

ADC 國內外市場現況 & 產業應用案例分享

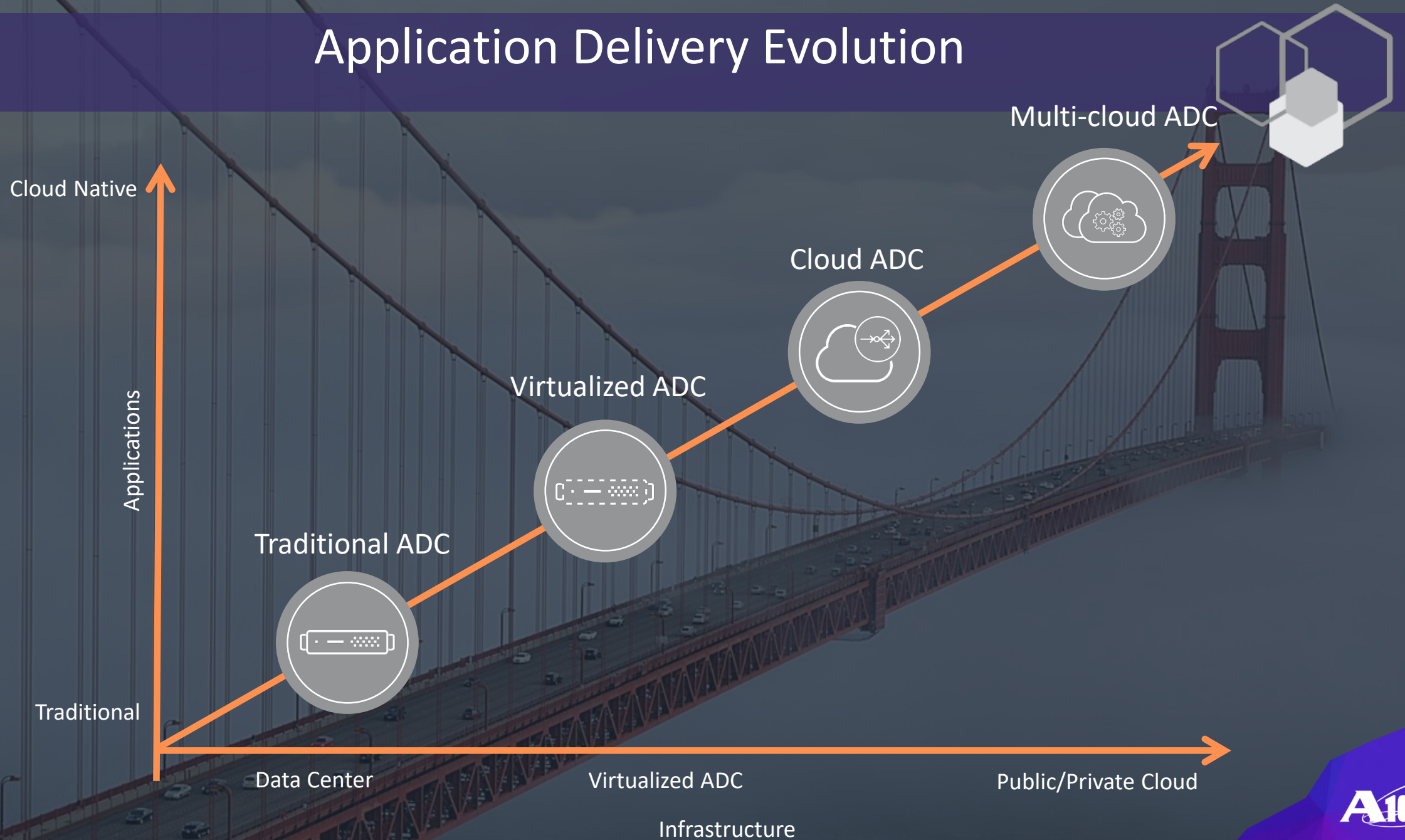
A10 Networks 台灣區技術經理
陳志緯 Nick Chen



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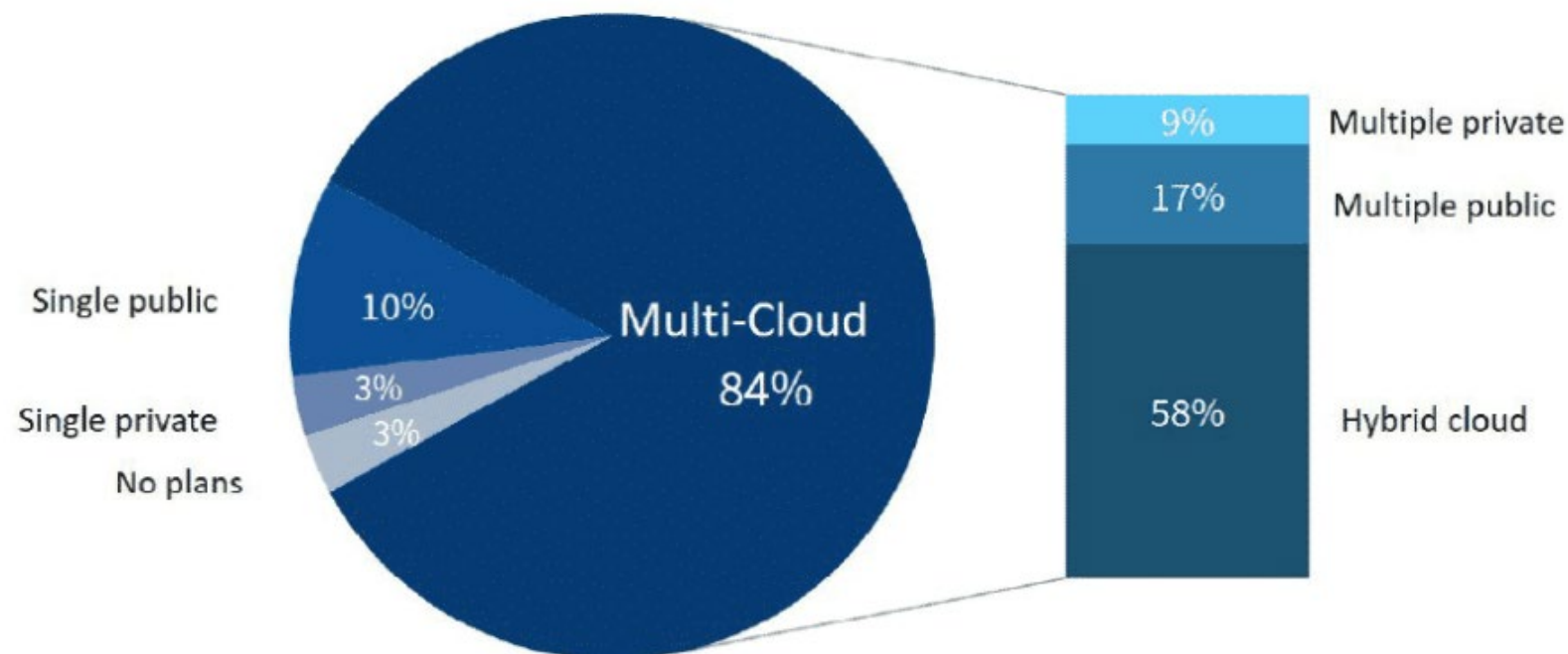
Application Delivery Evolution



Cloud Computing Trends: 2019 State of the Cloud Survey

Enterprise Cloud Strategy

1000+ Employees

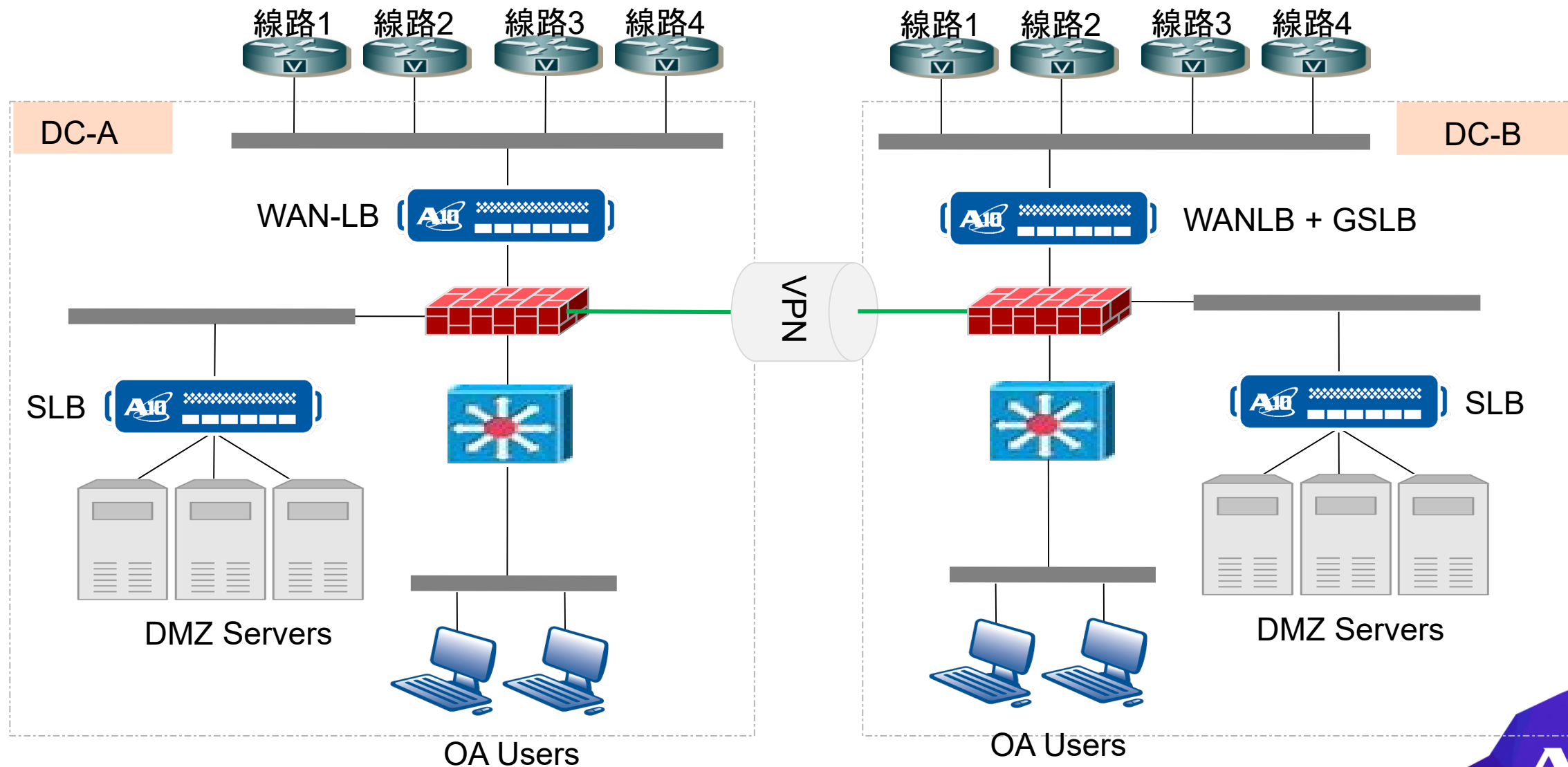


Source: RightScale 2019 State of the Cloud Report from Flexera



<https://www.flexera.com/blog/cloud/2019/02/cloud-computing-trends-2019-state-of-the-cloud-survey/>

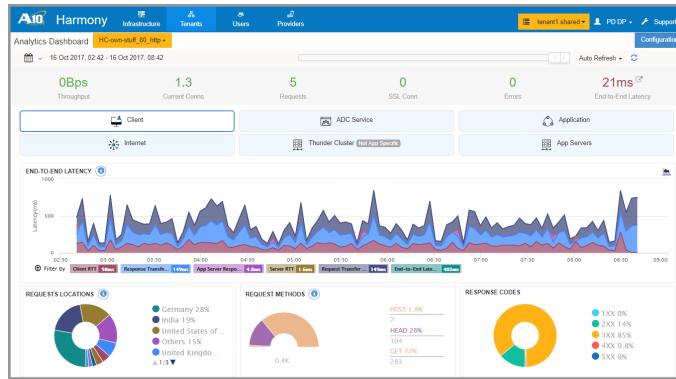
Traditional ADC Deployment



Finance / Manufacturing

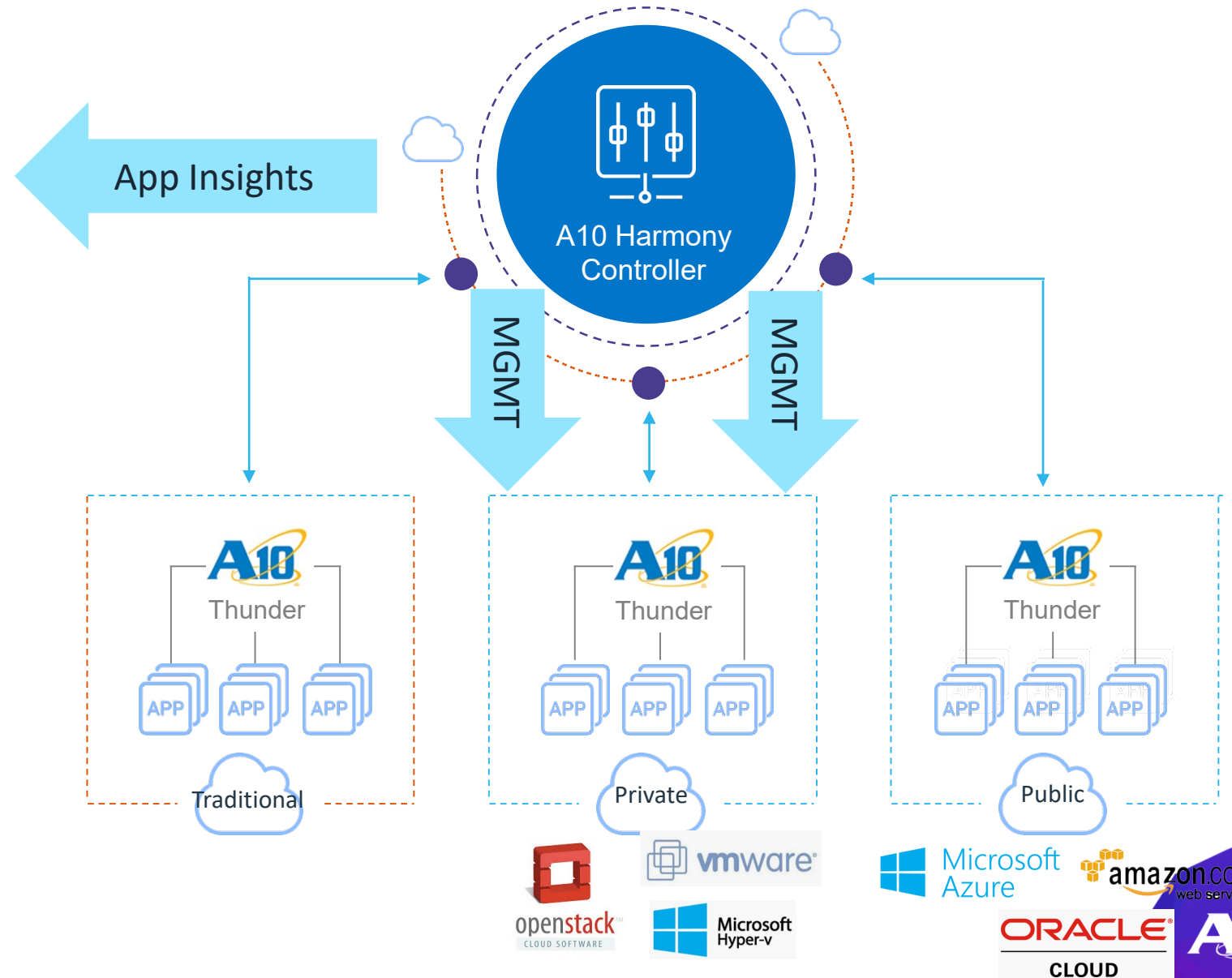


Multi-cloud ADC Deployment

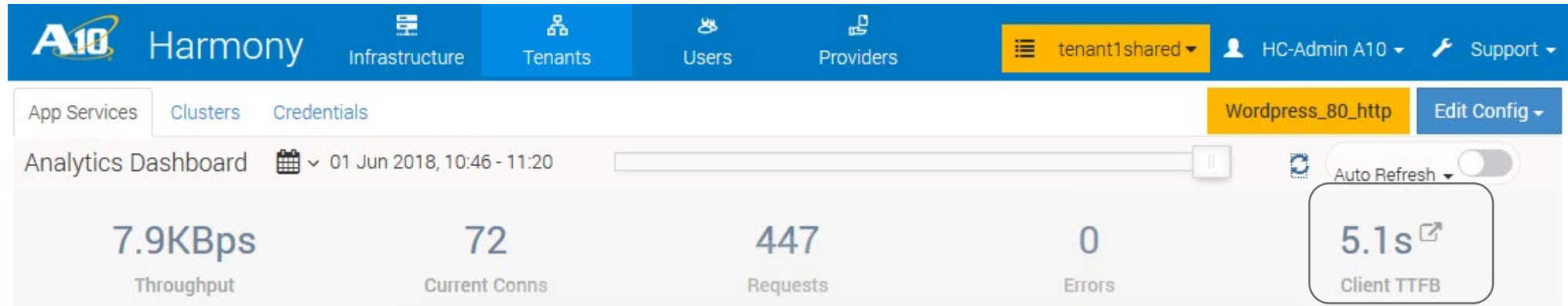


Per-App Visibility Across A10 ADCs

Visibility and enhanced troubleshooting across all apps

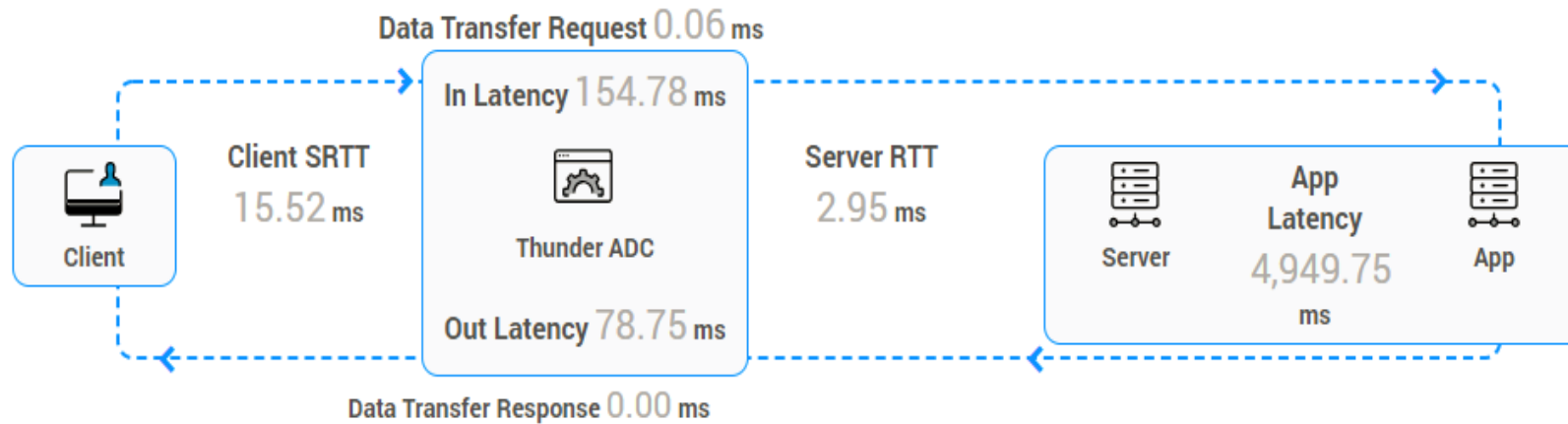


Per-application Response Time Analysis



Client > Client TTFB

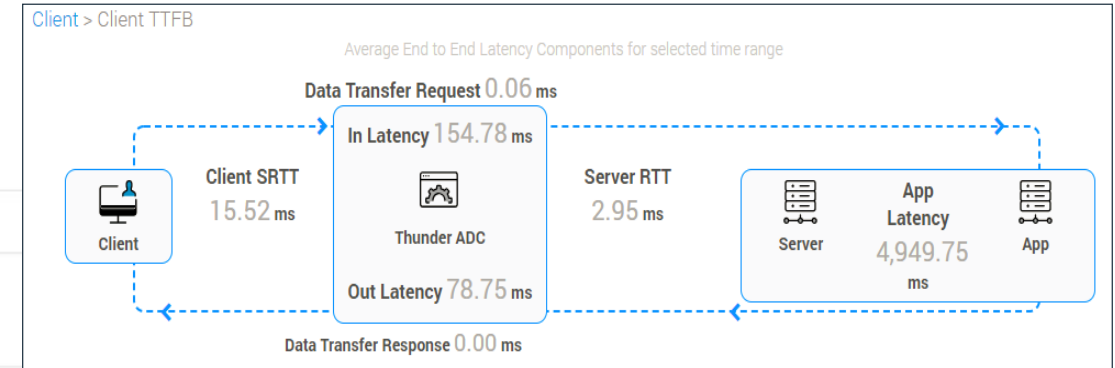
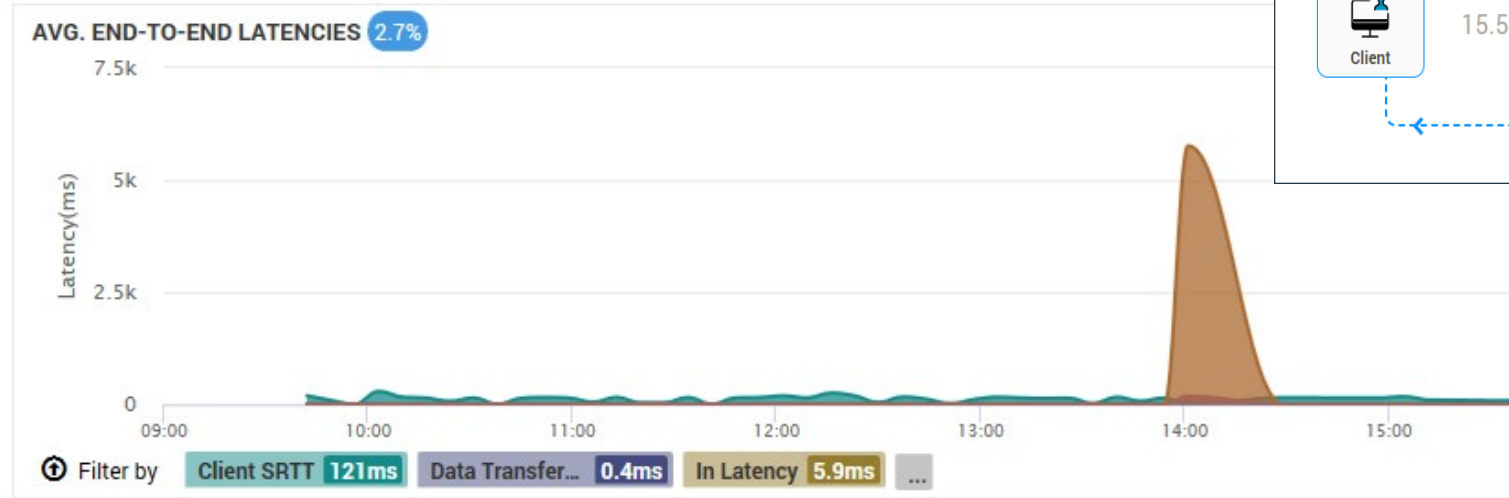
Average End to End Latency Components for selected time range



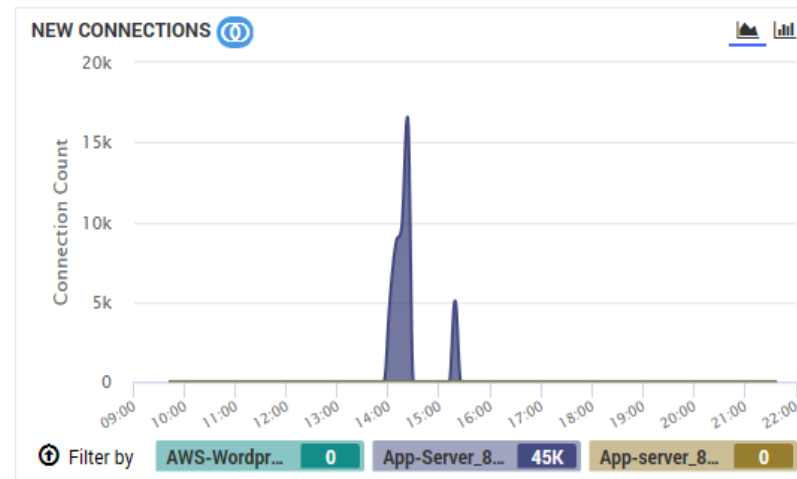
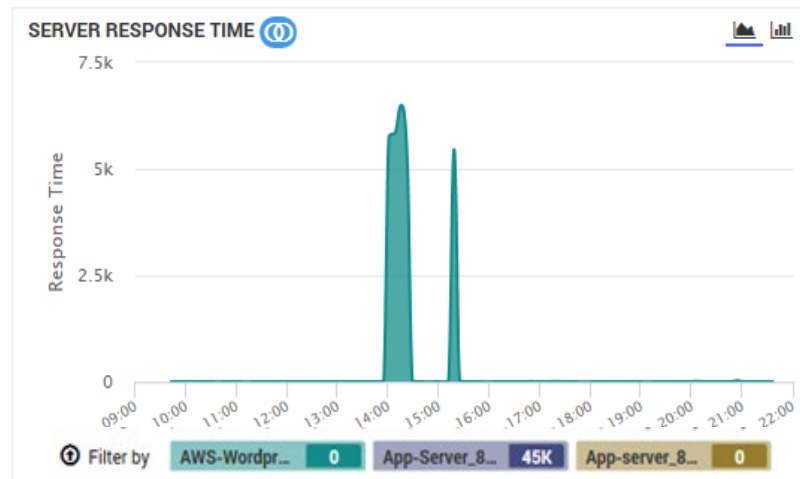
Time series distribution

- Client SRTT
- Server RTT
- APP Latency
- ADC Latency(In/Out)

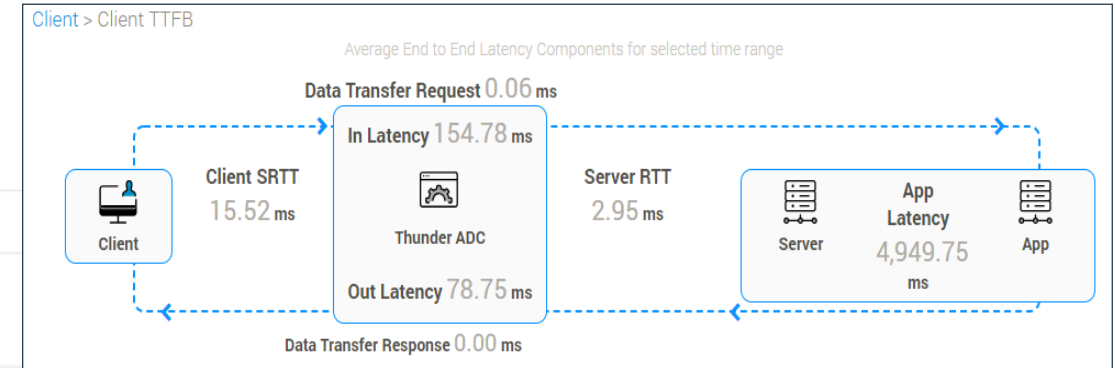
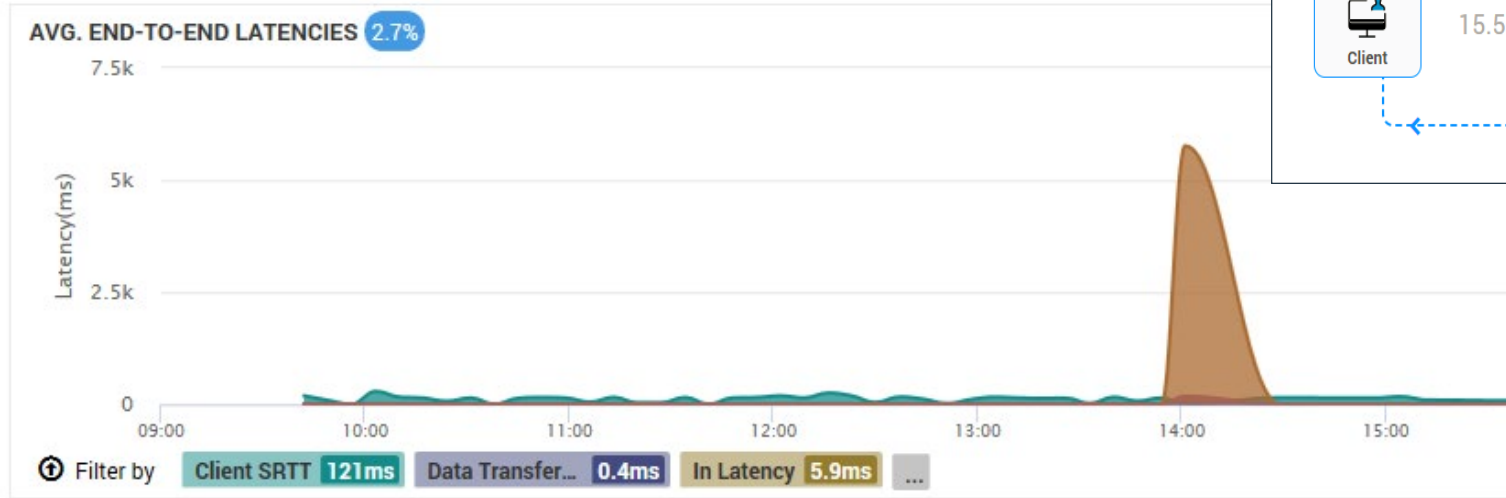
How Server is Performing



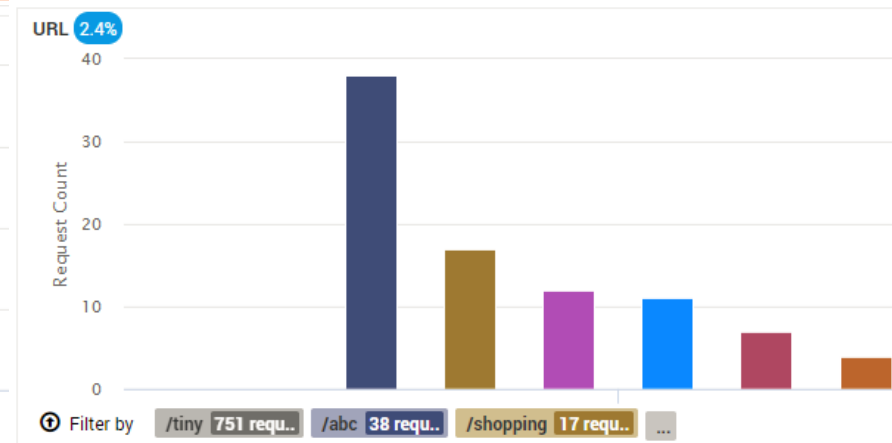
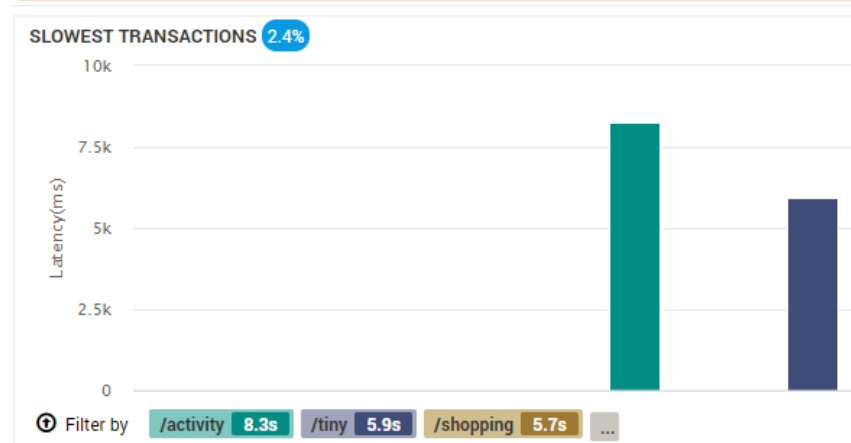
- Time series distribution of
- Client SRTT
 - Server RTT
 - APP Latency
 - ADC Latency(In/Out)



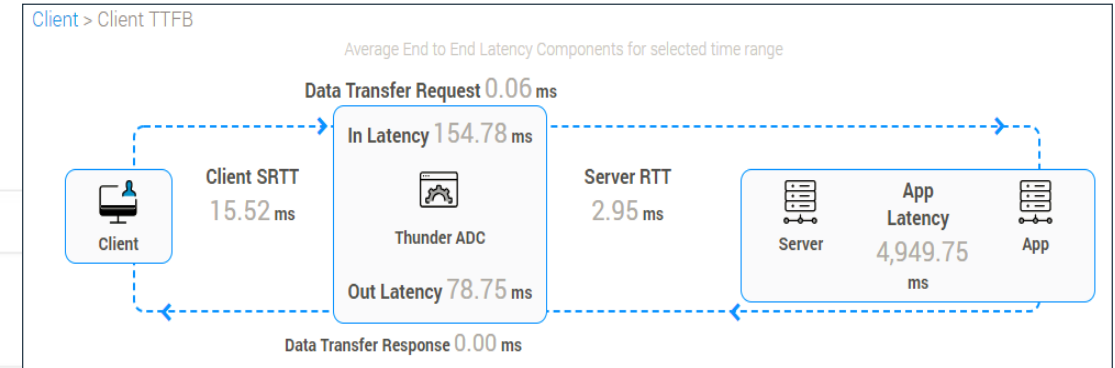
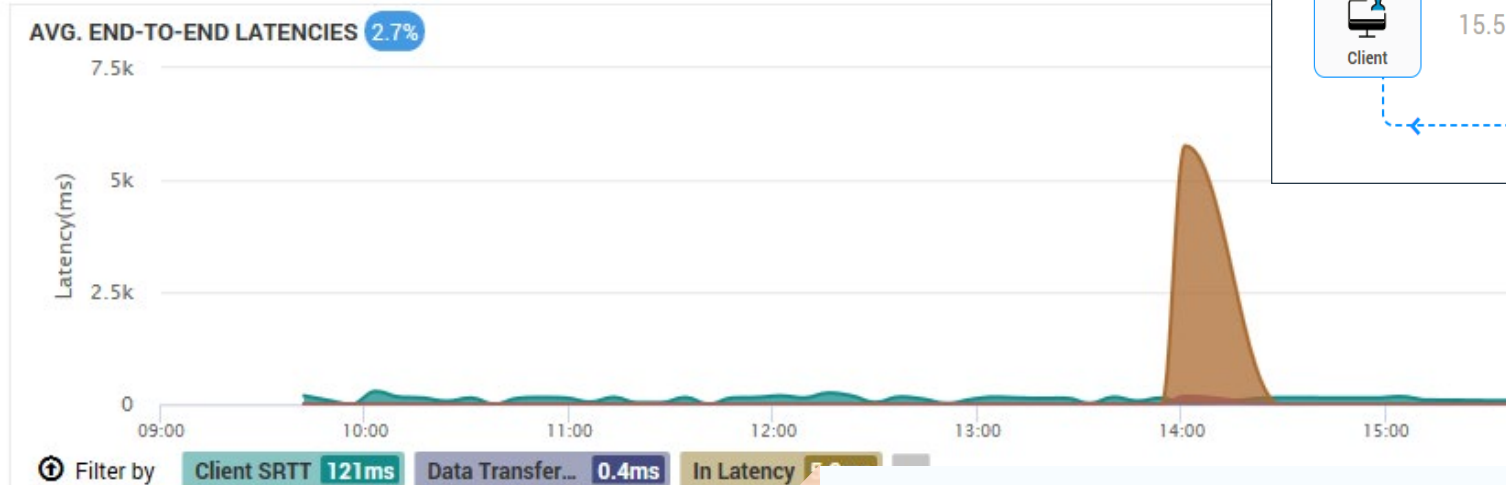
How Application is Performing



- Time series distribution of
- Client SRTT
 - Server RTT
 - APP Latency
 - ADC Latency(In/Out)



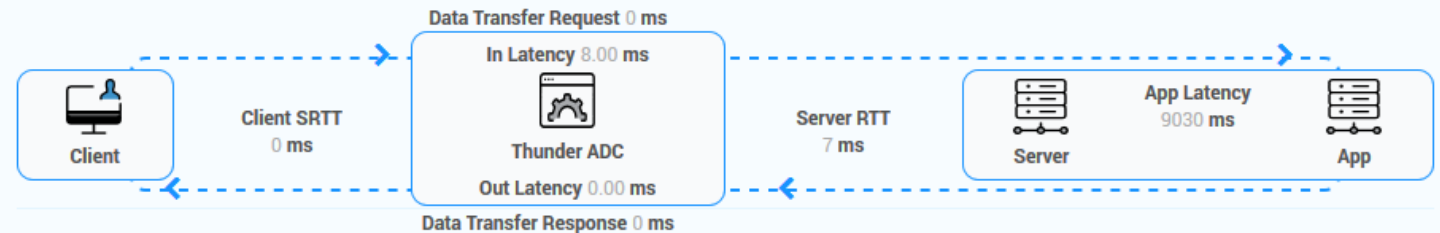
Per-request Log Analysis



Time series distribution of

- Client SRTT
- Server RTT
- App Latency

	Timestamp	Client IP
▶ ●	15/06 09:31:53	124.218.53.34
▶ ●	15/06 09:31:52	124.218.53.34
▶ ●	15/06 09:31:50	124.218.53.34
▶ ●	15/06 09:31:49	124.218.53.34
▶ ●	15/06 09:31:47	124.218.53.34



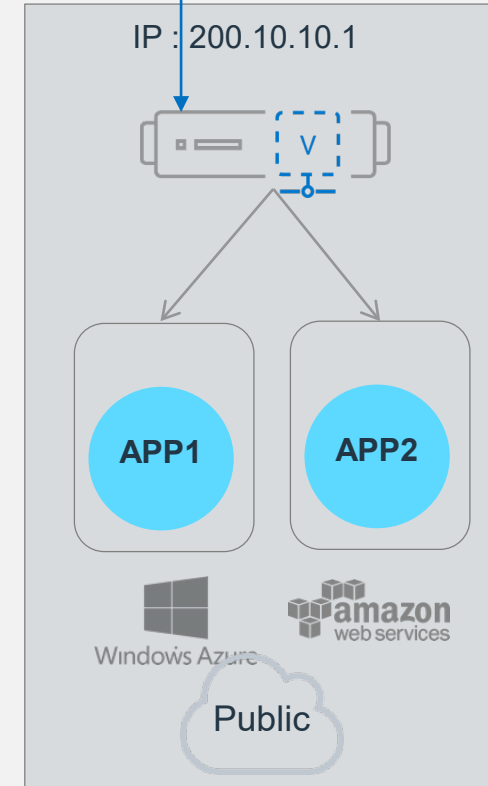
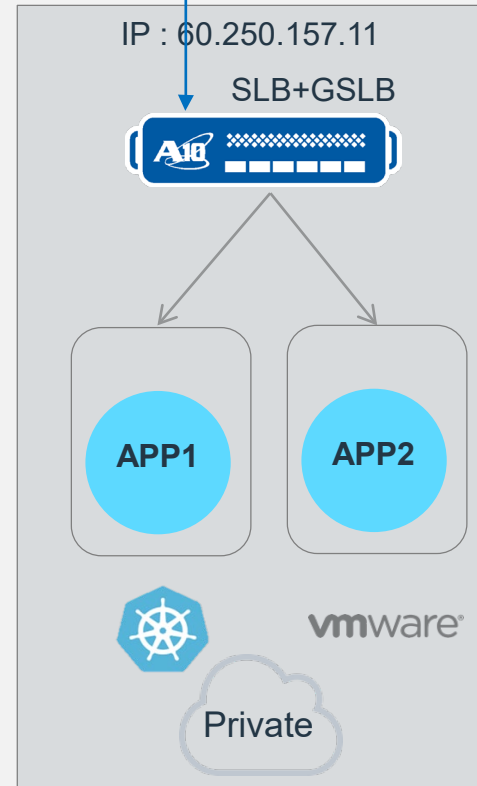
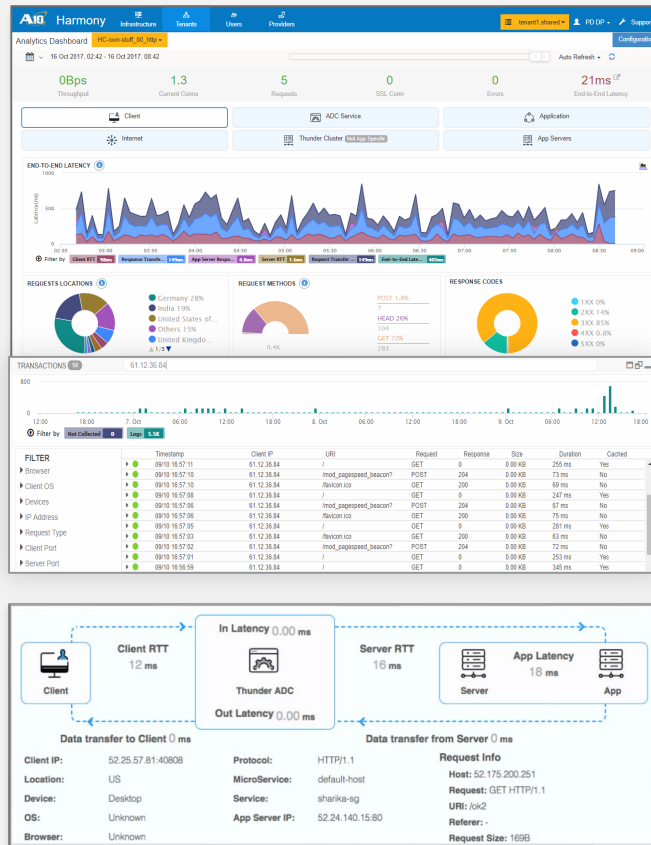
Client IP: 124.218.53.34:7139
Location: TW
Device: Desktop
OS: Windows
Browser: Internet Explorer
Avg Transfer Rate: --

VIP: Wordpress
vPort: 80
Protocol: HTTP/1.1
Service: Web-Severs
Server IP: 10.0.57.40
Start Time at ADC: 2018-06-15 09:31:33
End Time at ADC: 2018-06-15 09:31:42

Request Info
Host: 192.67.159.198
Request: POST HTTP/1.1
URI: /
Referer: -
Request Size: 307B
User Agent: Mozilla/4.0 (compatible...

Response Info
Response Length: 414B
Response Code: 404
Method: POST
Cached: No

Multi-Cloud Management



Centralized Management

Service Provider 加值服務

The screenshot displays the Service Provider website interface. At the top, there is a navigation bar with links for '網站公告' (Website Notice), 'english', '企業用戶' (Corporate User), and '個人用戶' (Personal User). Below this, a secondary navigation bar includes '網路門市' (Network Store), '產品·資費' (Products & Rates), '我的專區' (My Area), '用戶服務' (User Service), and '企業用戶' (Corporate User). The '用戶服務' section is highlighted with a red underline.

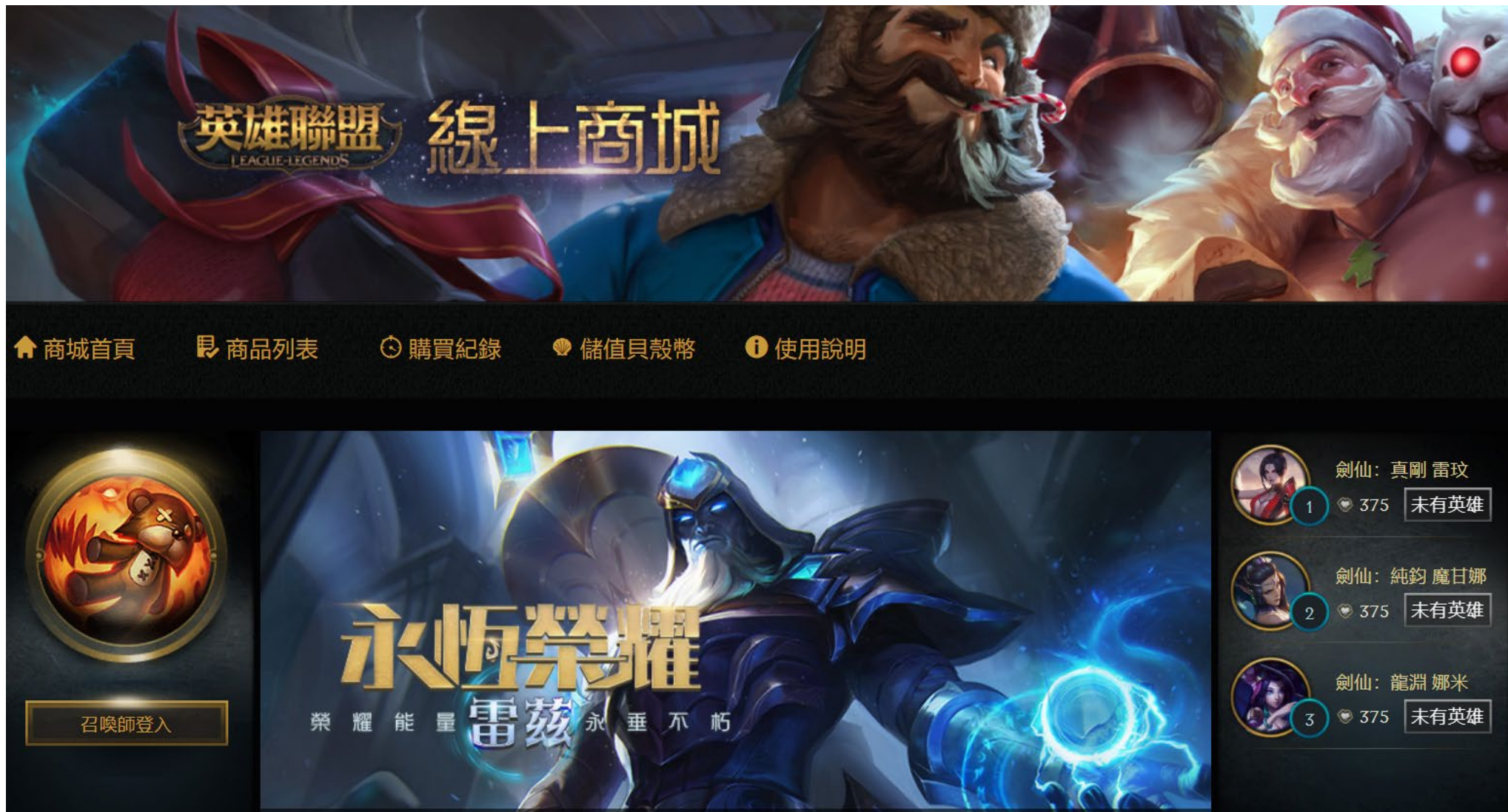
On the left side, there is a sidebar with a '4G優惠' (4G Promotion) section and a '本公司3G轉4' (Our Company 3G to 4G) section. Below these, there is a '影' (Video) section and a 'Fu' (Fu) section.

The main content area is divided into four columns:

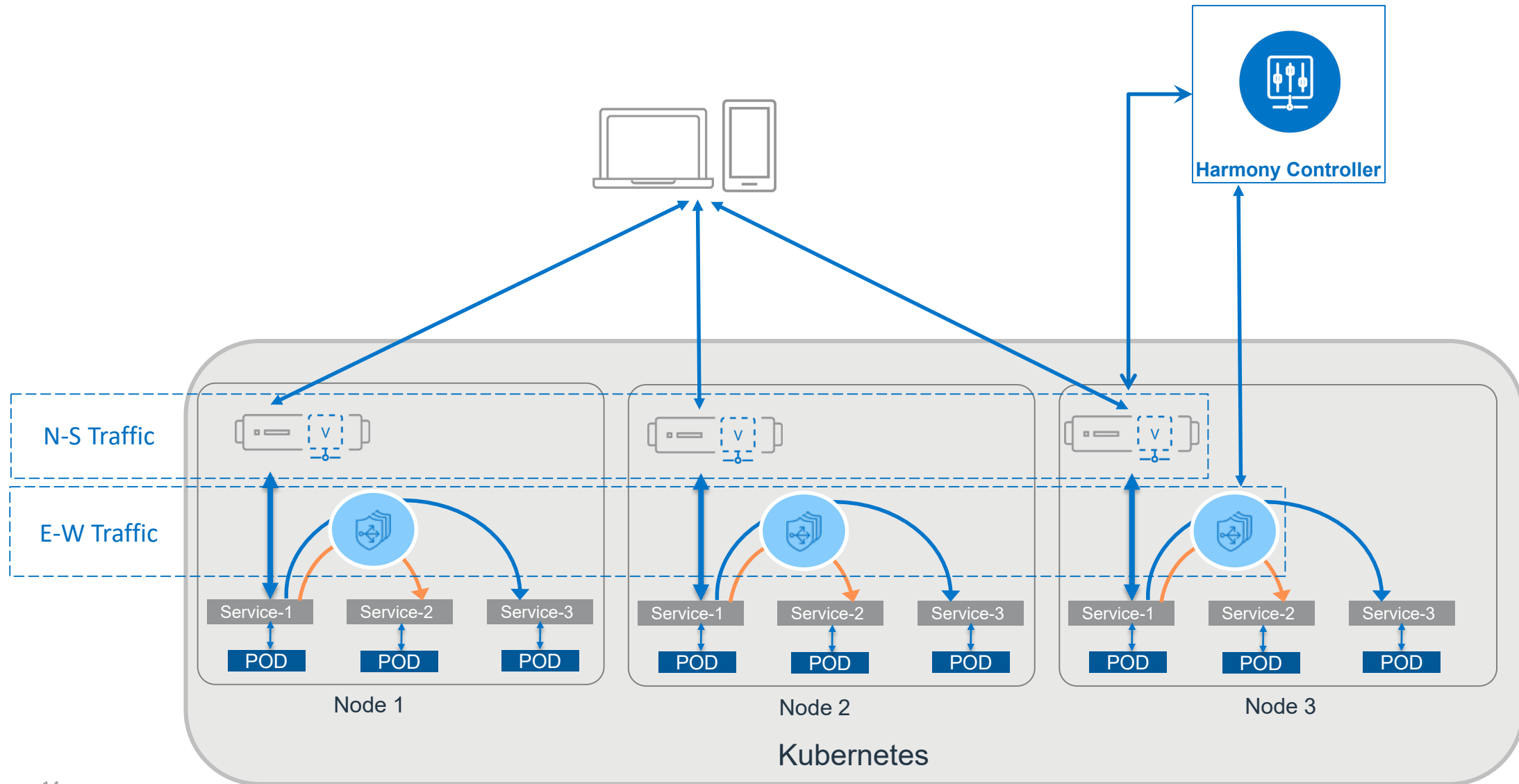
- 熱門服務 (Popular Services):**
 - 帳單查詢 (Bill Inquiry)
 - 帳單明細 (Bill Details)
 - 未出帳金額/上網用量 (Unpaid Amount / Usage)
 - 我要繳款 (I want to pay)
 - 繳費/交易/發票查詢 (Payment / Transaction / Invoice Inquiry)
 - 合約資訊查詢 (Contract Information Inquiry)
 - 續約搶先看 (Renewal Preview)
- 服務類別總覽 (Service Category Overview):**
 - 帳單/繳費/儲值 (Bill / Payment / Top-up)
 - 合約/費率 (Contract / Rate)
 - 門號服務/漫遊 (Number Service / Roaming)
 - 異動/交易紀錄 (Change / Transaction Record)
- 資訊/公告 (Information / Notice):**
 - 行動客服App (Mobile Customer Service App)
 - 網路涵蓋率查詢 (Network Coverage Inquiry)
 - 網內外門號查詢 (In/Out Network Number Inquiry)
 - 維修服務專區 (Repair Service Special Area)
 - 服務公告 (Service Notice)
 - 門市據點查詢 (Store Location Inquiry)
 - 客服中心 (Customer Service Center)
- 4.5G 網路品質 (4.5G Network Quality):**
 - friDay服務專區 (friDay Service Special Area)
 - 遠傳社群 (FarEasTone Community)
 - 鹿talk社 (DeerTalk Society)
 - 遠傳粉絲團 (FarEasTone Fan Club)
 - 遠傳影片頻道 (FarEasTone Video Channel)

At the bottom of the main content area, there is a large banner with the text '數位加值精彩人生' (Digital Value, Wonderful Life) and '愛 就給家人更好的' (Love, give family better). Below the banner, there is a red line and a small 'Hamid' logo.

Online Game



Container ADC Deployment



FinTech / 3rd-Party Service Provider (TSP)

iThome



【開放銀行特別報導】財金開放API平臺終於上路，23家銀行與6家TSP搶先布局，但下一階段才是更大的挑戰

Open API不只是單向地，將銀行的資料釋出給TSP業者而已，TSP開始成為引導顧客消費更多銀行商品的導購平臺，甚至可以成為消費者使用不同金融服務的新入口。TSP將更多顧客和商品消費需求，透過Open API帶進了銀行，開放銀行雙向互惠的效益，開始在臺灣發酵。

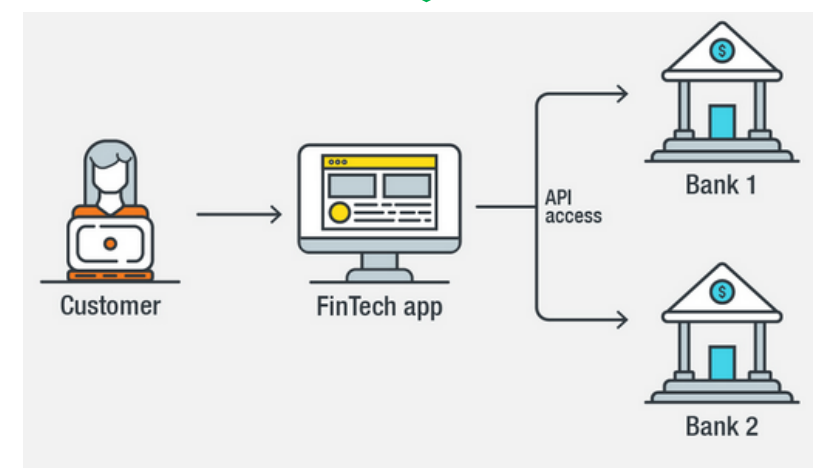
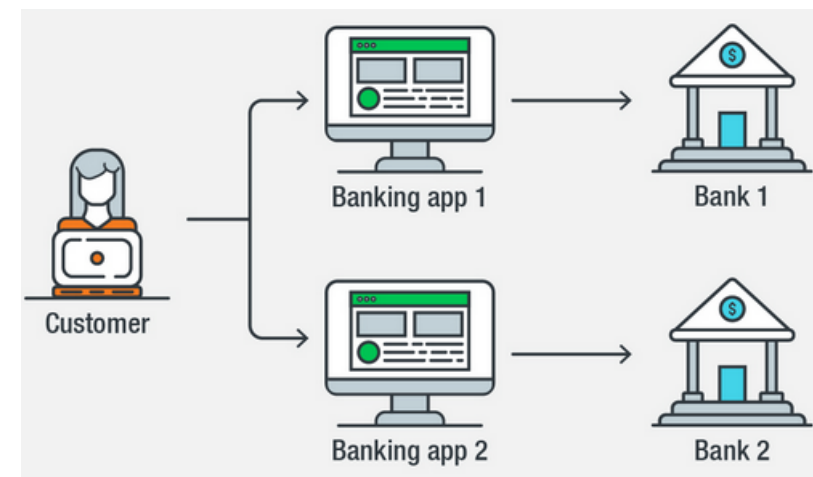
文/ 王宏仁 | 2019-10-16 發表

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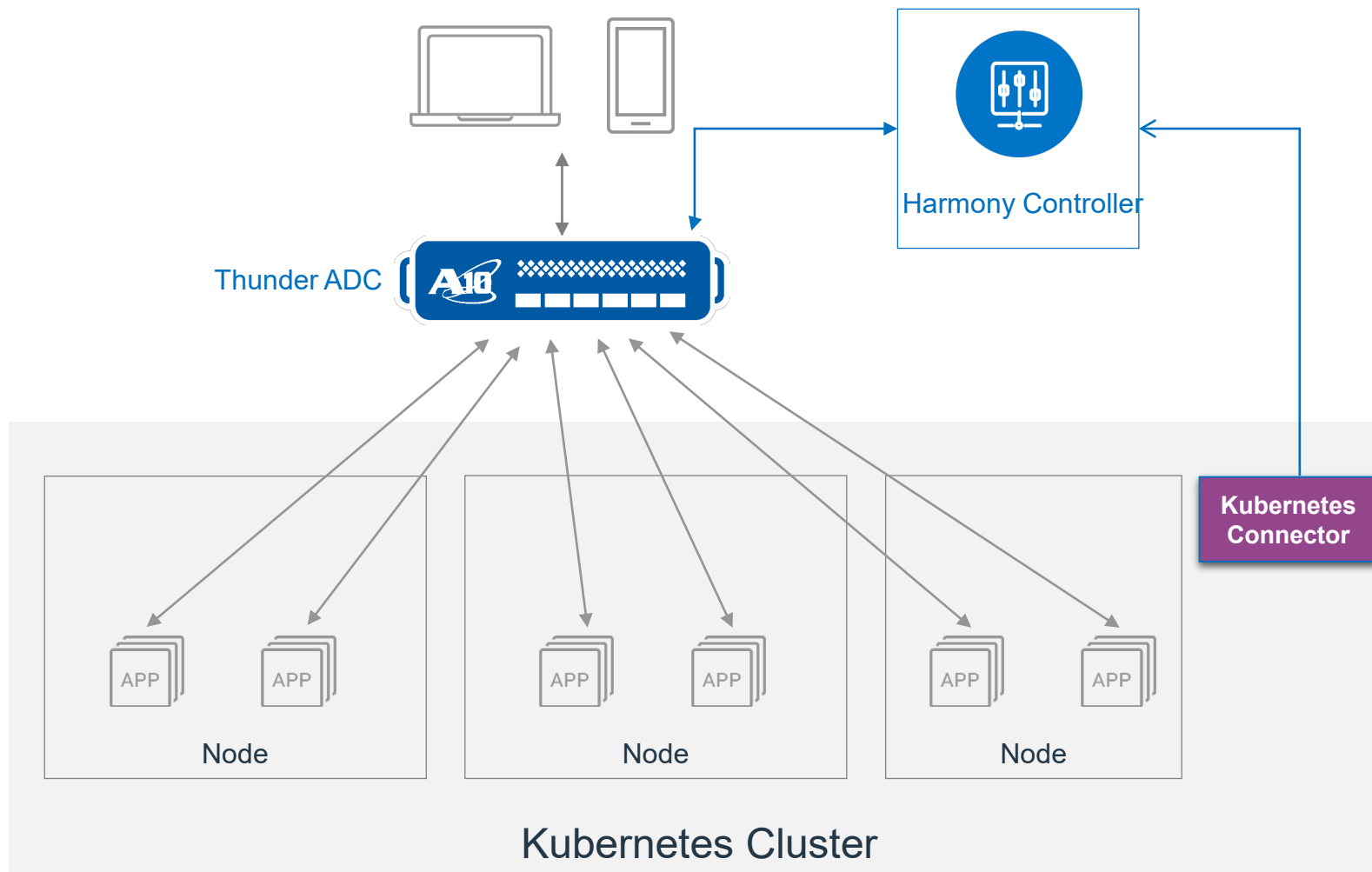
按讚加入iThome粉絲團

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分享



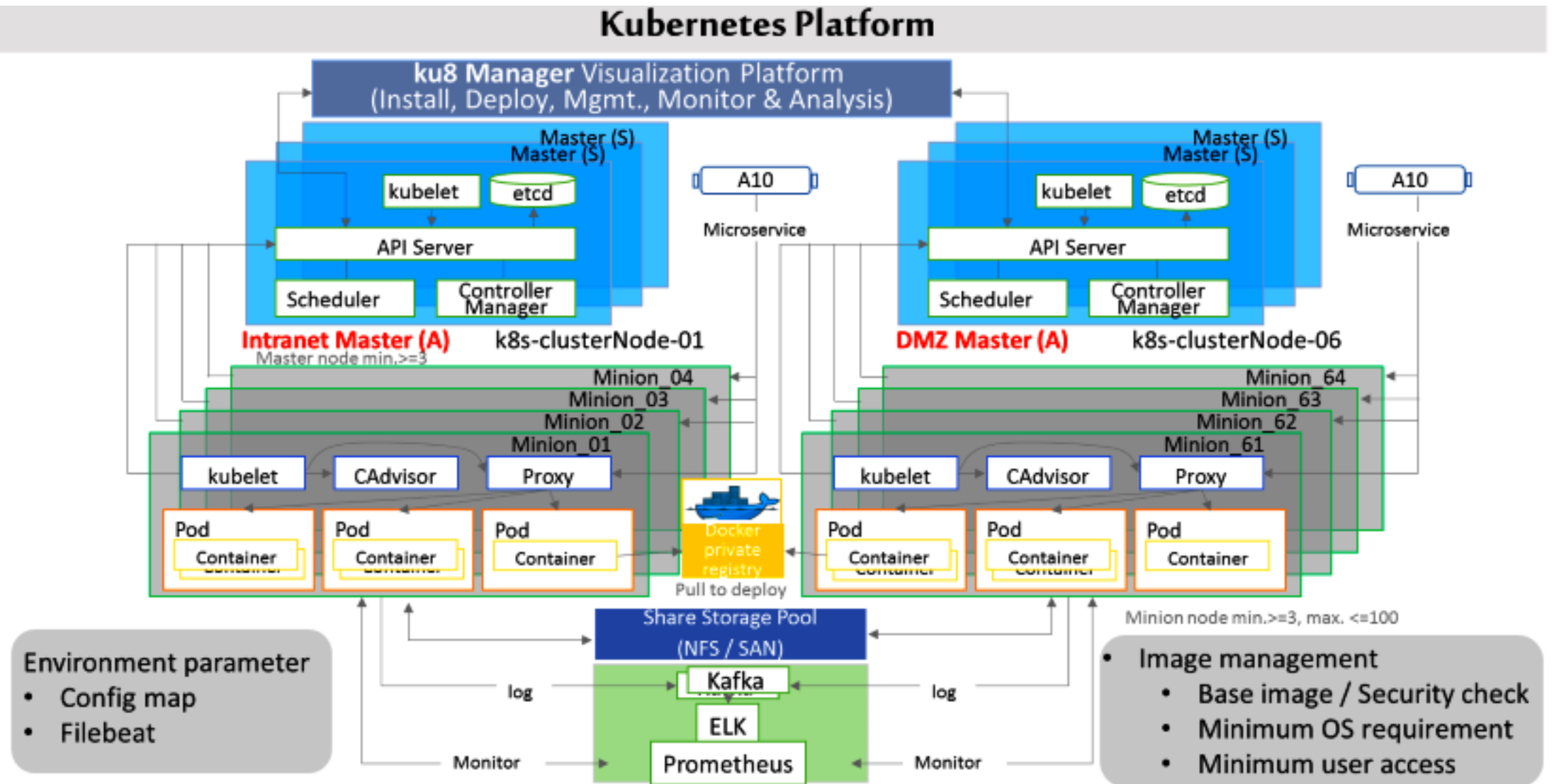
Auto Scaling Deployment



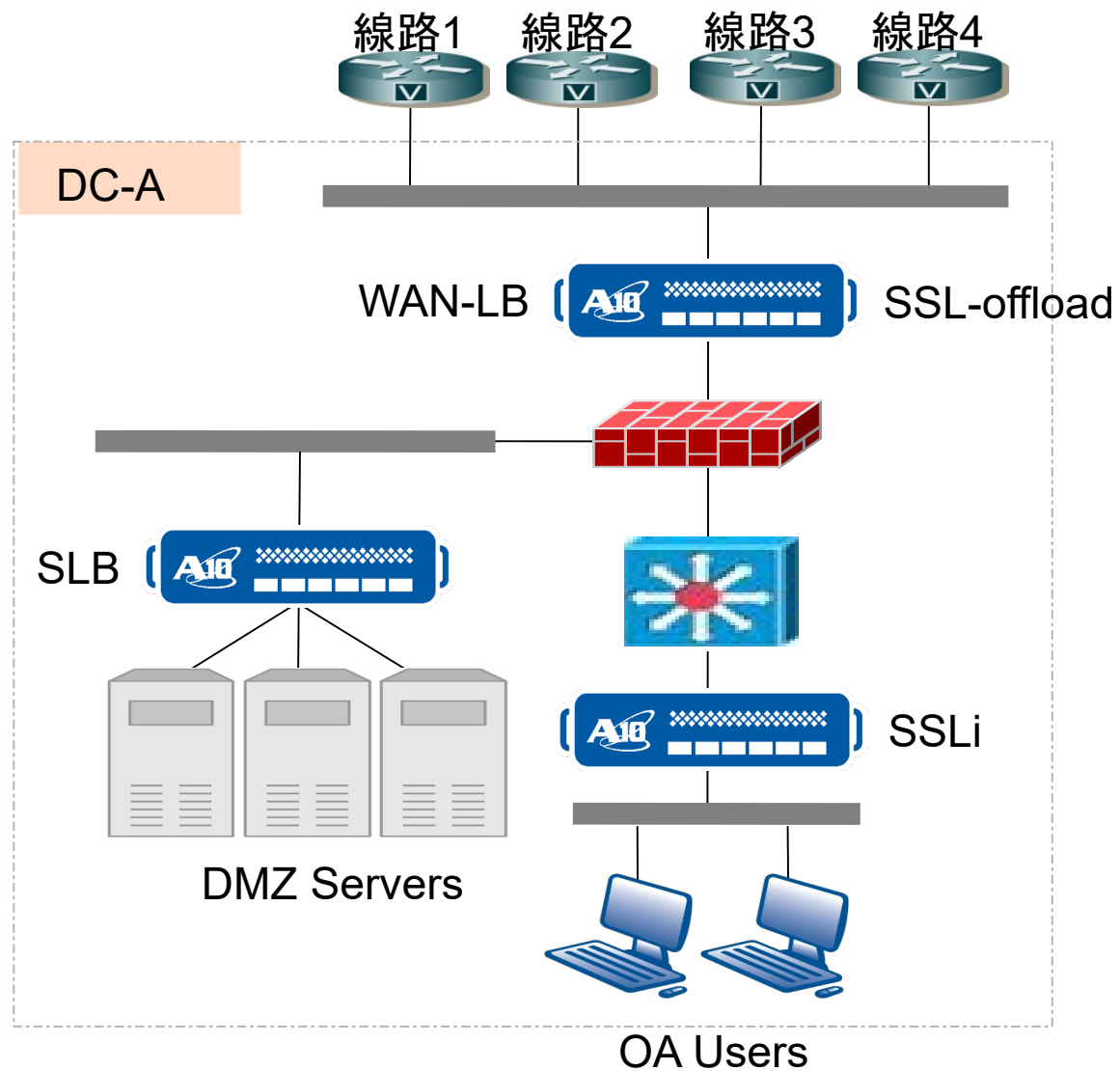
- Container-native application (microservices) are automatically deployed with each new node
- Harmony controller connect to Thunder ADC and configure automatically
- Metrics/Logs flow from Thunder ADC to the Harmony Controller
- Kubernetes Connector detects changes in application service scale and communicates new config to Thunder ADC via Harmony controller

ADC for Kubernetes Cluster

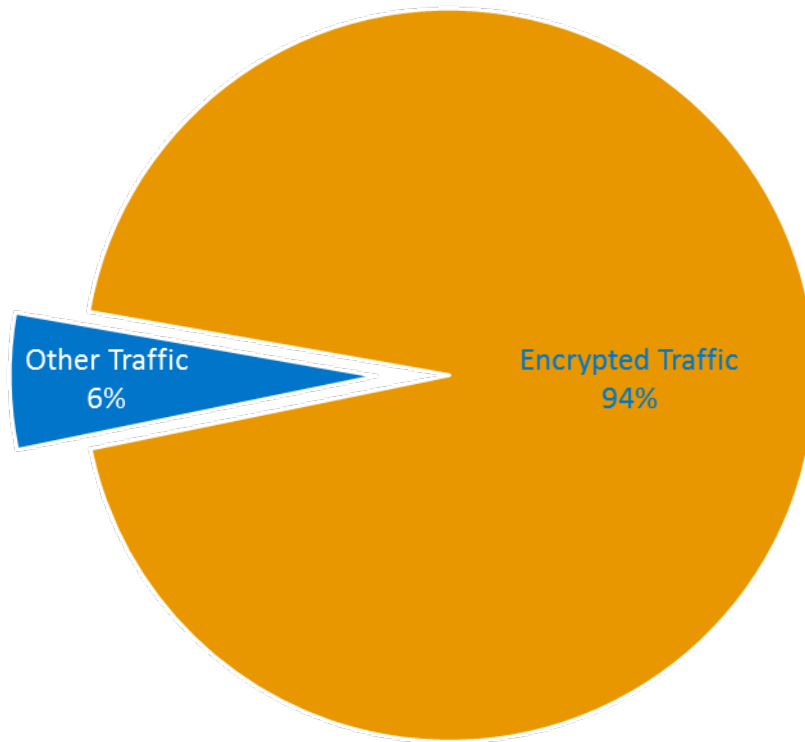
Source : iThome <https://www.ithome.com.tw/news/133298>



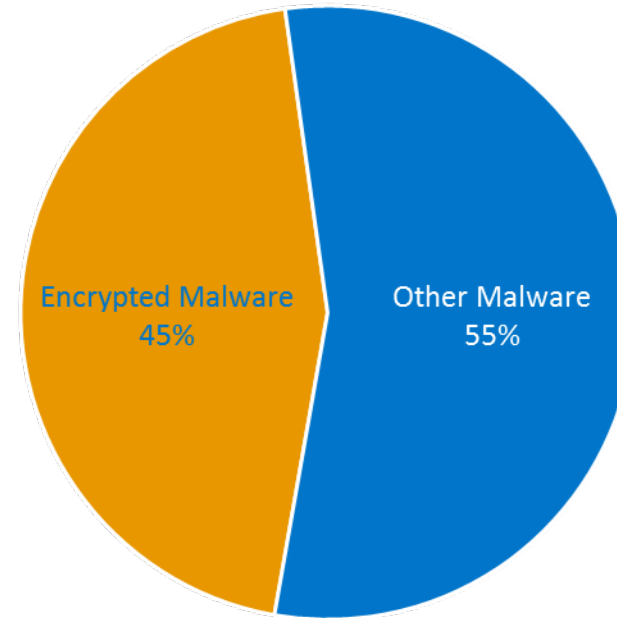
Secure ADC Deployment



The Encrypted Blind Spot is Growing

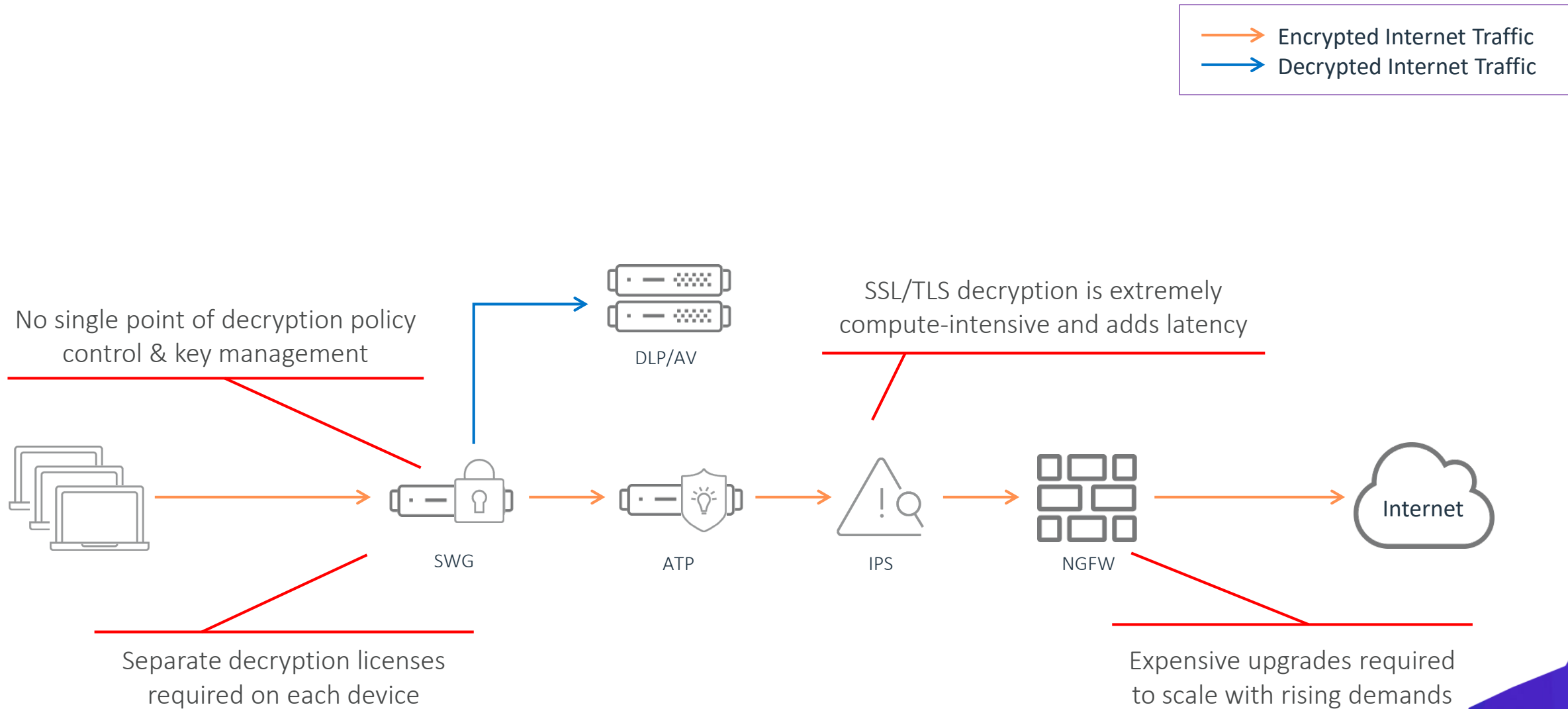


94% of all internet traffic is encrypted

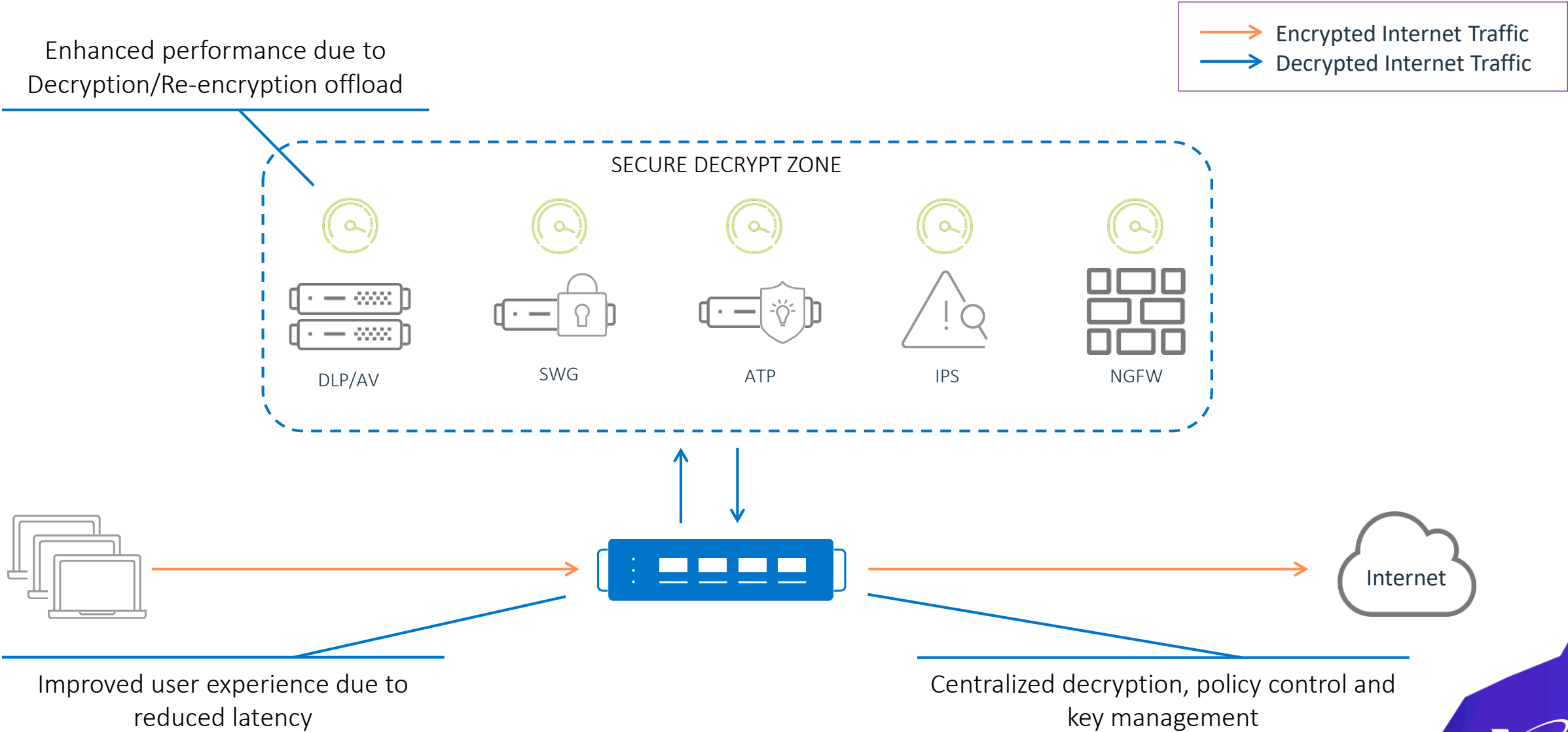


Almost half of cyber attacks use encryption to evade security

Security and Scale Problems

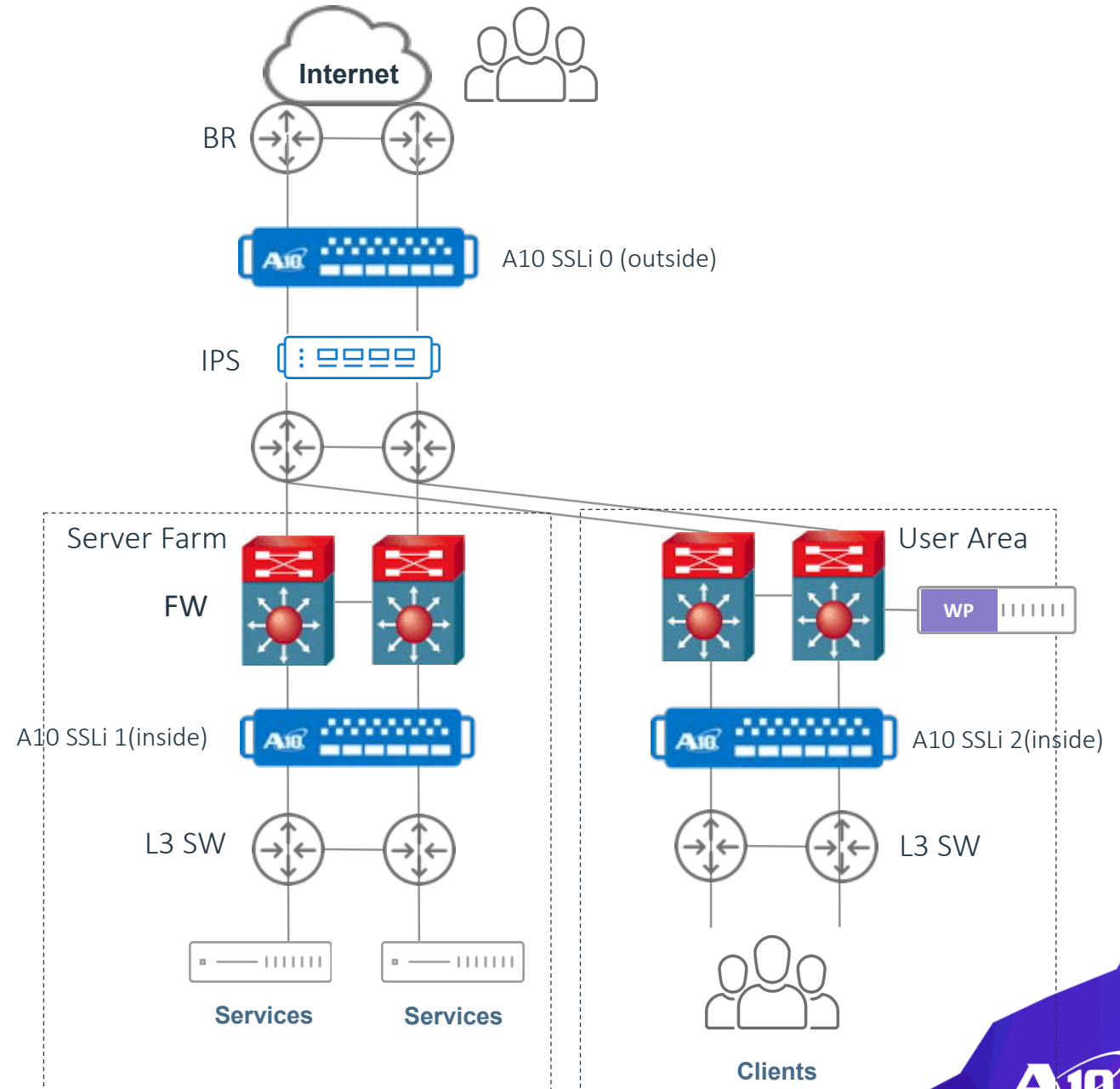


Enhance Performance with Secure Decrypt Zone

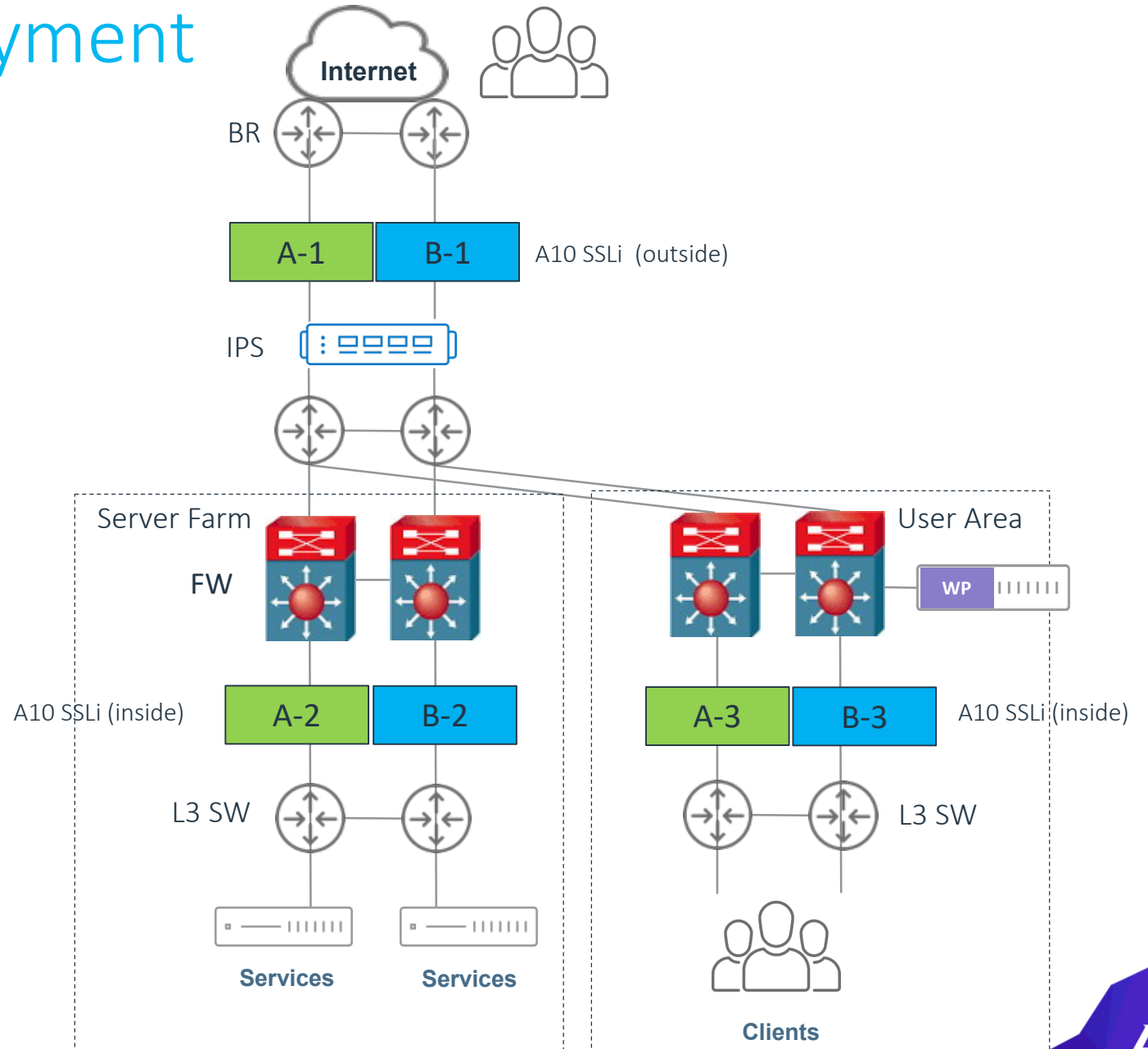
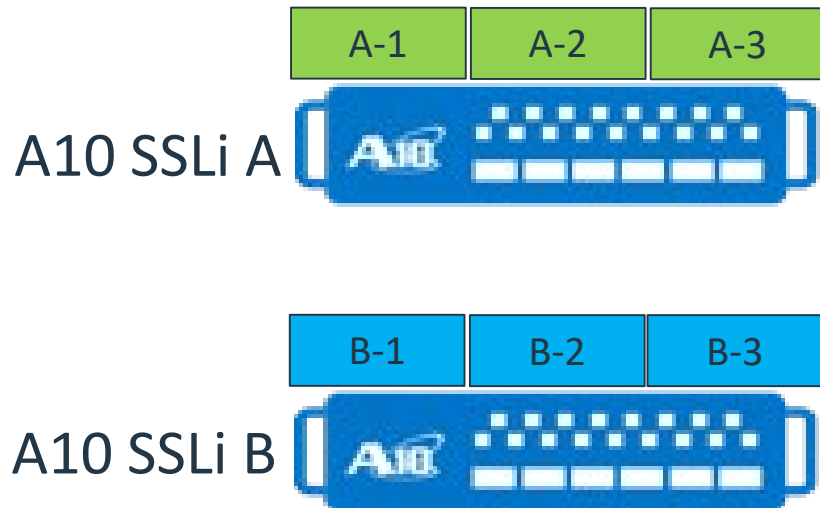


Government / Enterprise

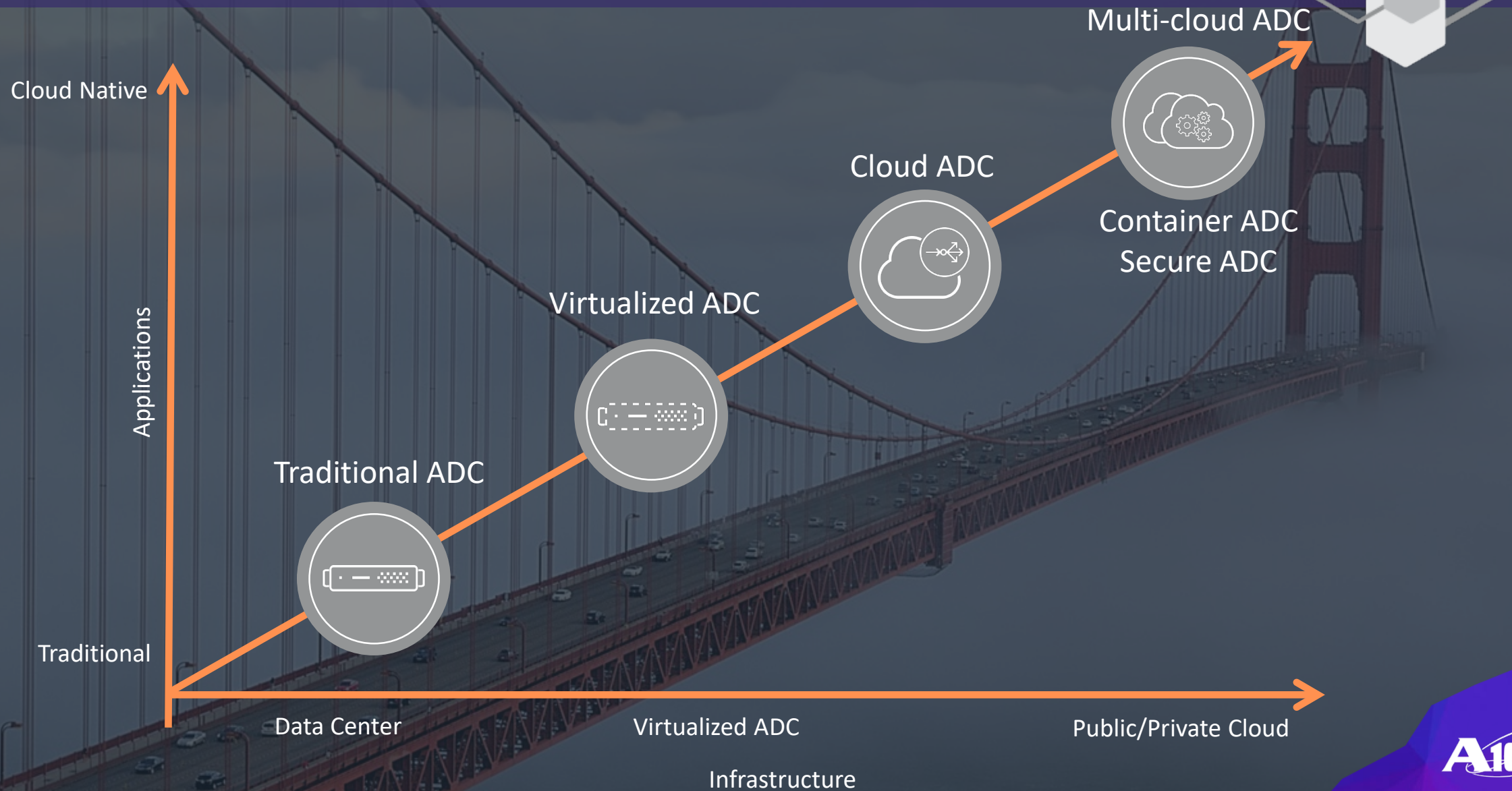
- 提升整體資安防禦
 - Decrypt 70% encrypted traffic
 - Server Farm Protection
 - User Area Protection
- 保留現有資安投資
 - Focus on SSL decrypt/encrypt
- 架構彈性
 - L2/L3 Security Devices Integration



Secure ADC HA Deployment



Application Delivery Evolution



THANK YOU



Reliable Security Always™

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