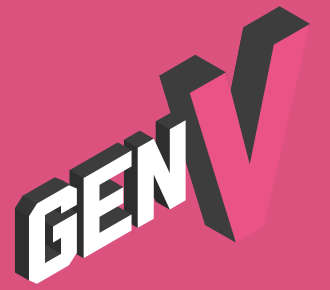




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雲霧縹緲, 安全無界

Mobile First, Cloud Must, Threat Can be Prevented!

楊敦凱 Danny Yang | 技術顧問
2018.Aug.30

WELCOME TO THE FUTURE OF
CYBER SECURITY

POWERED BY  CHECK POINT
INFINITY

CLOUD • MOBILE • THREAT PREVENTION



Agenda

- 第五代(Gen V)攻擊與雲安全現況
- 完整防護混合雲應用安全: Check Point CloudGuard
- Check Point Overview & 安全未來式



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- 第五代(Gen V)攻擊與雲安全現況

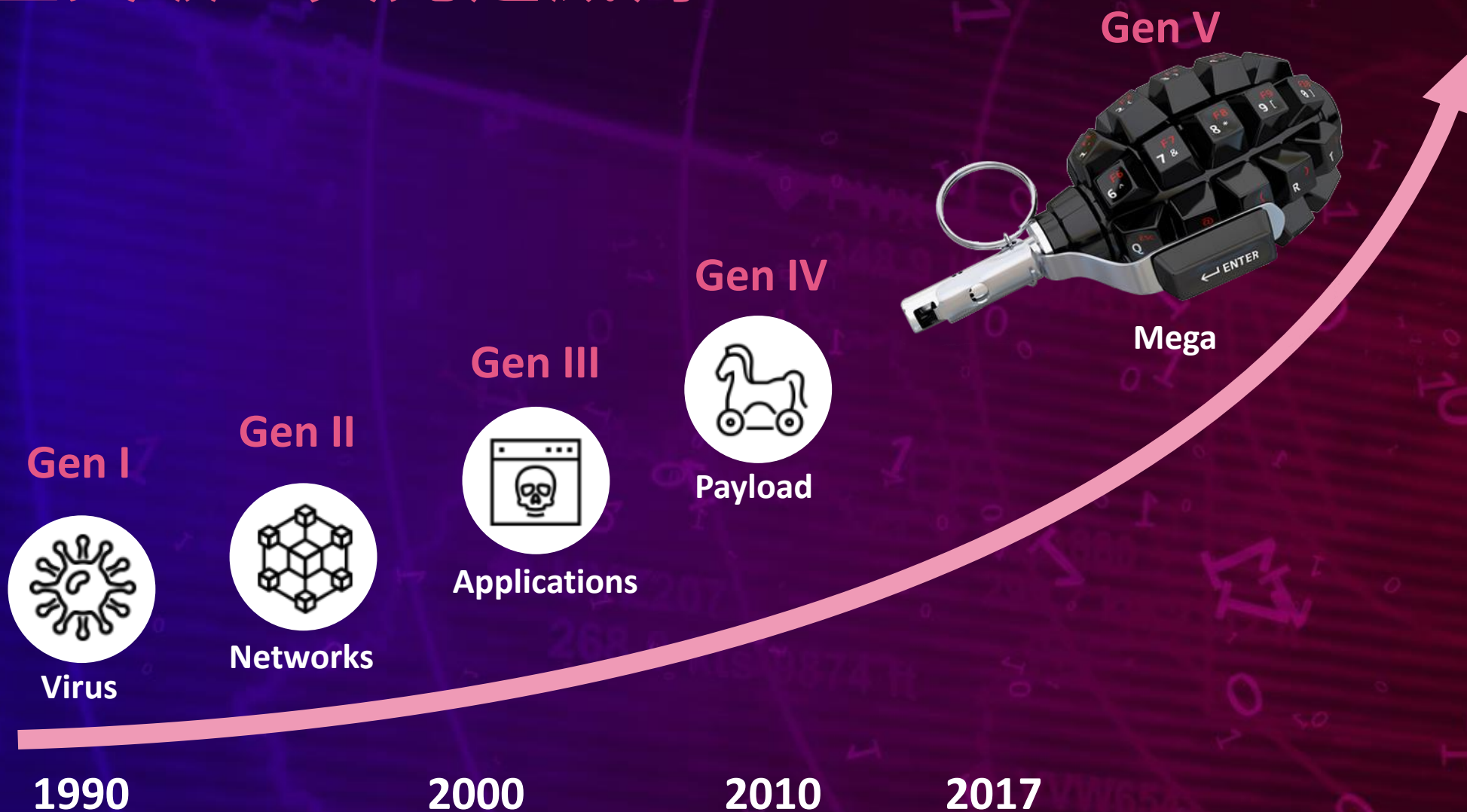
2018 世界經濟論壇全球風險報告



- CIA and NSA tools leaked March 7th, April 14
- Uber Data breach May 14th, 16
- War in Syria July 30, 17
- Equifax data breach Sept 17
- Not et

多重突破口與先進威脅!

威脅趨勢



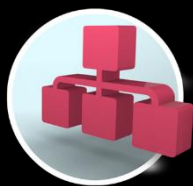
GEN V 攻擊(Mega Attack)

1 大規模(跨國家與產業別)

2 國家級別的威脅

3 巨大損害

4 多重突破口



網路



端點



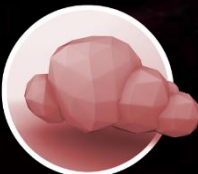
雲



行動裝置



不斷演進的攻擊手法與突破口

突破口 攻擊手法 ↓	 實體網路	 端點設備	 雲服務	 行動裝置
郵件		  Exchange	  Exchange	  Exchange
網路應用	   	   		   
檔案分享	 box 	 box 	 box 	 box 
釣魚				
中間人攻擊		 Malicious Networks		 Malicious Networks
惡意Apps				 

企業安全投資是否正確聚焦？

緩解零時差威脅

安全管理與鑑識分析

多點防禦與先進措施



CYBER SECURITY - 企業實施重點？

整合安全管理、多面向安全部署、動態威脅情資與快速調整

層出不窮的雲服務資安事件

躍上雲端前，請先繫好安全帶



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SINGLE (SIGN-ON) POINT OF FAILURE? —

OneLogin suffers breach—customer data said to be exposed, decrypted

Customer account-only support page warns of "ability to decrypt encrypted data."

► SECURITY / CLOUD SECURITY

BroadSoft at Heart of TWC Customer Data Blunder

Details related to more than 4 million Time Warner Cable customers were

Widespread, Brute-Force, Cloud-to-Cloud Attacks Hit Office 365 Users

專門針對雲服務及應用的Gen V攻擊已經來了！

MP cites possible danger of blackmail attempt as House of Commons investigates unauthorised attempts to access user accounts



Latest News Published: June 20th, 2017 ~ Christina Cardoza

SHARE THIS ►

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- Share on Twitter
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- Share on LinkedIn
- Share via Email

The RNC Files: Inside the Largest US Voter Data Leak

UpGuard

ARTICLE TAGS

Names, addresses, and other personal information of wrestling fans sat on an unprotected Amazon cloud server in plain text.



By Tom Brant July 7, 2017 2:53PM EST

359
SHARES

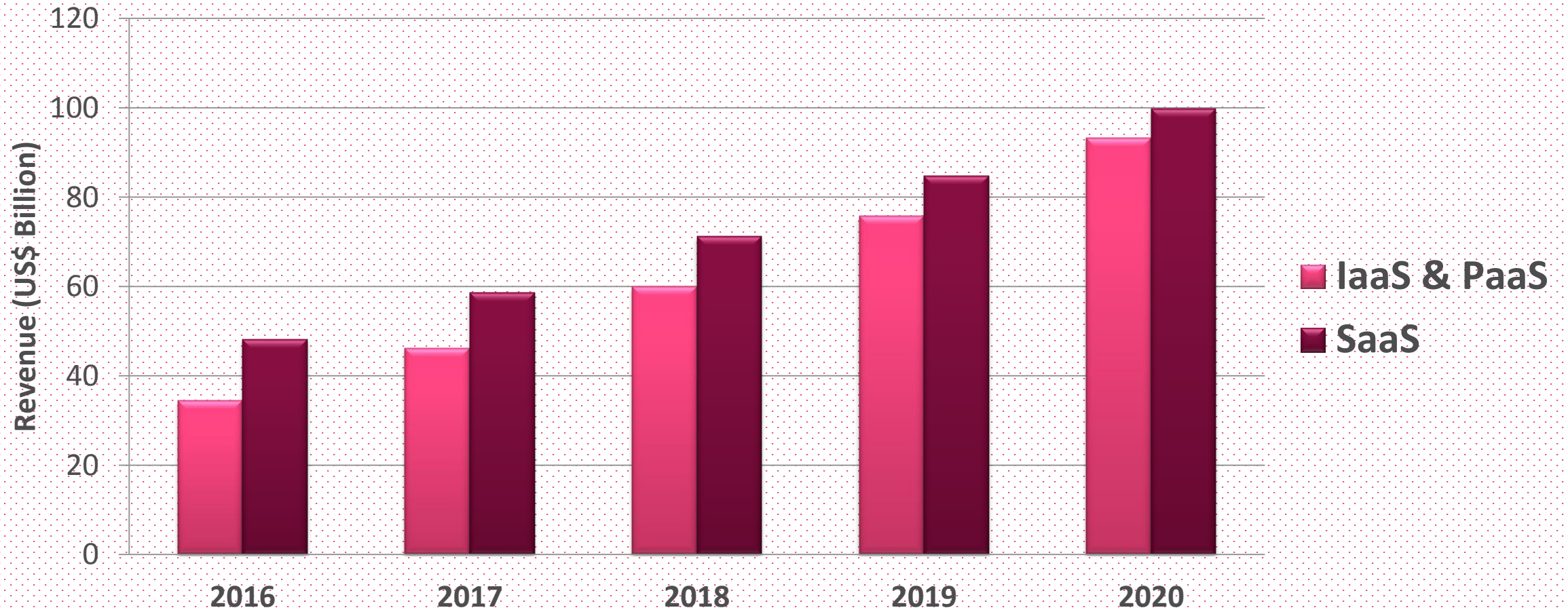


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2020年，全球雲服務規模將達\$190B

全球雲服務市場預測



雲服務應用的量變帶來質變

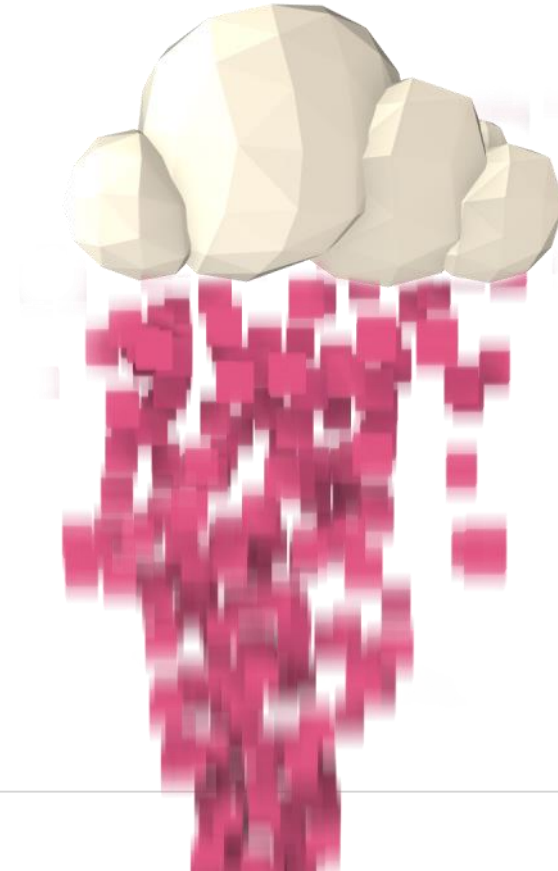
MIGRATE TO CLOUD

將原有應用程式，系統資源轉至雲服務

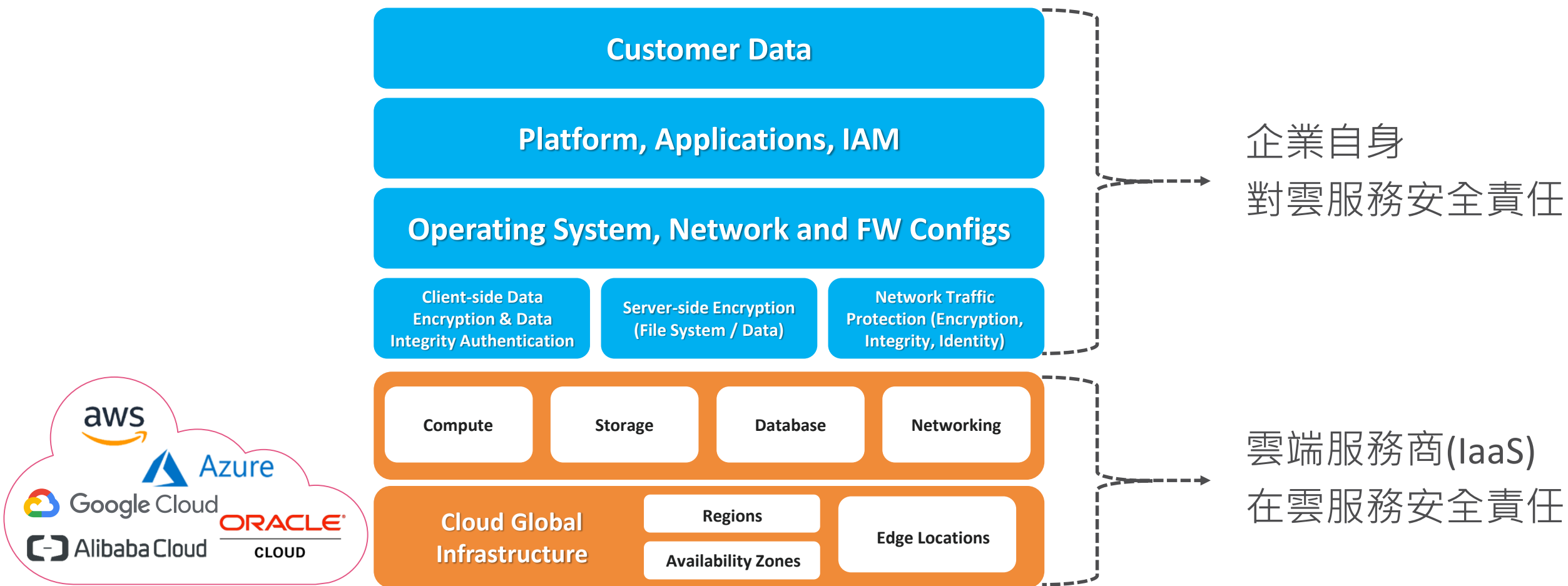


INNOVATE WITH THE CLOUD

發展全新應用服務與技術於雲服務



CLOUD = 供應商與企業安全職責分立



七成企業已應用多種軟體雲服務(SAAS)



但...SaaS的安全風險比想像中更高!



WELCOME TO THE FUTURE OF CYBER SECURITY



- 完整防護混合雲應用安全:
Check Point CloudGuard

CHECK POINT CLOUDGUARD

防護所有混合雲平台，部署與地端一致性安全標準



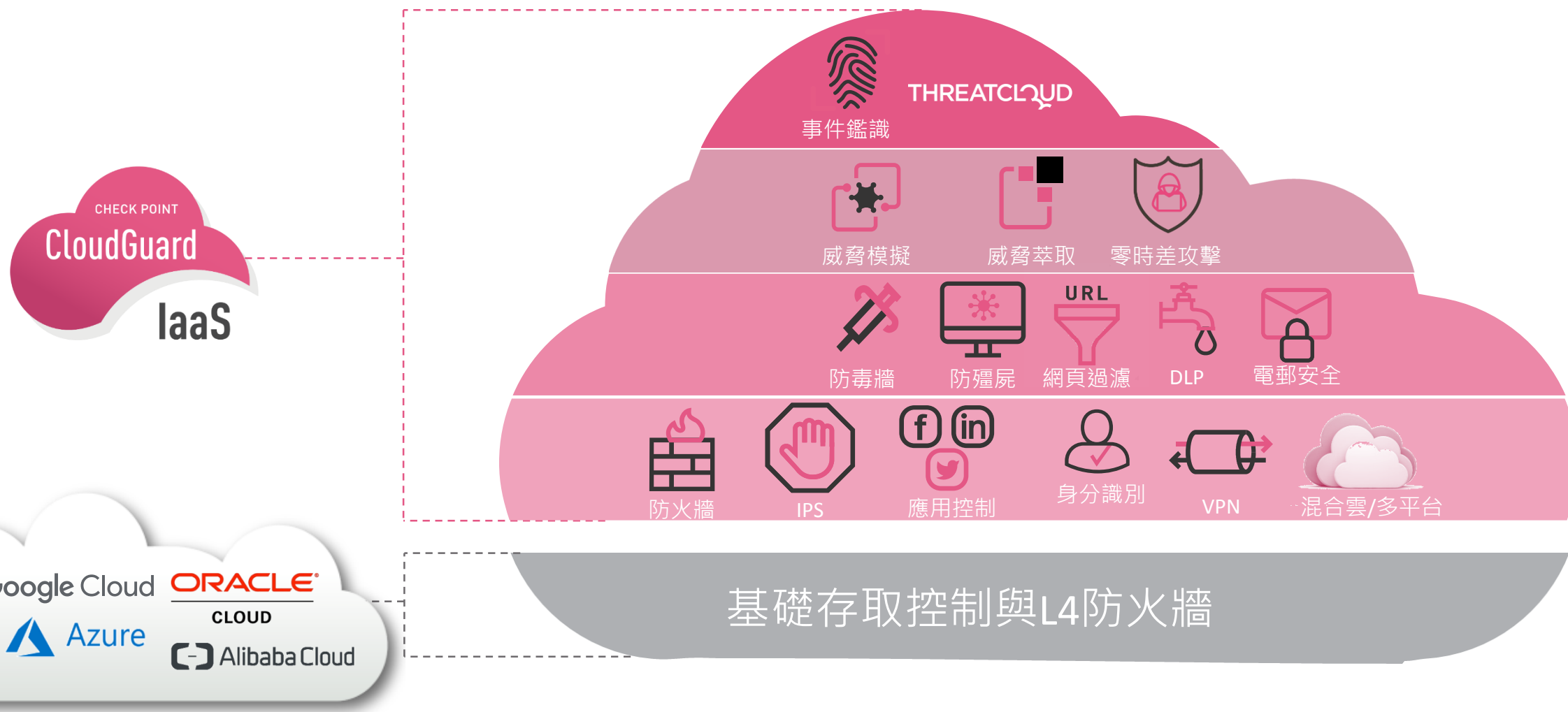
CloudGuard 產品家族



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CloudGuard IaaS 雲平台進階防護方案



CLOUDGUARD SAAS

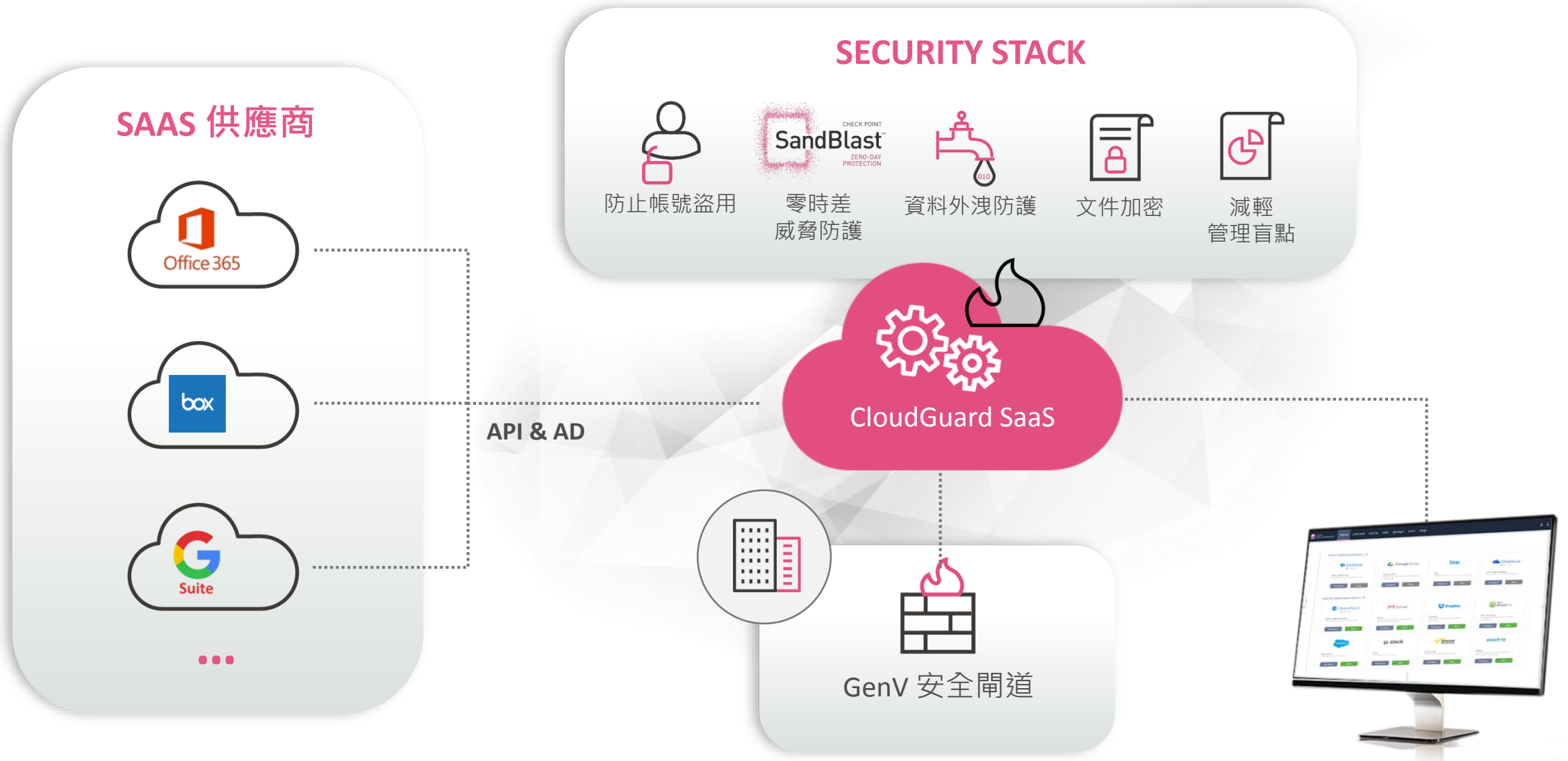
雲端服務安全方案



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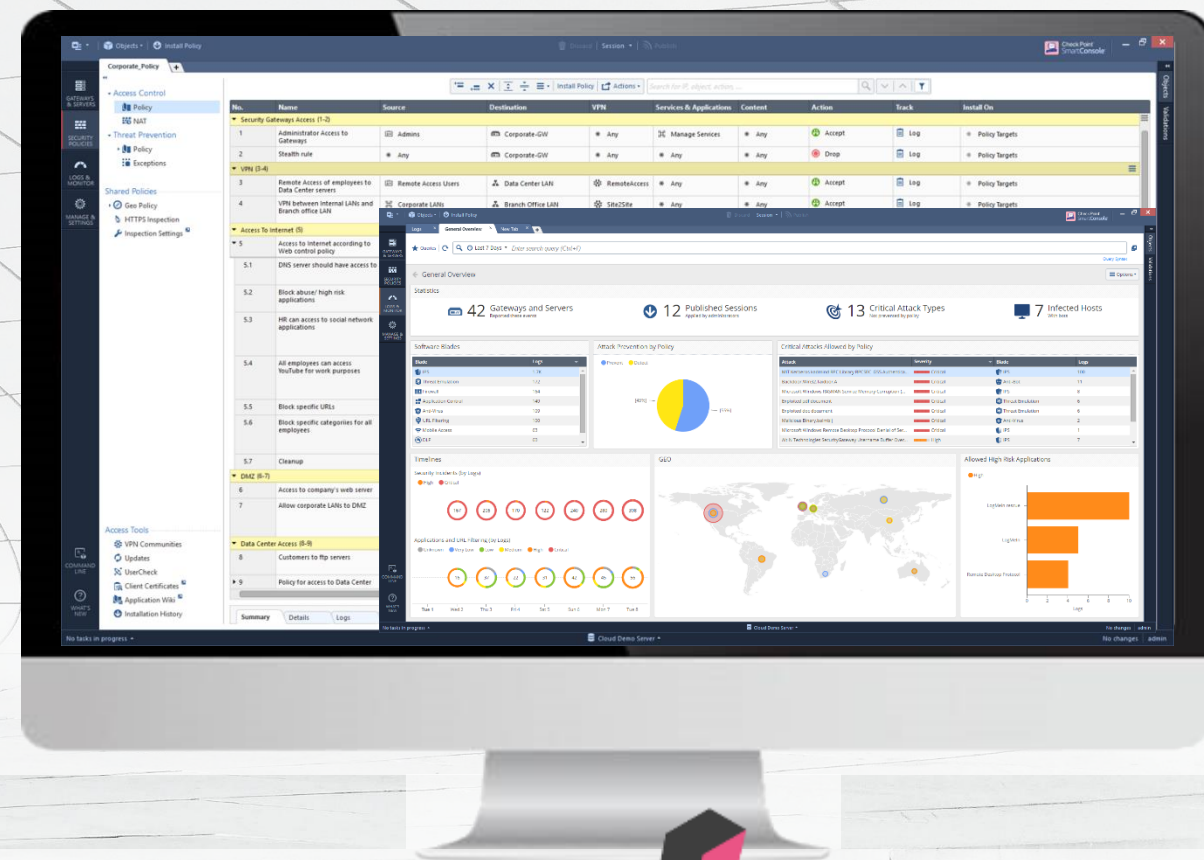
CloudGuard SAAS



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統合安全管理的黃金標準



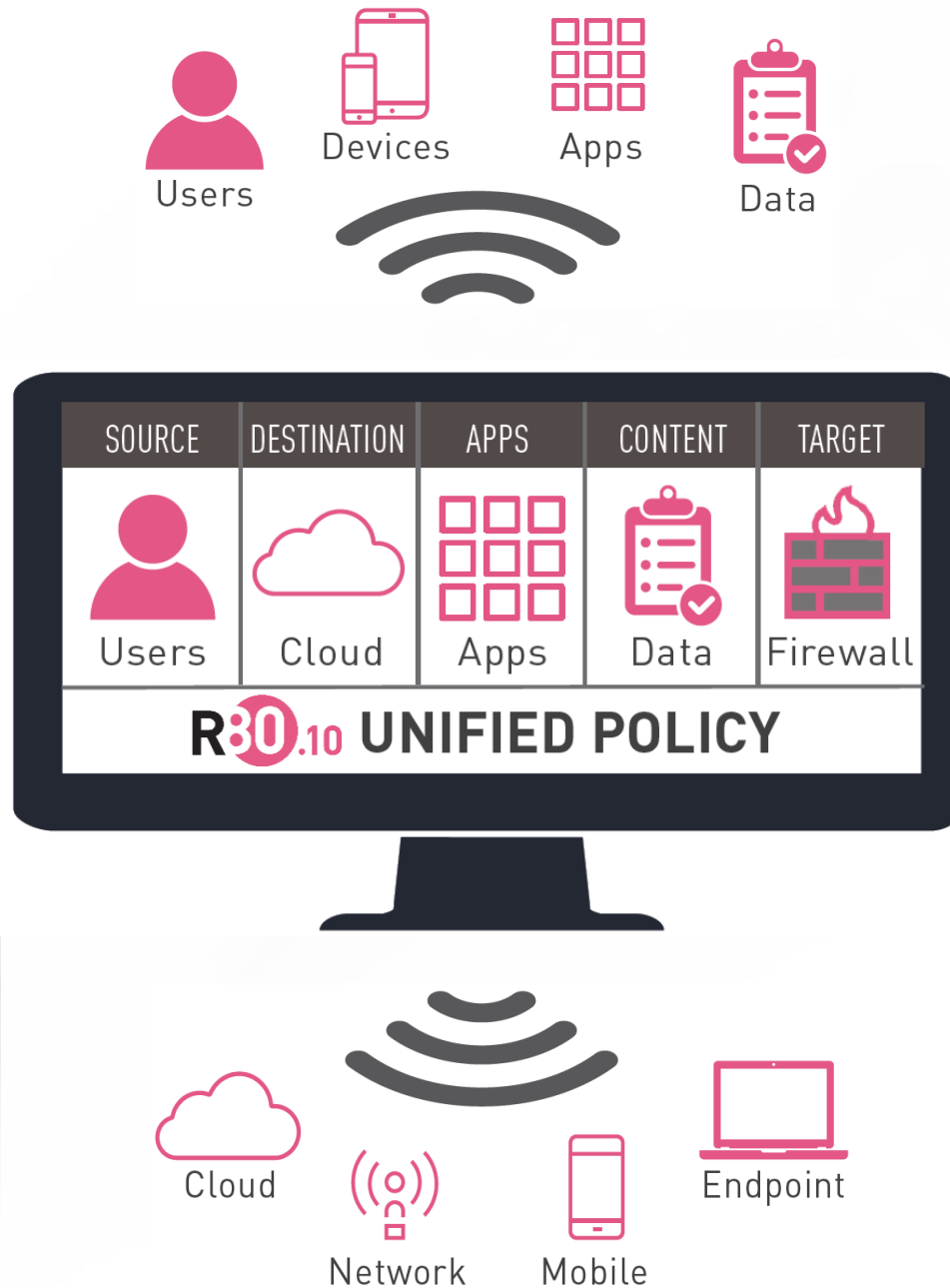
R30.10

專為

GEN V

設計

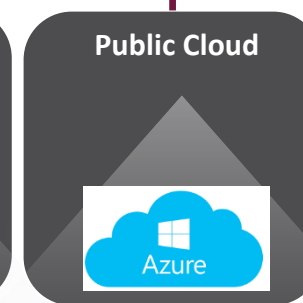
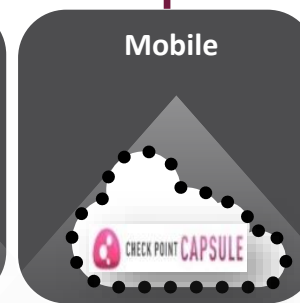
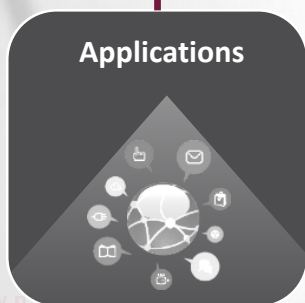
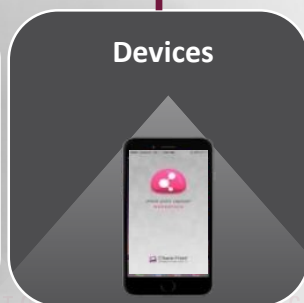
單一管理介面



統合安全政策

單一介面管理企業所有虛實安全閘道

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	Azure VMWare





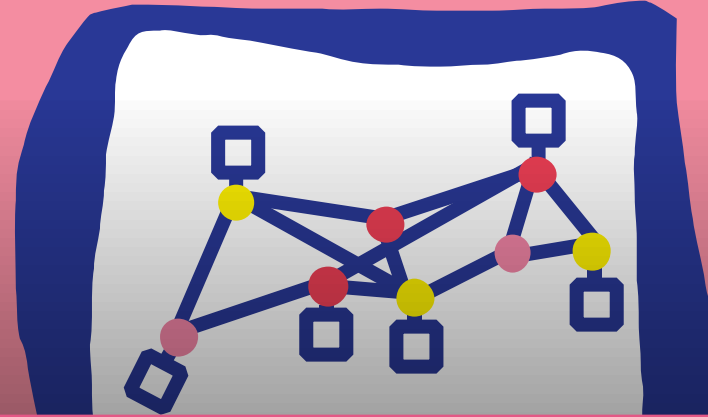
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- Check Point Overview & 安全未來式

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)

ONE STEP AHEAD

全球最完整的動態威脅智能引擎



500,000,000+
惡意檔案雜湊值
惡意站台

700,000 +
每日惡意程式
掃描數量

250,000,000
C & C 位址

17,000,000
每週惡意攻擊
事件彙整

11,000,000
惡意程式行為
特徵碼



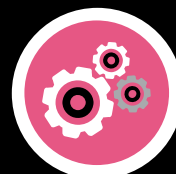
產業情資

- URLs, Hashes, Domains
- Virus Total indicators



資料採礦

- Campaign hunting



協同合作

- Cyber Threat Alliance

CHECK POINT INFINITY



雲服務

基礎設施



- 進階威脅防護
- 自適應性的安全
- 自動化與流程優化
- 跨平台動態安全政策

應用程式



- 零時差威脅防護
- 機敏資料保護
- End-to-end SaaS安全
- 使用者身份保護

多重平台與混合雲

網路

總部

- 存取控制
- 資料外洩防護
- 多層次安全防護
- 進階威脅防護(APT)

分點

- 存取控制
- 多層次安全防護
- 進階威脅防護(APT)
- Wi-Fi, DSL, PPoE

即時威脅情資分享

THREATCLOUD



R80 整合安全管理平台

行動裝置



- 惡意應用程式防護
- 網路中間人防護
- 裝置漏洞保護



- 遠端存取(VPN)
- 企業資源安全存取
- 檔案安全管理

端點設備



- 進階威脅防護 (APT)
- 勒索軟體保護
- 端點鑑識分析



- 資料安全
- 存取控制
- 攜帶媒體安全
- 安全文件存取

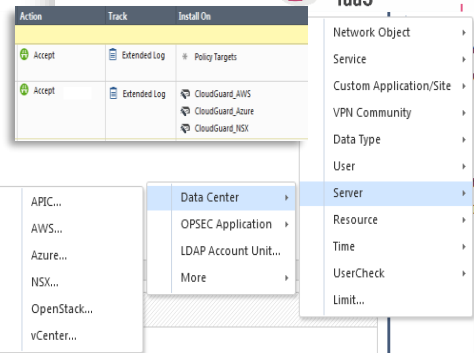


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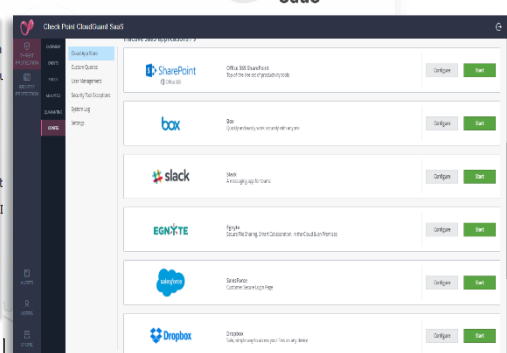


雲服務

基礎設施



應用程式



即時威脅情資分享

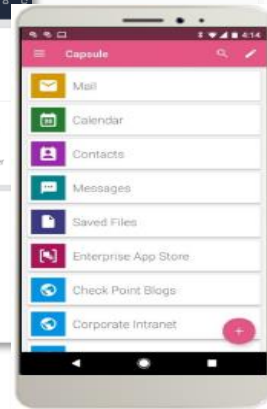
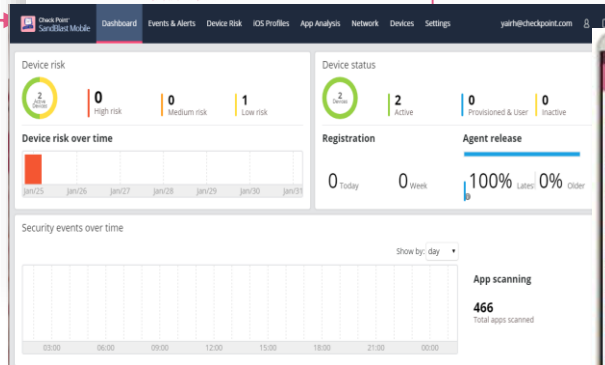
THREATCLUD



行動裝置



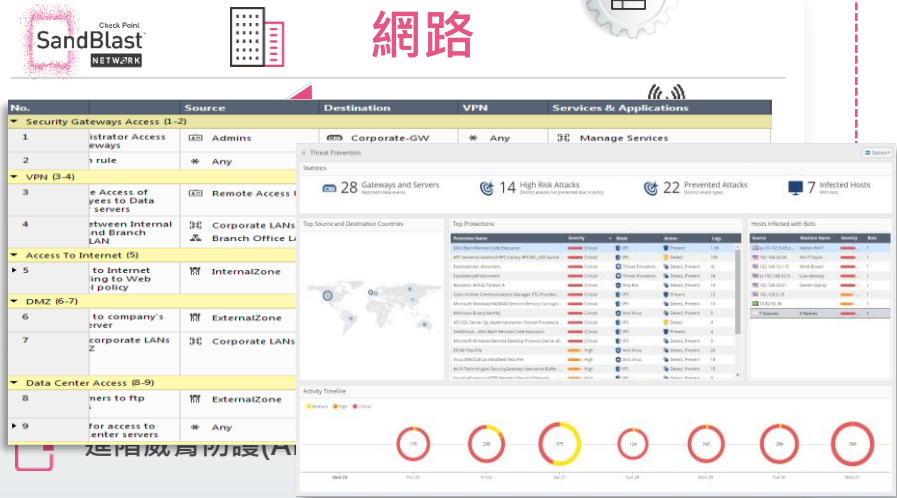
Capsule WorkSpace/Docs



多重平台與混合雲



網路



R80

整合安全管理平台

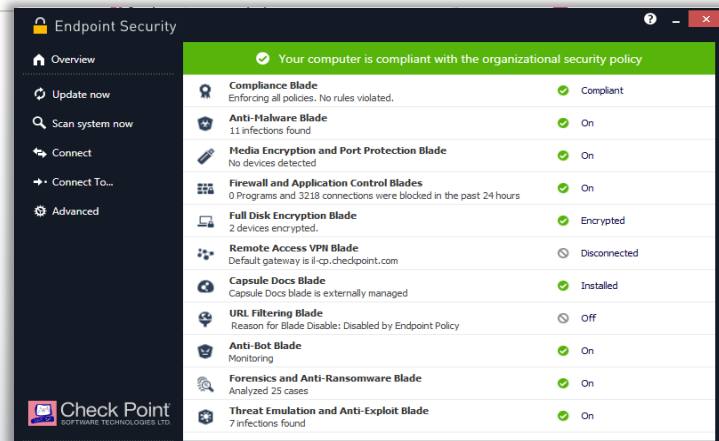
SmartEvent

Compliance

Unified Policy



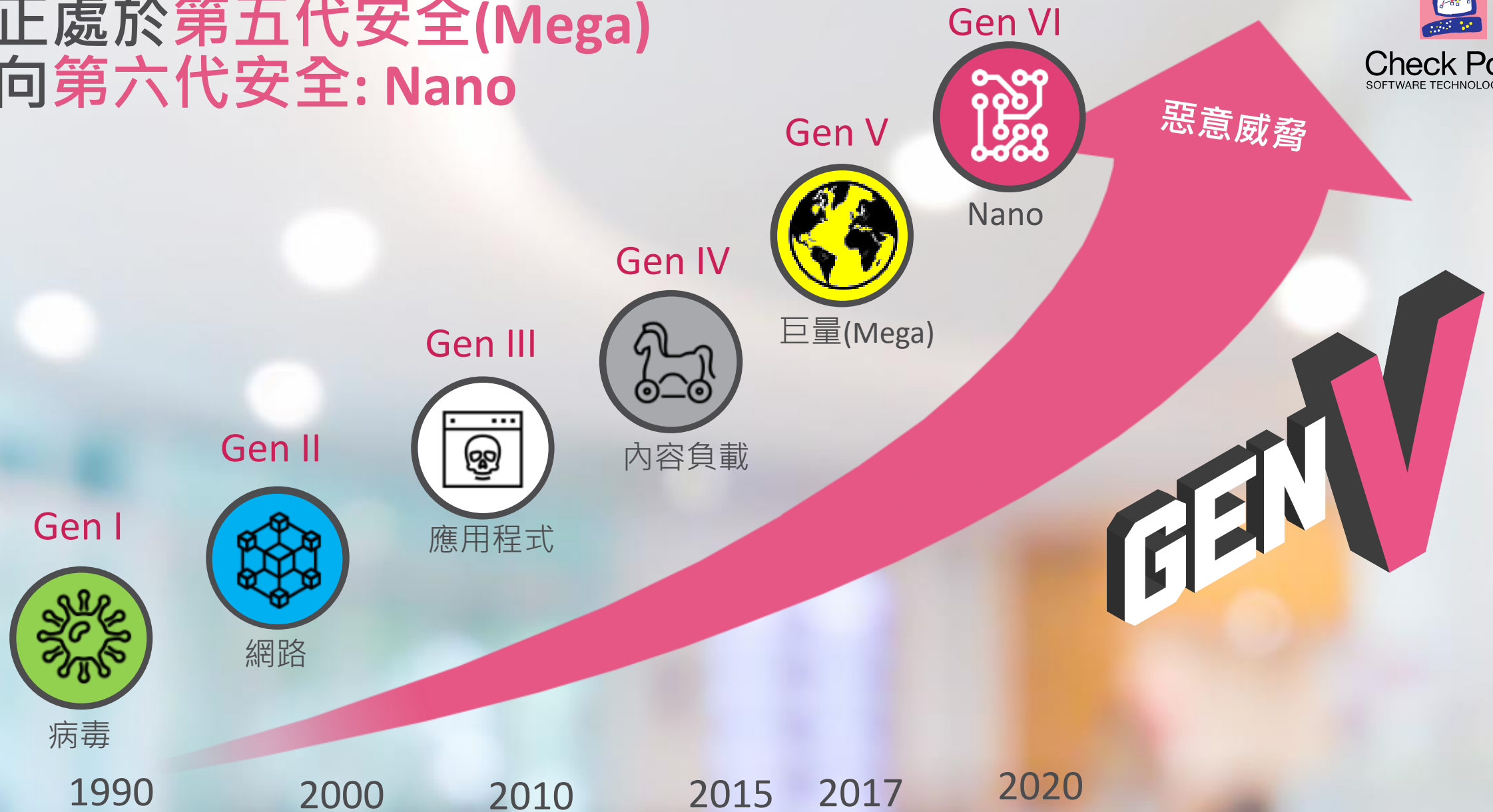
端點設備





WELCOME TO THE FUTURE OF CYBER SECURITY

現正處於第五代安全(Mega) 邁向第六代安全: Nano



全新IT世代 物聯網安全



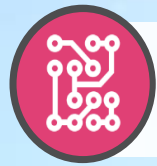
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IoT安全未來式: 第六代NANO Security

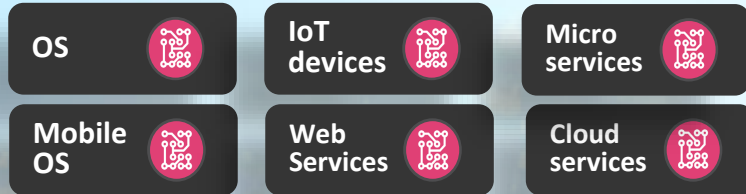


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NANO 代理程式

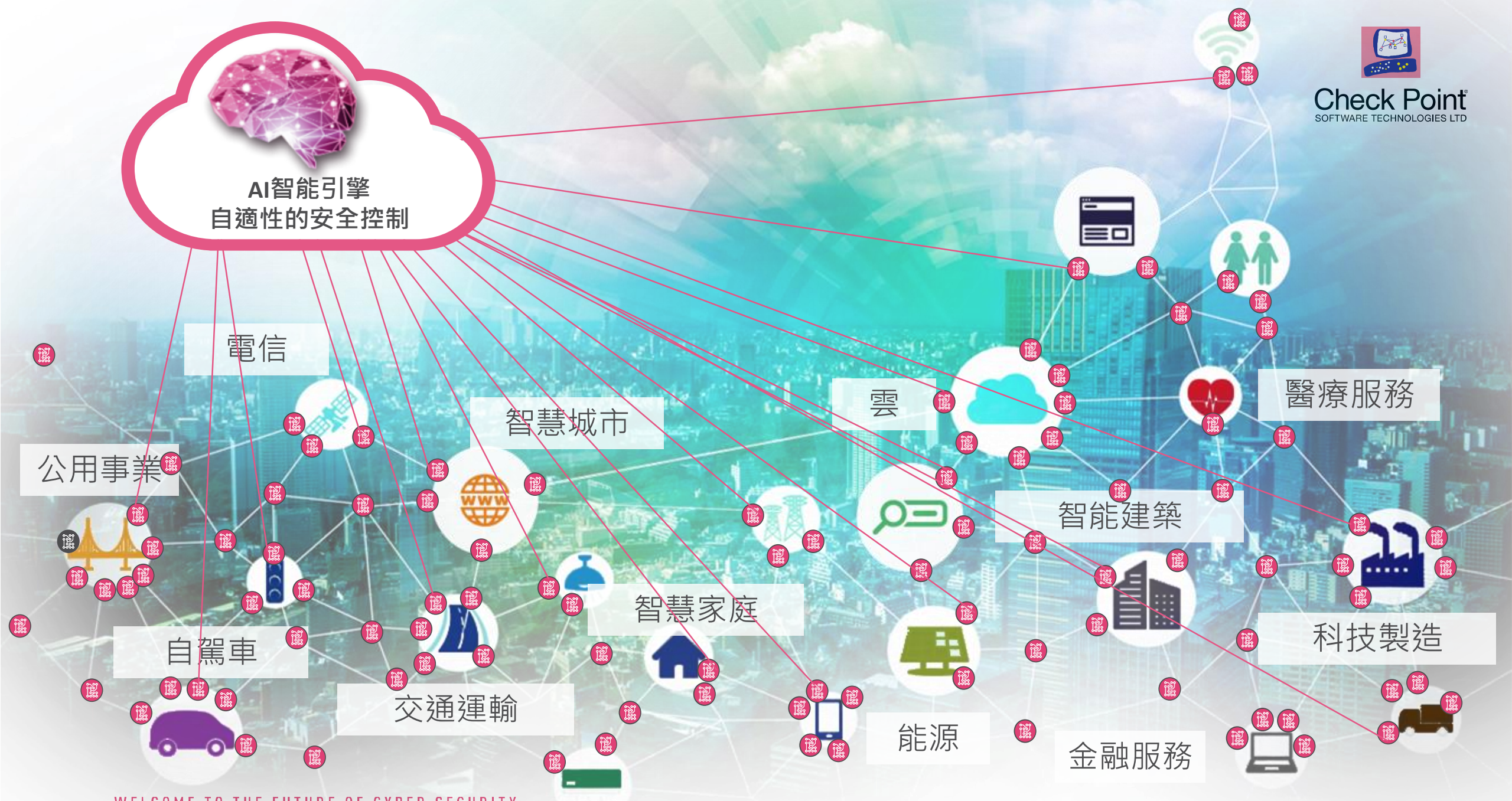
(開放原始碼) 軟體插件
控制所有裝置安全屬性



人工智慧威脅引擎與中央管理

基於可分享的威脅智能分析
自動化安全管理政策





ONE MORE THING...

工業4.0除了AI, 還須考慮資安



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水資源



電力



交通設施



高科技製造業



自動化設備



能源

關鍵基礎設施(ICS)影響現今人們生活

IoT/OT 安全藍圖

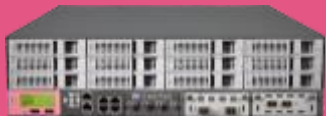
Management Facility

Main Control Center



SCADA Historian

SmartEvent

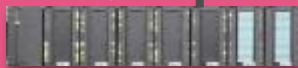


SCADA VPN

Control & monitor



Control
Monitor



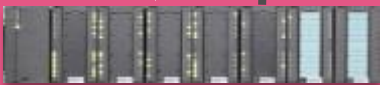
PLC1



PLC2



PLC3



PLC4

Shop Floor

Shop Floor

Management Facility

Main Control Center



SCADA Historian

SmartEvent



SCADA VPN

Control & monitor



Control
Monitor



PLC1

PLC2

PLC3

PLC4

Shop Floor

Shop Floor

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Summary

- 從第五代攻擊審視資安防護要點
 - 即時防護、情資共享、整合管理
- 導入雲服務應用的安全可適應性
- 提早一步認知威脅，降低被突破可能





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THANK YOU

Mobile First, Cloud Must, Threat Can be Prevented!

楊敦凱 Danny Yang | 技術顧問
2018.Aug.30

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CYBER SECURITY

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CLOUD • MOBILE • THREAT PREVENTION