



# Azure Cost and Lifecycle

---

Alan Tsai



# 這節主要重點



- 管理好費用
  - 影響費用的因素
  - 計算 Total Cost of Ownership (TCO)
  - Pricing Calculator
- Service Level Agreement (SLA) 以及 Lifecycle

# 管理好費用





# 影響費用的幾個因素



- 使用什麼 Resource
  - 一般來說 PaaS 比 IaaS 貴
- 什麼類型的 Subscription
  - 長期客戶可以簽 Enterprise Agreement (EA) 費用比較便宜
- 放在那裡
  - Region 不同，收費也會不同



# 影響費用的幾個因素



- 網路頻寬
  - 進入到 Azure 不用錢
  - 兩個 Azure Region 還是要收費
    - Inter vs Egress

[Bandwidth Pricing Details](#)



# 影響費用的幾個因素



- Reserved Instance

- 先預買 3 年最高可以省下 72%

- Spot Instance

- 機器可以隨時被回收

- Hybrid Benefit

- 使用已有的 License – 減少 License 費用



# Pricing Calculator



- [Pricing Calculator](#)
- 能夠預估出所需要的費用

The screenshot shows the Microsoft Azure Pricing Calculator interface. The top navigation bar includes links for Overview, Solutions, Products, Documentation, Pricing (selected), Training, Marketplace, Partners, Support, Blog, and More. A search icon, Portal link, and 'Free account' button are on the right. The main section is titled 'Your Estimate' and displays a configuration for 'Virtual Machines' with 1 D2 v3 (2 vCPUs, 8 GB RAM) in the AHV for Windows Server... configuration. The pricing is shown as 'Upfront: \$0.00' and 'Monthly: \$37.10'. Below this, the 'Support' section shows 'Included' support for \$0.00. The 'Programs and Offers' section shows the 'Microsoft Online Services Agreement' licensing program. A toggle for 'SHOW DEV/TEST PRICING' is currently turned off. At the bottom, the 'Estimated upfront cost' is \$0.00 and the 'Estimated monthly cost' is \$37.10. There are buttons for 'Export', 'Save', 'Save as', and 'Share'. A currency dropdown is set to 'US Dollar (\$)'. At the very bottom, there are toggles for 'DISPLAY SKUS' and 'DISPLAY RESOURCE IDS', both of which are turned off.

Overview Solutions Products Documentation **Pricing** Training Marketplace Partners Support Blog More

Q Portal **Free account**

### Your Estimate

Virtual Machines 1 D2 v3 (2 vCPUs, 8 GB RAM); AHV for Windows Ser... Upfront: \$0.00 Monthly: \$37.10

#### Support

SUPPORT: Included \$0.00

#### Programs and Offers

LICENSING PROGRAM: Microsoft Online Services Agreement

☒ SHOW DEV/TEST PRICING

**Estimated upfront cost** \$0.00  
**Estimated monthly cost** \$37.10

Export Save Save as Share

US Dollar (\$)

☒ DISPLAY SKUS ☒ DISPLAY RESOURCE IDS



# Total Cost of Ownership

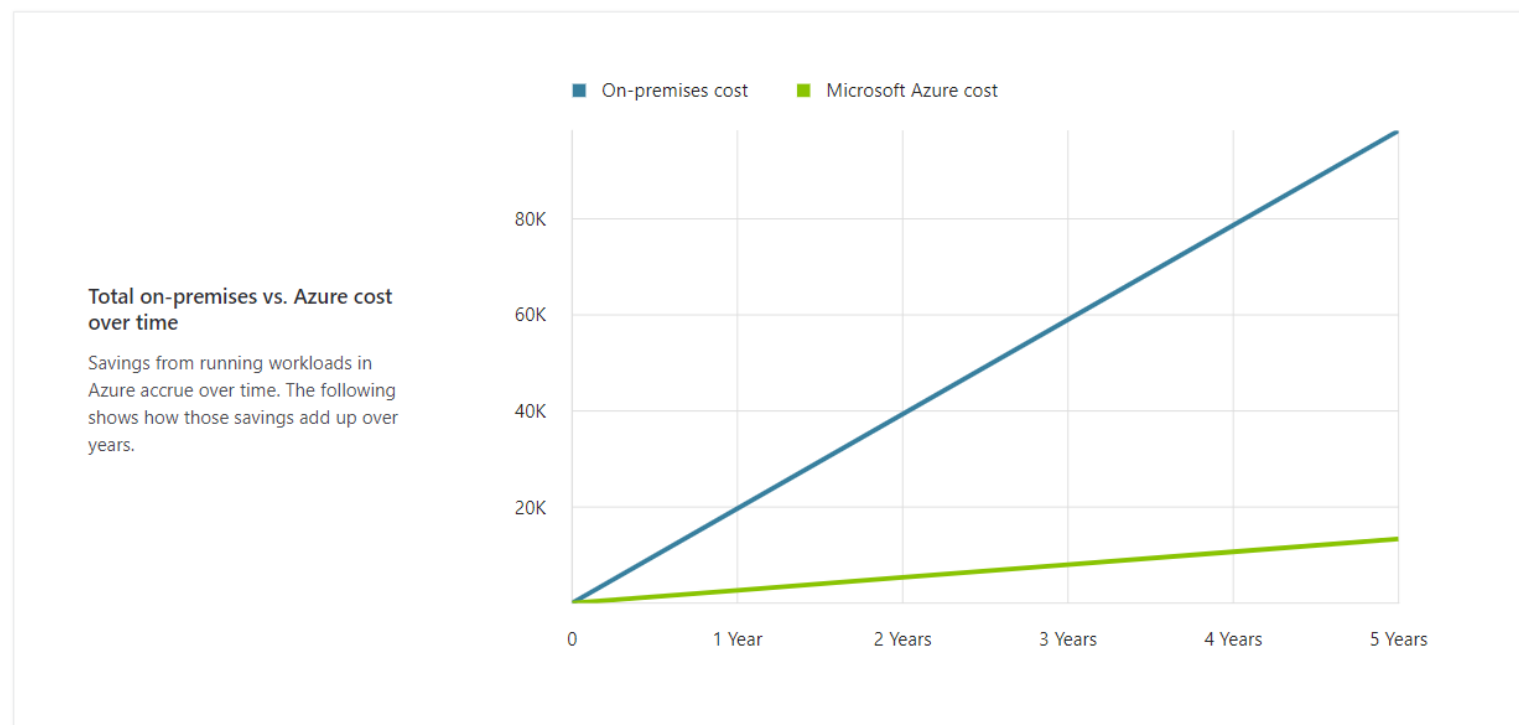


- Total Cost of Ownership (TCO) Calculator

Over 5 year(s) with Microsoft Azure, your estimated cost savings could be as

much as **\$85,003**

- 整體考量進去



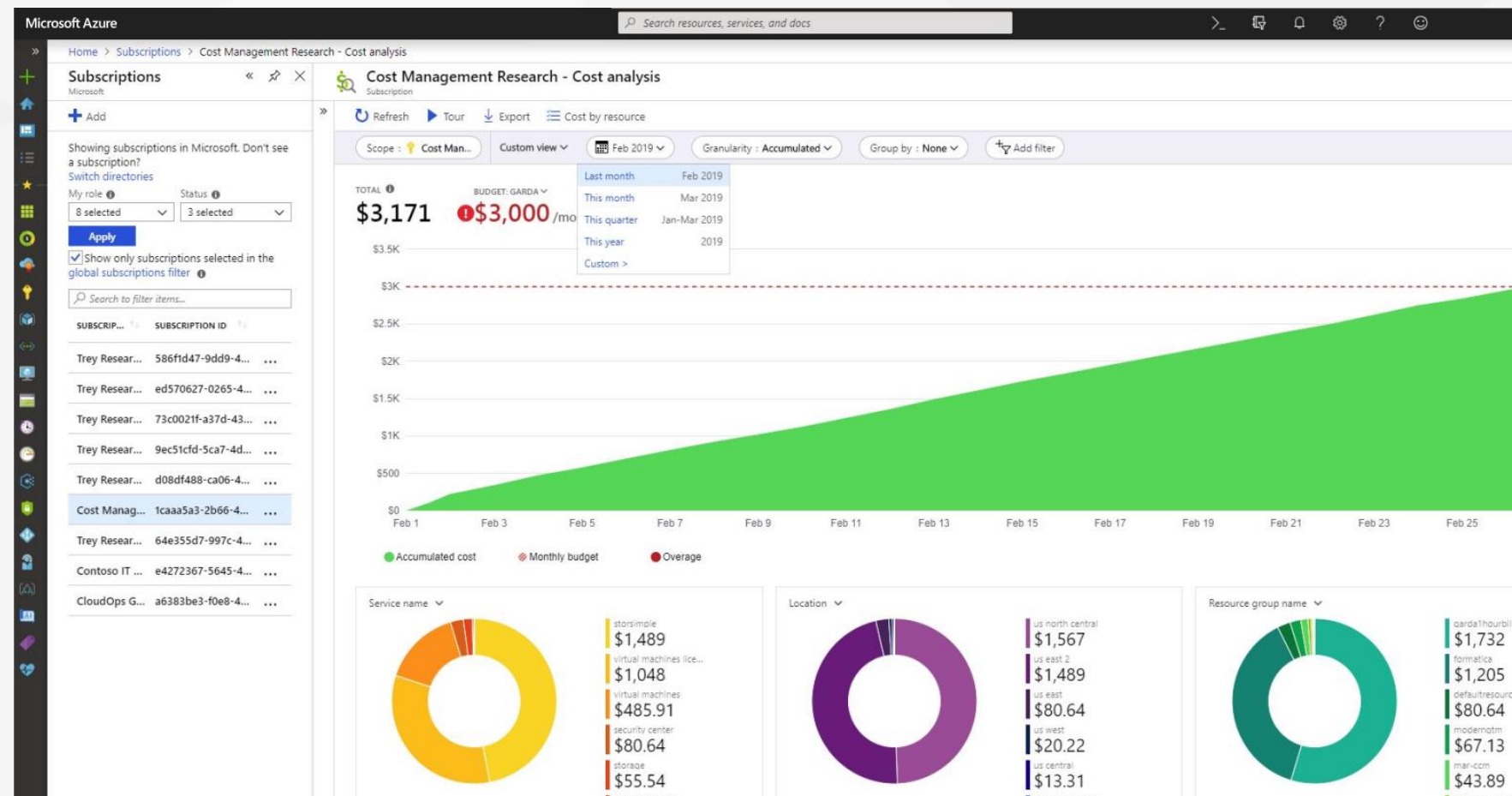




# Azure Cost Management



- 實際分析費用
- 可以設定預算



# SLA 以及 Lifecycle





# SLA



- Service Level Agreement
- 微軟保證服務不中斷
- 每個 Service 不同
- [SLA](#)
- [SLA Calculator](#)

SLA	Downtime per month
99%	7h 18m 17s
99.5%	3h 39m 8s
99.9%	43m 49s
99.95%	21m 54s
99.99%	4m 22s
99.999%	26s



# Preview 和 GA



- Preview
  - 有些功能剛推出
  - 處於嘗試階段
  - 一般費用比較低，沒有 SLA
  - <https://preview.portal.azure.com/>
- General Availability (GA)
  - 一般表示穩定
- 可以從 [Azure Update](#) 知道情況

# 結語





- 怎麼管控費用
  - Total Cost of Ownership – 移轉前評估
  - Pricing Calculator – 使用前預估
  - Cost Management (Analysis) – 事後分析
- SLA
  - 了解服務的可用程度
- Preview vs GA



# 參考資料



- **Azure Fundamentals part 6: Describe Azure cost management and service level agreements**



# 歡迎訂閱、按贊 + 分享



- Alan Tsai 的學習筆記
- <https://blog.alantsai.net>
- FB粉絲頁
- <http://fb.alantsai.net>
- Youtube
- <http://yt.alantsai.net>



[contact@alantsai.net](mailto:contact@alantsai.net)

@Alan Tsai 的學習筆記