

ORGANIZED BY Thome

資訊架構的零信任革命

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1. What Zero Trust?

2. Why Zero Trust?

3. How Zero Trust?

4. Why not Zero Trust?

TRUST:redefined 信任重構

What is TRUST?

Q1: 我是金城武, 這是我的名片, 你信任我嗎?

A1: 我是誰? 是誰說我是誰? 要看雙證件才(就)可信嗎?





memegenerator ne

What is TRUST?

Q2: (公司內)可以幫我開一下門嗎?

A2: 大門警衛放進來的, 邊界內就是安全的? 業務部找的廠商可以進機房?





What is TRUST?

Q3: (在大街上)免費發放試用產品!

A3: (釣魚信件)請開啟這個附件

[不預設信任,時時驗證]



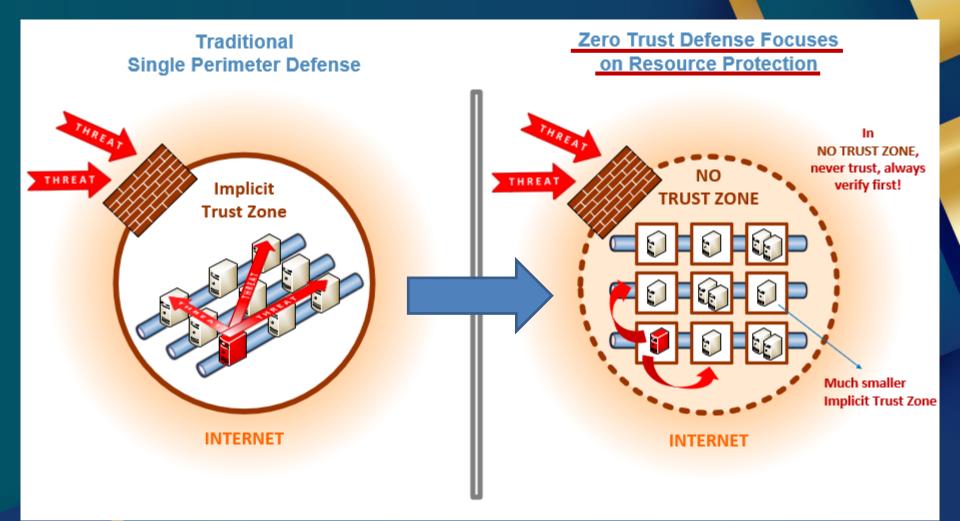
What is ZERO TRUST?

Trust, but Verify....

Never Trust, Always Verify!

Definition:

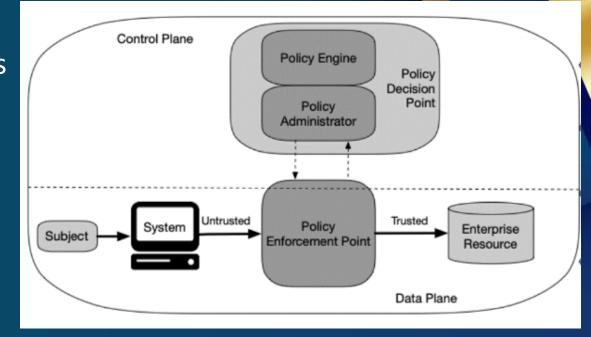
"Zero trust is a cybersecurity paradigm focused on resource protection and the premise that trust is never granted implicitly but must be continually evaluated."



https://www.nist.gov/blogs/taking-measure/zero-trust-cybersecurity-never-trust-always-verify

Zero Trust Components

PE: decision to grant accessPA: establish accessPEP: enable, monitor andterminate connections





Zero Trust is New!

https://www.wwt.com/article/what-is-zero-trust

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2. Why Zero Trust?

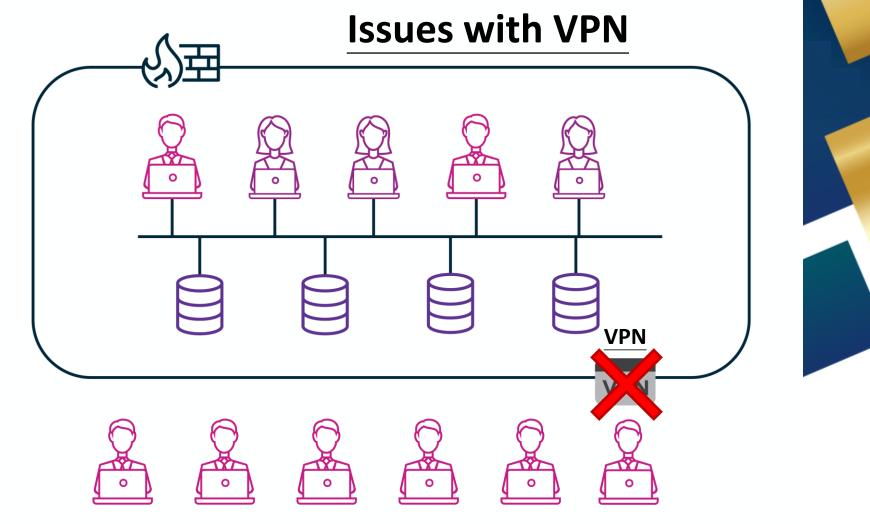
3. How Zero Trust?

4. Why not Zero Trust?

Work From Home under COVID-19



https://www.sourcingspeak.com/security-risk-work-from-home-wfh-covid-19/



https://www.appgate.com/blog/what-is-a-software-defined-perimeter

在我們對 Pulse Secure SSL VPN 的安全研究中,共發現了下 列七個弱點。組合利用有機會取得 SSL VPN 設備的最高權 限,可讓攻擊者進入用戶內網,甚至控制每個透過 SSL VPN 連線的使用者裝置。 Cisco之VPN路由器存在安全漏洞(CVE-2021-1289~CVE-

- CVE-2019-11510 Pre-auth Arbitrary File Reading 碼,請儘速確認並進行更新
- CVE-2019-11542 Post-auth(admin) Stack Buffer 內容說明: Overflow

■ CVE-2019-11539 - Post-auth(admin) Command In 研究人員發現Cisco中小企業VPN路由器之Web管理介面未正確驗證HTTP請求,導

· CVE-2019-1 洞的Fortinet SSL VPN設備IP : CVE-2019-1 位址名單

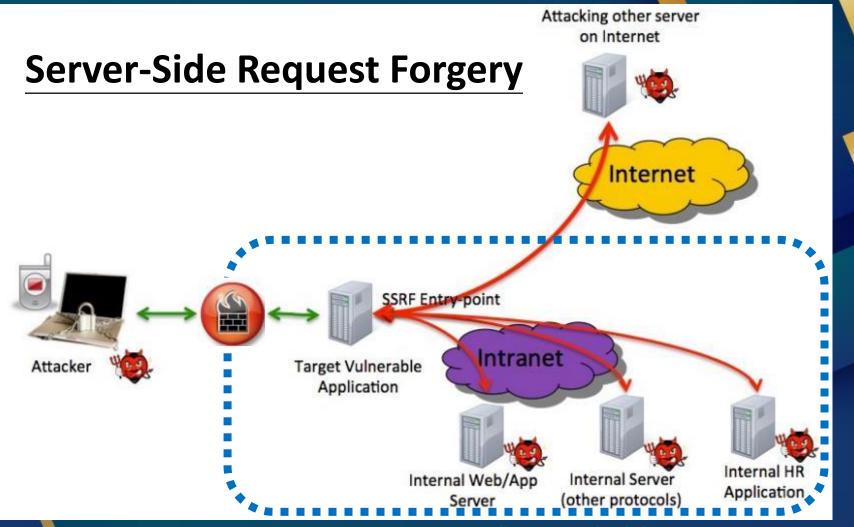
290 CVE-2021-1291 CVE-4及CVE-2021-1295),攻擊者可 並可遠端執行任意程式碼。

VPN should secure you but....

2021-1295等共7個漏洞),允許攻擊者遠端執行任意程式

威脅情報業者Bank Security揭露·駭客論壇有人宣稱握有一份未修補漏洞的 SSL VPN設備名單,內有49,577個Fortinet SSL VPN系統的IP位址,這些設備 的共通點,就是都存在去年公諸於世的CVE-2018-13379漏洞





http://blog.blueinfy.com/2017/12/server-side-request-forgery-ssrf-attack.html

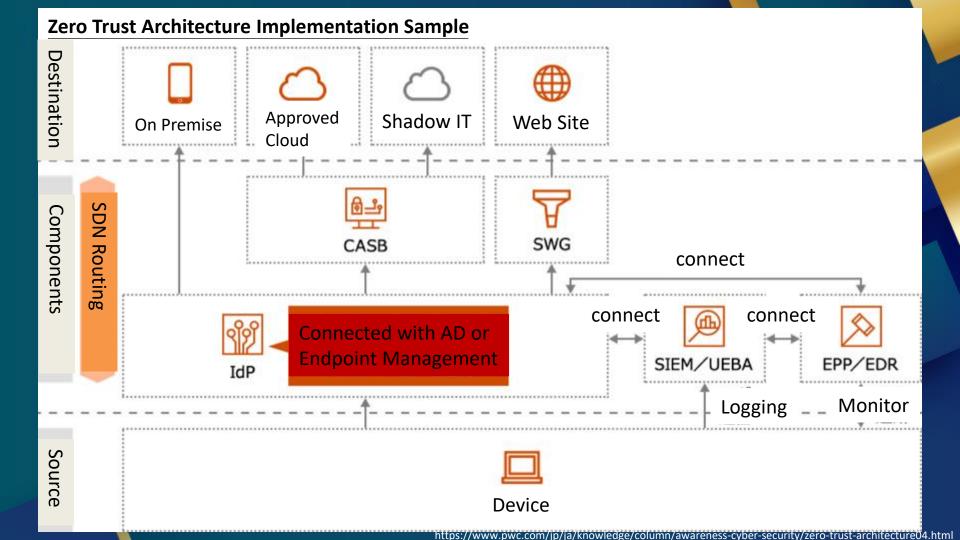
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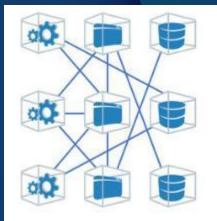


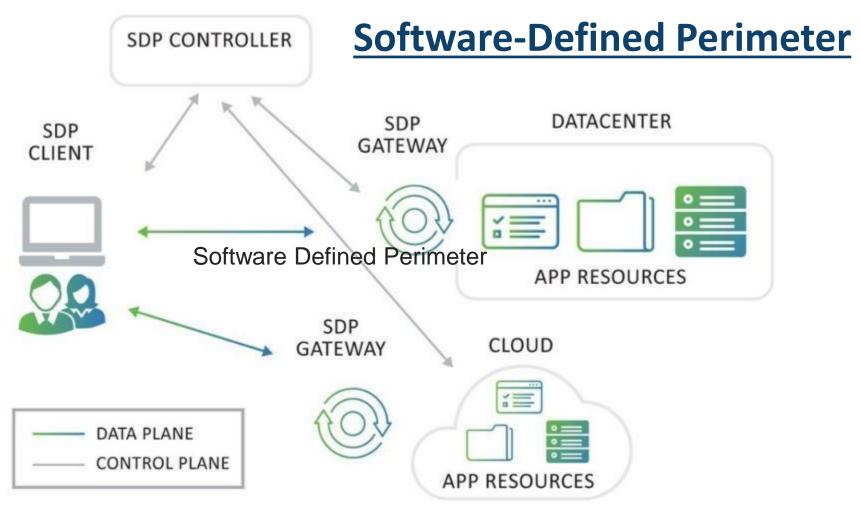
3 Main Technologies for Zero Trust

- Software-Defined Perimeter (SDP)
- Identity and Access Management (IAM)
- Micro-Segmentation (MSG)

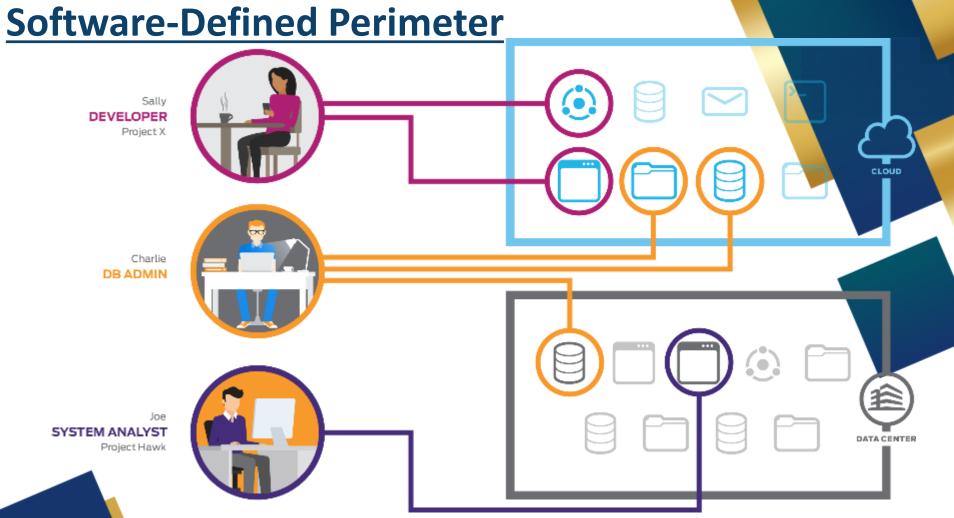








https://www.appgate.com/blog/what-is-a-software-defined-perimeter



https://www.appgate.com/blog/what-is-a-software-defined-perimeter

How to Zero Trust?

The Forrester Wave[™]: Zero Trust eXtended Ecosystem Platform Providers, Q3 2020

Tools And Technology: The Zero Trust Security Playbook

September 24, 2020

Akamai, Appgate, BlackBerry, Cisco, Forcepoint, Google, Guardicore, Illumio, Ionic Security, Microsoft, MobileIron, Okta, Palo Alto, Proofpoint, and Unisys

THE FORRESTER WAVE™

Zero Trust eXtended Ecosystem Platform Providers Q3 2020



Zero Trust Step by Step



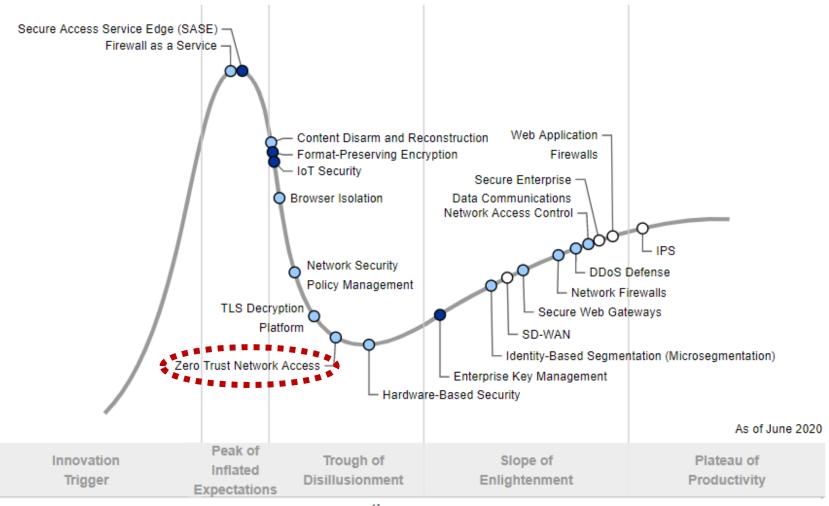
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time

Issues on Zero Trust (1/2)

Legacy Systems



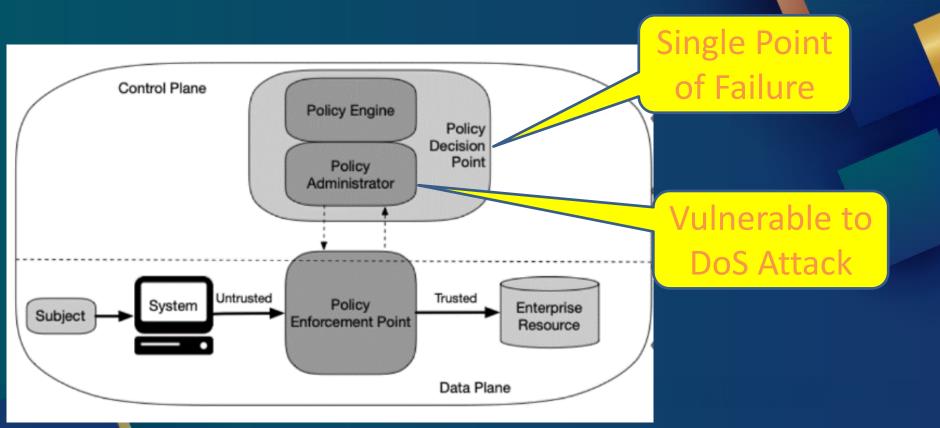
Lack of Regulation



Network Visibility



Issues on Zero Trust (2/2)



Takeaways

Zero Trust is going to mature in 2-5 yrs
COVID-19, Remote Work, Cloud are pushing
Not easy to shift thoroughly at once
<u>Can enhance components step by step</u>



