

Check Point®
SOFTWARE TECHNOLOGIES LTD

構築安全未來 防護無限延展

Check Point Infinity Total Protection

楊敦凱 Danny Yang | 技術顧問

WELCOME TO THE FUTURE OF
CYBER SECURITY

POWERED BY  CHECK POINT
INFINITY

CLOUD • MOBILE • THREAT PREVENTION

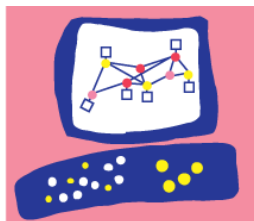


Agenda

- 資安趨勢與新世代管理架構
- 多面向實踐先進威脅防護
- 產品優勢分析及公司簡介



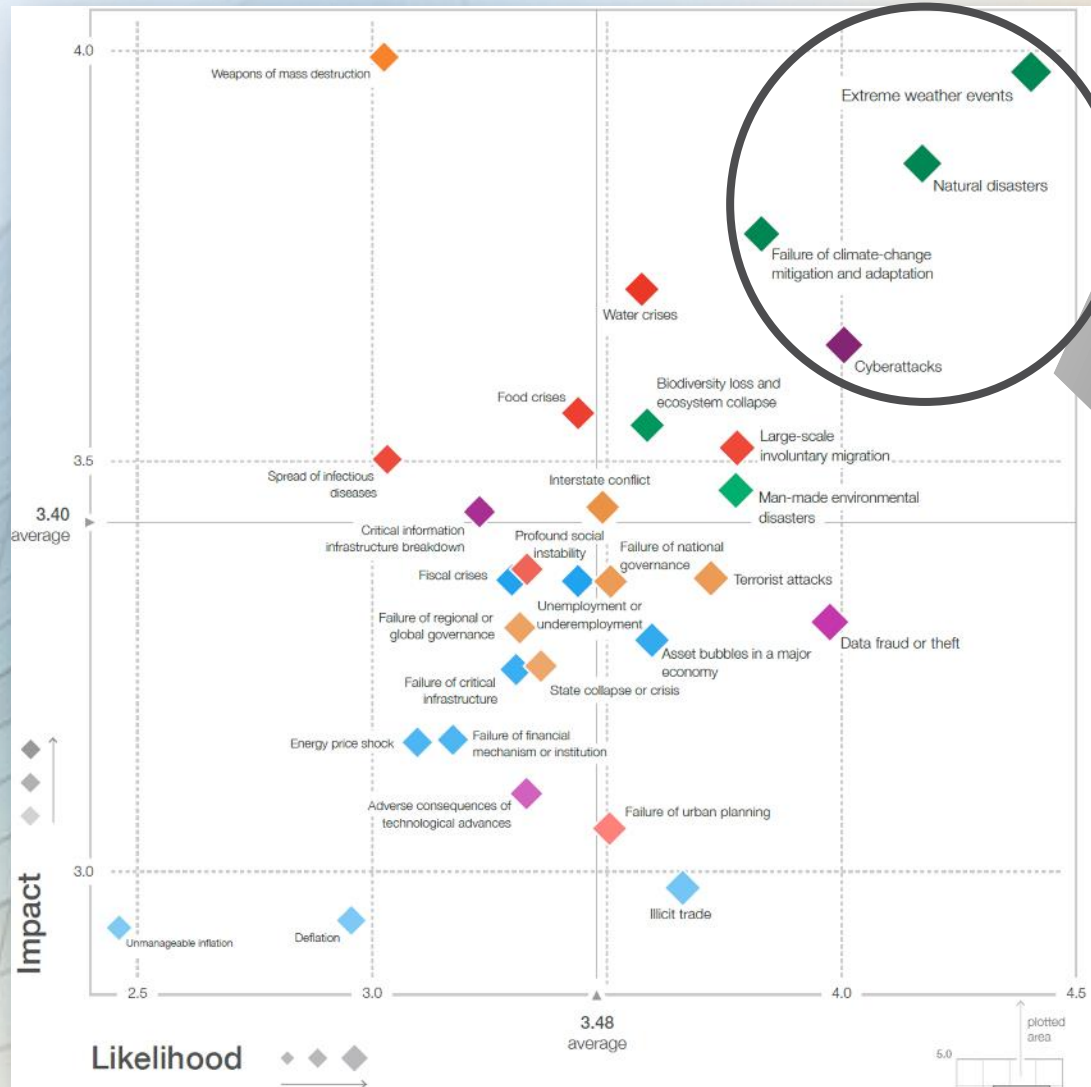
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- 資訊安全趨勢與新世代管理架構

2018 世界經濟論壇:全球風險報告



Top 5 Global Risks in Terms of Likelihood

	2016	2017	2018
1st	Large-scale involuntary migration	Extreme weather events	Extreme weather events
2nd	Extreme weather events	Large-scale involuntary migration	Natural disasters
3rd	Failure of climate-change mitigation and adaptation	Major natural disasters	Cyberattacks
4th	Interstate conflict with regional consequences	Large-scale terrorist attacks	Data fraud or theft
5th	Major natural catastrophes	Massive incident of data fraud/theft	Failure of climate-change mitigation and adaptation

回顧2017...層出不窮的惡意威脅與未知攻擊

未知惡意攻擊

行動威脅
漏洞未爆彈



WANNACRY 勒索軟體

嚴重影響

全球逾百公司組織

勒索軟體綁架
知名飯店電子門鎖系統
並將旅客反鎖在房間

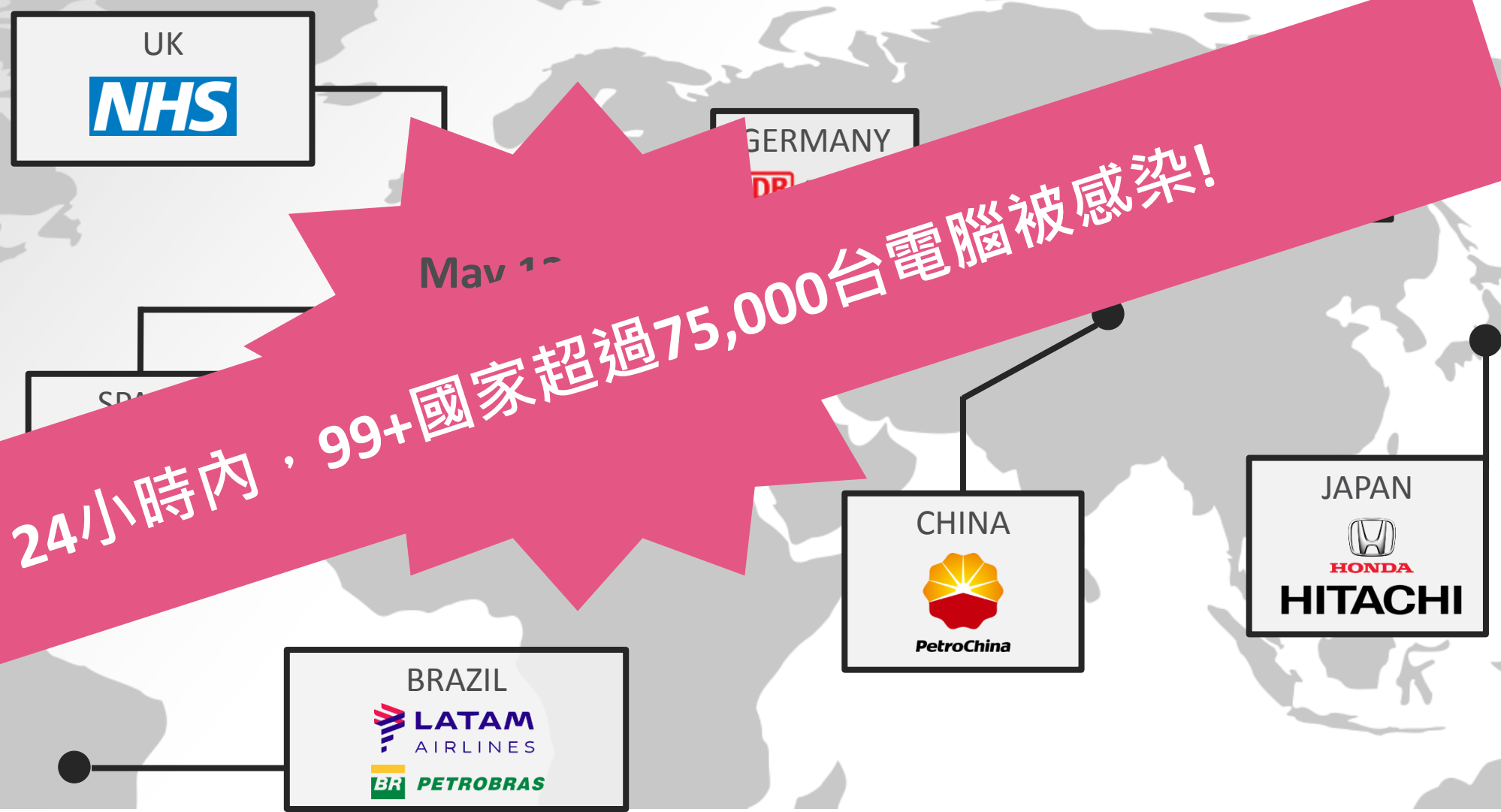


許多NSA掌握的時未知漏洞
遭竊且於黑市販售

MAY 2017: WANNACRY 全球大規模攻擊



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May 12

24小時內，99+國家超過75,000台電腦被感染!

WELCOME TO THE FUTURE OF CYBER SECURITY

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一個半月後: NOTPETYA 再度影響全世界




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UK
WPP

DENMARK
 MAERSK

FRANCE

USA



ROSNEFT

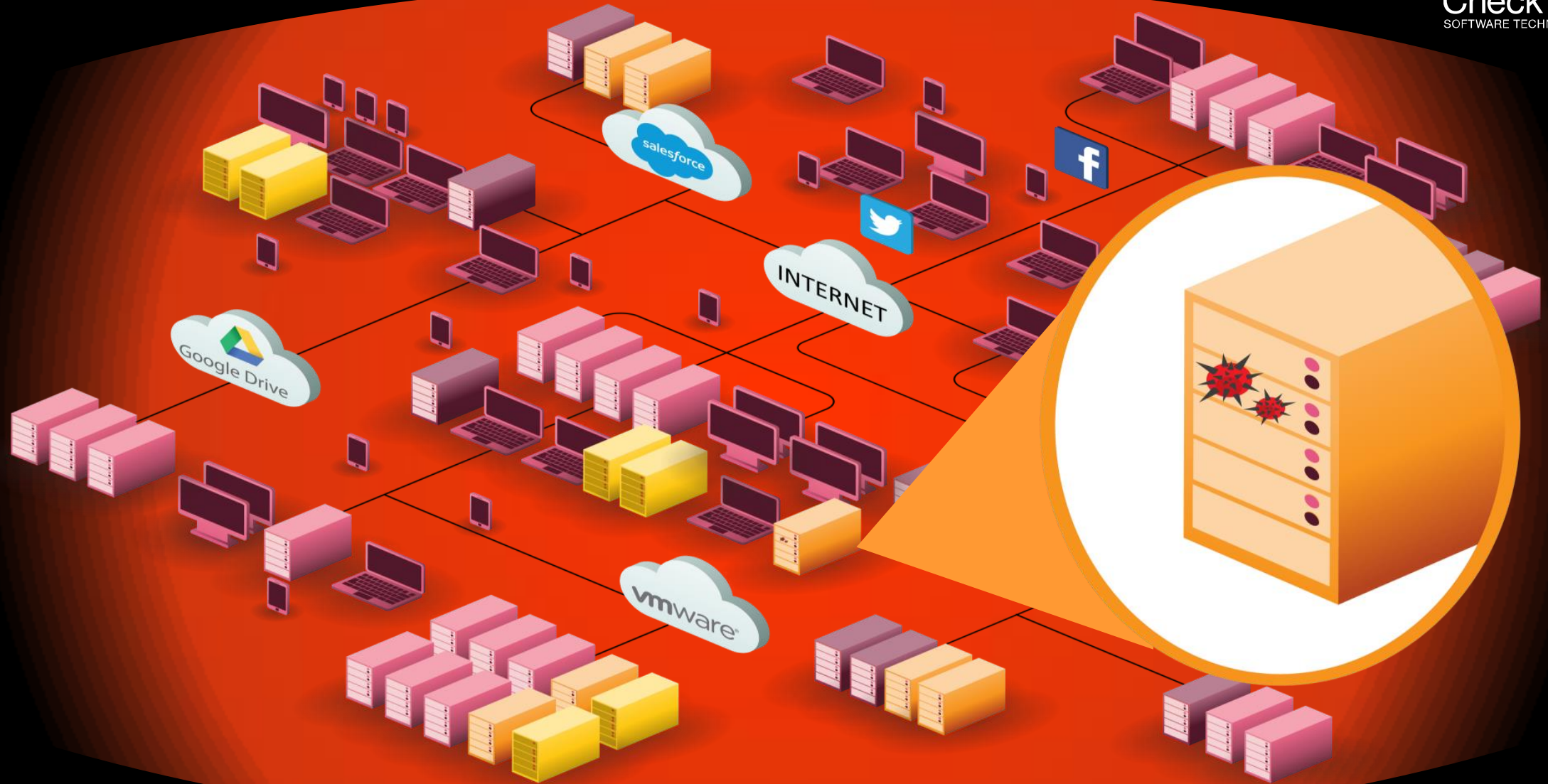
International airport
Chernobyl reactor
Power grid
Water supply system
• Petrol stations

65個國家的主要企業都受影響，烏克蘭幾近癱瘓

現今安全挑戰: 防堵多重突破口滲透與感染擴散



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可預期的安全面向: 雲、行動、威脅防護

惡意針對性的威脅持續增長. 所有人皆是目標



進階威脅

企業網路與系統
無孔不入的威脅



混合雲

雲應用加速轉移
跨平台與資源整合



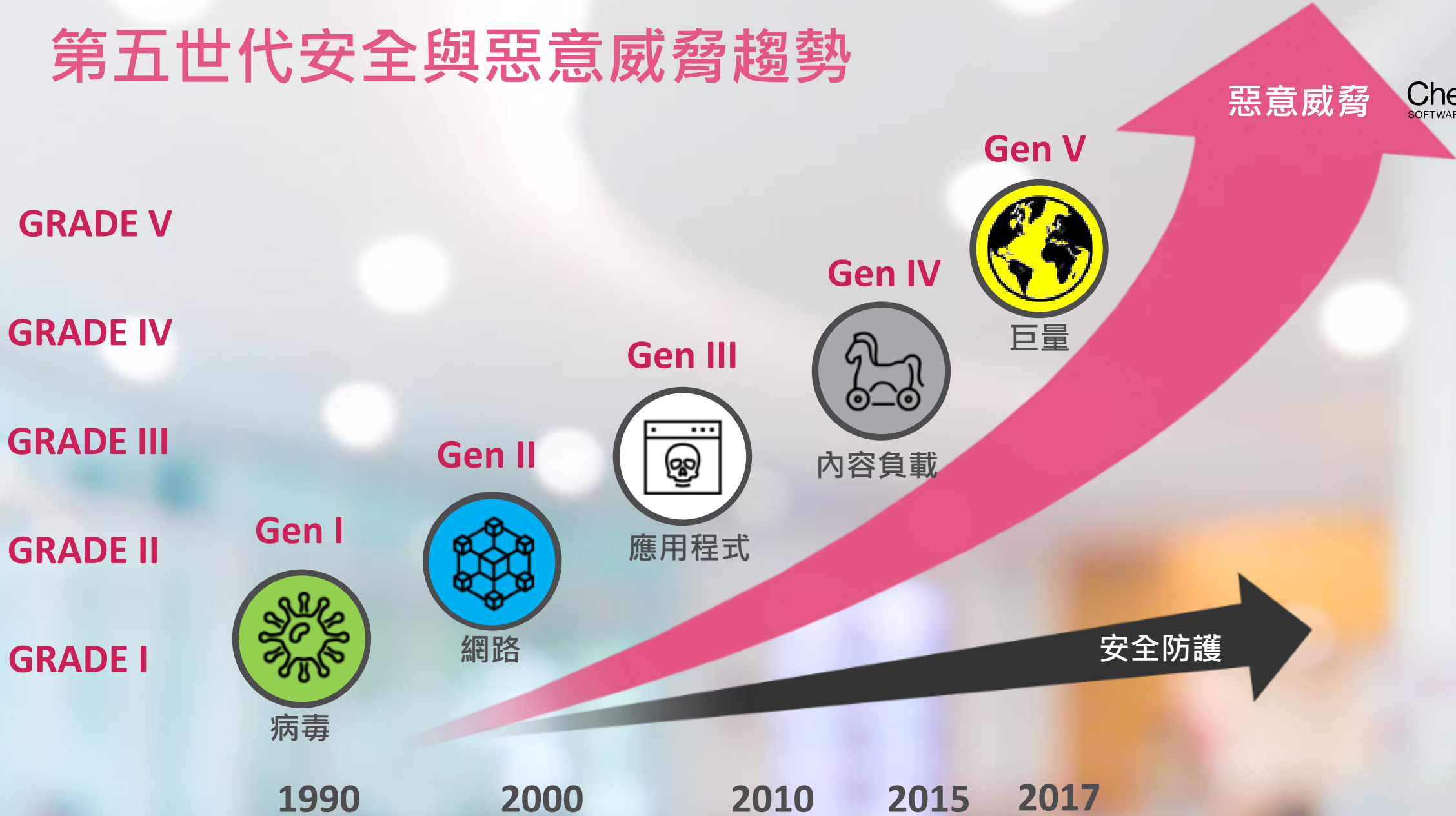
行動化

生產效率提升
企業重要基礎設施

第五世代安全與惡意威脅趨勢



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安全防護

惡意威脅



不同世代威脅與安全防護對照

Gen I

100%
of
businesses

1980'後期 –
PC攻擊 – 單點破壞

防毒軟體

Gen II

100%
of
businesses

1990'中期 –
外部網路攻擊

防火牆

Gen III

50%
of
businesses

2000s -
應用程式漏洞與系統弱點

入侵偵測系統(IPS)

Gen IV

7%
of
businesses

2010 -
多元型態惡意內容

沙箱檢測與殭屍防護

第五代安全威脅: 巨量攻擊(Mega Attack)



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多重破口
(網路, 端點, 行動)



超巨規模



快速擴散



國家級別



橫跨產業

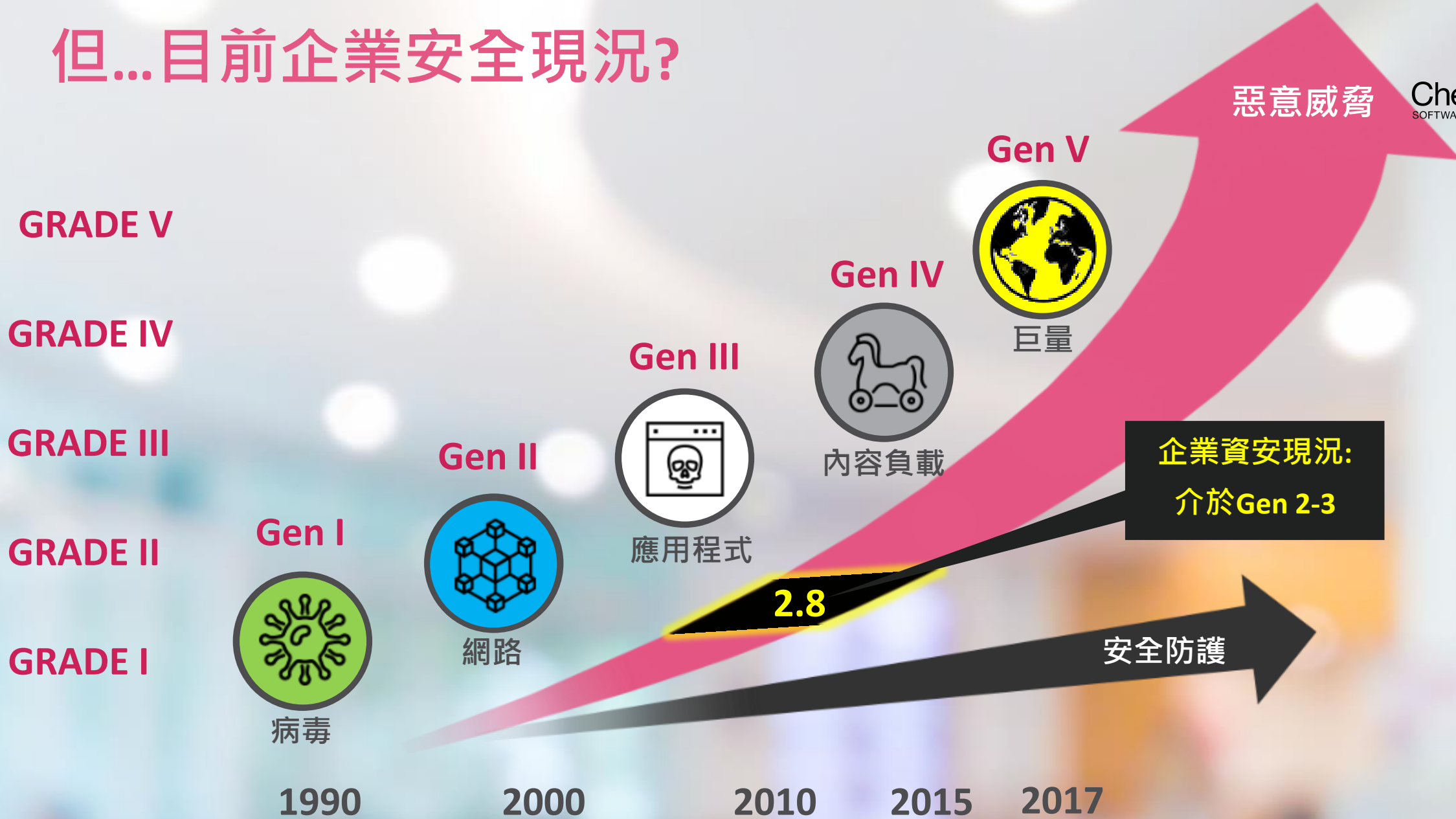


龐大損害

但...目前企業安全現況?



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企業資安現況:
介於Gen 2-3

2.8

安全防護

即使已導入GEN IV 安全保護...可能還不夠!



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Gen IV



內容負載

2010 -
多元型態惡意內容

與殭屍防護

立即防禦威脅

GEN IV

全面防堵所有安全突破口:

雲、端點、網路、行動裝置

如何有效導入第五代安全架構?



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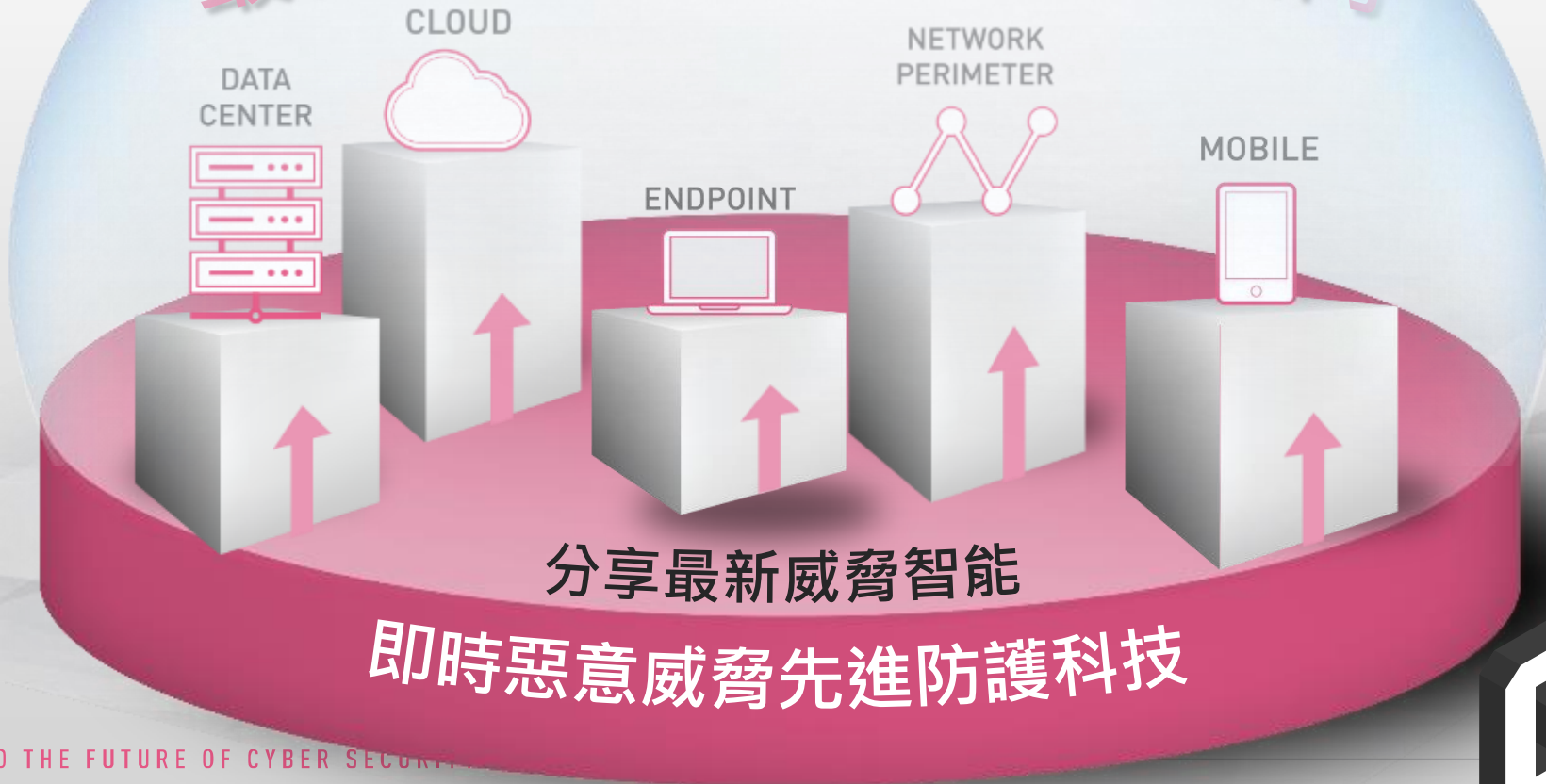


快速建構第五代安全模型



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智能統合管理介面
最佳安全方案防護所有面向



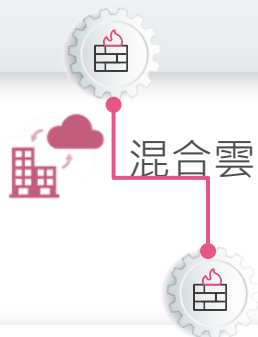
GEN5

Infinity Total Protection 第五代安全架構



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雲端服務



邊際網路與資料中心



行動裝置



端點設備



分享即時威脅情資與智能

THREATCLOUD

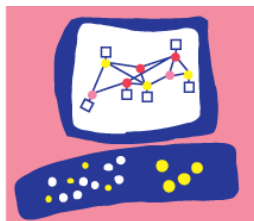
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整合安全管理



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- 多面向實踐先進威脅防護

專為第五代安全打造的安全閘道防護架構

新世代威脅防護科技(NGTP/NGTX)



威脅模擬
(沙箱檢測)



威脅萃取
(無害化)



IPS



防毒牆



殭屍病毒防護



電子郵件安全

新世代防火牆與進階安全技術



防火牆



應用層控制



網頁過濾



DLP



VPN



使用者識別

安全與威脅事件管理



智能控管



鑑識分析



威脅可視性



報表



合規檢查





Check Point

SandBlast[™]

**ZERO-DAY
PROTECTION**

**整合全球最先進防護技術
阻擋所有來自不同突破口的進階威脅**



產品家族

NETWORK

邊界網路安全
與資料中心

GATEWAYS, CLOUD

AGENT

端點與瀏覽器
安全防護

SANDBLAST AGENT

MOBILE

行動裝置
進階威脅保護

SANDBLAST MOBILE

<API>

客製化
應用程式介接

SANDBLAST API

SANDBLAST

威脅模擬



28種綜合檢測引擎

檢測並阻擋未知惡意軟體
和零時差攻擊

SANDBLAST

威脅萃取



主動提供安全重組文件
避免檔案傳遞延遲

SandBlast 威脅模擬 業界唯一反規避沙箱技術



與數十種先進科技與機器學習

CPU-LEVEL

PUSH-FORWARD

- Human Interaction Simulator
- UAC Monitor
- Network Activity Monitor
- SMEP Detector
- FP Guard
- DeepScan
- Virtual Network Service
- Icon Similarity
- Decoys
- Image Sanitation
- DGA Generator
- Dropped File Emulation

讓惡意程式無所遁形
平均兩分鐘內完成模擬

Static Analyzer

Evasion Detection

Macro Analysis

Link Scanner

Shellcode Detector

SandBlast 威脅萃取

主動消除潛在威脅



CLEAN MODE

維持原檔案格式
移除可疑有害內容

Macros, script, embedded
objects, meta data, ...



CONVERT MODE

轉為純文字檔案
避免惡意內容
防止漏洞



檔案無害處理

最高安全信心等級

●
快速交付

支援文件檔案與圖片格式

確保所有文件檔案安全與可視性

威脅模擬 + 威脅萃取 =

Real-Time
Prevention

最高等級安全檢查 APT防護無痛導入流程

- 檔案無延遲且安全無虞
- 確保生產力兼具安全性
- 主動防護阻絕惡意威脅
- 自助式IT取回正常檔案 (檢測良性)

Check Point
SandBlast[™]
ZERO-DAY
PROTECTION



即時保護不受郵件惡意附件感染

快速提供安全無害檔案

威脅萃取 DEMO

From: Julia Reyes
To: Boaz Barzel
Cc:
Subject: ALERT!!! Skipped invoice

Message Invoice.cleaned.doc.pdf (199 KB)

This email's attachments were cleaned of potential threats by Check Point Gateway.
Invoice.cleaned.doc.pdf : files(s) were successfully converted
Click [here](#) if the original attachments are required (justification)

Hi Boaz
Attached is invoice #4409 881.69 from May which was missing
I am out of office till next week, so I'm emailing you now to re
[\[Blocked Malicious URL\]](#) and complete the payment as soon as

Julia Reyes / Credit Manager
Pacemaker Steel and Piping Co. Inc.
Tele: 740 247-2569
Fax: 740 247-7691

Email Secured By Check Point.

invoice.cleaned.pdf - Adobe Acrobat Pro

File Edit View Document Comments Forms Tools Advanced Win

Create Combine Multimedia

1 / 1

Pacemaker Steel and Piping
Tele: 740 247-2569
Fax: 740 110-7691



使用者自行取回原始檔案

當威脅模擬確認檔案為良性始可放行

威脅萃取 DEMO

From: Julia Reyes
To: Boaz Barzel
Cc:
Subject: ALERT!!! Skipped invoice

Message Invoice.cleaned.doc.pdf (199 KB)

This email's attachments were cleaned of potential threats by Check Point Mail Gateway.
Invoice.cleaned.doc.pdf : files(s) were successfully converted to PDF.
Click [here](#) if the original attachments are required (justification needed)

Hi Boaz
Attached is invoice #4409 881.69 from May which was missing from your mailbox.
I am out of office till next week, so I'm emailing you now to request you to click on the [\[Blocked Malicious URL\]](#) and complete the payment as soon as possible.

Julia Reyes / Credit Manager
Pacemaker Steel and Piping Co. Inc.
Tele: 740 247-2569
Fax: 740 247-7691

Email Secured By Check Point.

Pacemaker Steel and
Tele: 740 247-2569
Fax: 740 110-7691

INVOICE

Invoice Number: 4409 881.69

自助式IT服務
不須資訊管理人員介入

成功防護惡意攻擊三大要素

1

立即阻擋防護

最佳檢測引擎
即時防護措施

2

隔離有害內容

強化內容隔離
降低感染風險

3

端點鑑識分析

事件快速反應
確保政策有效



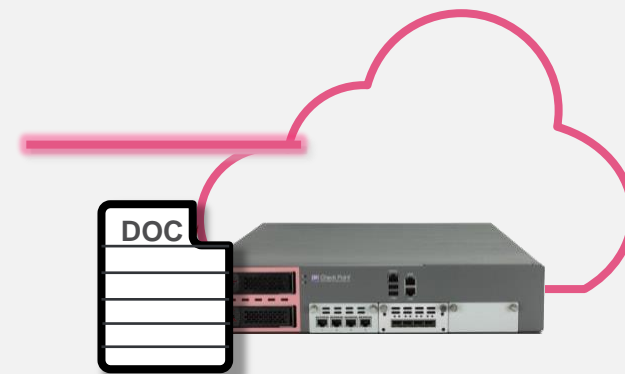
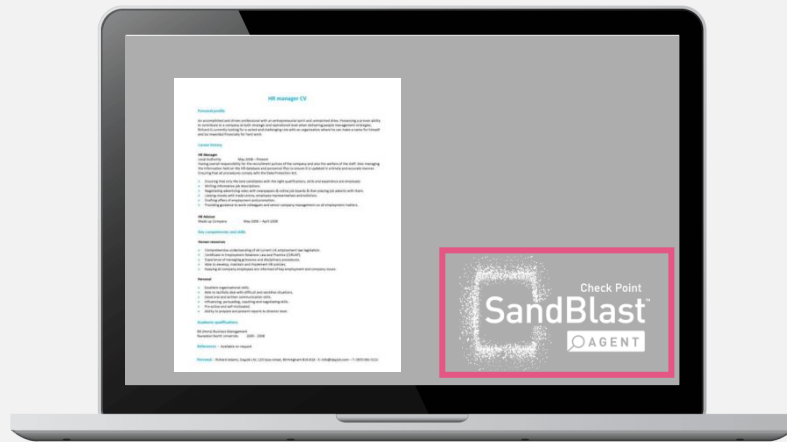
全面防堵所有突破口

保護端點與行動使用者

- 零時差防護
- 防釣魚攻擊
- 隔離可疑內容
- 自動鑑識分析
- 勒索軟體防護



在端點裝置消除零時差惡意威脅



SANDBLAST SERVICE
雲端沙箱或自建沙箱

1

網路下載未知檔案
送至沙箱分析

2

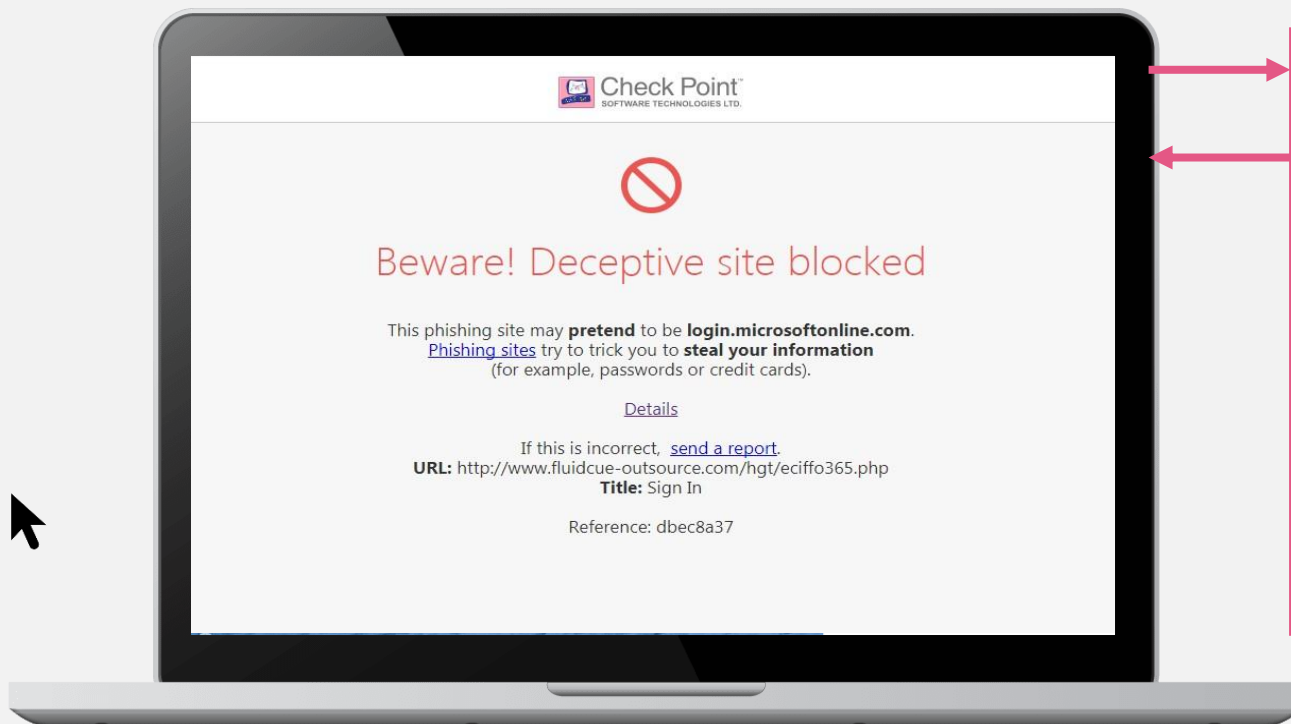
即時交付安全
轉檔版本(無害化)

3

原始檔案於背景
持續模擬檢測

阻止使用者存取惡意釣魚站台

即便此網頁未曾出現過!



THREATCLOUD

- ✓ IP Reputation
- ✗ Domain Reputation
- ✗ URL Similarity
- ✓ Lookalike Characters
- ✗ Title Similarity
- ✗ Image Only Site
- ✗ Visual Similarity
- ✗ Multiple Top-Level Domain
- ✗ Text Similarity
- ✗ Lookalike Favicon

1

檢視使用者
存取未知網頁

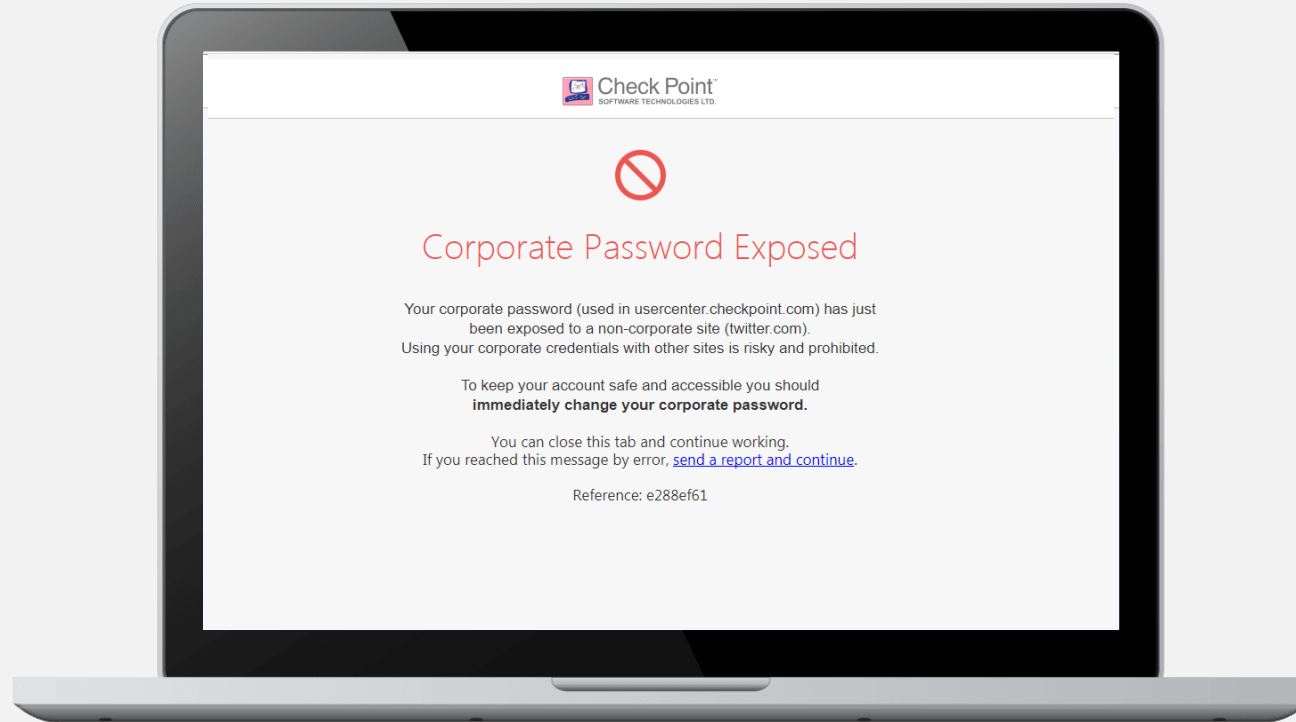
2

先進演算法
評估風險指標

3

數秒內判定
檢測結果

防止公司內部帳號密碼重複使用



透過防止於外部網站使用企業內部密碼來保障安全性

於端點不間斷監控對外可疑流量(與C&C連線)



2 ANTI-BOT功能
自動監控端點流量



1 透由THREATINTELLIGENCE
更新最新威脅情資

THREATCLOUD

- 惡意 URLs
- 惡意 IP位址
- 惡意網路模版(Patterns)

3 阻斷惡意中繼站
流量與資料洩漏

4 隔離惡意執行程序
或鎖定系統

蒐集端點鑑識資訊於事件觸發後自動產出報表

端點鑑識分析

2 事件監測後自動觸發報表
或整合第三方防毒軟體



1 自作業系統與端點感知器
蒐集端點鑑識資訊



4 將事件整合回報予
SmartEvent主機



3 進階演算法分析鑑識
資訊評估安全風險

CLEANED

User Name: xxxxxx
Computer: xxxxxx
Incident ID: wcry_full_attack_analysis1494...
Trigger: c:\users\xxxxxx\downloads\wcry.exe
Triggered By: SandBlast Agent Anti-Ransomware Blade E80.65
Trigger Time: 5/15/2017, 3:52:53 PM

Need insight? [Email us.](#)
INCIDENT RESPONSE TEAM
CHECK POINT

Entry Point How did it enter the system?
Accessed [172.217.16.163] in chrome.exe

須採取何種行動
進行補救?

Remediation (32 files) Was an infection present and removed?

REPUTATION	FILE NAME	FULL PATH	STATUS
★	@wanadecryptor@.exe	c:\users\xxxxxx\downloads\@wanadecryptor@.exe	🗑️
★	@wanadecryptor@.exe	c:\users\xxxxxx\downloads\@wanadecryptor@.exe	🔧
★	@wanadecryptor@.exe	c:\users\xxxxxx\downloads\@wanadecryptor@.exe	🔧
★	@wanadecryptor@.exe	c:\users\xxxxxx\downloads\@wanadecryptor@.exe	🔧
★	@wanadecryptor@.exe	c:\users\xxxxxx\downloads\@wanadecryptor@.exe	🔧
★	@wanadecryptor@.exe	c:\users\xxxxxx\downloads\@wanadecryptor@.exe	🔧
★	@wanadecryptor@.exe	c:\users\xxxxxx\downloads\@wanadecryptor@.exe	🔧

25 more...

Business Impact (242 events) What was the damage?

DAMAGE	FILE NAME	FULL PATH
📄	2014-financial-statements-en.pdf	c:\users\xxxxxx\desktop\2014-financial-statements-en.pdf
📄	g-example-donor-report.doc	c:\users\xxxxxx\documents\g-example-donor-report.doc
📄	g-finance-manual-maf.pdf	c:\users\xxxxxx\documents\g-finance-manual-maf.pdf
📄	g-finance-staff-jd.doc	c:\users\xxxxxx\documents\g-finance-staff-jd.doc
📄	g-procurement-manual.doc	c:\users\xxxxxx\documents\g-procurement-manual.doc
📄	g-sample-jds.rtf	c:\users\xxxxxx\documents\g-sample-jds.rtf
📄	g_budget-worksheet-example.xls	c:\users\xxxxxx\documents\g_budget-worksheet-example.xls

235 more...

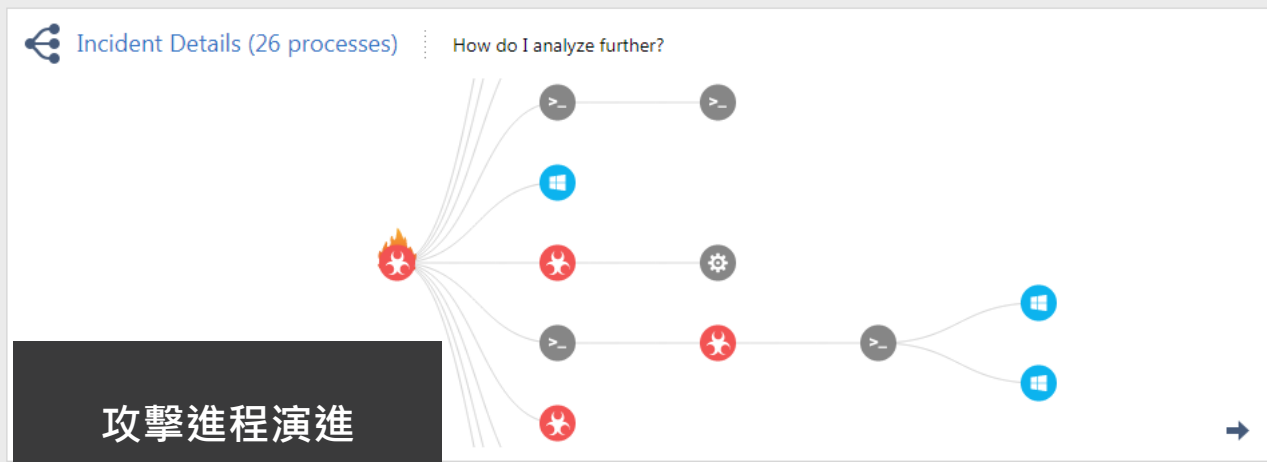
對組織業務與
安全影響性?

Suspicious Activity (15 categories) What happened in the system?

SEVERITY	EVENT CATEGORY
●●●●●	Shadow Copy Deletion (2 events)
●●●●●	Tor Communication (5 events)
●●●●●	Tor Application Download (1 event)
●●●●●	File Access Control List Modification (1 event)
●●●●●	Privilege Change (3 events)
●●●●●	Script Execution (1 event)
●●●●●	Dropped File Deletion (2 events)

8 more...

確認是否為真實攻擊
事件發生過程細節



AGENT

勒索軟體 防護



啟發式行為監測引擎
偵測勒索軟體與加密攻擊



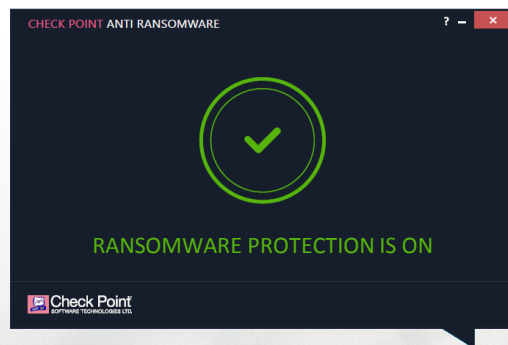
防堵惡意勒索加密軟體及隔離
自動化快照與還原檔案

ANTI-RANSOMWARE

勒索軟體防護(ANTI-RANSOMWARE)運作原理



進行中



行為檢測

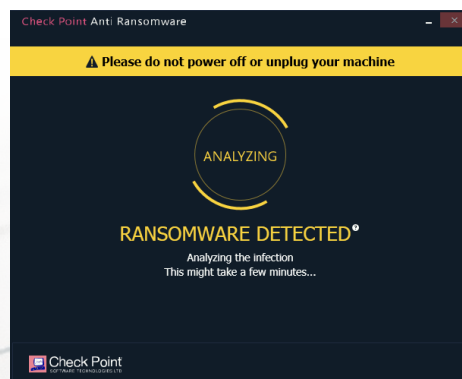
背景持續監控可疑勒索軟體行為與加密程序

資料快照

立即產生檔案備份
(被影響的資料)

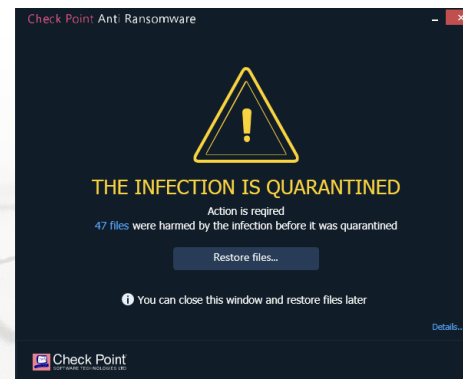


感染後與反應



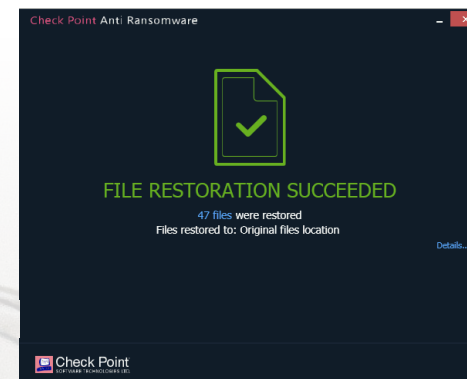
分析

啟動鑑識分析
確認攻擊細節



隔離

阻止加密軟體程序
並隔離



還原

自動於快照檔案中
還原原始檔

雲與行動裝置安全

CHECK POINT CLOUDGUARD

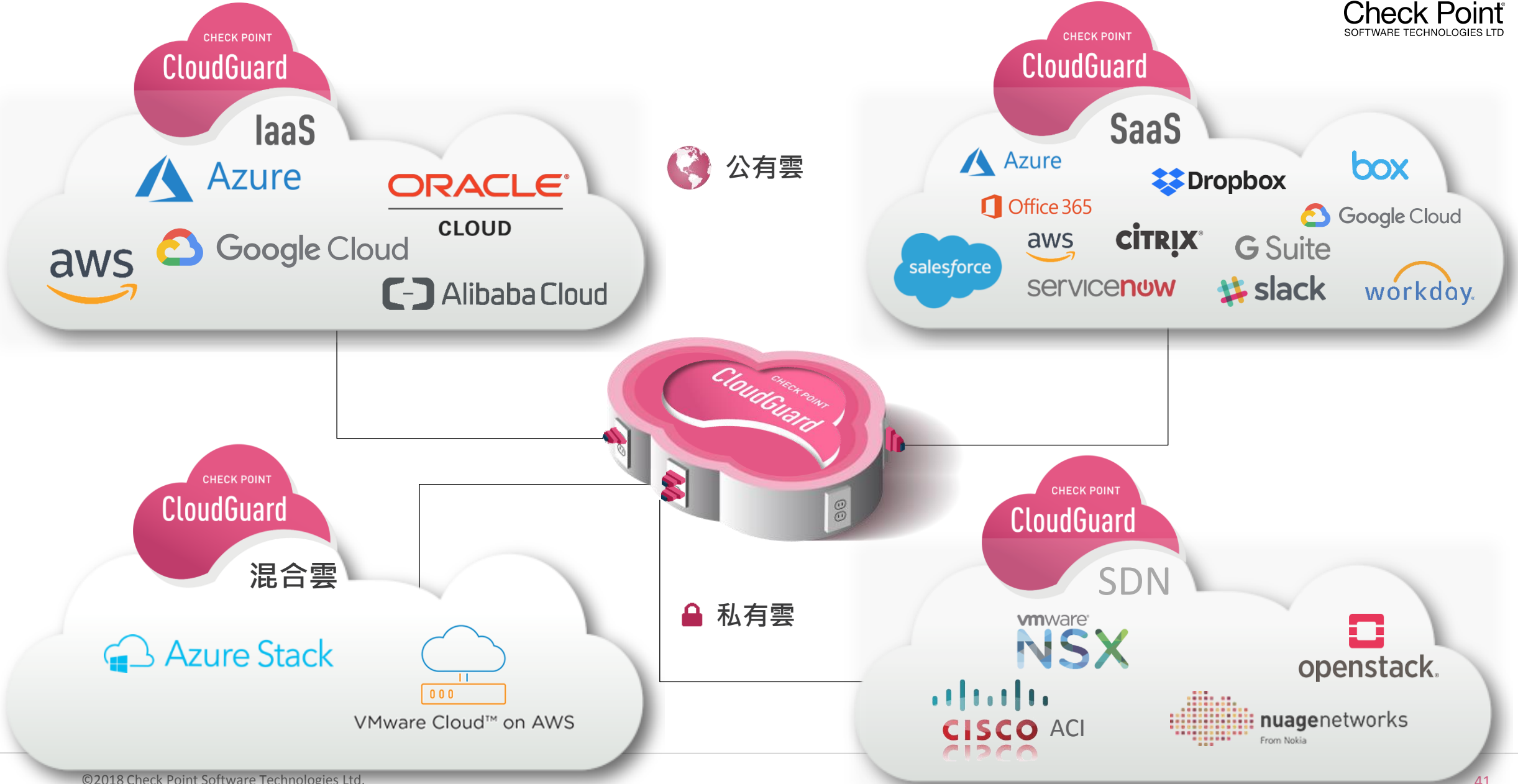
防護所有混合雲平台，部署與地端一致性安全標準



CloudGuard 產品家族

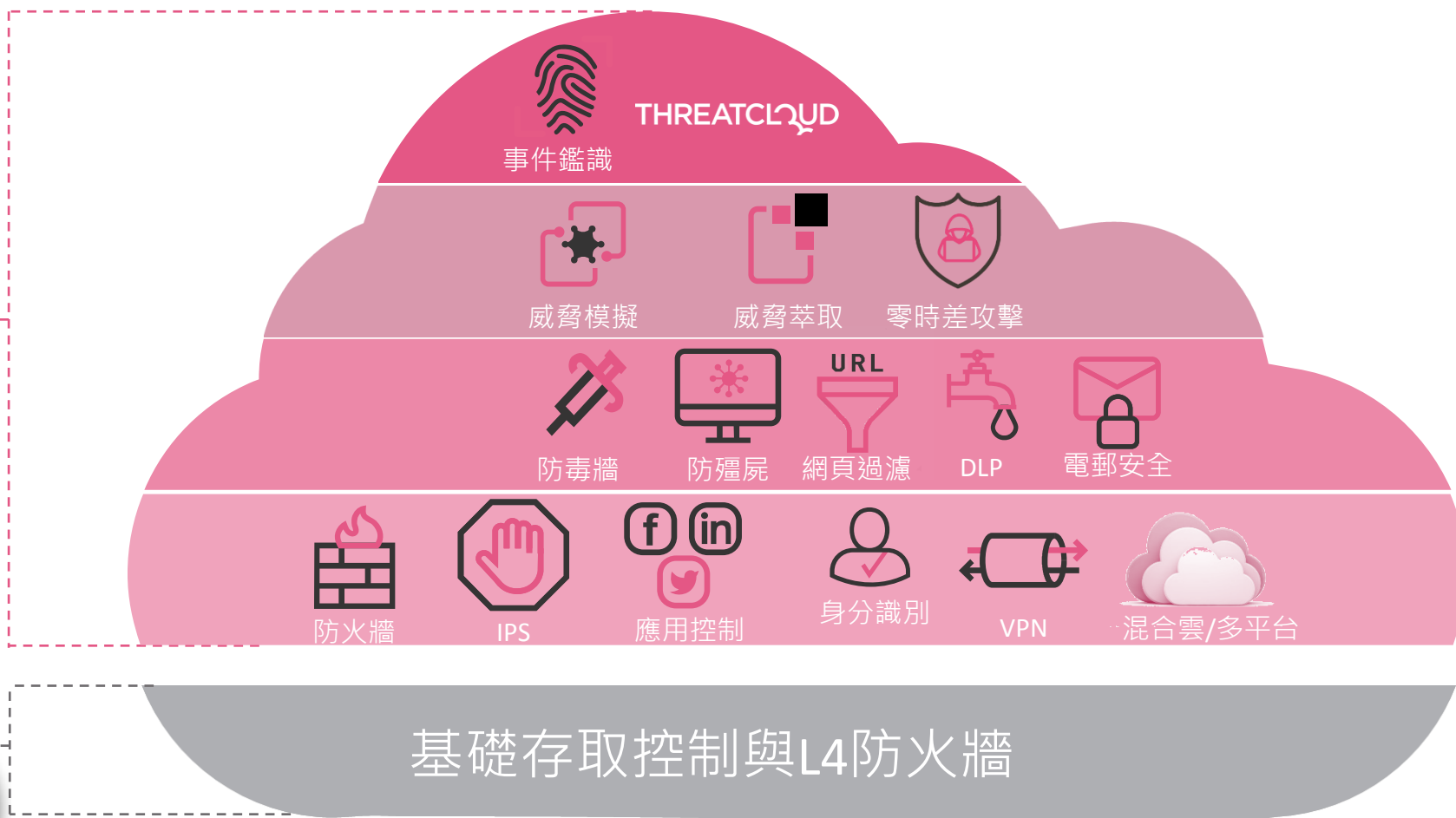


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CloudGuard IaaS 雲平台進階防護方案

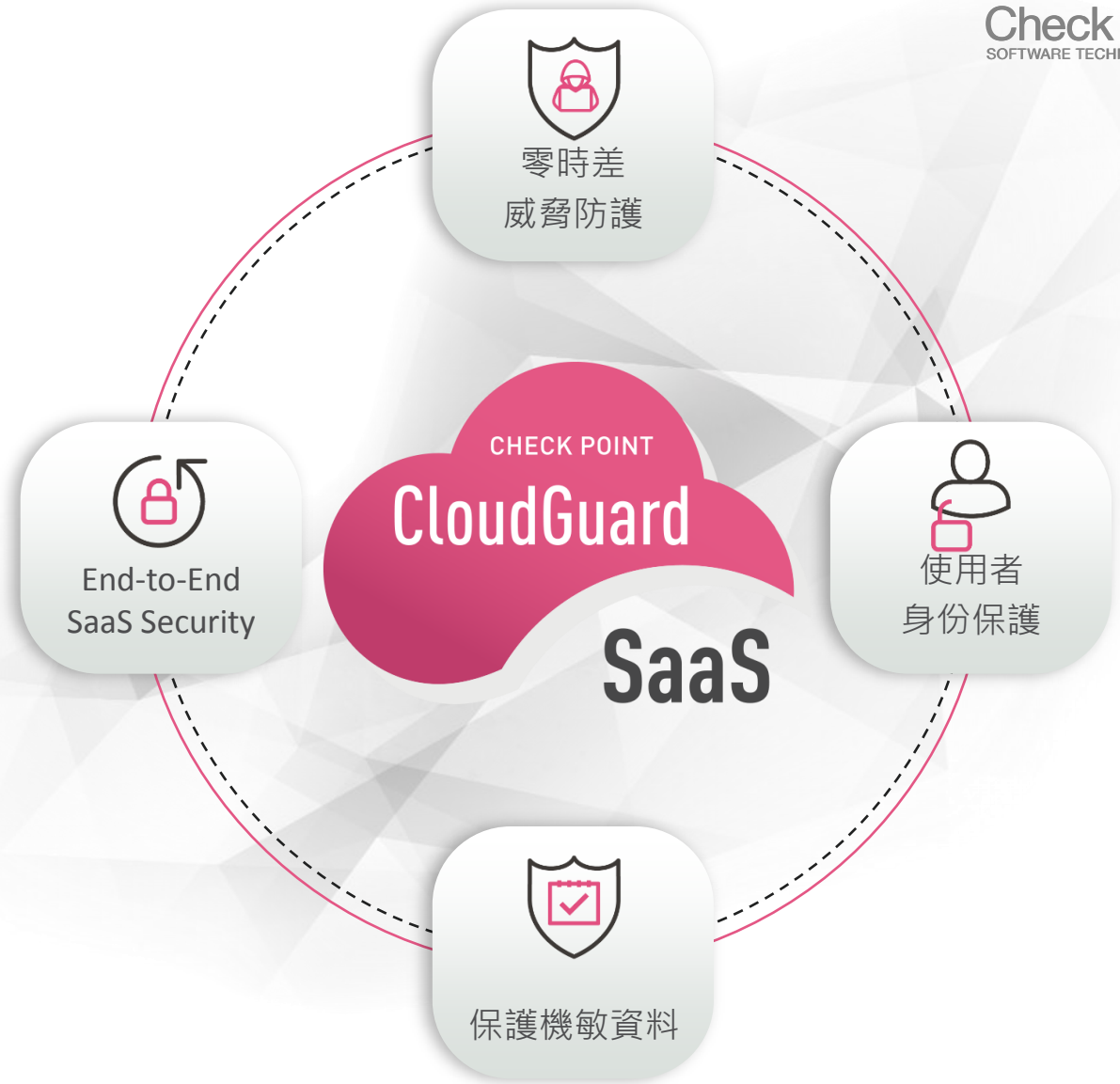


CLLOUDGUARD SAAS

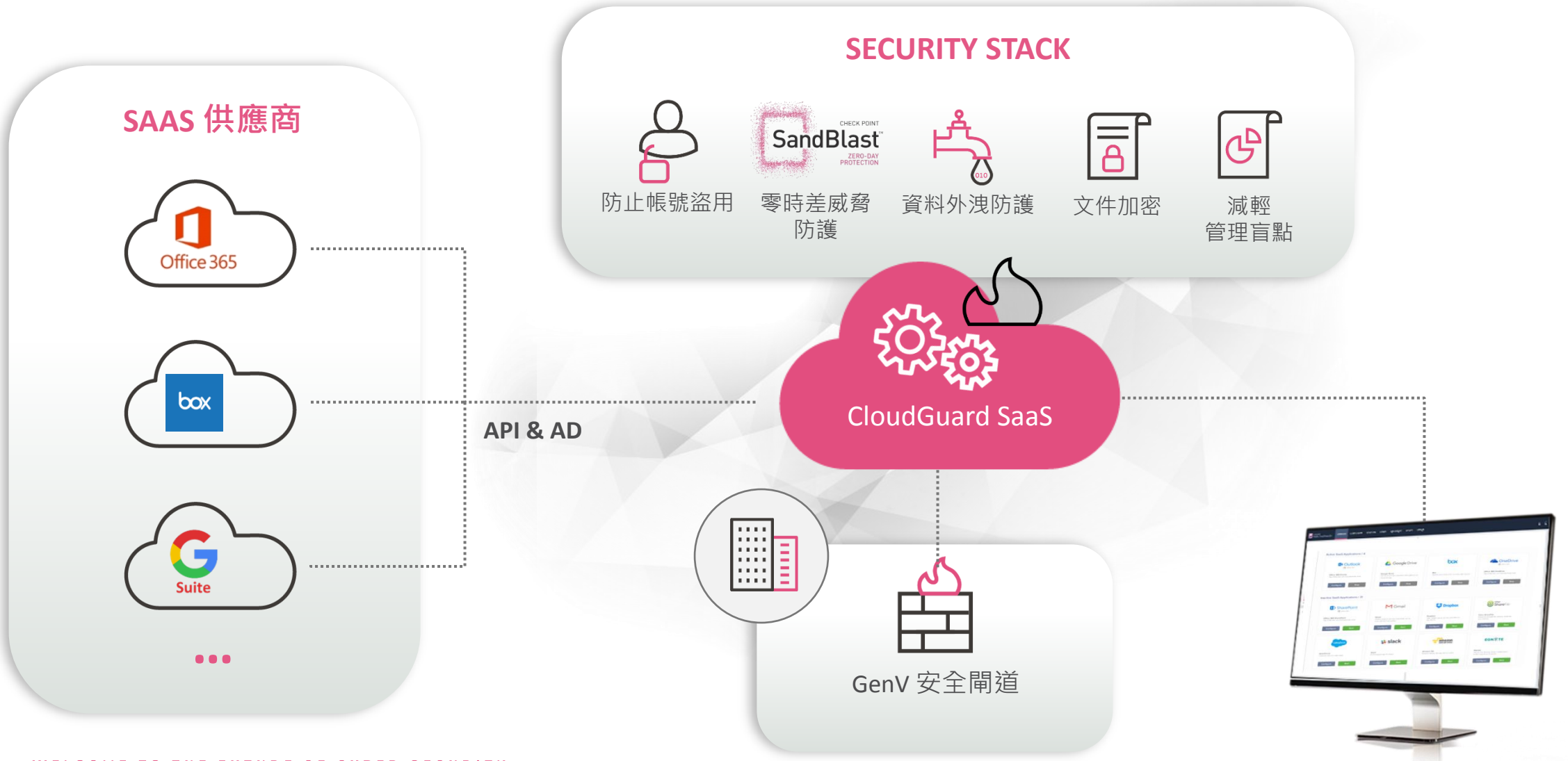
雲端服務安全方案



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CloudGuard SAAS





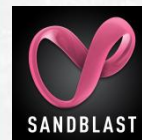
行動威脅防護(MTD)

Android 防毒

網路中間人攻擊(MiTM,...)

作業系統漏洞

應用程式風險分析模擬



SANDBLAST MOBILE



行動資料保護

Secure Container

SSL VPN

雙重身分

內部資源整合



CAPSULE WORKSPACE



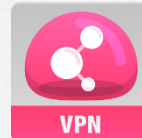
遠端存取

單一應用程式VPN存取

VDI / VMI

全機VPN存取

(安全存取郵件)



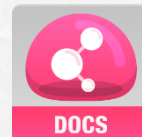
CAPSULE VPN



內容管理(MCM)

檔案權限管控

檔案生命週期



CAPSULE DOCS



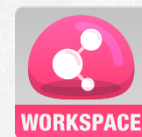
應用管理(MAM)

企業應用程式/商店

應用程式黑名單

應用程式白名單

應用程式管理



CAPSULE WORKSPACE



裝置管理(MDM)

設備整合管控

地理區域追蹤

裝置管理(設定檔)

應用程式派送



MobileIron



MaaS360



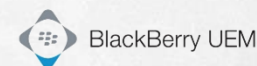
airwatch



CITRIX XenMobile



Microsoft Intune



BlackBerry UEM

已知與零時差威脅

WIFI網路安全性

藍芽攻擊

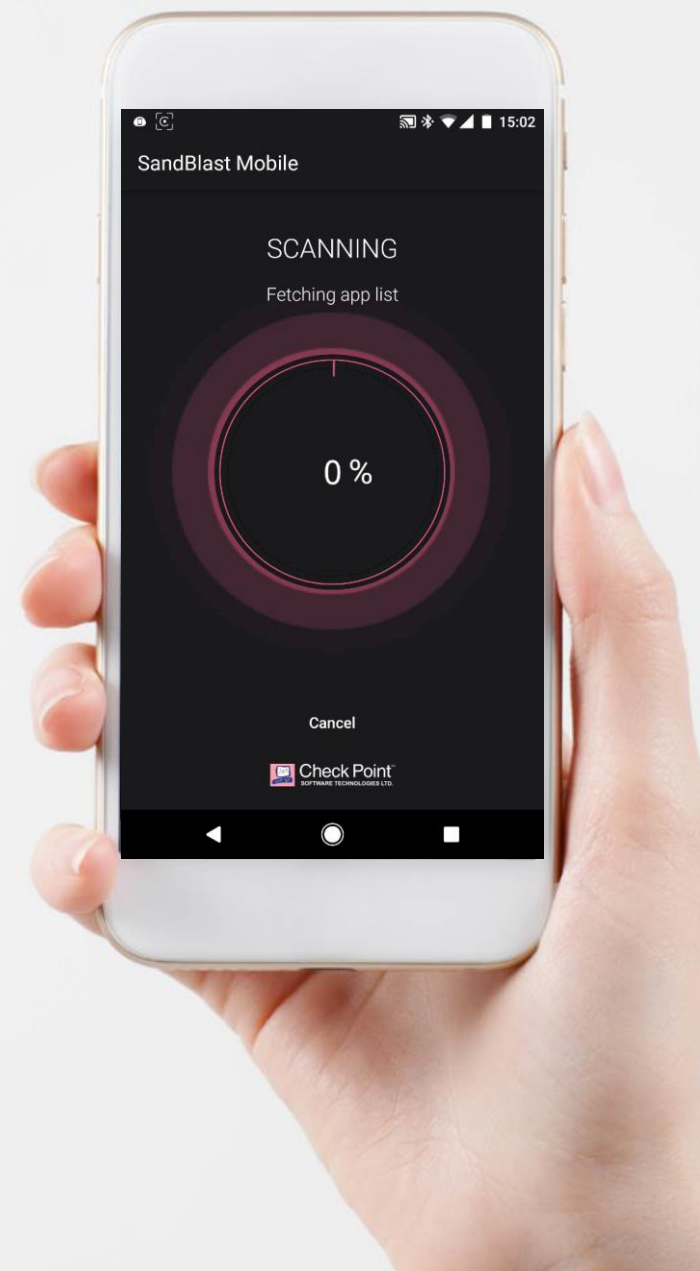
作業系統漏洞

簡訊釣魚

改機越獄



SANDBLAST



SBM運作原理

裝置風險分析
BRE

雲端行為風險分析引擎

裝置偵測



即時威脅情資監控



最簡易的部署管理

雲端式 SaaS 解決方案



能夠整合到主流的
EMM 平台和Container



全新版本與產品線

New!

未來的安全平台

統合網路、雲端
和行動裝置

R30.10

次世代安全管理原則

有效率、自動化作業

整合式威脅管理

智能統合管控

一鍵部署 所有安全措施

R30.10

Name	Source	Destination	Services & Applications	Data	Action	Install On
Outbound access	production_net	Internet	* Any	* Any	AccessSubLayer	* Policy Targets
Social media for marketing	marketing_role John	Internet	Twitter LinkedIn Instagram	* Any	Accept	SG13800
Developers upload	developer_role	Internet	Dropbox Box	Any Direction Source Code - JAVA	Accept	SG13800 CapsuleCloud
Access Sensitive Servers	* Any	* Any	* Any	* Any	SensitiveServers	* Policy Targets
Mobile Access	Mobile Devices	MailUS	MailServer	* Any	Accept	Mobile
Access to Web Server	* Any	WebServer	https	* Any	Accept	AWS VMWare

使用者

裝置

應用程式

資料

安全閘道

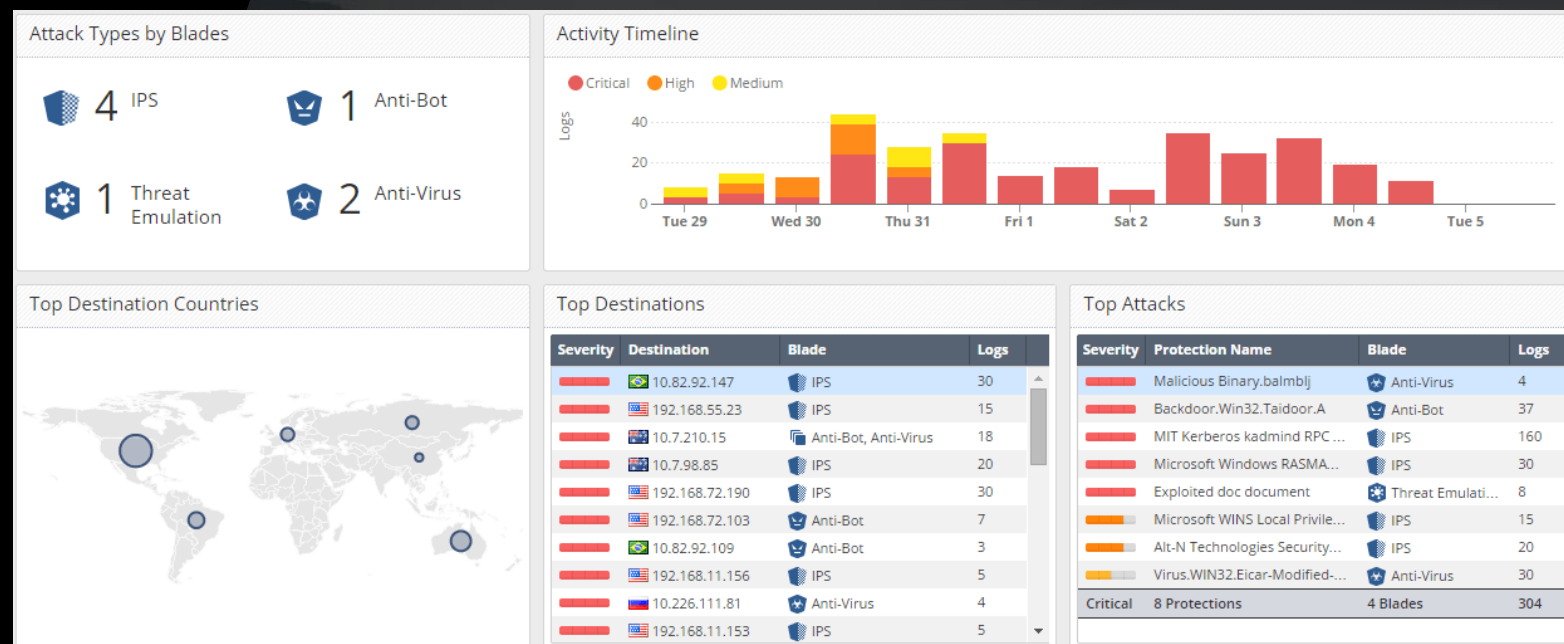
私有雲

公有雲

虛擬閘道

高度威脅分析可視性

R30.10

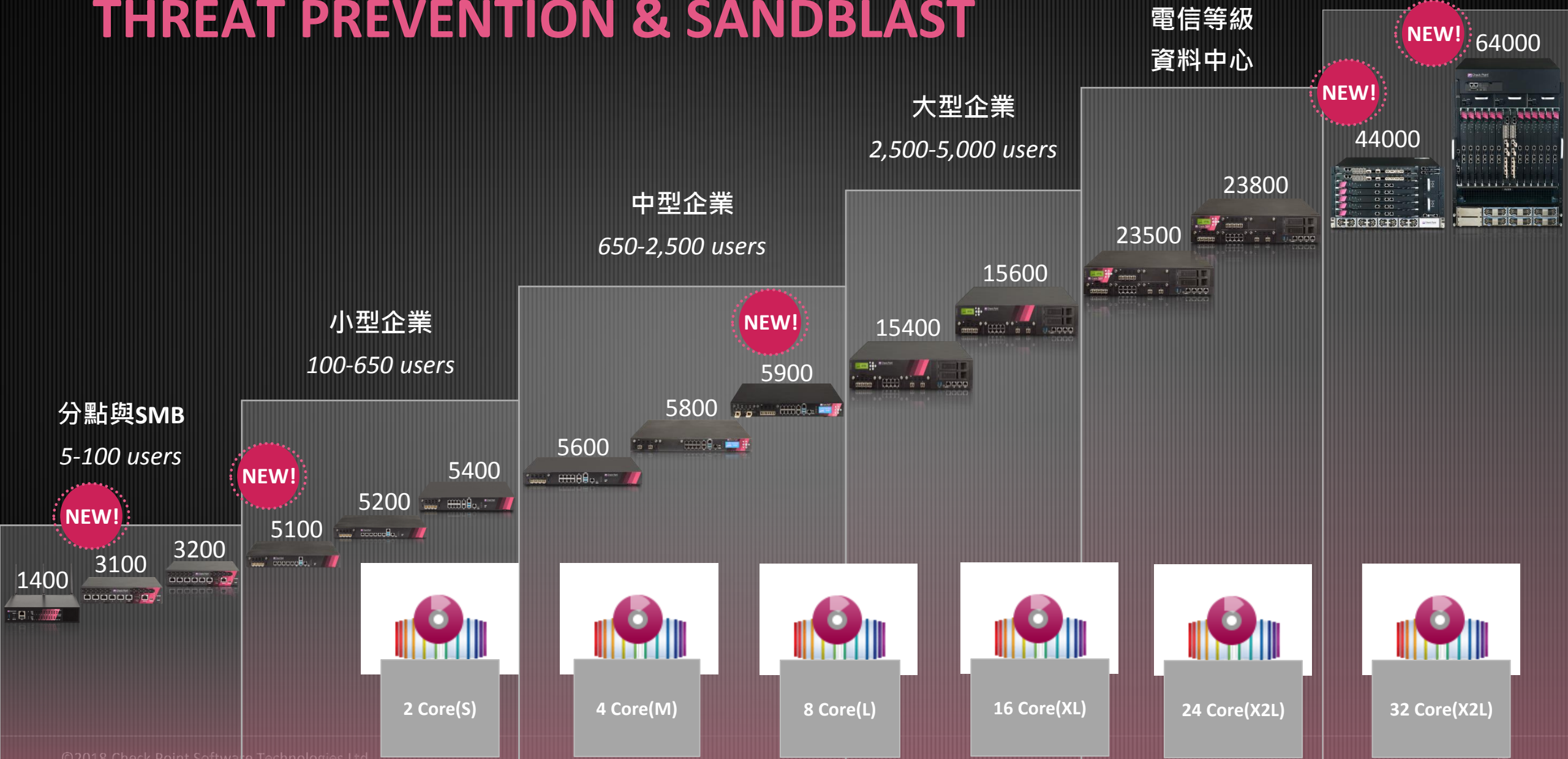


完整產品級距與全方位安全

THREAT PREVENTION & SANDBLAST

超高效能
可擴充安全平台

電信等級
資料中心



2018全新管理主機系列



Check Point
SOFTWARE TECHNOLOGIES LTD

ALL NEW SMART-1



中央控管，日誌儲存，事件管理

專為第五代安全設計的管理主機!

Check Point SMART-1

新世代管理硬體主機

優化第五代安全防護

UP TO 5 GATEWAYS

405



Up to 40,000 Logs/sec
2 cores, 16GB RAM, 1TB

UP TO 10 GATEWAYS

410



Up to 45,000 Logs/sec
2 cores, 32GB RAM, 2TB

NEW!

UP TO 25 GATEWAYS

525



Up to 60,000 Logs/sec
4 cores, 64GB RAM, 8TB

NEW!

UP TO 50 GATEWAYS

5050



Up to 80,000 Logs/sec
12 cores
128GB RAM
16TB
50 Domains

NEW!

OVER 50 GATEWAYS

5150



Up to 100,000 Logs/sec
24 cores
up to 256GB RAM
up to 48TB
200 Domains

SMB與SCADA(ICS)安全

最全面高效的威脅防護功能 2017 UTM MQ Leader

最彈性的部署與擴充能力



Check Point
SOFTWARE TECHNOLOGIES LTD

防火牆
身分識別
VPN

防毒
防殭屍
電子郵件安全

應用程式控制
網頁過濾

IPS
雲端沙箱
(Optional)



C/P值最高的SMB網路安全閘道



中央管理
智能介面

彈性大量部署

自動化監控
與日誌儲存

客製化報表

中央管理與日誌收容



CHECK POINT'S

關鍵基礎設施安全方案 Industrial Control Systems

CYBER DEFENSE

SCADA流量安全可視性

SCADA流量安全防護機制

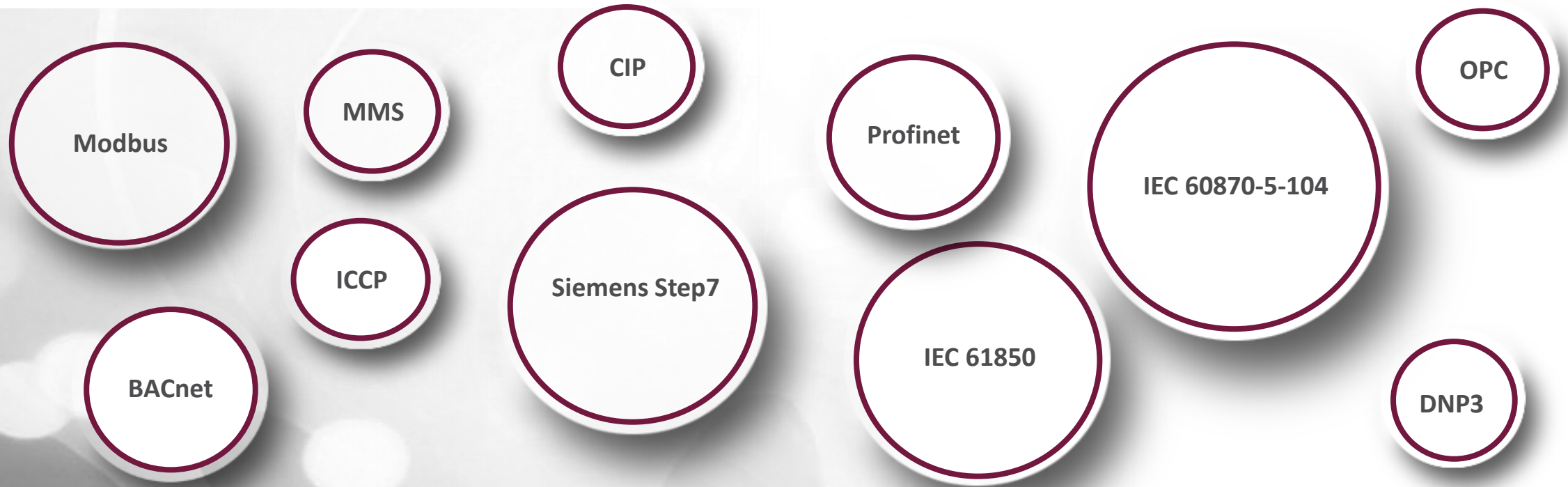
可耐高溫嚴苛環境的設備

SCADA

SCADA/ICS 特定通訊協定支援



Check Point
SOFTWARE TECHNOLOGIES LTD



超過 **650 SCADA** 指令
於 Check Point Application Control

Check Point 1200R

專為SCADA環境設計的強固型安全閘道硬體

- 全方位安全功能(NGTP/NGTX)
- **6x1GbE ports** 與高達2Gbps效能
- 符合相關法令規範
IEC 61850-3 & IEEE 1613
- 無風扇/硬碟設計
- 工作溫度-40°C to 75°C
- 支援 **In-line** 或 **Tap (Mirror) modes**
- 支援多種網路路由(e.g: BGP, OSPF, IPsec, etc.)



Check Point
SOFTWARE TECHNOLOGIES LTD

OT安全藍圖



Check Point
SOFTWARE TECHNOLOGIES LTD

Management Facility

Main Control Center



SCADA Historian

SmartEvent



SCADA VPN

Control & monitor



Control
Monitor



PLC1

PLC2

PLC3

Shop Floor



PLC4

Shop Floor



Management Facility

Main Control Center



SCADA Historian

SmartEvent



SCADA VPN

Control & monitor



Control
Monitor



PLC1

PLC2

PLC3

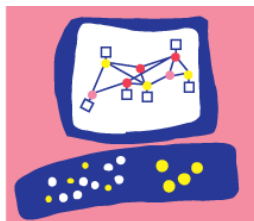
PLC4

Shop Floor

Shop Floor



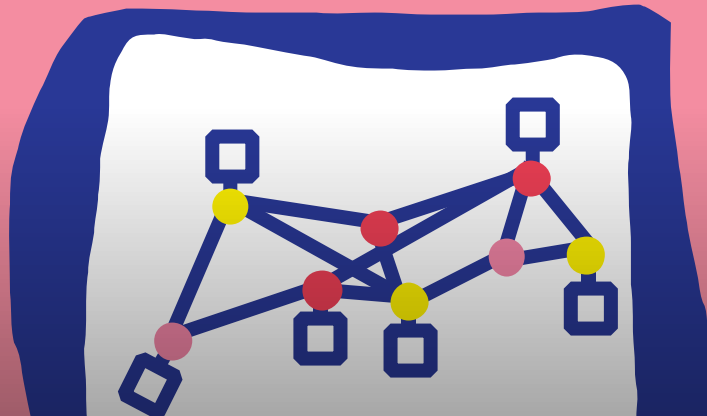
Check Point[®]
SOFTWARE TECHNOLOGIES LTD



Check Point[®]
SOFTWARE TECHNOLOGIES LTD.

- 產品優勢分析及公司簡介

Nasdaq科技百強，以色列安全傳奇:Check Point Software



\$1.85B

2017全球營業額

1,402

研發人員
(網通安全業界最高比例)

December 2017

100,000

全球客戶群
(60+國家在地服務)

Gartner魔術象限: 企業級網路防火牆



無人能比的傳奇
連續20年領導者



持續於
Vision完整性
領先群倫

全球最大人工智能威脅引擎

THREATCLOUD

全球高達15萬台設備事件反饋

快速編譯威脅情資分析

即時安全特徵更新



500,000,000+
惡意檔案與站台資料

最先進惡意威脅
數據資料庫

700,000 +
每日惡意程式偵測量

250,000,000
駭客中繼站

17,000,000
每週惡意攻擊
事件偵測量

11,000,000
惡意程式行為分析與
威脅特徵碼

CLOUD & INFRASTRUCTURE



THREAT INTELLIGENCE



MOBILE



APPLIANCES



CASB



ICS



COMMUNICATIONS



MANAGEMENT



ENFORCEMENT



全球最大IT資安生態圈 橫跨多種產業

160+

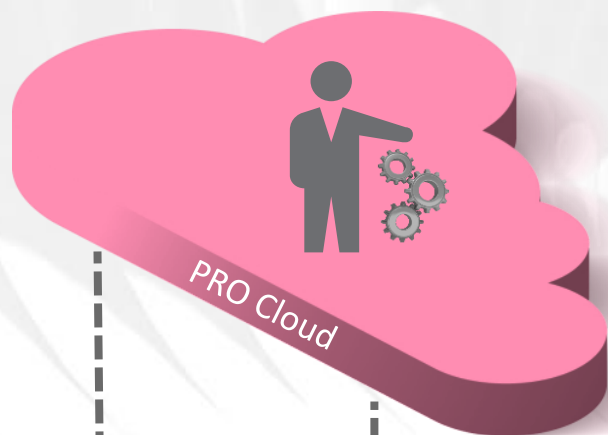
安全科技戰略夥伴



Check Point
SOFTWARE TECHNOLOGIES LTD

主動監控與通報服務(PRO Support)

蒐集閘道/管理機資訊
至Check Point Cloud



識別高重要等級的
事件與系統資訊

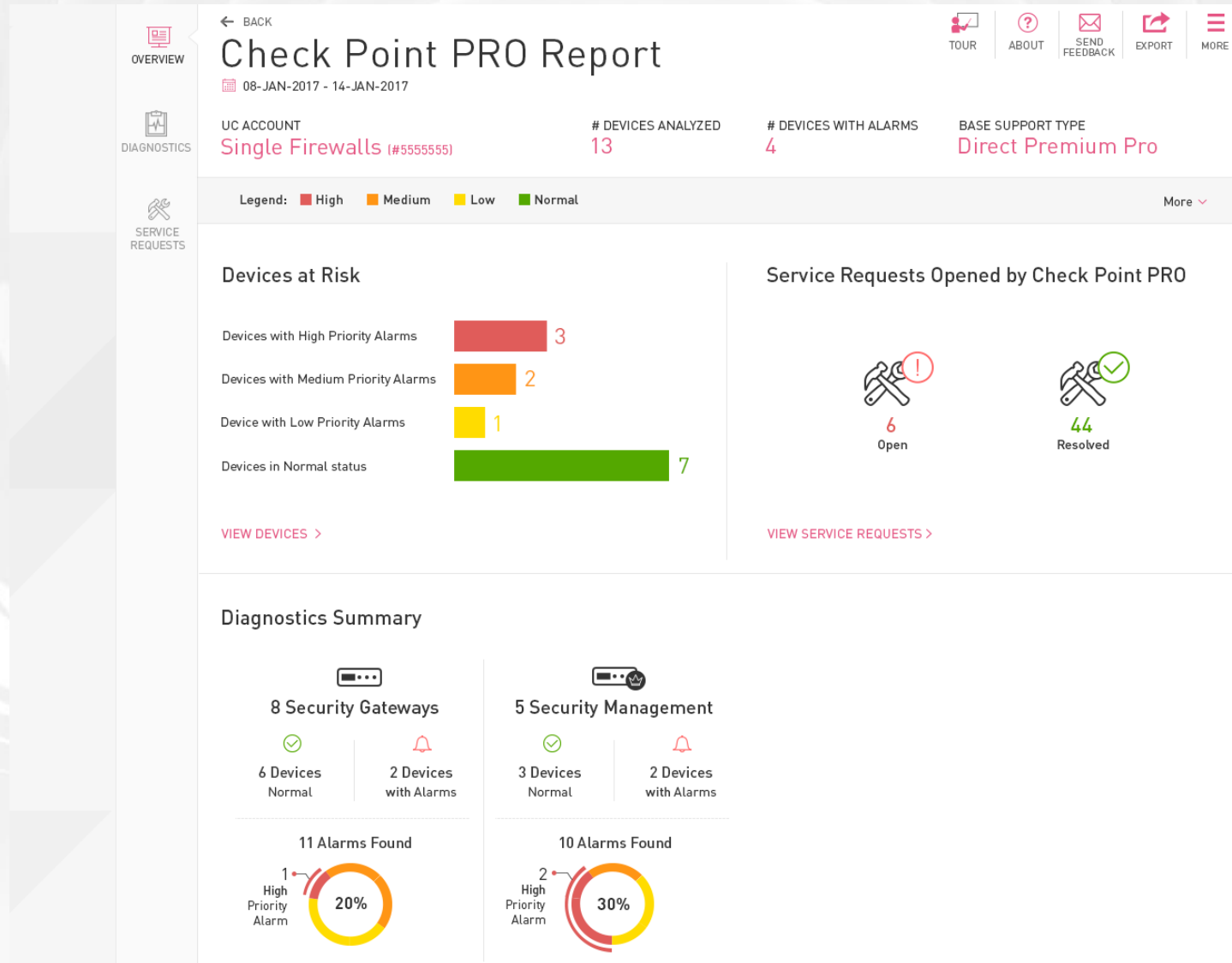
Check Point PRO專員
主動回報並修復狀況










在帳號內可看到完整的
歷程紀錄與可視性報表

**CHECK POINT
PRO**

日常維運報表管理



狀態診斷分析資訊

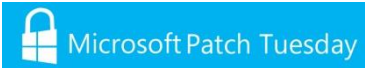
	4607 - Security Gateway Appliance SKU: CPAP-SG4607 CK:	CONFIGURATION: Cluster Security Gateway FW VERSION: R77.30	6 Alarms 
Alarm Type	Alarm Description	Remediation	Priority Level
System	Logging problem detected. Gateway is writing logs locally due to high log rate	See sk40090 , if the problem persists contact Check Point Support for further investigation.	
System	The following Check Point monitored processes are down: ci_cleanup	Try to start the process. If the problem persists contact Check Point support for further investigation. Additional information: 1. Check process status by running the 'cpwd_admin list' command. 2. To learn how to start various daemons, run cpwd_admin command. 3. See sk97638 to for additional information on Check Point processes and daemons	
System	RX Errors detected on machine interfaces	Presence of RX errors usually indicate a mismatch in duplex setting, mtu size, bad cabling or possibly a faulty interface card. Check the switch settings and fix the speed and duplex settings if there is a mismatch, check cabling and try a spare interface. For additional information refer to sk61922	
Patch Level	The installed Jumbo HFA version is at least two releases behind the recommended version. Installed: 198 Recommended Take: 216	Upgrade to the latest available Jumbo HFA. For more information refer to sk98028 - Jumbo Hotfix Accumulator FAQ.	
System	NTP is not configured	NTP is a vital service to synchronize the clocks on all Check Point gateways. This is very critical if you are trying to track a specific incident or troubleshoot a problem. For state synchronization between cluster members to function properly the clocks on the cluster members must be set to within 1 minute of each other. The best means of achieving this is to use NTP.	

NGFW產品安全技術比較

2017年重大安全漏洞平均回應時間(IPS更新)



Check Point
SOFTWARE TECHNOLOGIES LTD



Patch Tuesday
2017



WannaCry & NotPetya
CVE-2017-0144

Struts²
Apache Struts 2
CVE-2017-9805
CVE-2017-9791



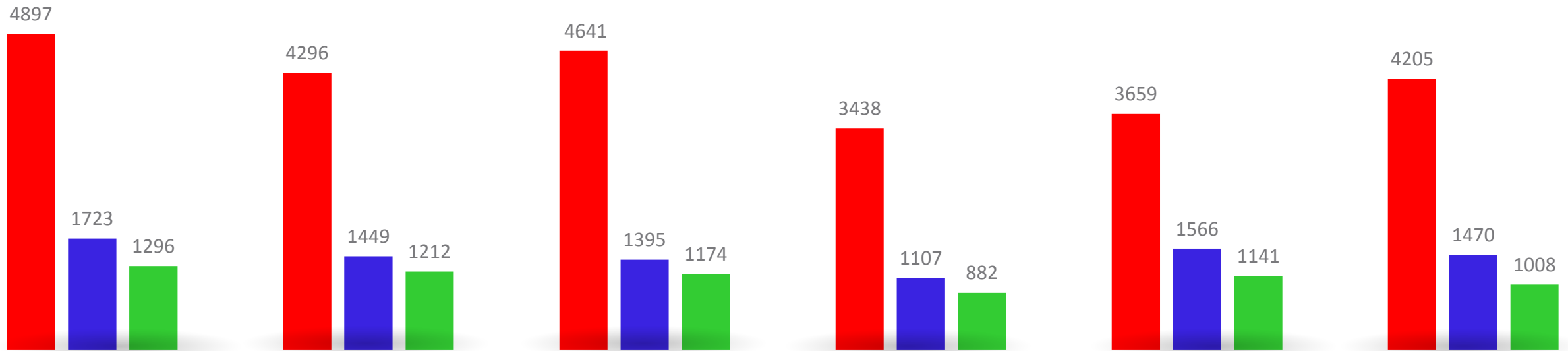
CVE-2017-5753
CVE-2017-5715
CVE-2017-5754D



IPS特徵防護內含CVE漏洞數量 (Jan 2010-Feb 2018)



- # CVE's
- Microsoft CVE's
- Adobe CVE's



Information is current as of Jan 2010 – Feb 26, 2018 | Source: [Check Point Advisories](#) | [Palo Alto ThreatVault](#) | [Fortinet FortiGuard](#) | [McAfee Threat Intelligence](#) | [Tipping Point Digital Vaccine](#) | [SourceFire Advisories](#)

WELCOME TO THE FUTURE OF CYBER SECURITY

領先業界的應用程式(L7)管理能力

潛在高風險應用程式	Check Point	Palo Alto Networks	Fortinet	Cisco
# 匿名穿牆/Tunnel應用程式(如 TOR, UltraSurf, HideMyAss...)	220	112	148	40
# P2P應用程式 (如 Bitorrent, WinMX...)	343	133	81	52
# 檔案雲端分享應用程式 (如 Dropbox, Google Drive, Mega...)	954	307	195	160
# 遠端控管應用程式 (如 TeamViewer, LogMeIn...)	147	96	85	67
整體可識別應用程式數量	7,794	2,554	3,738	3,511

Source: Check Point AppWiki, PAN Applipedia, Fortinet FortiGuard, Cisco FirePower , as of Feb 26, 2018

全球安全防護技術領導者



2017 'Recommended' vendor
Breach Prevention System



100% malware catch rate
Highest detection
Rate of malicious URLs



Security product of the year



2015, 2016 and 2017
'recommended' vendor
Breach detection systems test



Best advanced persistent
threat (APT) protection



Leader
Automated malware analysis



CHECK POINT SANDBLAST

最佳安全效益與性價比

2017 NSS Breach Prevention Systems Test

100%^c
整體威脅
防護分數

100%
嵌入下載
惡意防護

100%
社交工程
惡意防護

100%
網路下載
惡意防護

100%
電子郵件
惡意防護

100%
離線感染
測試

99.2%
惡意規避
測試

14\$
最佳TCO

0%
誤報率



是縱深防禦? 還是疊床架屋的拼裝安全?



Check Point
SOFTWARE TECHNOLOGIES LTD



聚焦安全投資，保障企業健全TCO



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CYBERscape: Q1 2018

The image displays a comprehensive grid of cybersecurity vendor logos, organized into several key categories:

- Network & Infrastructure Security:** Includes vendors like Barracuda, Cisco, Palo Alto Networks, Fortinet, and Sophos.
- Web Security:** Features Akamai, Cloudflare, and Sucuri.
- Endpoint Security:** Lists McAfee, Symantec, Trend Micro, and Avast.
- Application Security:** Shows WAF vendors such as Akamai, Imperva, and Cloudflare.
- MSSP:** Includes Managed Security Service Providers like VeriSign and Trustwave.
- Data Security:** Covers encryption and data protection vendors like Symantec and McAfee.
- Mobile Security:** Lists vendors like Symantec and McAfee for mobile device protection.
- Risk & Compliance:** Includes risk assessment and compliance tools from vendors like Delve and RiskSense.
- Security Operations & Incident Response:** Features SIEM and SOAR vendors like Splunk and LogRhythm.
- Threat Intelligence:** Lists vendors like Anomali and Blueliv for threat detection.
- IoT:** Shows vendors like Bastille and Centri for IoT security.
- Messaging Security:** Includes vendors like AGARI and Area 1 for email and messaging protection.
- Identity & Access Management:** Lists vendors like Okta and Duo for user access control.
- Security Incident Response:** Features vendors like Ayehu and Bisc for incident response automation.
- Digital Risk Management:** Includes vendors like BrandProtect and Crisp for digital reputation management.
- Security Consulting:** Lists consulting firms like Deloitte and Accenture.
- Blockchain:** Shows vendors like Chain and Edge for blockchain security.
- Fraud & Transaction Security:** Includes vendors like Authix and Biocatch for fraud prevention.
- Cloud Security:** Lists vendors like Cloudsec and Cloudsec for cloud environment protection.

從現在開始，重新省思安全定義



Check Point
SOFTWARE TECHNOLOGIES LTD



CHECK POINT INFINITY

保護企業IT投資 訂定未來安全標準

Incident Response

Threat Extraction

Human Behavioral Analytics

DGA Detector

Data Encryption



Check Point®
SOFTWARE TECHNOLOGIES LTD

THANK YOU

Check Point Infinity Total Protection

楊敦凱 Danny Yang | 技術顧問

WELCOME TO THE FUTURE OF
CYBER SECURITY

POWERED BY  CHECK POINT
INFINITY

CLOUD • MOBILE • THREAT PREVENTION