釋放企業AI潛能

從創新 VMware Private AI 平台開始

Evan Huang Broadcom 軟體事業群技術副總 2025/09/04



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Virtualize AMD Instinct MI350 Series GPUs

Leverage AMD Enterprise AI Software Open Ecosystem Support

議程

- 企業導入 AI 的挑戰及考量
- VMware Private AI 滿足企業 AI 需求
- Demo:輕鬆建立企業專屬 Al Agent



搭建企業與政府機構 Private AI 平台的關鍵考量

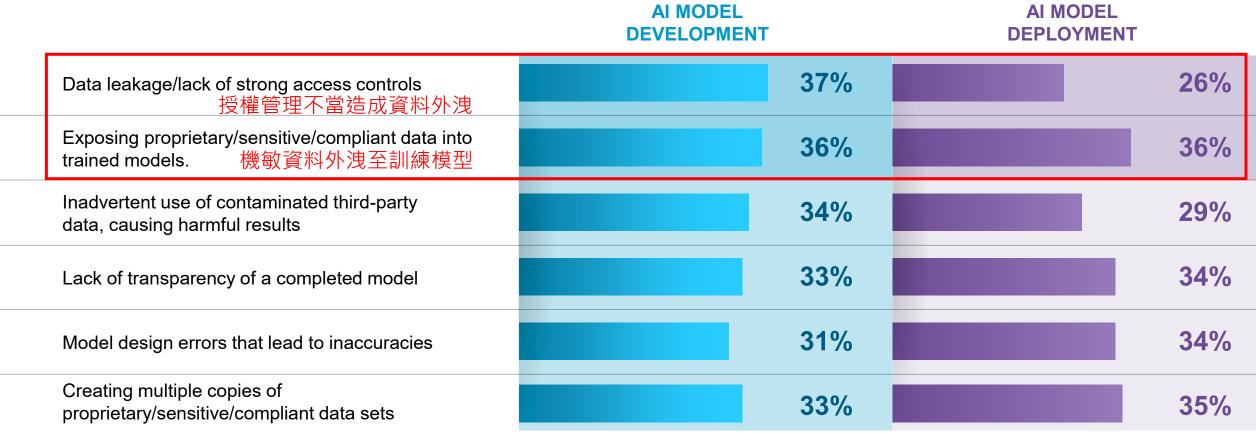


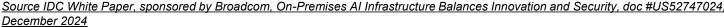


其中,隱私安全是導入AI的首要前提

Top Risks Associated with Al Model Development and Deployment

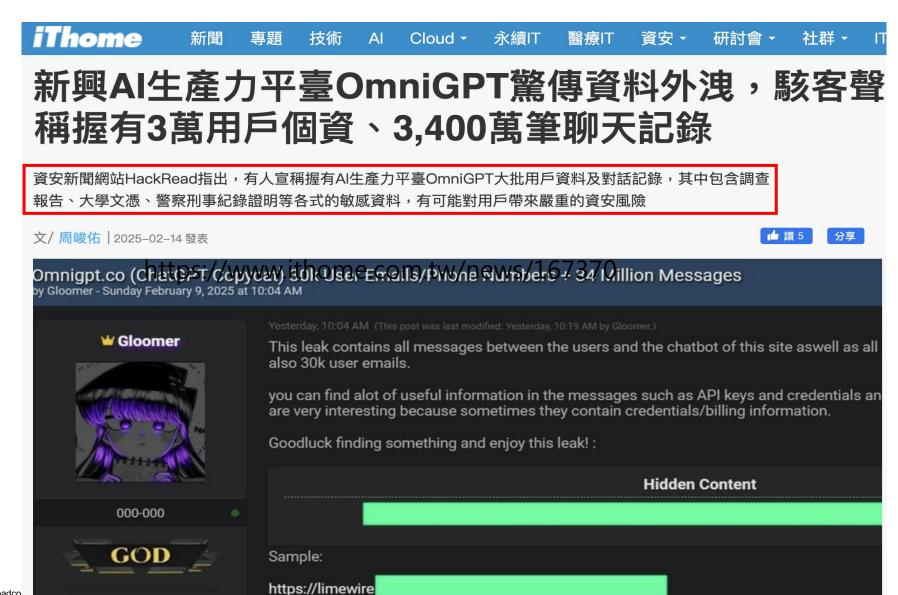
What are the top risks that your organization associates with developing and/or deploying Al models? (Percentage of respondents)







AI 機敏及隱私資料外洩案例頻傳,嚴重性不言可喻





市面主流AI服務提供者也可能發生資料外洩

OpenAI 真實事件:用戶可看到他人資料

March 24, 2023 Product

March 20 ChatGPT outage: Here's what happened

An update on our findings, the actions we've taken, and technical details of the bug.

We took ChatGPT offline earlier this week due to a bug in an open-source library which allowed some users to see titles from another active user's chat history. It's also possible that the first message of a newly-created conversation was visible in someone else's chat history if both users were active around the same time.

The bug is now patched. We were able to restore both the ChatGPT service and, later, its chat history feature, with the exception of a few hours of history. As promised, we're publishing more technical details of this problem below.

https://openai.com/index/march-20-chatgpt-outage/

ChatGPT 提示:為避免資料外洩,用戶須自行控制承擔風險

【當心提示注入、敏感資訊洩漏、錯誤資訊等問題】 生的LLM資安風險

生成式AI不當使用出現實際案例!臺灣有北捷AI客服可代寫程式碼,國外有三星員工將內部資料上傳至公用服務,以及美國律師誤用AI虛構判例打官司,均具體呈現LLM在不同層面的潛在風險

文/羅正漢 | 2025-04-18 發表

← → C ◇ A https://chatgpt.com

☆ ② ② ⑤ 台 ≡



近年來大型語言模型爆紅,帶來新的機會,也帶來風險與挑戰,需要我們去注意,AI服務供應商也會不厭其煩,提醒使用者注意。例如,大家用 熱門的ChatGPT服務時,AI在一開始就會宣告:請勿分享敏感資訊、查核事實,此舉就是希望用戶必須認知到相關風險。

https://www.ithome.com.tw/news/167370



一步到位搭建安全 Private AI 平台,才能避免風險並實現 AI 效益









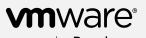


典型組織內部,往往有多個業務或組織平行執行多項 AI 專案/系統

如何快速高效執行,避免相互影響,並且符合一致化的治理規範?



有哪些模型可以有哪些是否治療力資源?剩下多少可用的恆處理、使用確稱 GPU 與模型運行狀態?



統一 Private Al 平台 – 模型倉儲 (Model Store)

選擇 隱私 合規

降低 IT 團隊負擔,提高 AI 團隊生產力

統一 Private AI 平台 AI 團隊



選擇模型

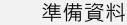


搭建環境



部署模型

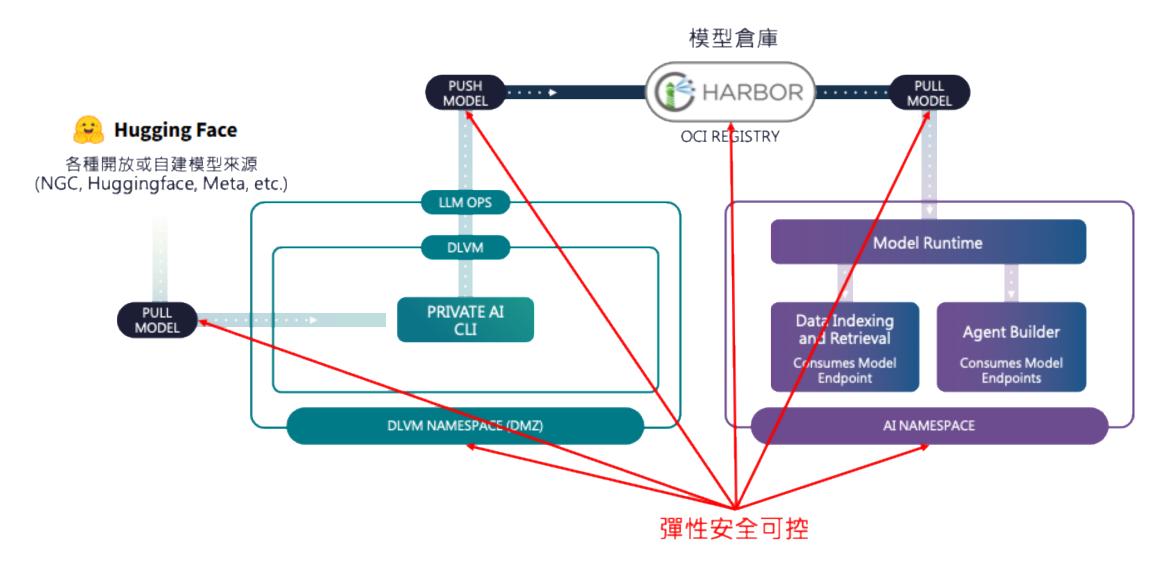






開發應用 (上線)

使用 Harbor 作為模型倉庫,管理模型

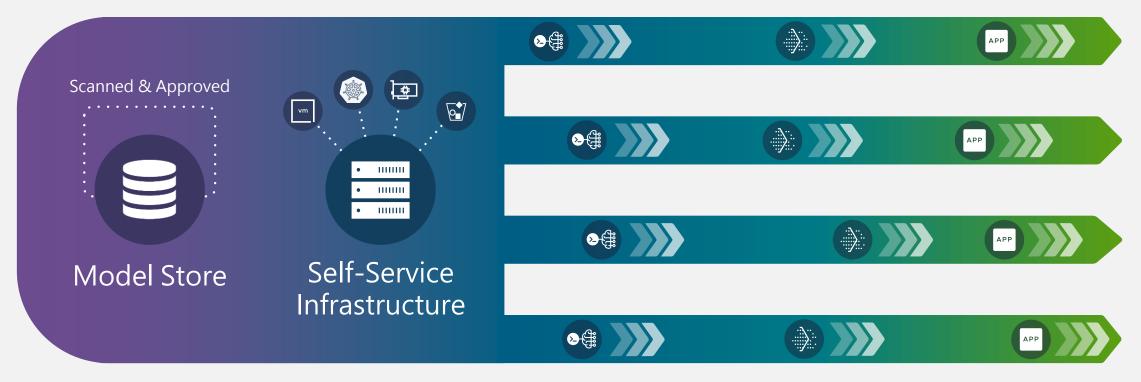




統一 Private AI 平台 – 自助自動依政策生成 AI 環境

降低 IT 團隊負擔,提高 AI 團隊生產力

統一 Private AI 平台 AI 團隊



選擇模型

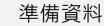


搭建環境



部署模型

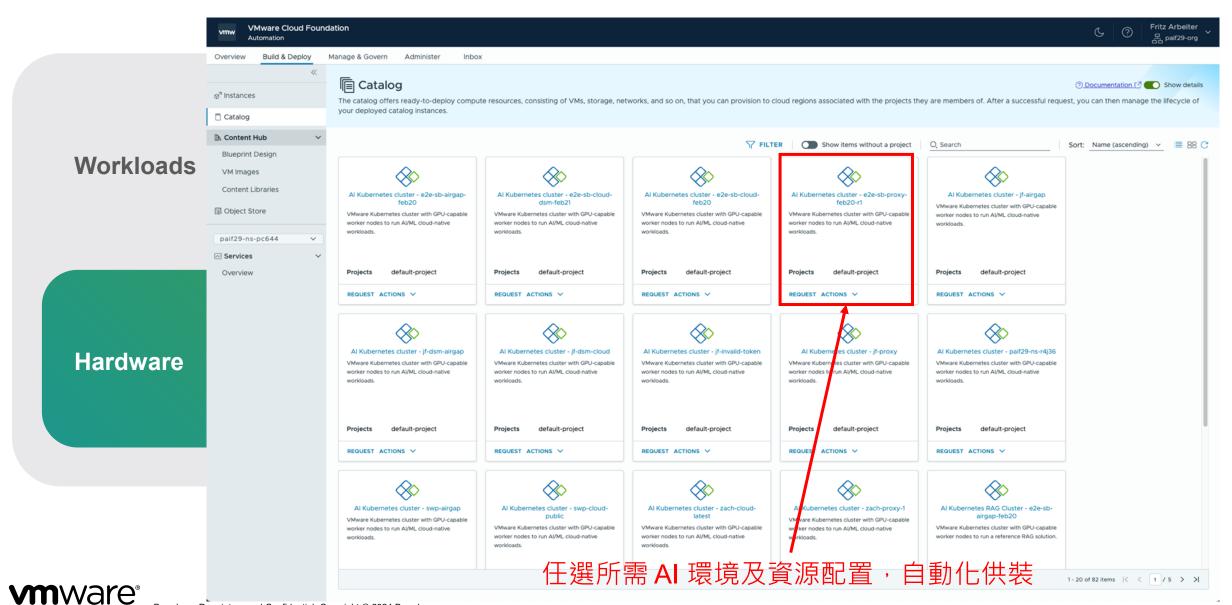






開發應用(上線)

使用目錄選單方式隨需自動化部署環境、設定政策、配置資源



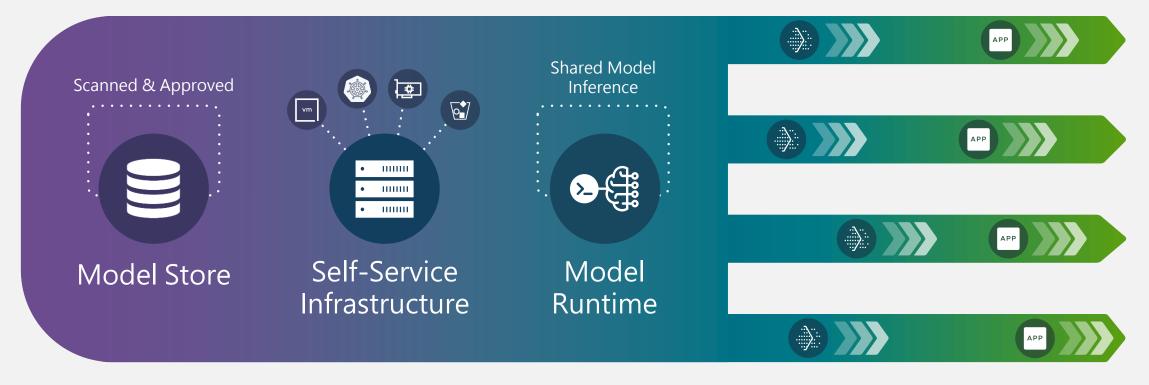
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統一 Private AI 平台 - 部署模型至 AI 運行平台

降低 IT 團隊負擔,提高 AI 團隊生產力











搭建環境



部署模型



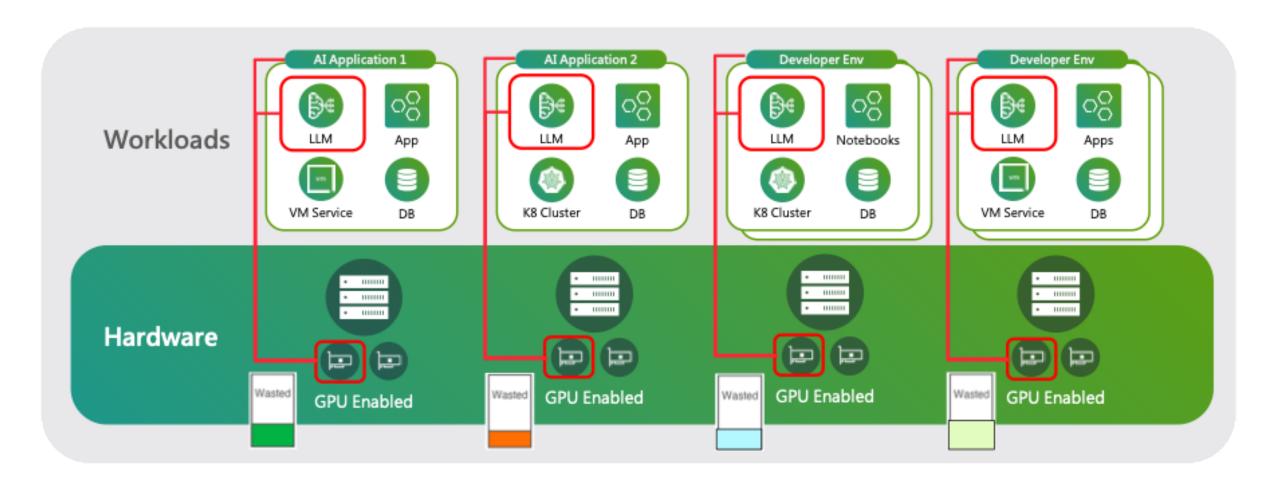




開發應用(上線)



配置專屬 GPU 給特定模型及應用,容易浪費寶貴資源

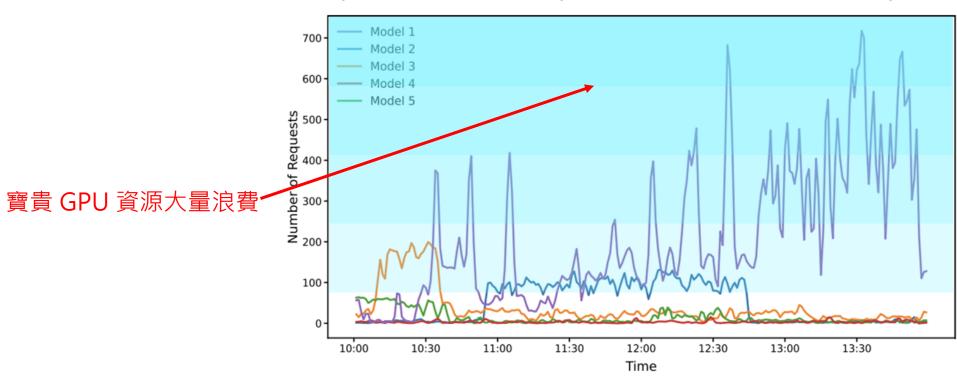




GPUs are significantly underutilized because

Inference loads change drastically with time

Request rates over a 4-hour period from an LLM inference service provider



GPUs are overprovided for peak load, so underutilized during off peak

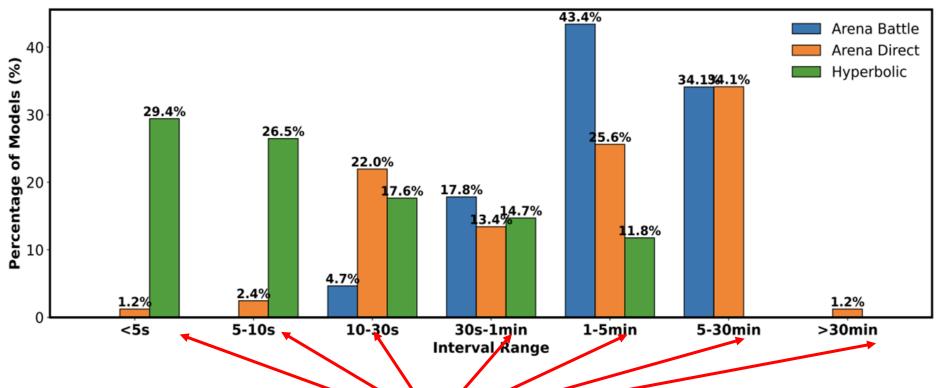
Jiarong Xing and the Prism team



GPUs are significantly underutilized because

Long idle periods between request bursts

Median Request Interval Distribution for All Models



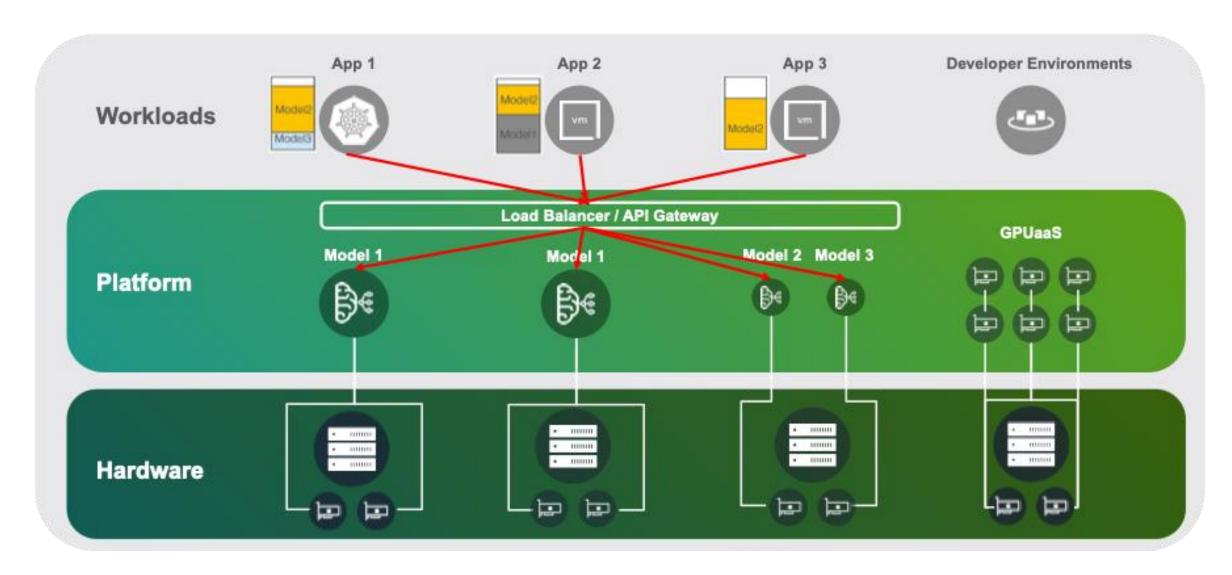
Models with no reguests cause GPU idle

沒有處理 AI 服務請求的時候,已配置的 GPU 資源被閒置

Jiarong Xing and the Prism team



Private AI 平台彈性共享模型及 GPU,提高資源利用率





統一 Private AI 平台 - 資料索引及存取

降低 IT 團隊負擔,提高 AI 團隊生產力











搭建環境



部署模型

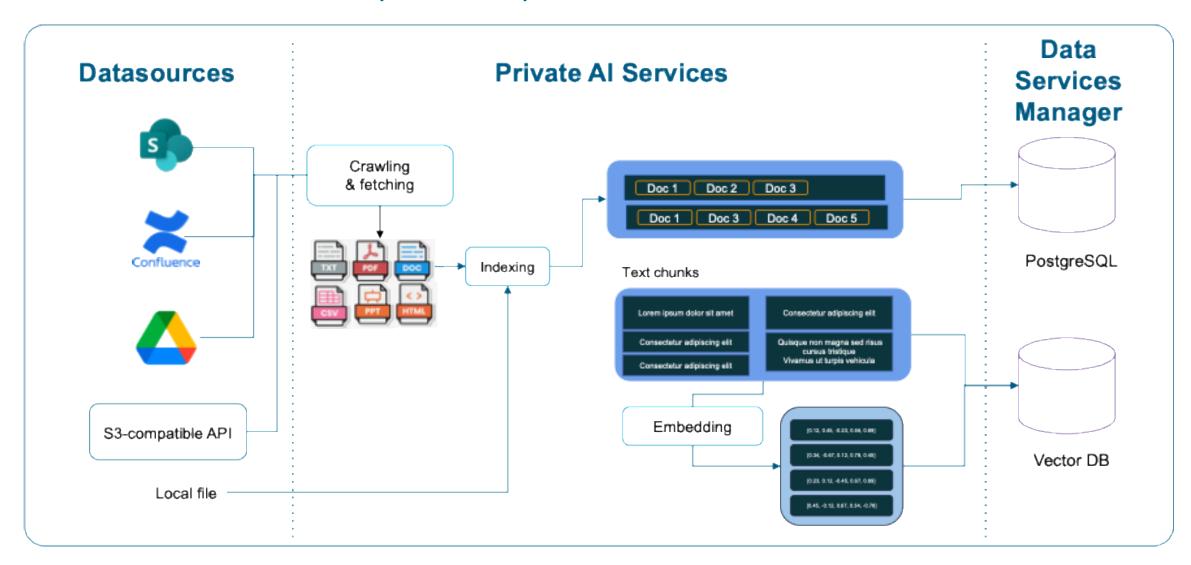


準備資料



開發應用(上線)

快速建立向量資料庫(DBaaS),建立資料索引並發佈





統一 Private AI 平台 – 整合建立 AI Agent, 上線營運

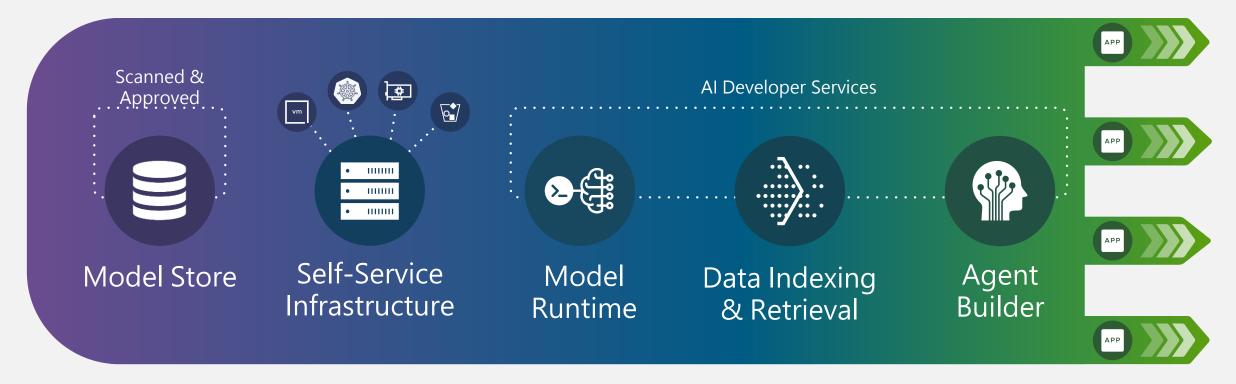
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降低 IT 團隊負擔,提高 AI 團隊生產力

統一 Private AI 平台 AI 團隊







搭建環境



部署模型



準備資料



開發應用 (上線)

經由開箱即用的圖形化 Private AI 儀表板,掌控 GPU 使用



選擇 成本 性能

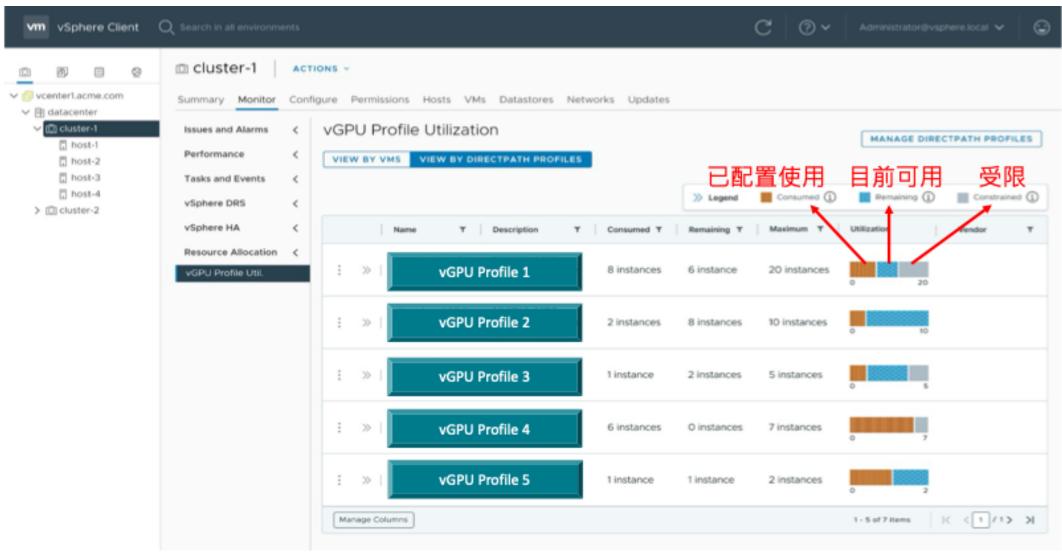




隨時了解 vGPU 配置狀態,動態根據需求規劃或預留資源

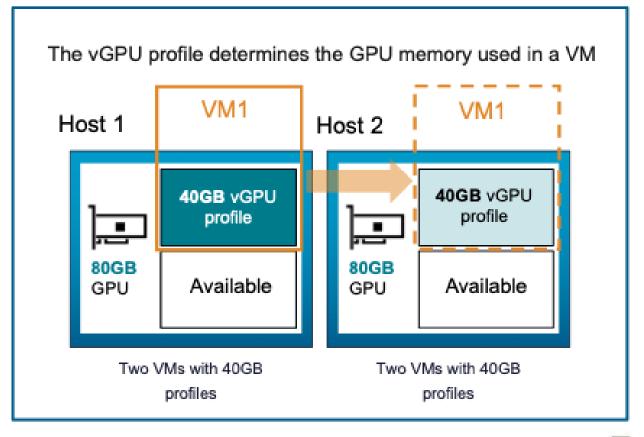


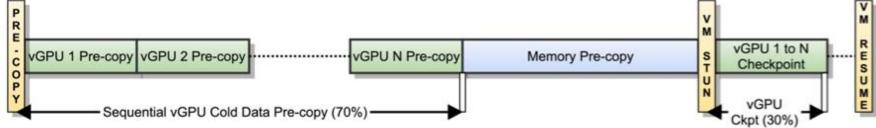
選擇 成本 性能



高效 vMotion 提高 GPU 利用率、可用性及使用彈性



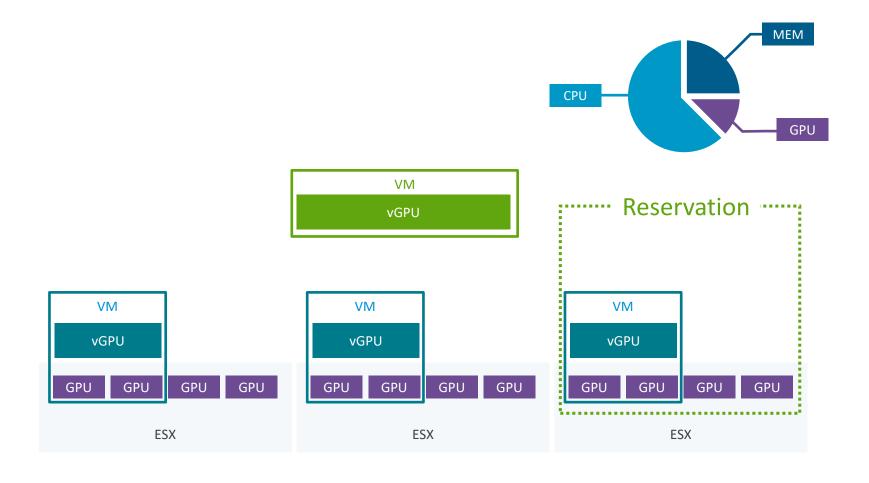






"資源保留"確保高優先級 AI 應用的資源需求



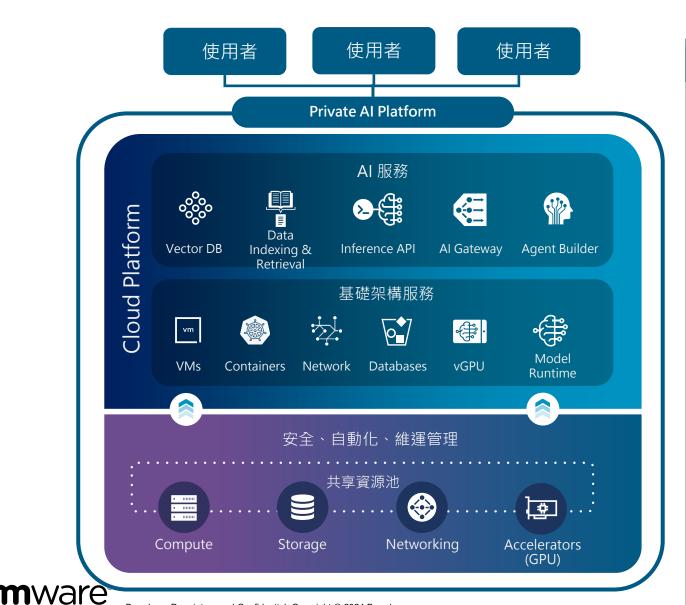




小結: Private AI 關鍵能力充分滿足企業 AI 需求



隱私 合規 選擇 成本 性能



Private AI 關鍵能力

シ 最大化 GPU 利用率

Reduce the TCO of your AI platform by leveraging shared infrastructure model and GPU virtualisation to maximise utilization.

> 內建 AI 自助服務

The Private cloud service portal expanded to include access to AI services and blueprints built to accelerate development and production AI workloads.

> 整合模型部署

Seamlessly push models to production and provide a private OpenAl compatible API for your enterprise.

▶ 便捷資料存取

Prepare private enterprise data and build custom Al Agents built for your enterprise.

S GPU即服務 (GPUaaS)

Extend existing PaaS operat

Extend existing PaaS operating model principles for private cloud, to deliver GPU as a service.

一致性平台運維及治理管控

Extend existing private cloud controls & operations, to provide compliant, secure & resilient Al services.

>> 安全的 AI 基礎建設

Protect data by extending platform security policies and controls from private cloud into private Al.

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VMware Private AI 邏輯架構

以 VCF 企業私有雲為基礎,擴展即選即用的 AI 服務







Demo:輕鬆三步驟建立符合企業規範的私有專屬 Al Agent

