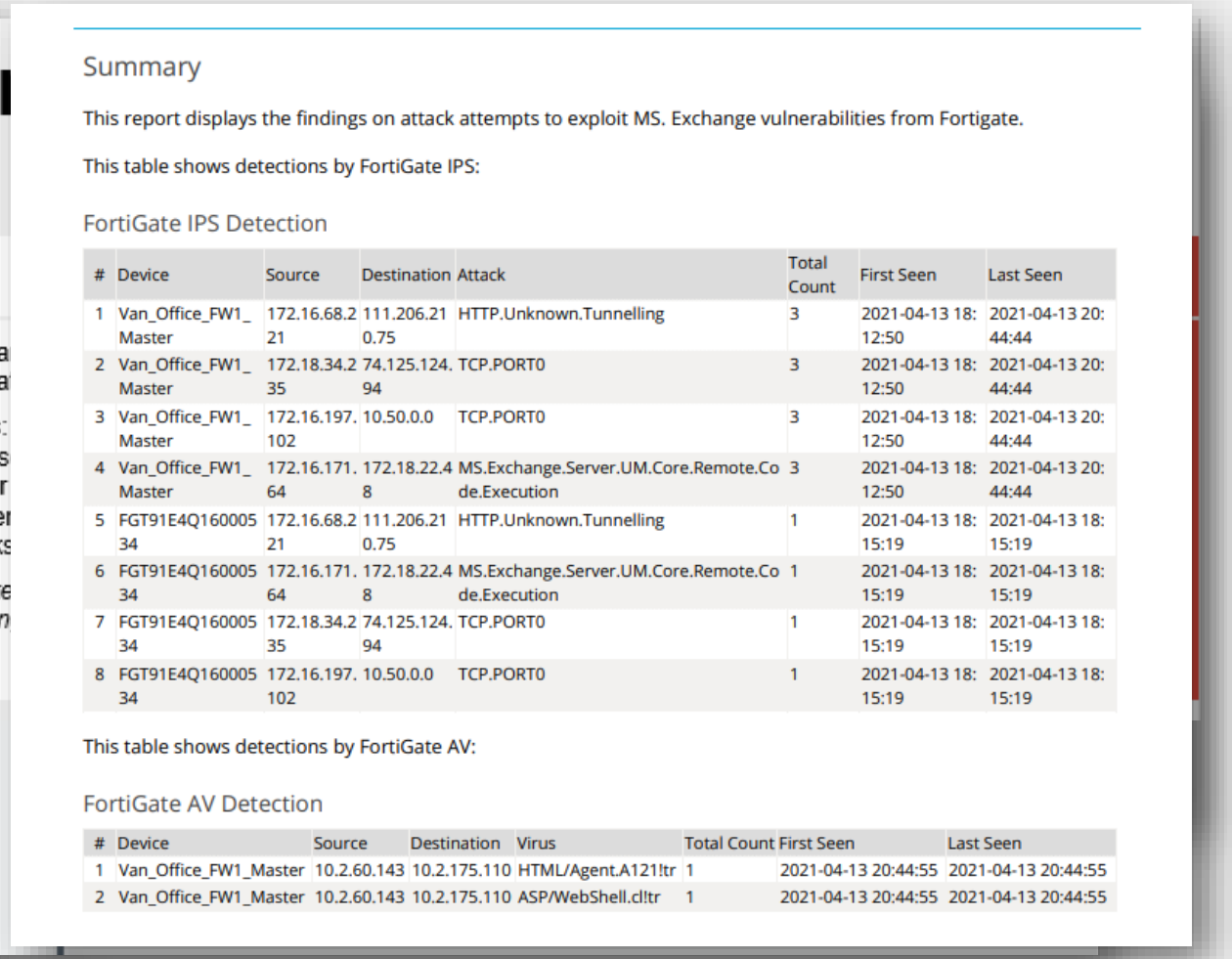
HAFNIUM prima
in the United Sta

Industry sectors:
infectious diseas
law firms, higher
institutions, defe
policy think tanks

*Set 2 attacks like
have a wider ran*

Background

On June 30 it was disclosed that the technical details and a proof-of-concept (PoC) exploit have been accidentally leaked for a currently unpatched vulnerability in Windows that allows remote code execution. Despite the need for authentication, the severity of the issue is critical as threat actors can use it to take over a Windows domain server to easily deploy malware across a company's network. The issue affects Windows Print Spooler and the researchers named it PrintNightmare.



Summary

This report displays the findings on attack attempts to exploit MS. Exchange vulnerabilities from Fortigate.

This table shows detections by FortiGate IPS:

FortiGate IPS Detection

#	Device	Source	Destination	Attack	Total Count	First Seen	Last Seen
1	Van_Office_FW1_Master	172.16.68.221	111.206.210.75	HTTP.Unknown.Tunnelling	3	2021-04-13 18:12:50	2021-04-13 20:44:44
2	Van_Office_FW1_Master	172.18.34.235	74.125.124.94	TCP.PORT0	3	2021-04-13 18:12:50	2021-04-13 20:44:44
3	Van_Office_FW1_Master	172.16.197.102	10.50.0.0	TCP.PORT0	3	2021-04-13 18:12:50	2021-04-13 20:44:44
4	Van_Office_FW1_Master	172.16.171.64	172.18.22.48	MS.Exchange.Server.UM.Core.Remote.Code.Execution	3	2021-04-13 18:12:50	2021-04-13 20:44:44
5	FGT91E4Q16000534	172.16.68.221	111.206.210.75	HTTP.Unknown.Tunnelling	1	2021-04-13 18:15:19	2021-04-13 18:15:19
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This table shows detections by FortiGate AV:

FortiGate AV Detection

#	Device	Source	Destination	Virus	Total Count	First Seen	Last Seen
1	Van_Office_FW1_Master	10.2.60.143	10.2.175.110	HTML/Agent.A121!tr	1	2021-04-13 20:44:55	2021-04-13 20:44:55
2	Van_Office_FW1_Master	10.2.60.143	10.2.175.110	ASP/WebShell.cl!tr	1	2021-04-13 20:44:55	2021-04-13 20:44:55

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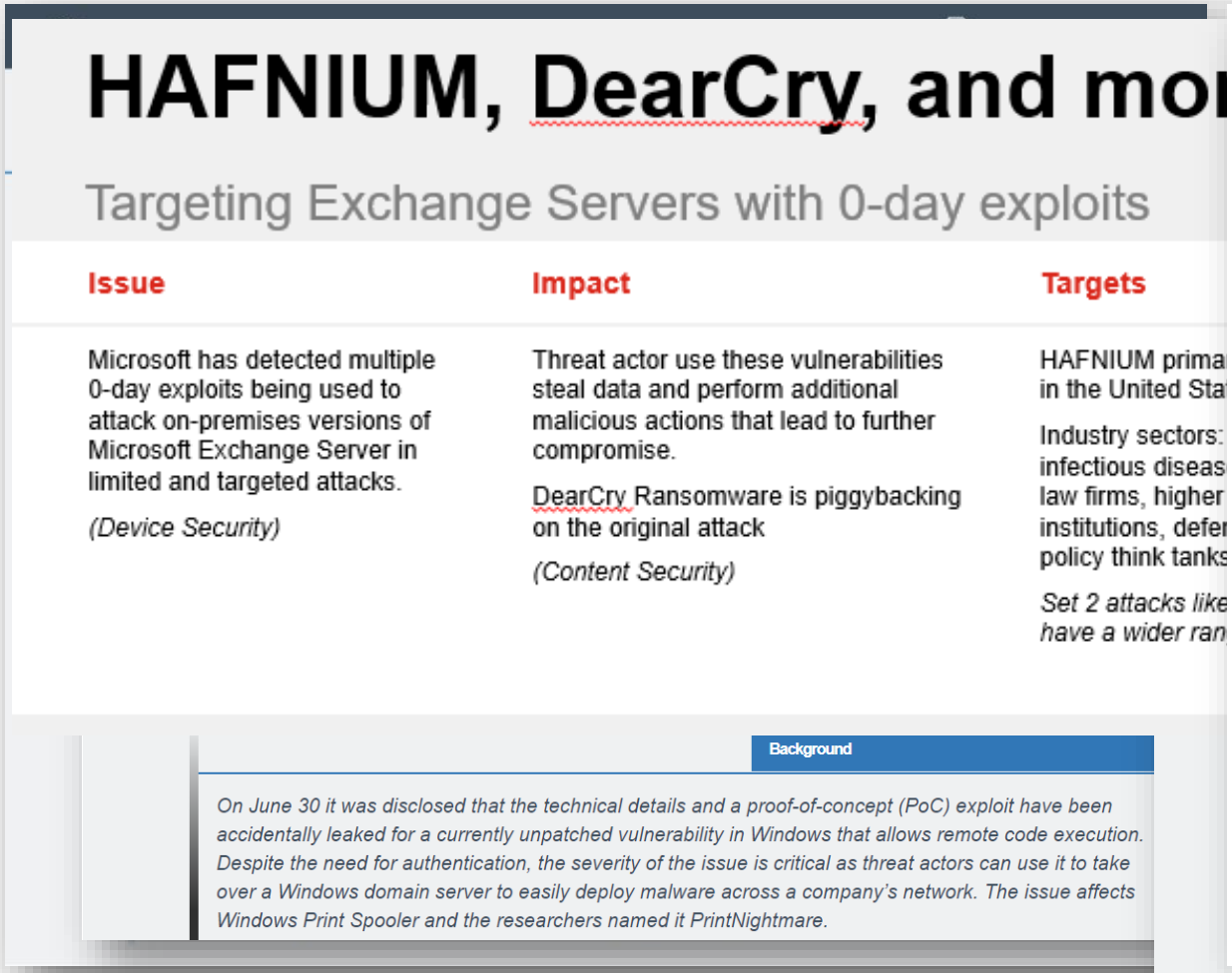

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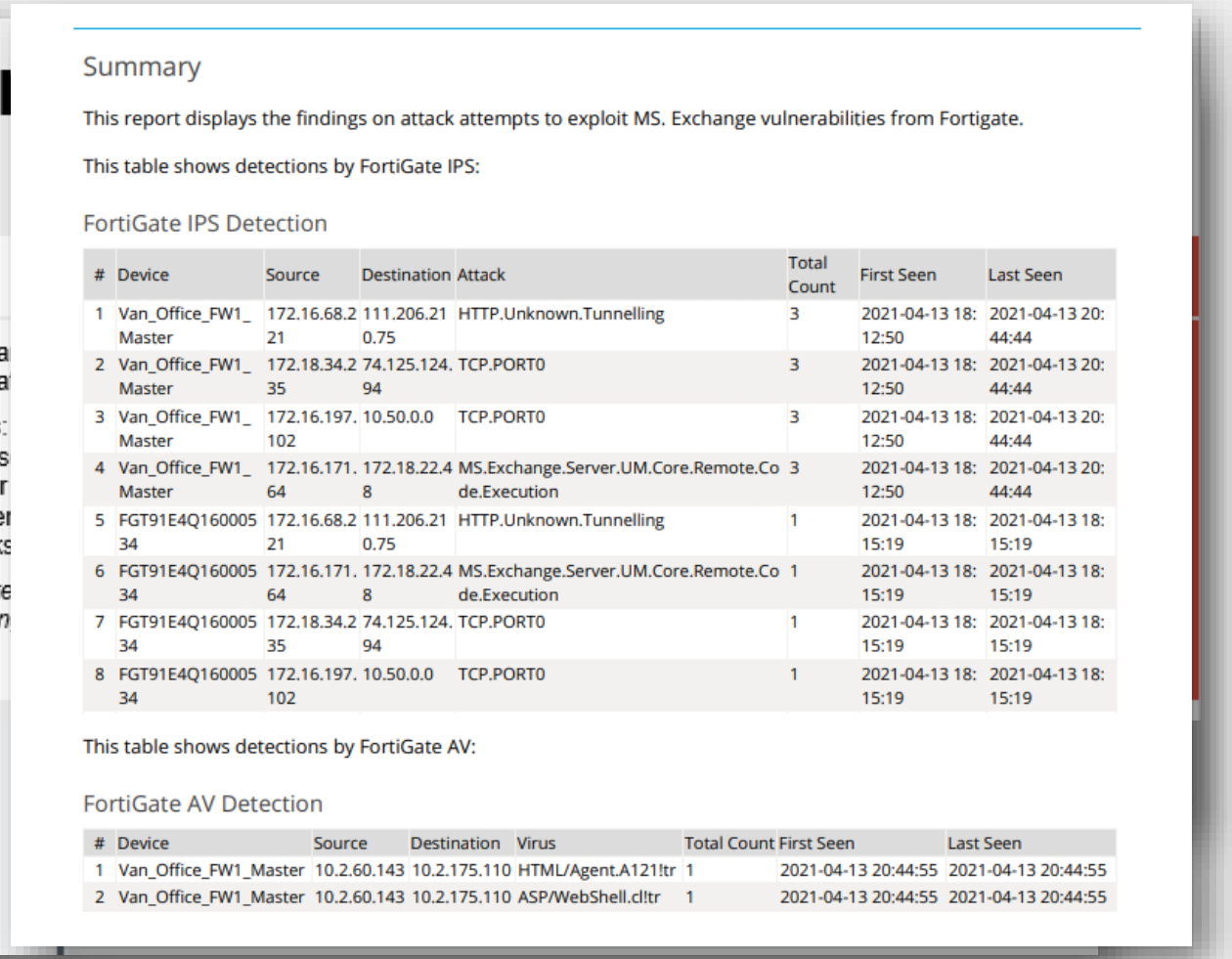

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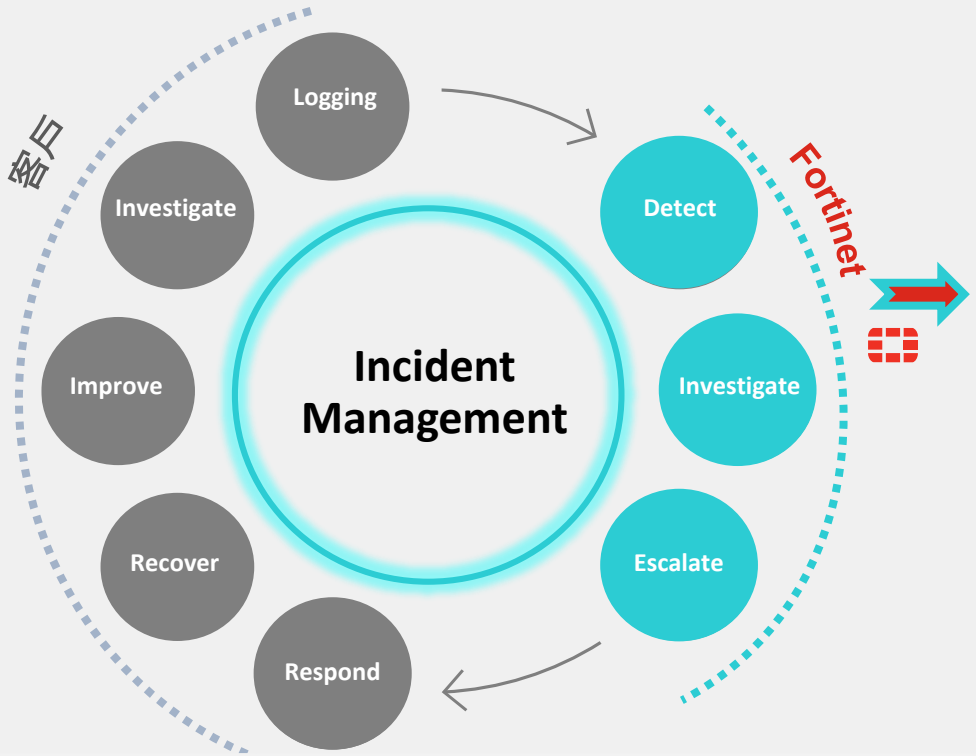
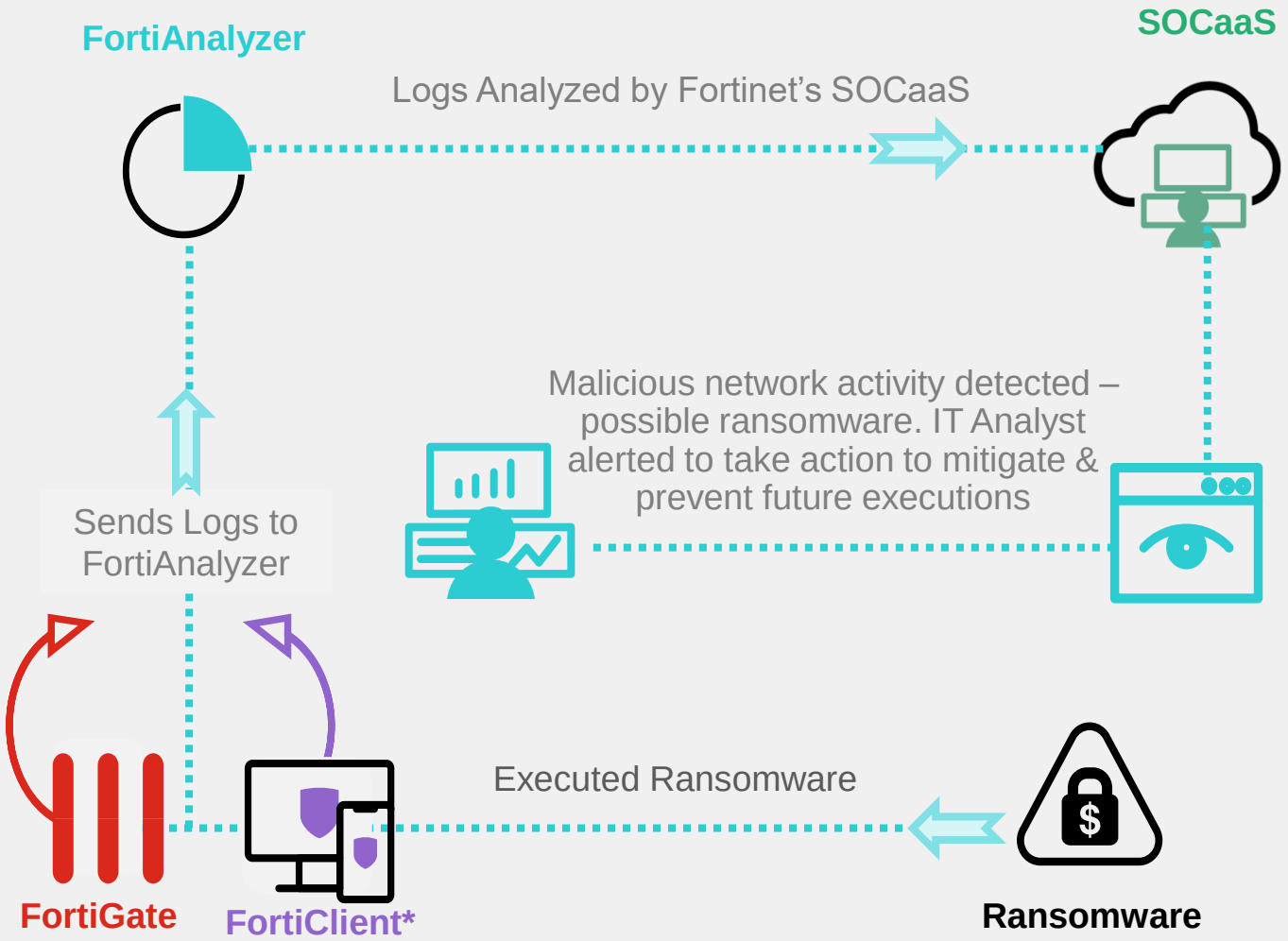
Fortinet's 24x7 SOCaaS 服務

Score : 30 / 100





SLA 回應時間

Score : 30 / 100

等級回應

CRITICAL (P1, Priority 1) **Escalation Time** Phone: 15 min. Email: 15 min.

HIGH (P2, Priority 2) **Escalation Time** Phone: 45 min. Email: 90 min.

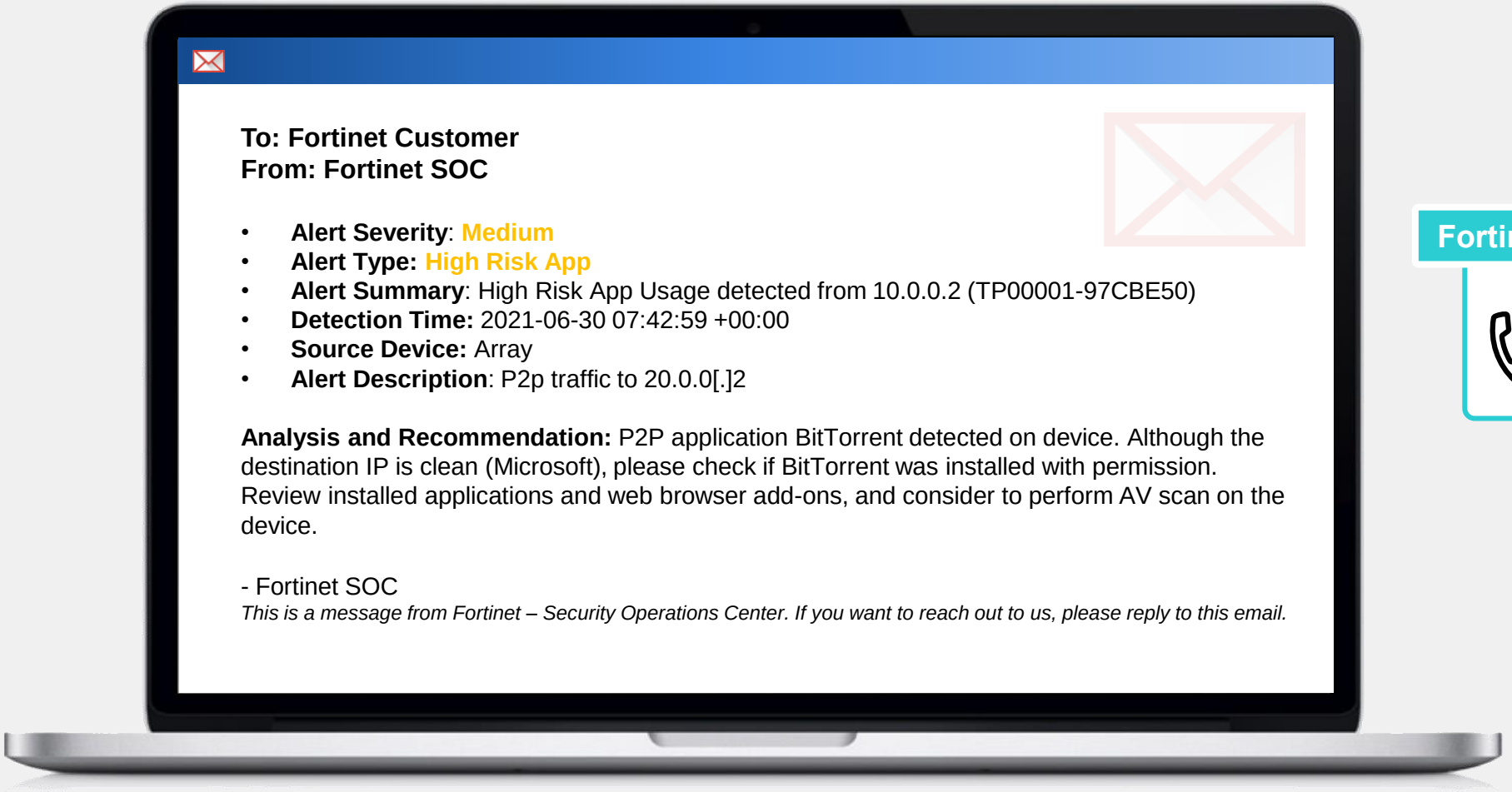
MEDIUM (P3, Priority 3) **Escalation Time** Phone: NA Email: 90 min.

LOW (P4, Priority 4) **Escalation Time** Phone: N/A. Email: 6 hours

Fortinet 簡訊、Mail 通知教你怎麼做

Score : 30 / 100

SOCaaS Incident notification and recommendation email example



To: Fortinet Customer
From: Fortinet SOC

- **Alert Severity**: **Medium**
- **Alert Type: High Risk App**
- **Alert Summary**: High Risk App Usage detected from 10.0.0.2 (TP00001-97CBE50)
- **Detection Time:** 2021-06-30 07:42:59 +00:00
- **Source Device:** Array
- **Alert Description**: P2p traffic to 20.0.0[.]2

Analysis and Recommendation: P2P application BitTorrent detected on device. Although the destination IP is clean (Microsoft), please check if BitTorrent was installed with permission. Review installed applications and web browser add-ons, and consider to perform AV scan on the device.

- Fortinet SOC

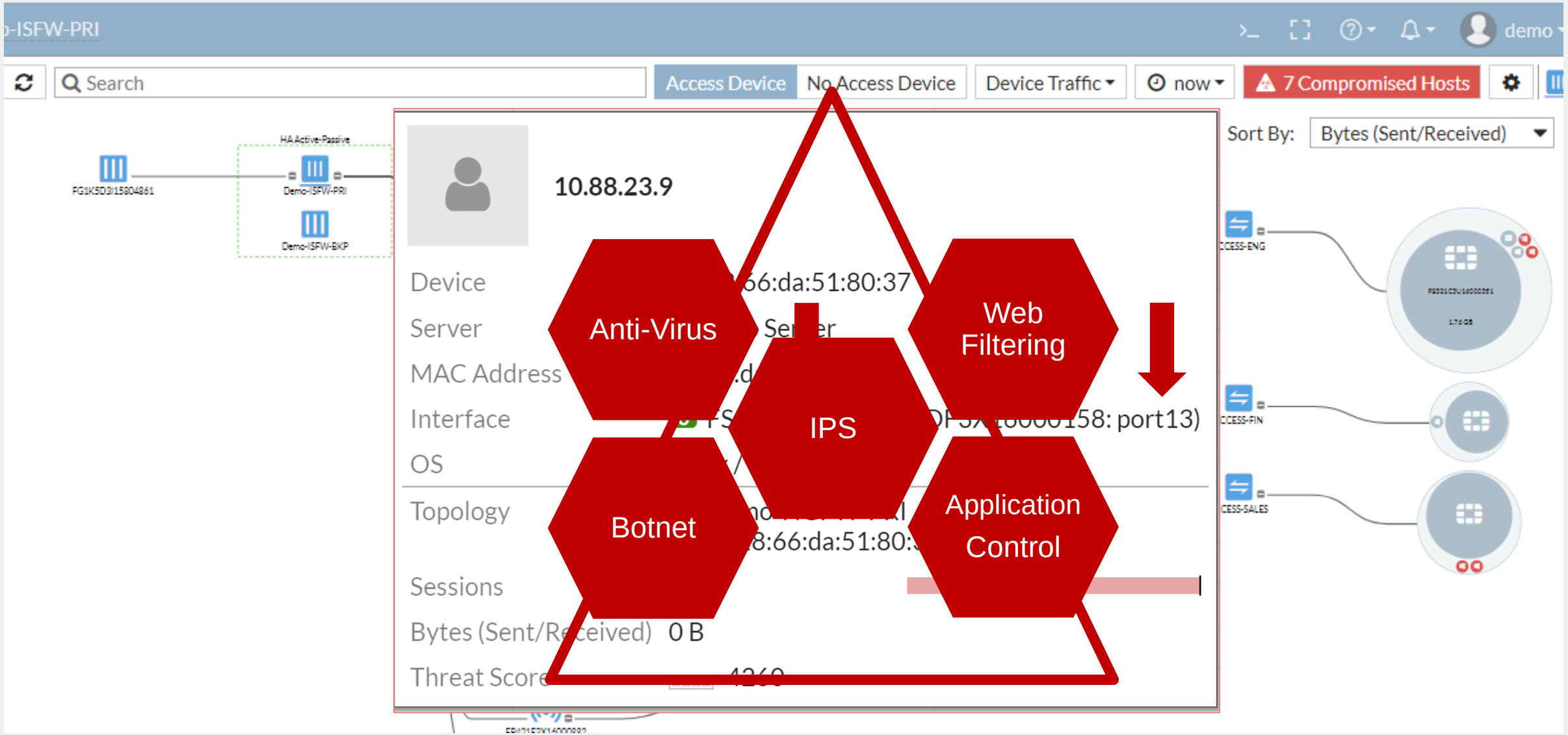
This is a message from Fortinet – Security Operations Center. If you want to reach out to us, please reply to this email.

Fortinet's SOC Team

Provides an alert assessment and mitigation in the SOC Analysis and SOC Recommendations line items.

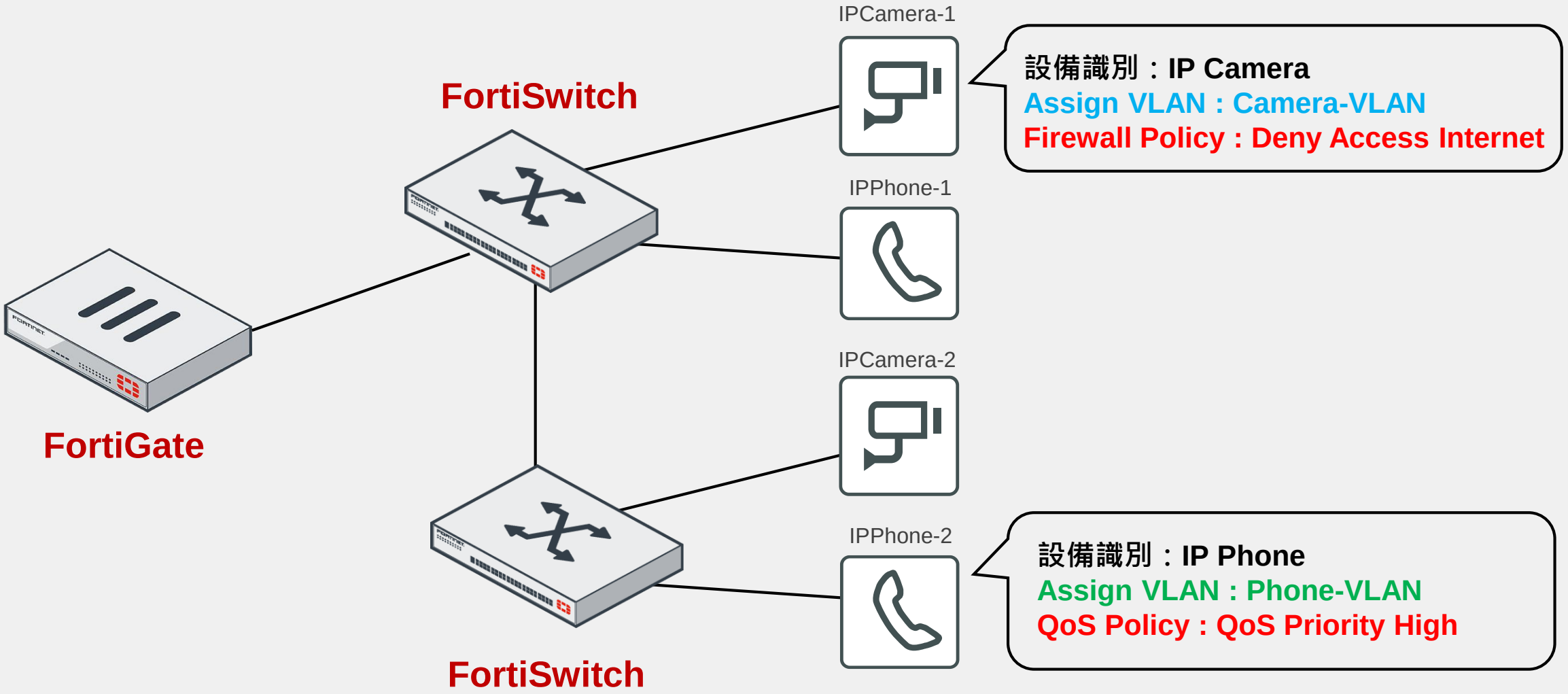
Fortinet 鐵三角

Score : 40 / 100

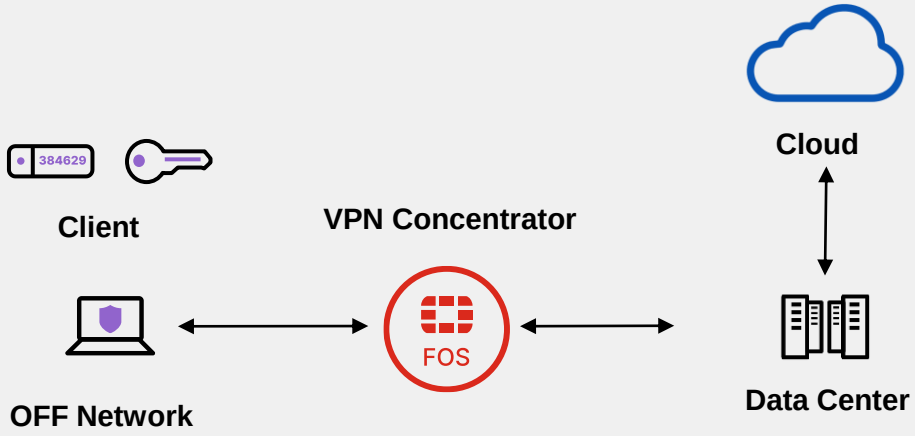


資安導向的網路環境 – NAC

Score : 40 / 100



VPN



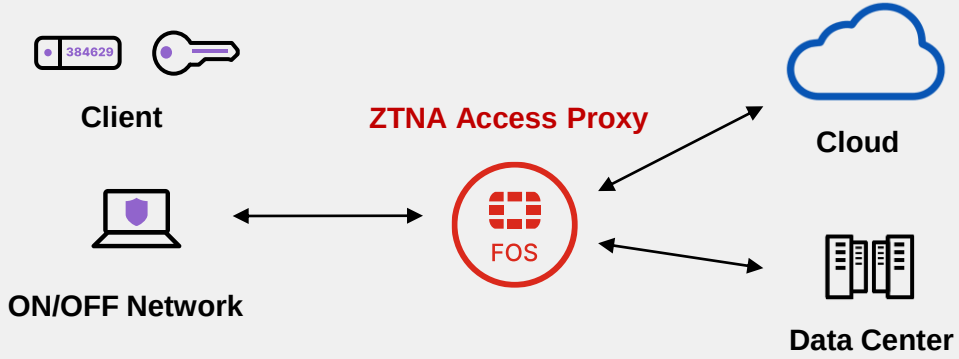
登入時一次性的檢查

基於網段的存取

傳統的防火牆控制策略

ZTNA

Score：50 / 100



持續性的資安狀態檢核

針對指定應用服務提供存取

使用者狀態上下文規則控制策略

Fortinet ZTNA 優勢

Score : 50 / 100

資安完整覆蓋 vs. 其他 ZTNA 解決方案

利用既有已投資的公司資產(次世代防火牆)

- 大多數的 ZTNA 解決方案是 SASE 服務商其中一項資安功能選項，伴隨著昂貴的訂閱費用
- 透過 FGT 可更快速的存取本地資料中心內的服務與資源
- 可運用 Fortinet SD-WAN, SD-Branch, Security Fabric 整合方案

專注於安全提升的 (“Secure ZTNA”)

- 延展 FGT 防護至企業提供服務的任何地方
- 存取流量穿越業界領導品牌 FortiGate 資安防護技術
- 提供 FortiGuard Labs services

資安完整覆蓋

- 只需啟用 FortiGate 和 FortiClient 中的 ZTNA 功能即可！
- 輕鬆的從 VPN Access 數位轉型至 ZTNA

Score : 60 / 100

Line 告警

SOC 資料集中

內建 250 萬筆惡意 IP

可整合外部情資

Fortigate

自動阻擋惡意連線

FortiSIEM

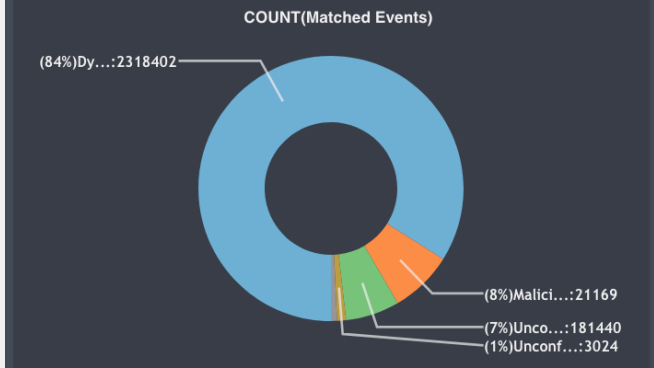
Aruba

自動隔離惡意使用者

Score : 60 / 100

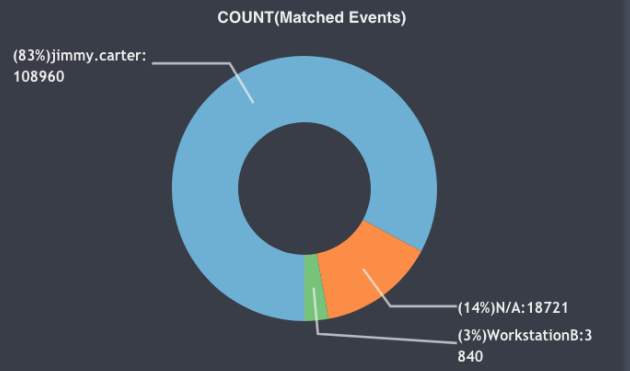
FortiEDR Top EDR Rules

Last 1 week@19:16

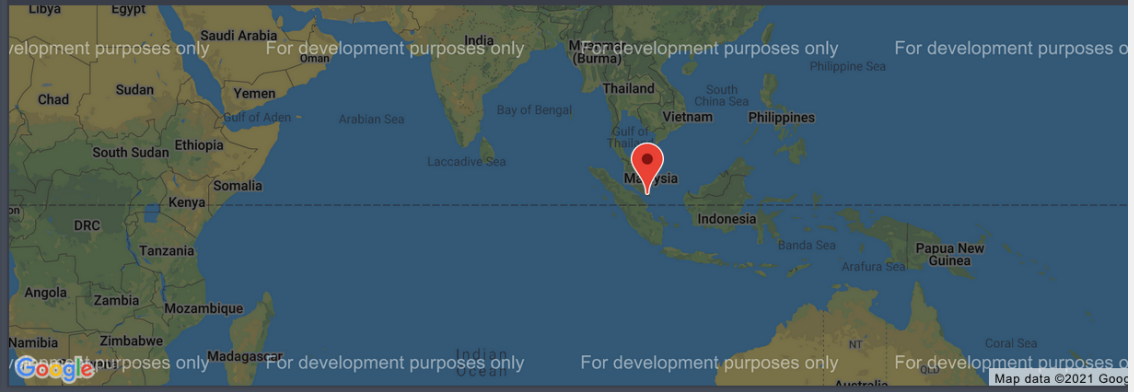


FortiEDR Top Users with Security Events

Last 8 hours@19:15



FortiEDR Top External Destinations



FortiEDR Security Events by Rule Name

Last 8 hours@19:15

Event Name	Firewall Action	Rule Name	COUNT(Matched Events)
FortiEDR blocked malicious file	Blocked (Simulation)	Malicious File Detected	8160
FortiEDR blocked suspicious file	Blocked	Dynamic Code - Malicious Runt...	2880
FortiEDR-Security-FortiEDR-Syslog-message-FortiED...	FortiEDR Syslog message		1920
FortiEDR blocked malicious file	Blocked (Simulation)	Unconfirmed Executable - Exec...	1440
FortiEDR-Security-PUP-Blocked	Blocked (Simulation)	Malicious File Detected	1440
FortiEDR blocked suspicious file	Blocked	Suspicious Application - Conne...	960
FortiEDR blocked inconclusive file	Blocked (Simulation)	Malicious File Detected	480

FortiEDR Security Events

Event Receive Time	Reporting IP	Event Name	Raw Event Log
Jan 25 2021, 05:03:26 PM	35.246.165.37	FortiEDR blocked malicious ...	<133>1 2020-10-22T10:50:39.000Z fortinetdem
Jan 25 2021, 05:03:26 PM	35.246.165.37	FortiEDR blocked inconclusi...	<133>1 2020-10-22T11:12:44.000Z fortinetdem
Jan 25 2021, 05:03:25 PM	35.246.165.37	FortiEDR blocked suspicious...	<133>1 2020-10-22T10:58:22.000Z fortinetdem
Jan 25 2021, 05:03:25 PM	35.246.165.37	FortiEDR blocked malicious ...	<133>1 2020-10-22T10:50:02.000Z fortinetdem
Jan 25 2021, 05:03:25 PM	35.246.165.37	FortiEDR blocked suspicious...	<133>1 2020-10-22T10:58:20.000Z fortinetdem
Jan 25 2021, 05:03:25 PM	35.246.165.37	FortiEDR blocked inconclusi...	<133>1 2020-10-22T10:54:26.000Z fortinetdem
Jan 25 2021, 05:03:25 PM	35.246.165.37	FortiEDR blocked inconclusi...	<133>1 2020-10-22T10:13:45.000Z fortinetdem

FortiEDR Malicious Files by Workstation

Last 8 hours@19:15

Source IP	File Name	COUNT(Matched Events)
192.168.1.155		110400
10.1.1.8		15360
192.168.1.69		3840
192.168.1.246		1

Workstation Count

Last 60 days@19:16

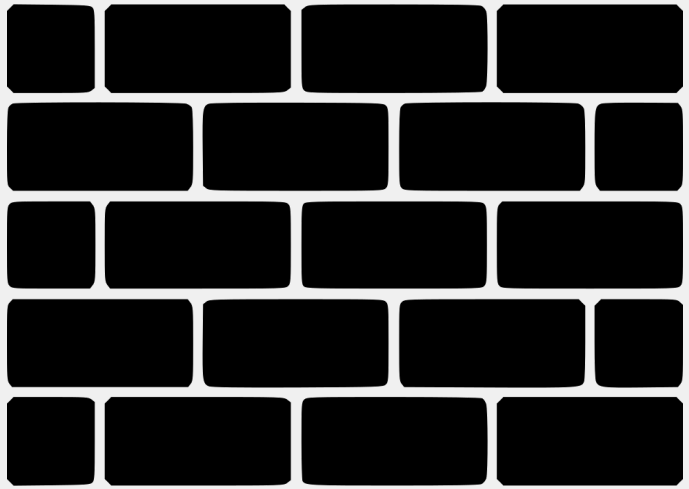
Distinct Hosts

7

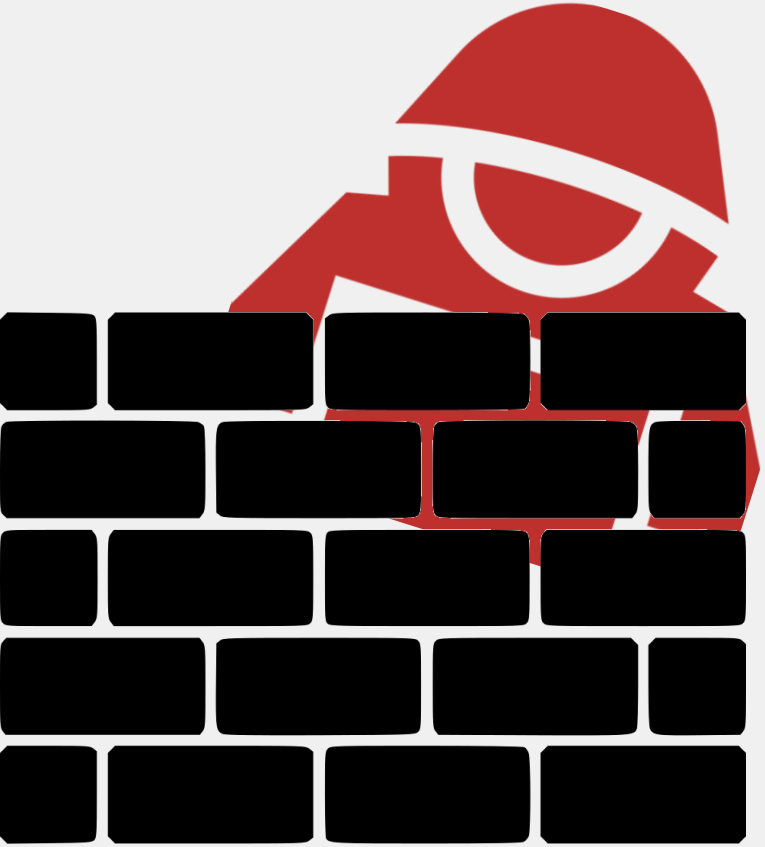
FortiEDR Most Targeted Application

無資料

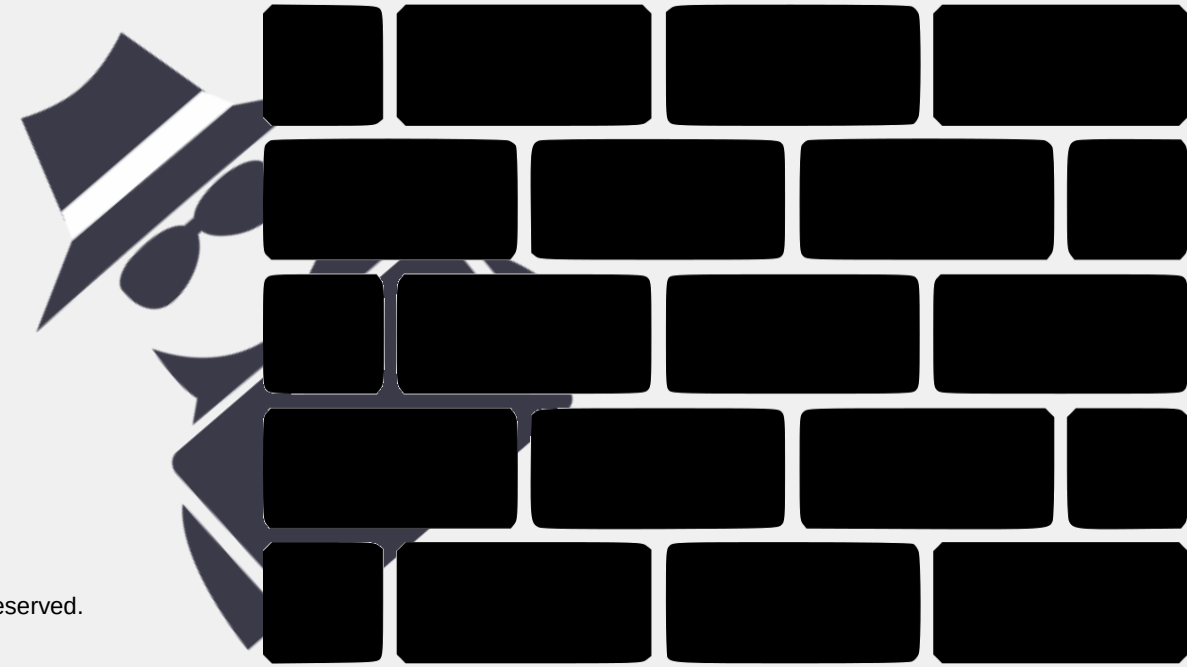
傳統資安 Mind



Score : 70 / 100

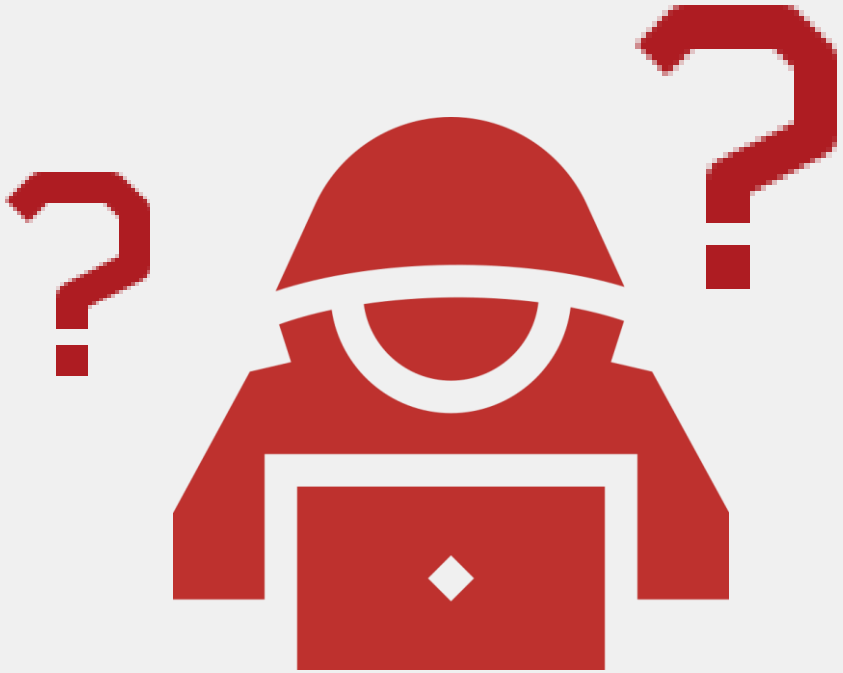


防禦不可能做到 100%



以駭客來思考的 Mind

Score : 70 / 100



讓攻擊無法 100 % 成功

Score : 70 / 100

駭客開始攻擊假主機

Why FortiDeceptor

Score : 70 / 100

新世代解決方案：

利用部署誘餌，即時引出內部及外部的侵入者
並且聯動第一時間做防護。

IPS – 入侵偵測

AV – 惡意軟件偵測

WF – 網頁瀏覽偵測

ARAE – 自動尋找弱點

RTT – 即時找尋駭客蹤跡

FortiEDR, 勒索不再怕

Score : 80 / 100

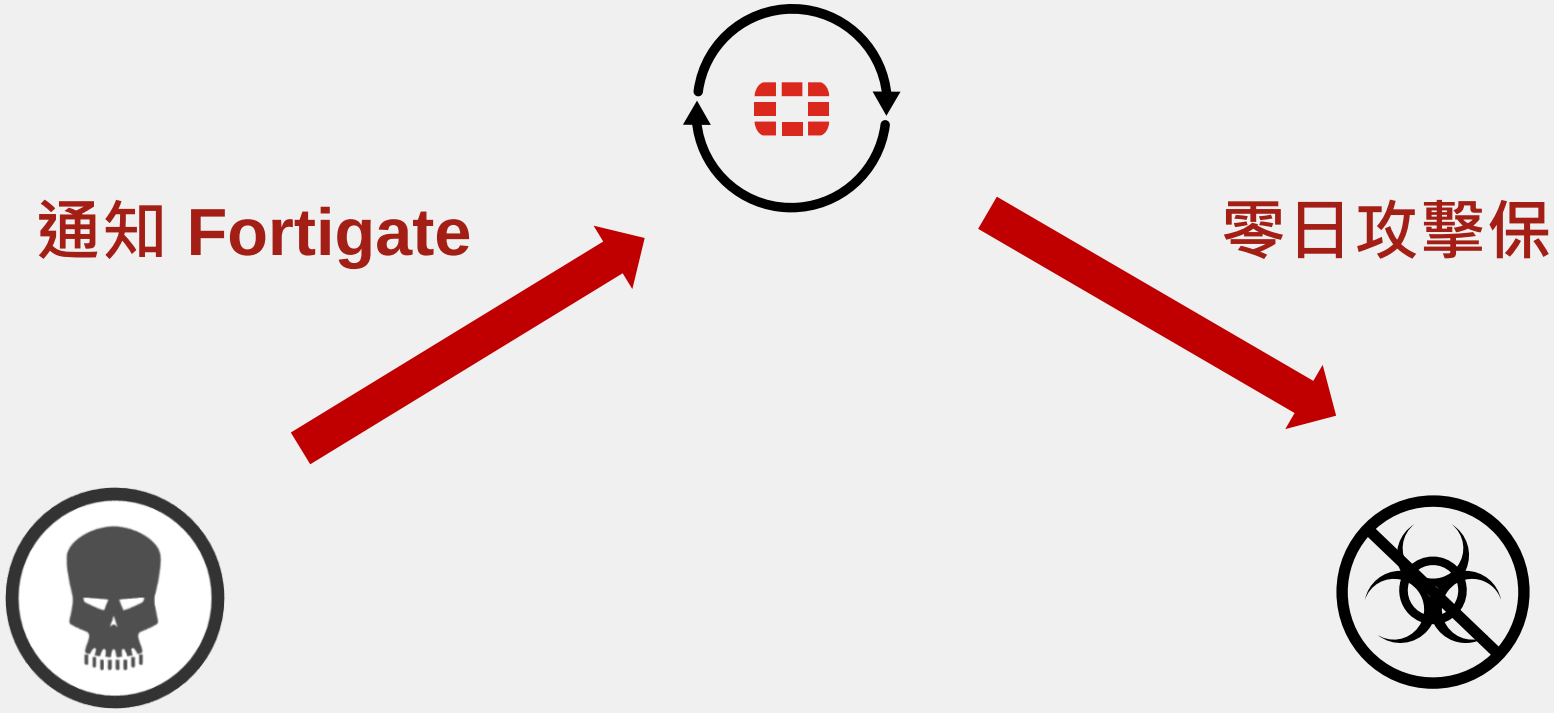
路徑關聯

行為分析

扼殺勒索

整合 Fortigate，全面性防禦

Score : 80 / 100



端點連線上新的 C&C 連線

即時阻攔所有其他相同 C&C 連線

Score : 90 / 100

FortiGuard Security Services

SOC & NOC

- Content Security
- Web Security
- Advanced SOC/NOC

User Security

- User Security
- Device Security
- Bundled Security

Fabric Management Center - SOC

Endpoint

- FortiEDR
- FortiXDR

Breach

- FortiSandbox
- FortiDeceptor
- FortiAI

Incident Response

- FortiAnalyzer
- FortiSIEM
- FortiSOAR
- FortiGuard MDR Service

Fabric Management Center - NOC

- FortiManager
- FortiCloud
- FortiMonitor

Open Ecosystem

- Connector
- Fabric API
- DevOps
- Extended Fabric Ecosystem

Zero Trust Access

- FortiClient
- FortiNAC
- FortiVoice
- FortiToken
- FortiAuthenticator
- FortiCamera

Security-Driven Networking

LAN Edge

- FortiAP
- FortiSwitch

WAN Edge

- FortiGate SD-WAN
- FortiExtender

DC Edge

- FortiGate
- FortiProxy

Cloud Edge

- FortiSASE
- FortiISolator

Adaptive Cloud Security

Network

- FortiGate VM
- Multi-cloud SD-WAN
- FortiDDos

Platform

- FortiCASB
- FortiCWP
- Cloud Security Posture Management

Applications

- FortiWeb
- FortiMail
- FortiADC
- FortiGSLB

Appliance | VM | Hosted | Cloud | Software | Container

Security Mind

Score : 100 / 100

With Fortinet


FORTINET