

VergeIO : 高效能 VMware 替代方案



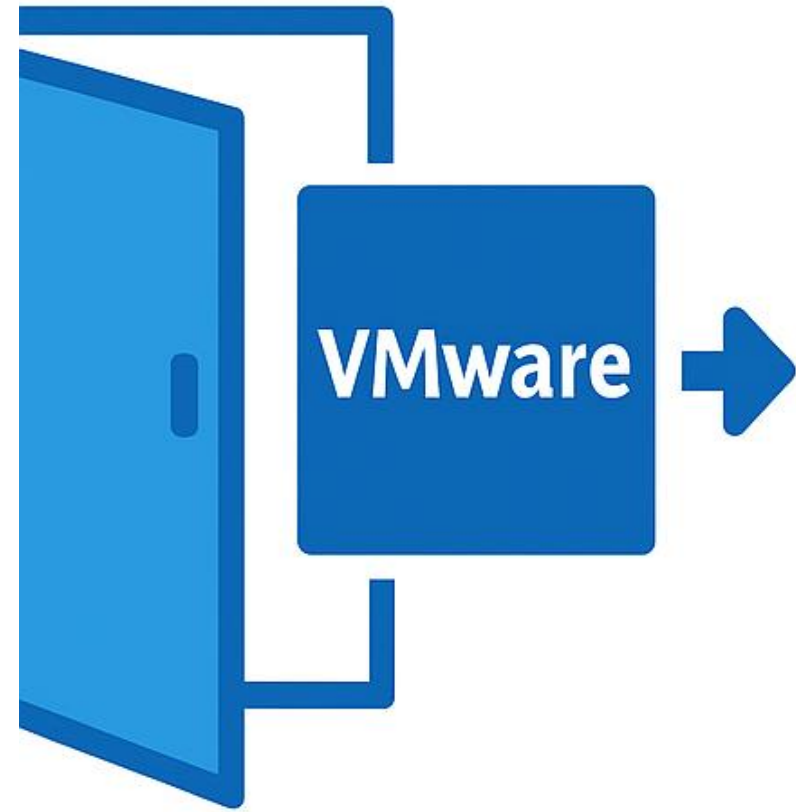
Abstracted Infrastructure. Unlimited Possibilities.

VBUSTER
京 稷 科 技

VergeIO - The Future of Virtualization
Dec. 2025

京稷科技股份有限公司
林啟瑋 Vincent Lin
Vincent_Lin@vbuster.com.tw

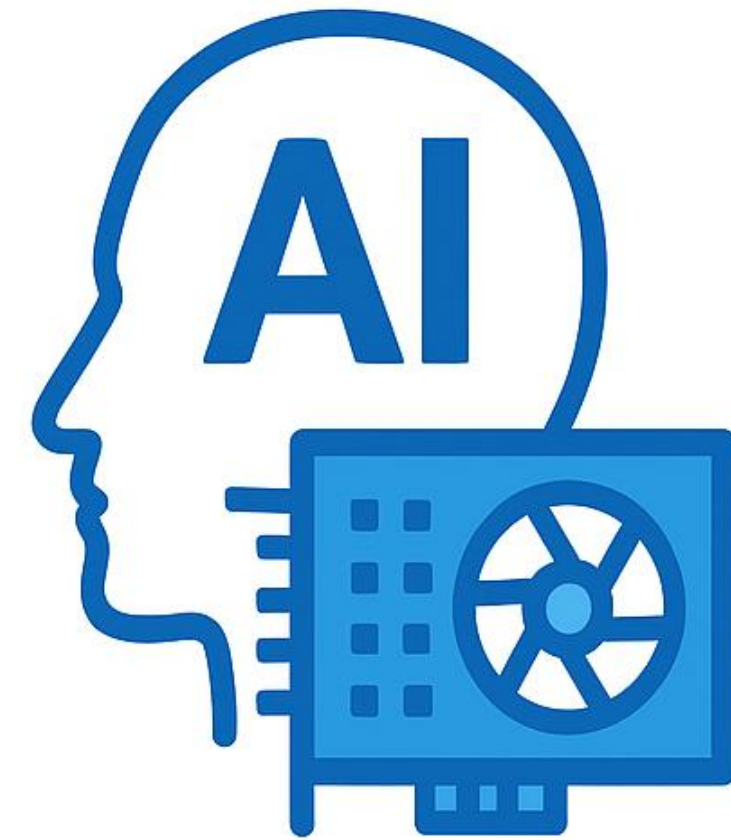
這兩年都在忙什麼？



退出 VMware
生態系統



建立現代化
基礎架構



AI 賦能、轉型

退出 VMware 生態系統

當“曾經基礎”成為未來負擔...

博通收購VMware不滿一個月！VMware宣布全面終止永久授權的銷售改為訂閱制

VMware近日宣布未來的產品銷售服務政策有重大的調整，將全面終止買斷授權，改為訂閱制。即日起不再提供永久授權、有效支援與訂閱服務 (SnS) 續訂，以及混合與訂閱購買計畫(HPP/SPP) 點數在內的銷售模式，僅以訂閱或定期授權的形式提供。

文/ 余至浩 | 2023-12-20 發表

2,153 讚 分享

IT 人員與技術人員非看不可！
14:30 準時上線
連續超過 45 分鐘
前 150 名即可獲得
\$50 現金禮券
7-11 5

博通在11月下旬完成對VMware的收購後，VMware近日宣布未來的產品銷售服務政策有重大的調整，將全面終止買斷授權，改為訂閱制。這

勒索軟體BlackByte利用VMware虛擬化平臺漏洞發動攻擊

研究人員發現，勒索軟體駭客組織BlackByte在攻擊行動裡，利用2個月前VMware修補的身分驗證漏洞CVE-2024-37085，以便控制ESXi虛擬化平臺

文/ 周峻佑 | 2024-08-29 發表

11 讚 分享

微軟警告風險等級 6.8 的 VMware 漏洞遭多組駭客濫用

VMware修補ESXi漏洞後，勒索軟體駭客積極利用，影響企業安全。微軟建議更新和多因素驗證。

吳明宜 | 2024-08-01

2min 0 評論

【資安日報】7月30日，上個月公告、修補的VMware ESXi身分驗證繞過漏洞，去年已有多組人馬將其用於攻擊行動

本週微軟提出警告，上個月才發布公告的虛擬化平臺VMware ESXi身分驗證繞過漏洞CVE-2024-3708，半年多前就開始有多個駭客組織將其用於攻擊行動

文/ 周峻佑 | 2024-07-30 發表

53 讚 分享

VMware揭露自動化處理平臺存在高風險漏洞，攻擊者可對其發動SQL注入攻擊

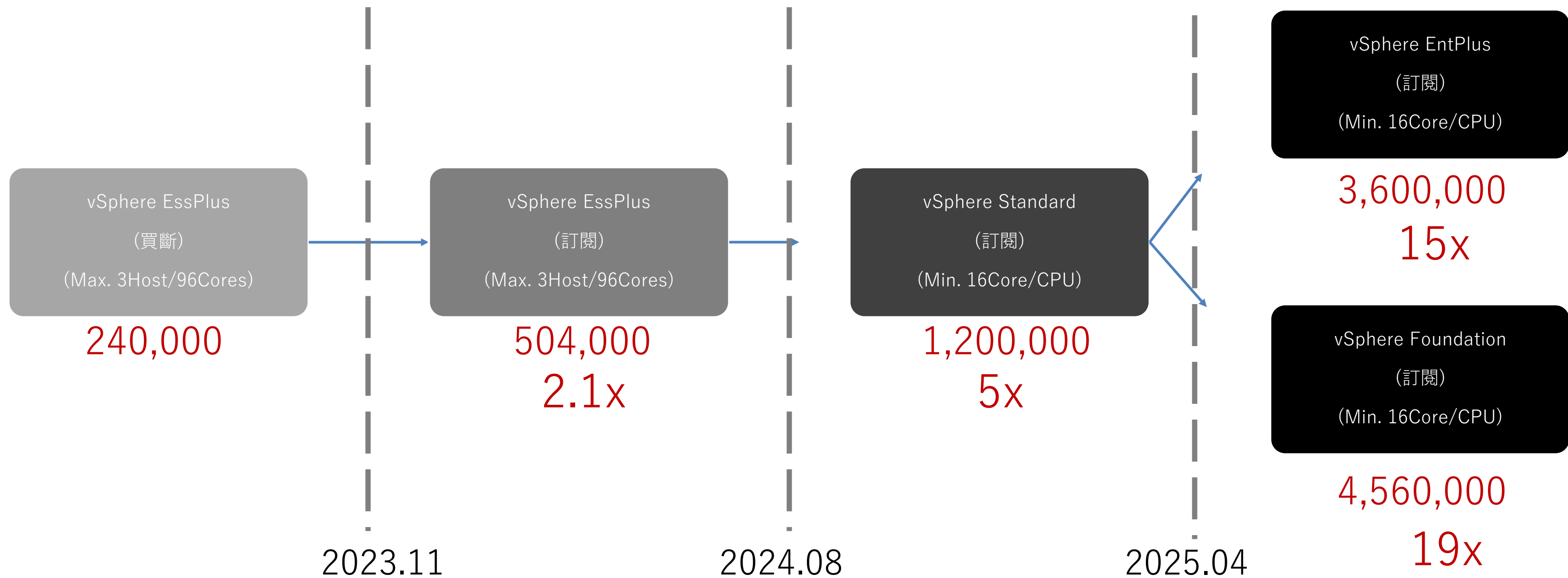
本週VMware發布資安公告，指出旗下的雲端自動化平臺Aria Automation存在高風險漏洞CVE-2024-22280，攻擊者可藉由輸入特定SQL查詢指令觸發，而能在未經授權的情況下對資料庫讀取或是寫入

文/ 周峻佑 | 2024-07-11 發表

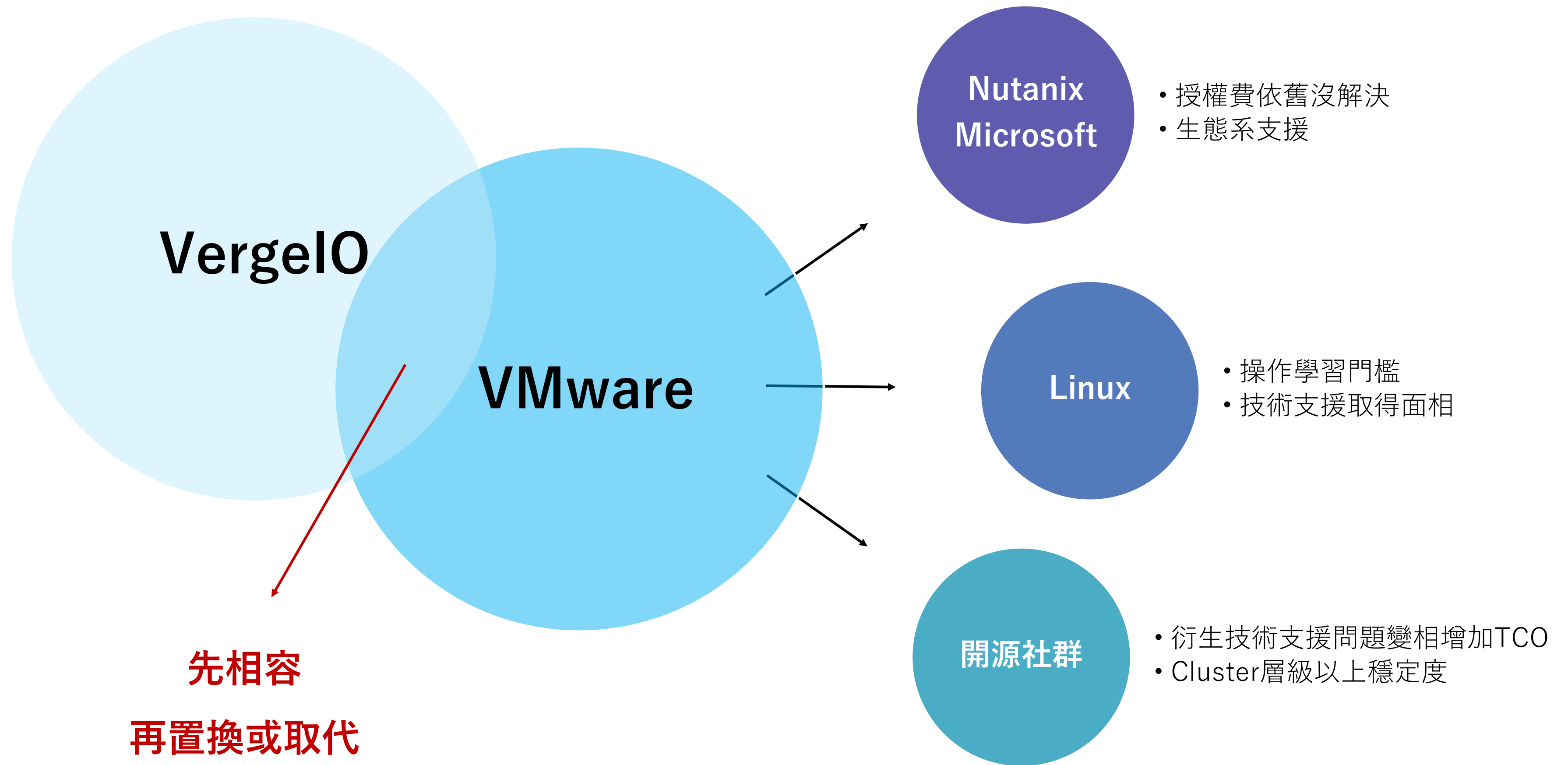
4 讚 分享

計畫趕不上變化

3 Host / 6 CPU / 96 core / 5Y



VergeIO 解決替代選擇的難題



verge.io



VergeIO 總部位於美國密西根州，
專注於提供在商用硬體上運行的軟體定義數據中心解決方案，
整合了存儲、網絡和計算功能，實現服務器虛擬化。VergeIO 的使命是簡化 IT 基礎設施，
降低成本，並利用人工智慧和機器學習實現自我管理。

連續兩年 DCIG Top 5 ~ VMware 替代方案推薦



SOLUTION

VergeIO VergeOS

COMPANY

VergeIO
5799 Main St, #780
Clarkston MI, 48347
(855) 855-8300
verge.io

DISTINGUISHING FEATURES OF VergeIO VergeOS

- Benefits through the power of one
- Data center agility
- Unified management of disparate clusters

DISTINGUISHING FEATURES OF TOP 5 SOLUTIONS

- Robust support
- High availability (HA)
- Value-added services

SOLUTION FEATURES EVALUATED:

- *Deployment capabilities*
- *Data protection capabilities*
- *Product and performance management features*
- *Technical support*



SOLUTION

VergeIO VergeOS

COMPANY

VergeIO
333 Jackson Plaza
Ann Arbor, MI 48103
(877)-722-5359
<https://www.verge.io/>

DISTINGUISHING FEATURES OF VERGEOS

- All-inclusive software licensing licensed per physical machine in a cluster.
- Globally deduplicates all data.
- Individual VDCs on VergeOS each possess their own data center features.
- Offers a VMware service within each VDC to facilitate VMware vSphere migrations.



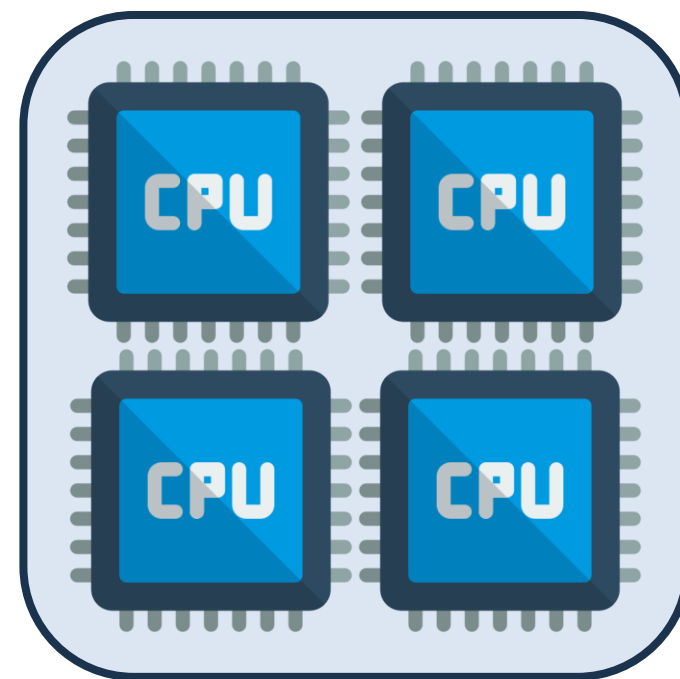
2023-24 DCIG TOP 5
Rising Vendors HCl Software Solutions VergeIO Solution Profile



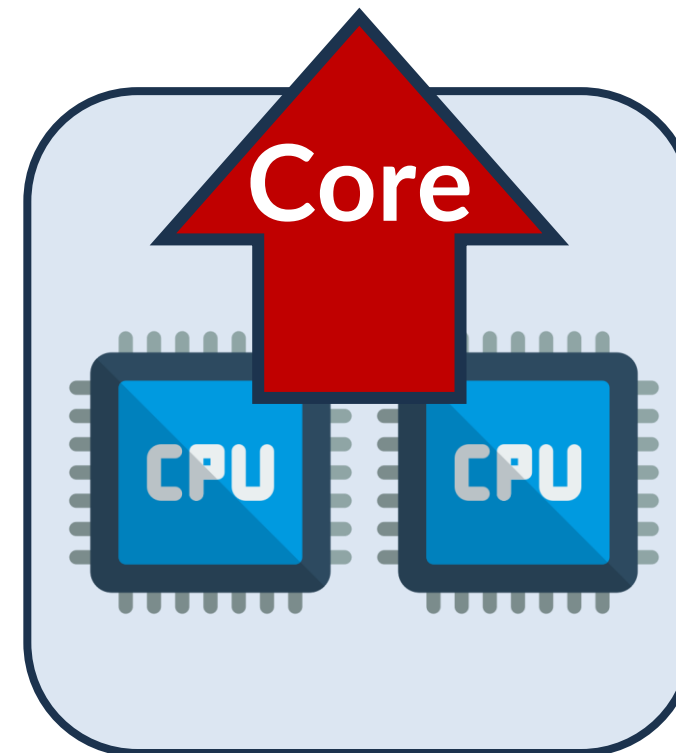
2024-25 DCIG TOP 5
ENTERPRISE VMWARE VSPHERE ALTERNATIVES // US EDITION
VergeIO VergeOS Solution Profile

授權計算

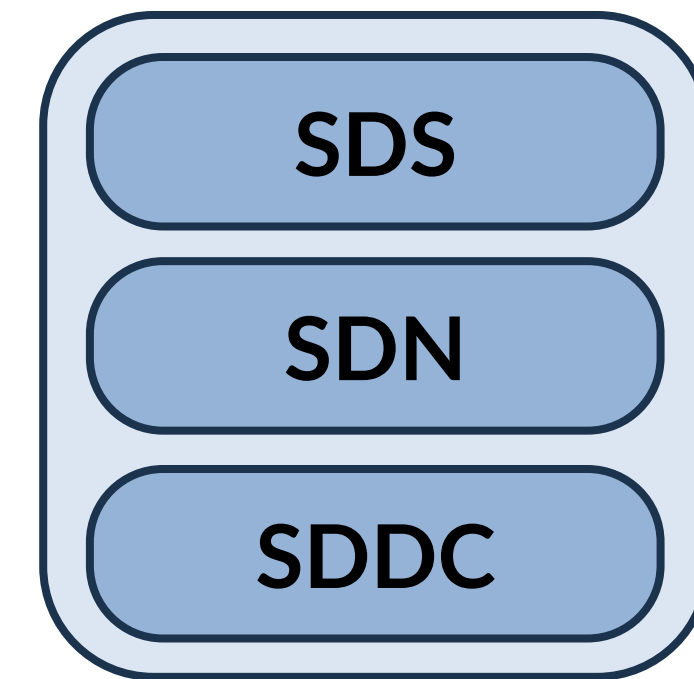
- ✓ 單純 Node 計價，無 Socket、Core 等價格膨脹計價項目。
- ✓ 全功能標準內含，無額外 Capacity、VM 等加收費功能 Add on。
- ✓ 1年、3年、5年 訂閱，純軟體授權。



4-Way

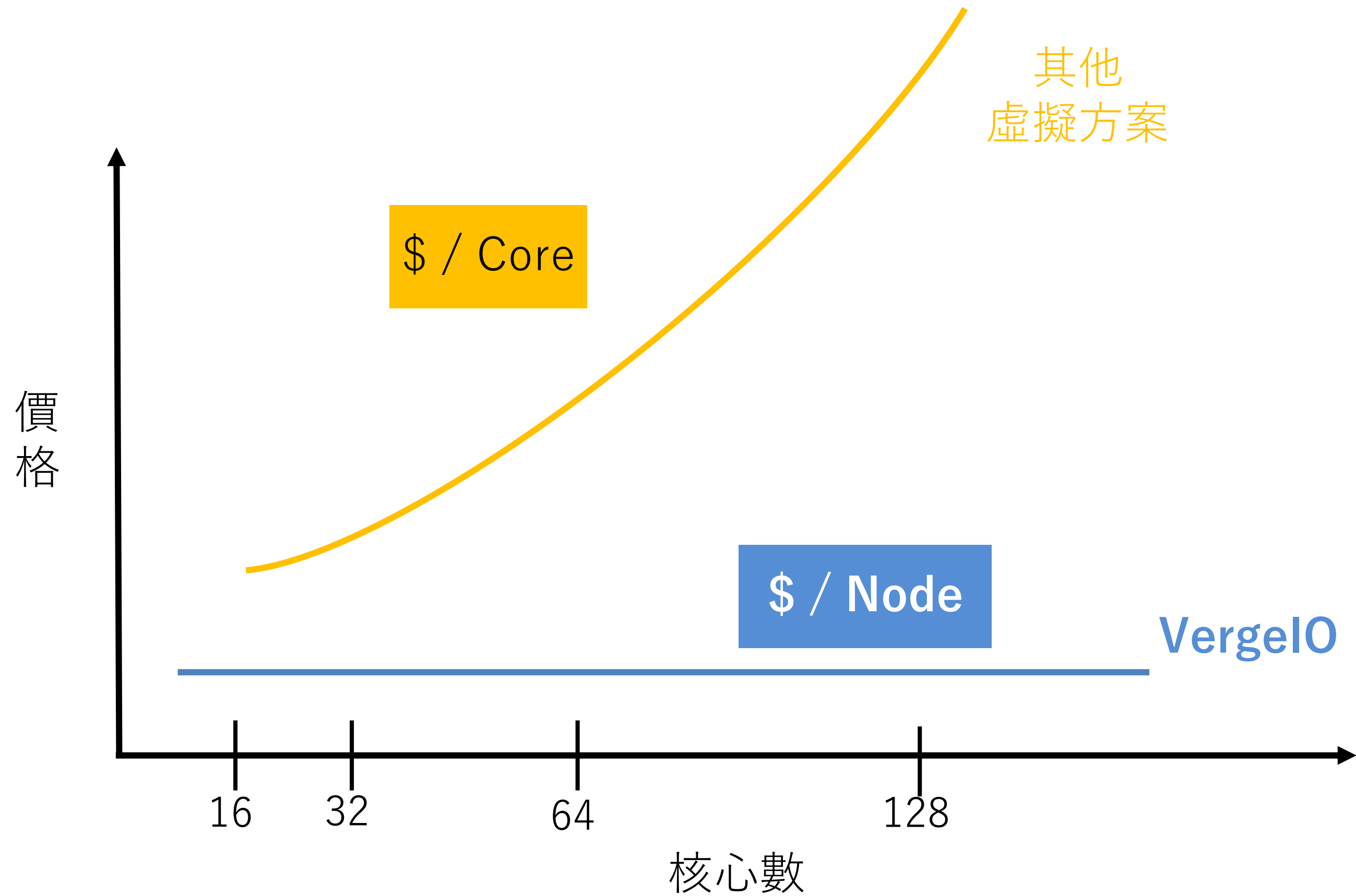


More Core



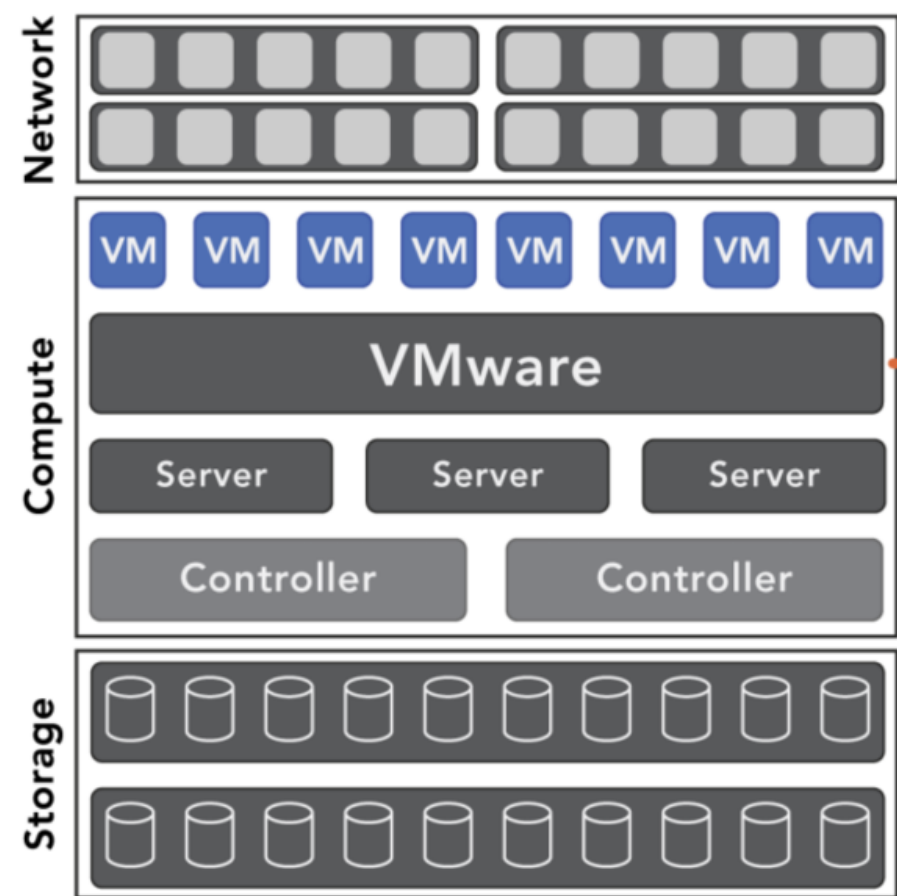
Full Function

授權比較



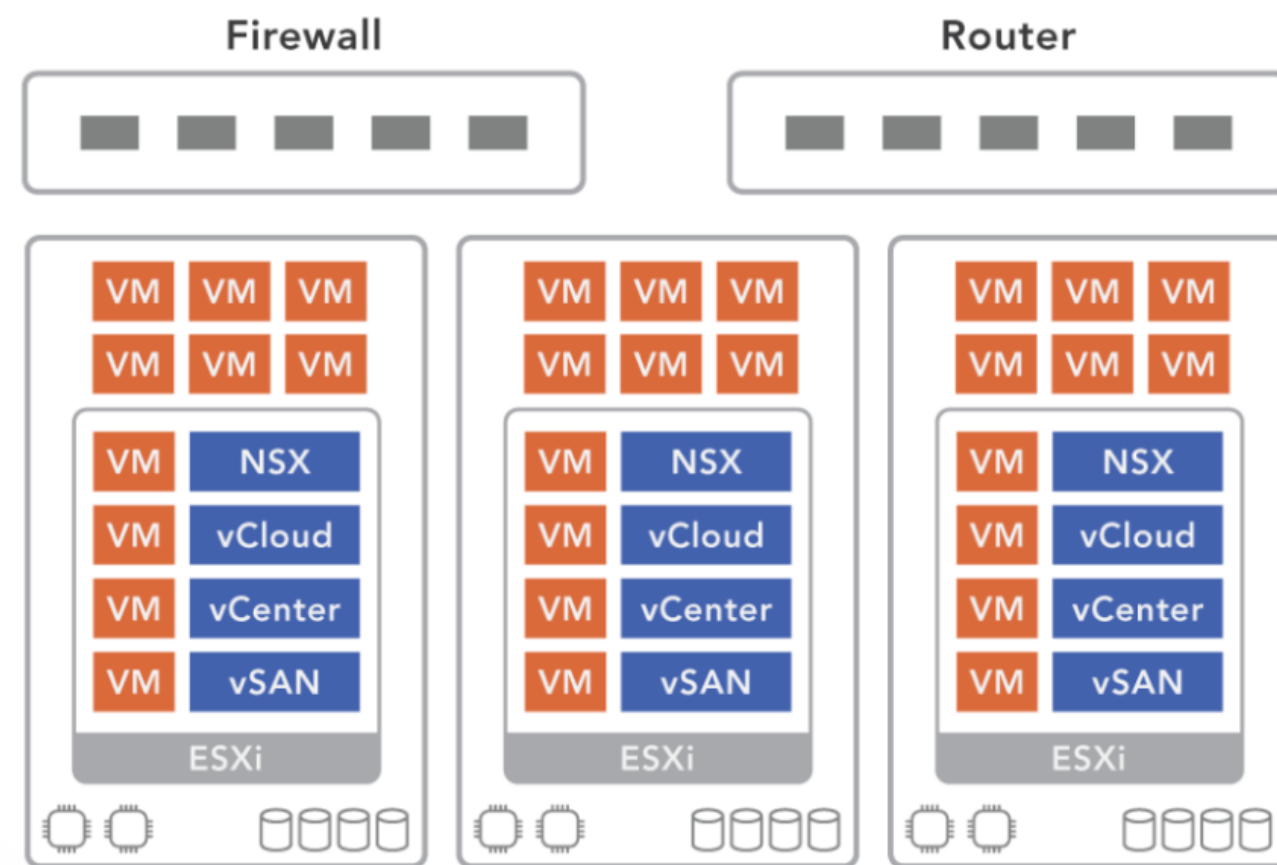
建立現代化基礎架構

Ultra-Converged Infrastructure



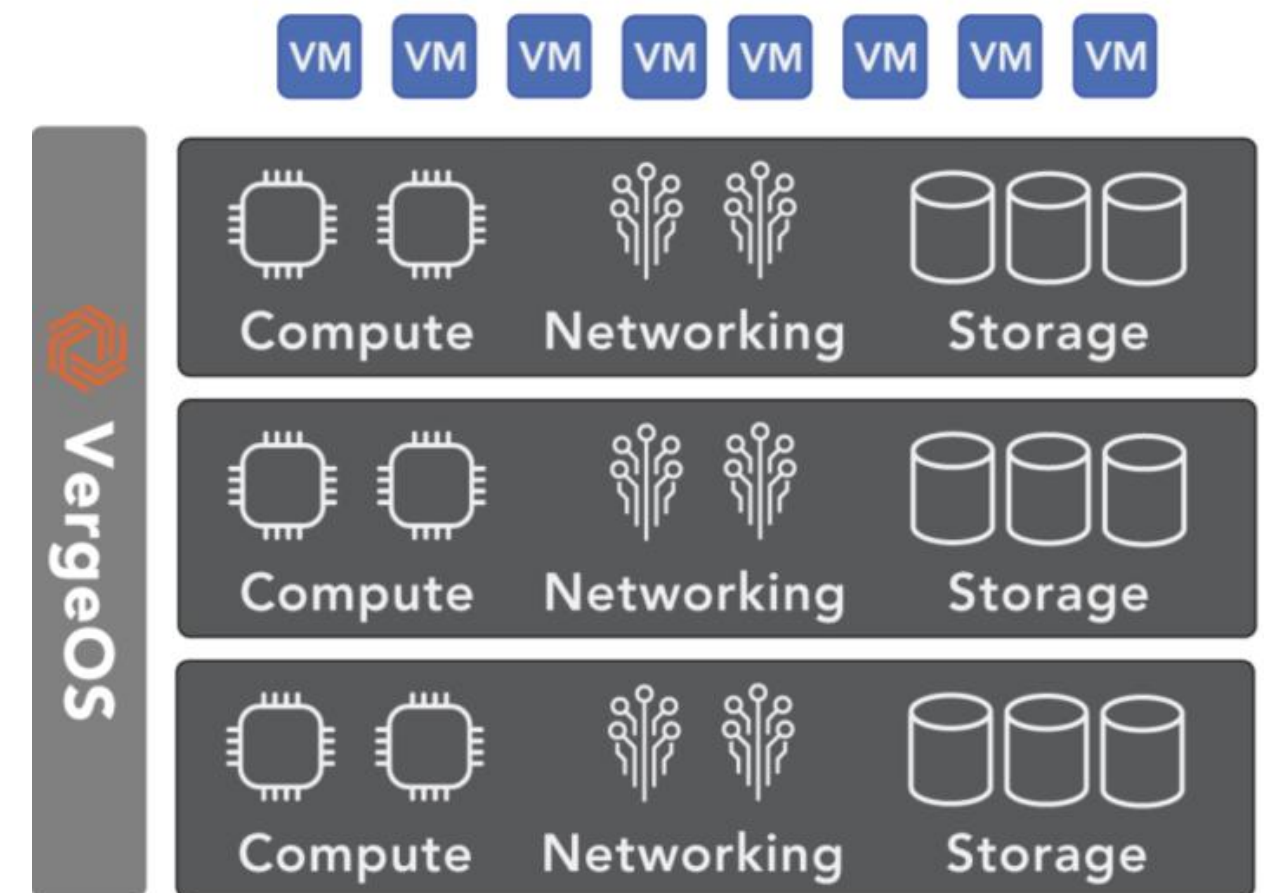
三層式架構

物理上分離



HCI架構

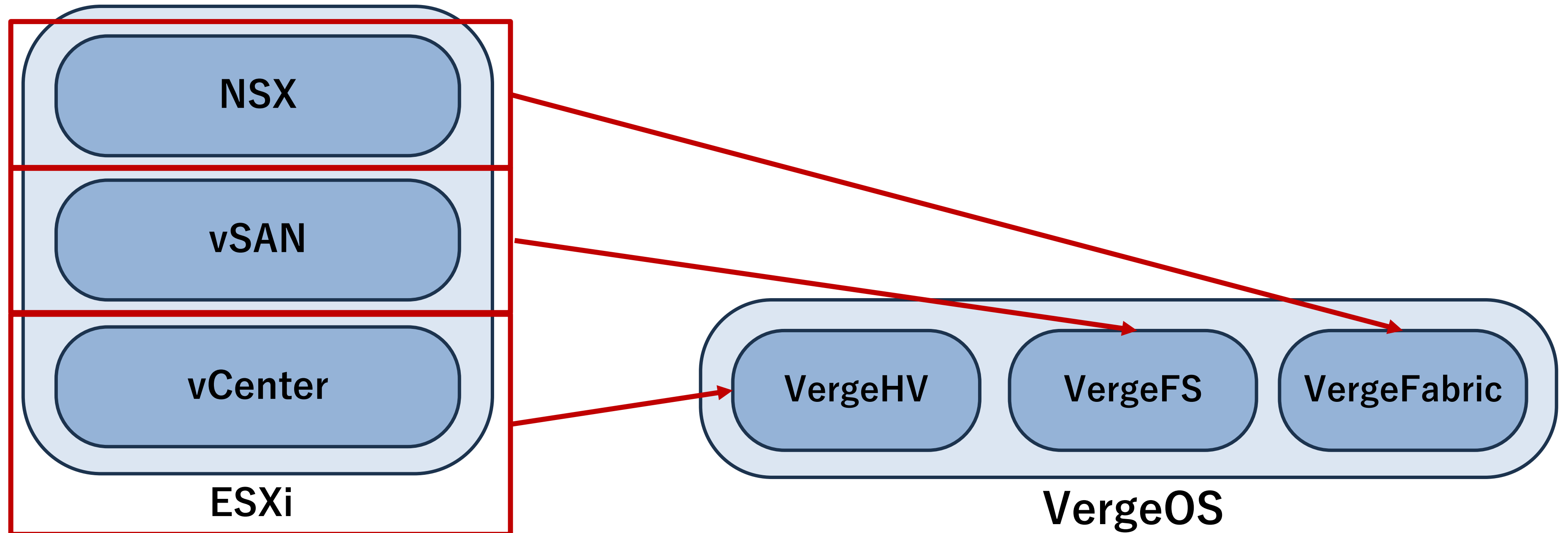
邏輯上分離



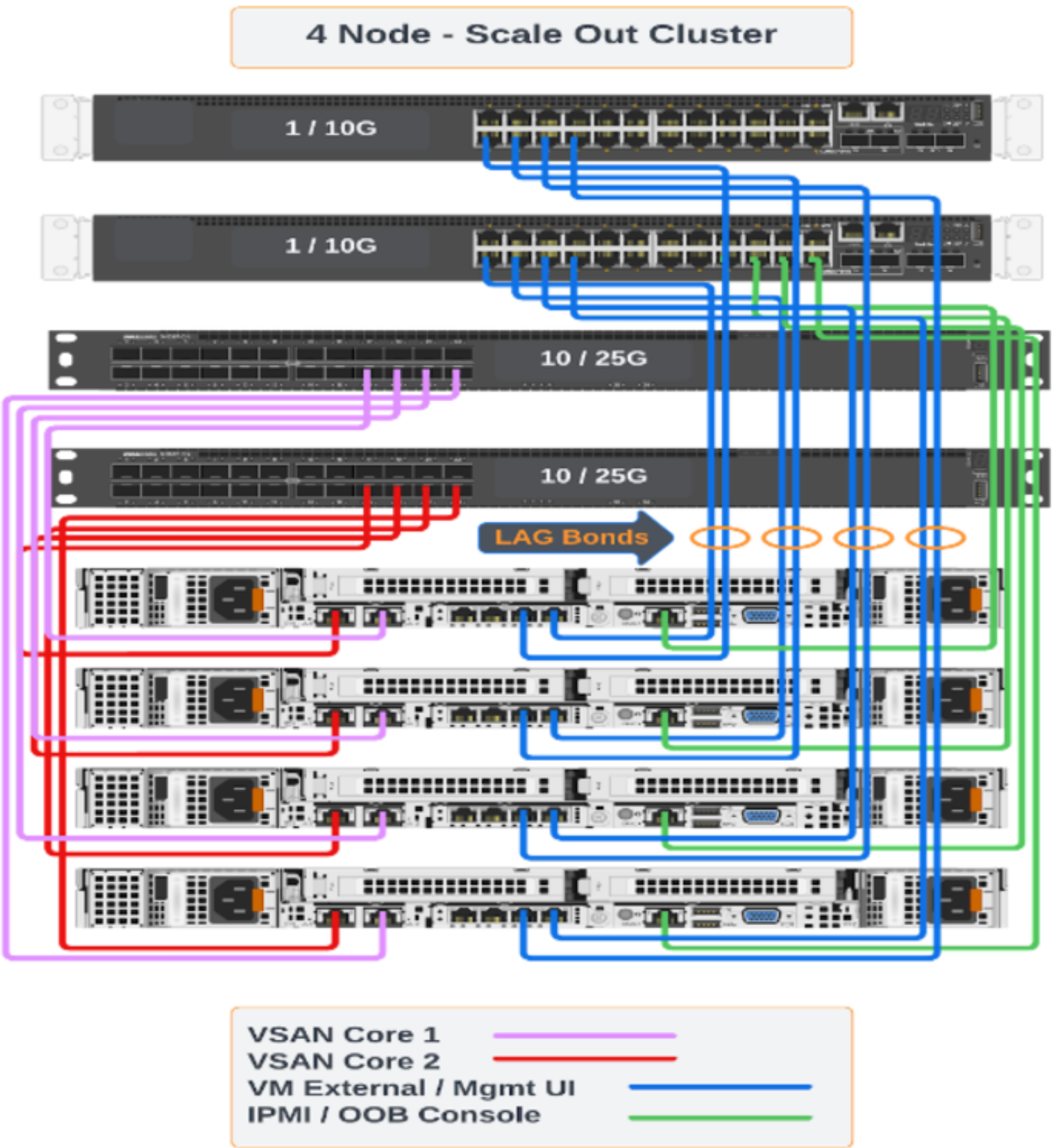
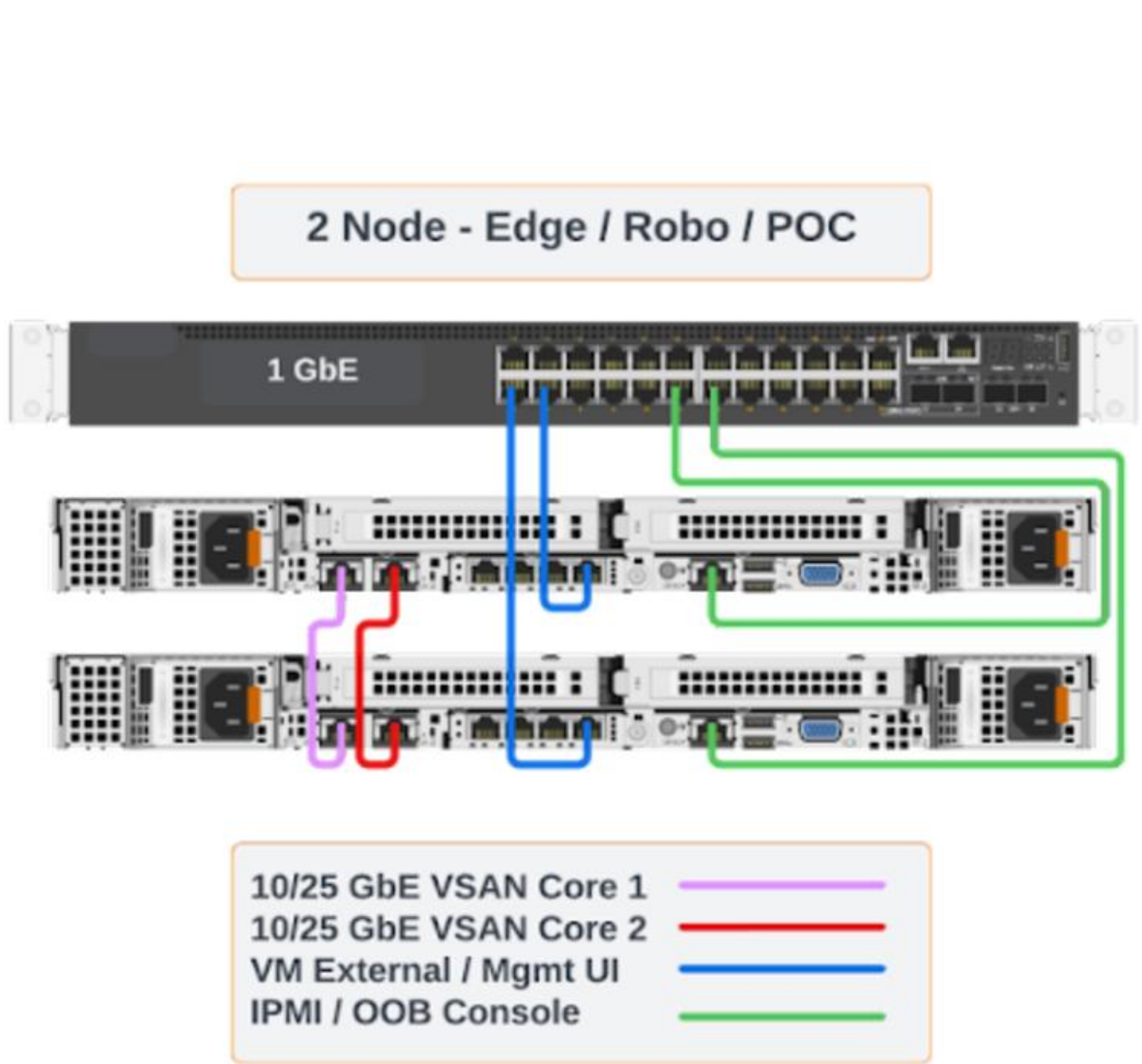
UCI架構

物理/邏輯上整合
(Code Based)

UCI 邏輯整合架構



架構示意



VergeOS 功能



- 分配所有儲存與運算資源/功能
- 完全獨立的虛擬化環境與架構
- 各租戶擁有單獨的網路管理環境
- 可刪除或添加運算資源並立即使用

一站式功能整合

Product	Verge OS	VMware	Nutanix
Product Suite Name	VergeIO	VMware vSphere	Acropolis + Prism
Hypervisor	VergeOS	ESXi (Server)	Nutanix AHV (Acropolis Hypervisor)
Management Plane	Portal	vCenter Server (or VCSA)	Nutanix Prism
Update / Upgrade Tool	Live Update	vCenter Lifecycle Manager (included in vCenter Server)	Nutanix LCM (both in Prism Center and Elements)
Integrated KMS	OIDC Application	vSphere Native Key Provider	Nutanix LKM
Cluster HA solution	VergeHA	vSphere HA	AHV VM High Availability (VM HA)
Network	VergeOS Network	NSX	Nutanix Flow
HCI Storage	vSAN	VMware vSAN	Acropolis OS (AOS)
HCI Block Service	FC SAN	vSAN iSCSI Target	Nutanix Volumes (aka Nutanix Block)
HCI File Service	Virtual NAS	vSAN File Service	Nutanix Files
Monitor	Portal	vRealize Operations (vROps)	Prism
Automation	Schedule	vRealize Automation (vRA)	Calm

VergeOS

ioMigrate

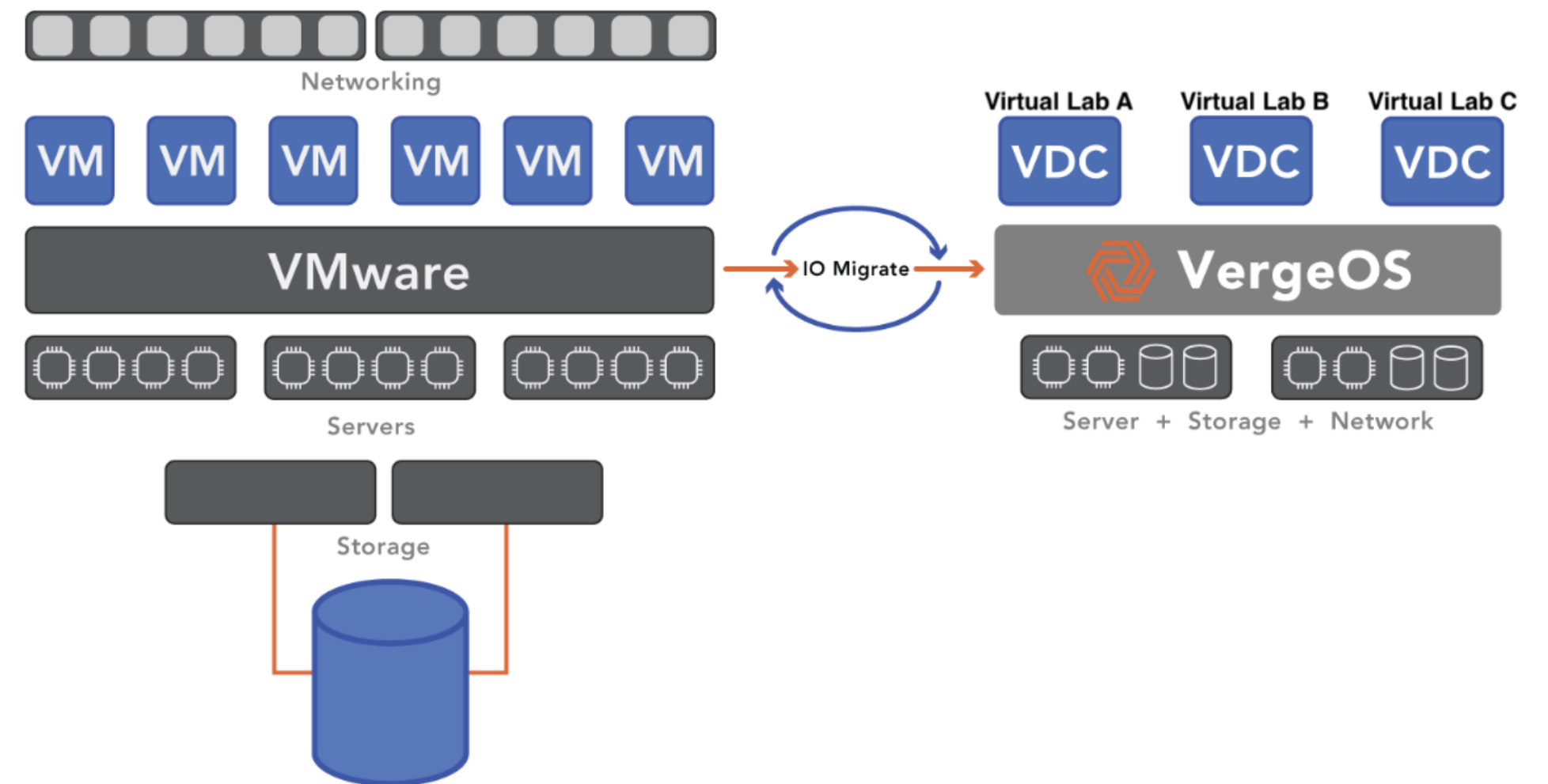
兩階段遷移 VMware VM :

第一階段：VMware VM備份

首先連接到現有 vCenter Server 或獨立 ESXi 主機的 VMware 服務。設定並連接服務後，透過自訂備份計劃 (分鐘、小時、天)，VergeOS 就會啟動 VMware VM 的全面備份。

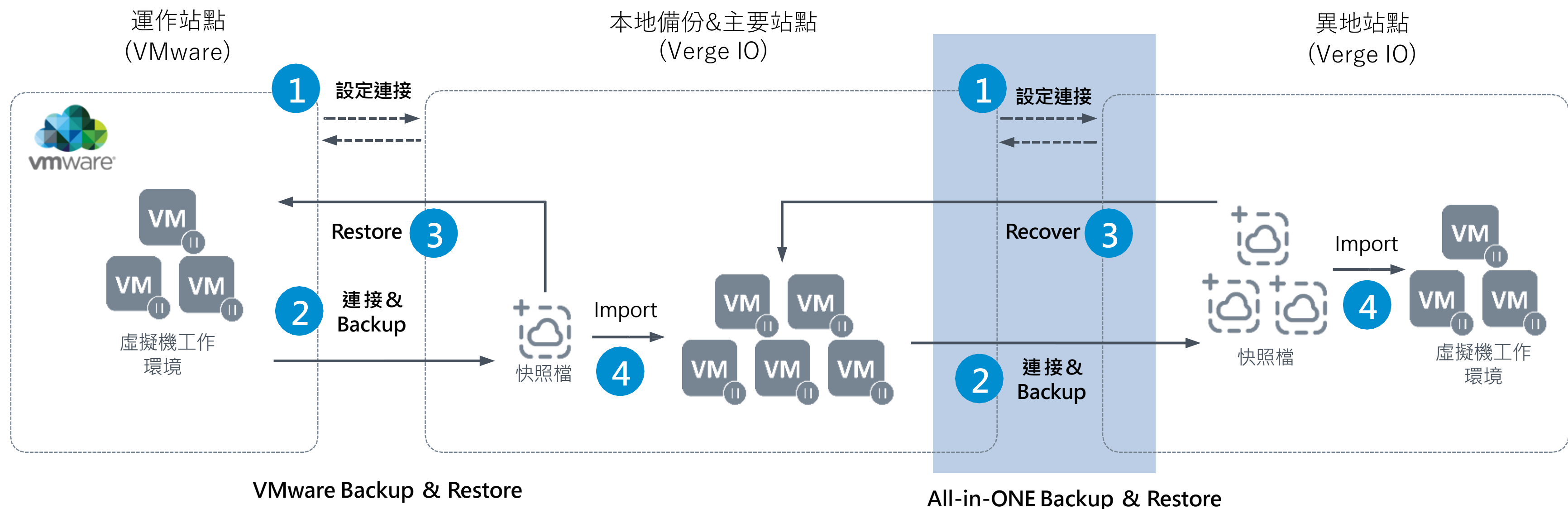
第二階段：Import / Conversion 為 VergeOS 虛擬機

安排時間，從 VMware VM 到 VergeOS VM 轉換只需幾秒鐘即可完成。

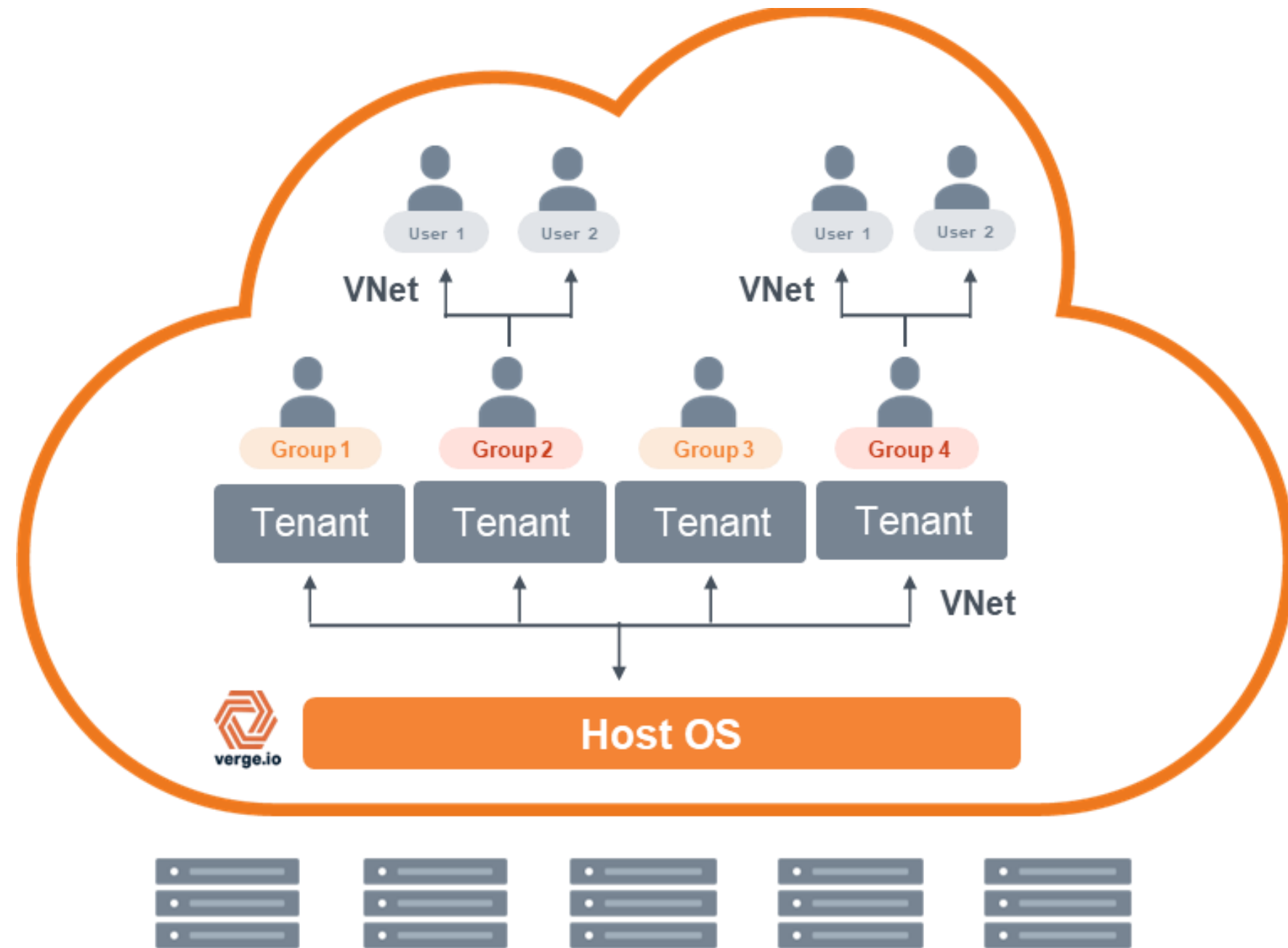


VMware DR / Backup 原生兼容

- 使用 VergeOS 原生介面即可導出 ESXi 虛擬機，自動完整或增量備份到 VergeOS 平台。
- 可於 VergeOS 平台上進行災難復原應用，或 Restore 回原 VMware 環境。
- 透過 VergeOS 全域線上重複資料刪除，提供低頻寬需求的跨 WAN Site 間的 Backup / DR 功能，實現多個實體資料中心可以複製到單一容災資料中心等應用情景。

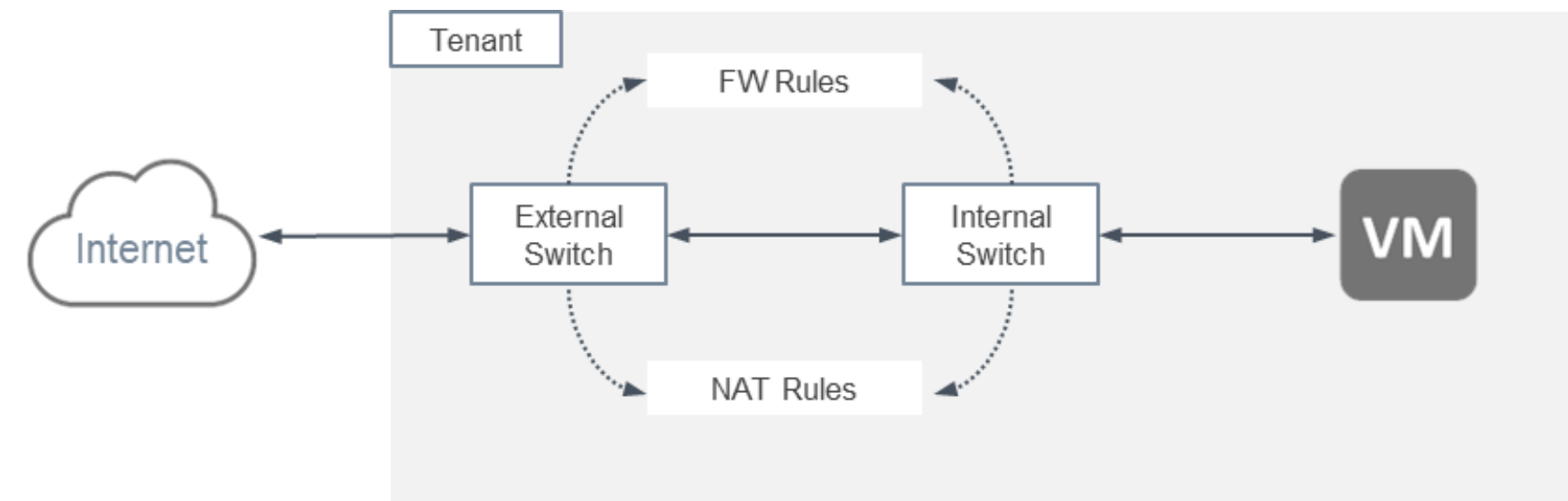


Tenant 租戶管理



租戶管理系統

- 全面虛擬管理環境，確保資源靈活調度利用。
- 為適應各種類型的組織或使用者而設計的獨立架構。
- 授權完全自定義業務和管理模式。
- 整合實現IT資源利潤中心制



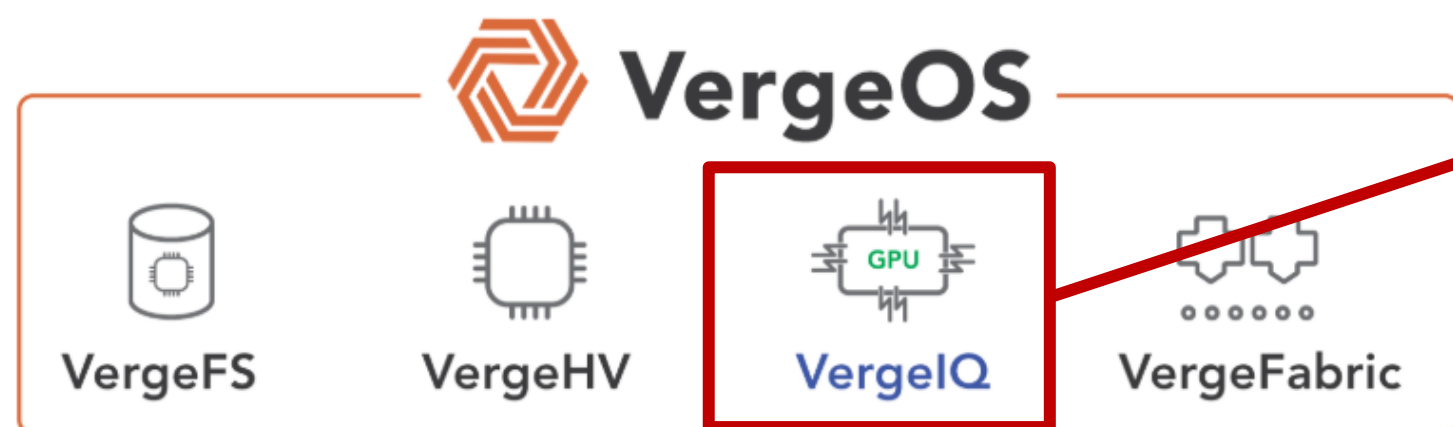
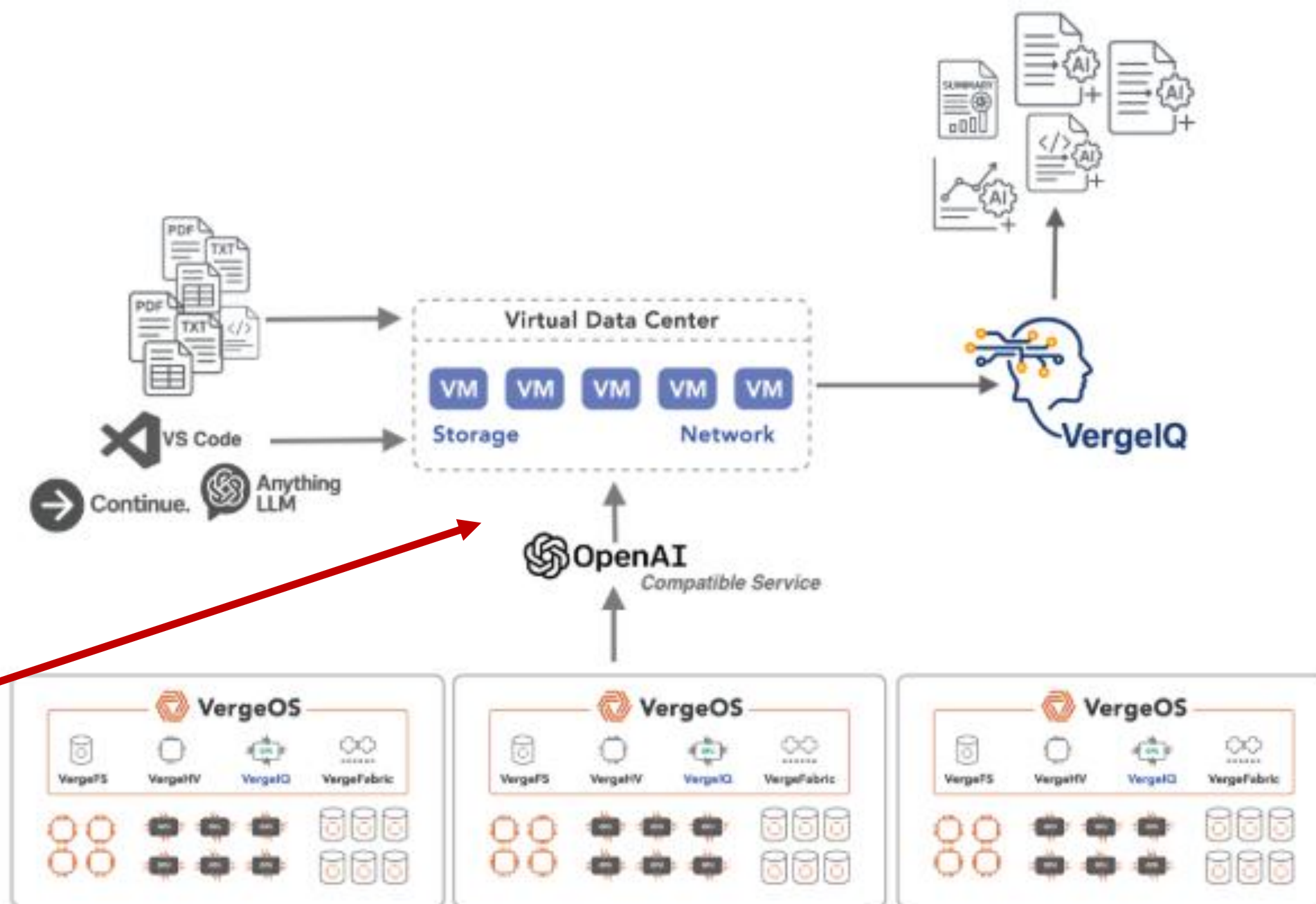
協助企業基礎設施現代化

- ✓ VMware 替代方案
- ✓ 小型資料中心
- ✓ 超融合架構
- ✓ VMware 備份/災難復原
- ✓ SAN 替代/整合

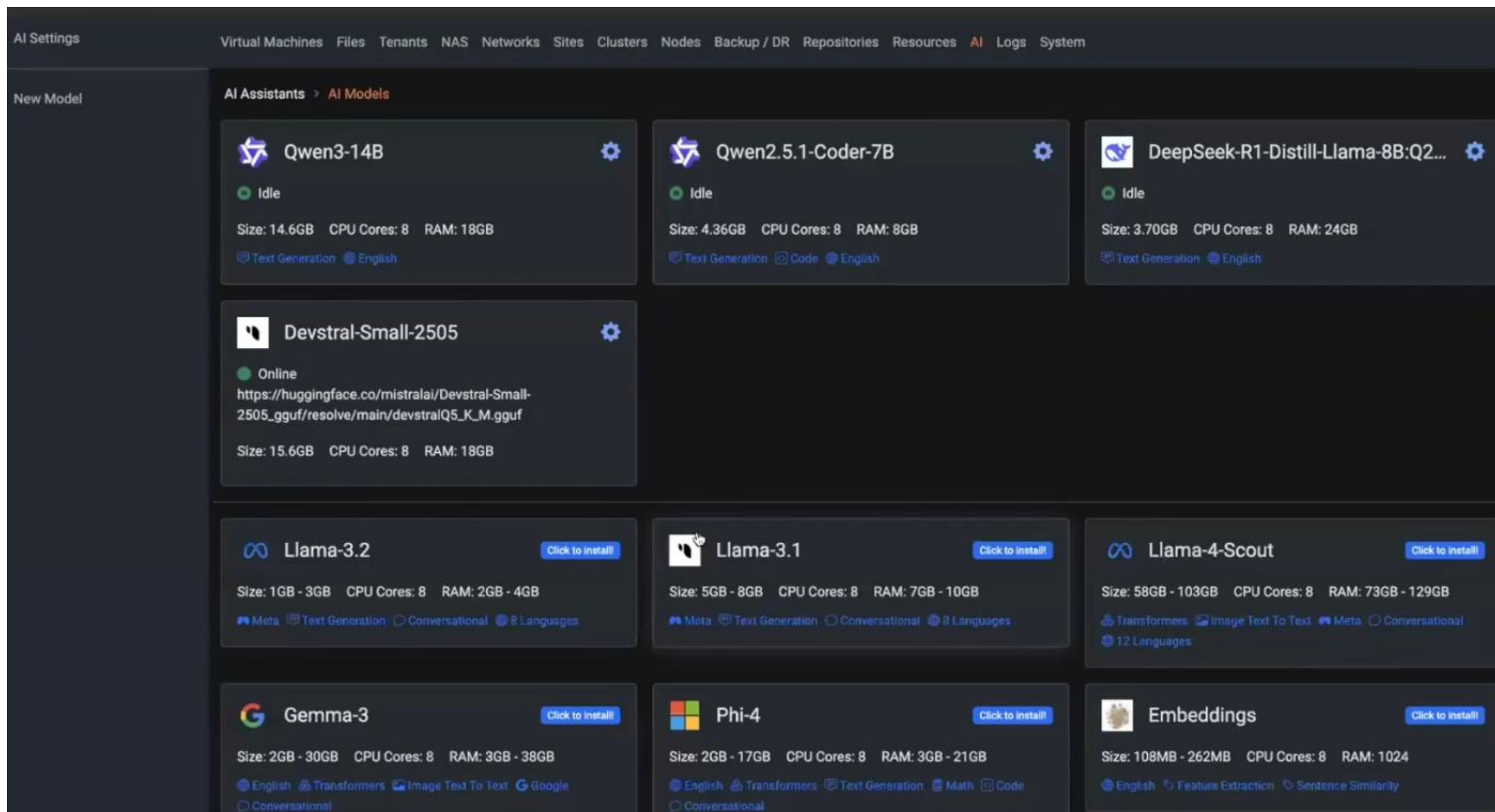
AI 賦能轉型

VergeIQ Ready

- VergeIQ 將生成式 AI 能力直接整合進 VergeOS, 並整合提供變 OpenAI 相容的 API 路由器 (OpenAI-Compatible API Router)。
- 讓開發者能以相同的程式碼與介面 (API) 存取本地部署的 LLM (LLaMa、Phi、Qwen、Gemma), 就像使用 OpenAI 的雲端 API 一樣。



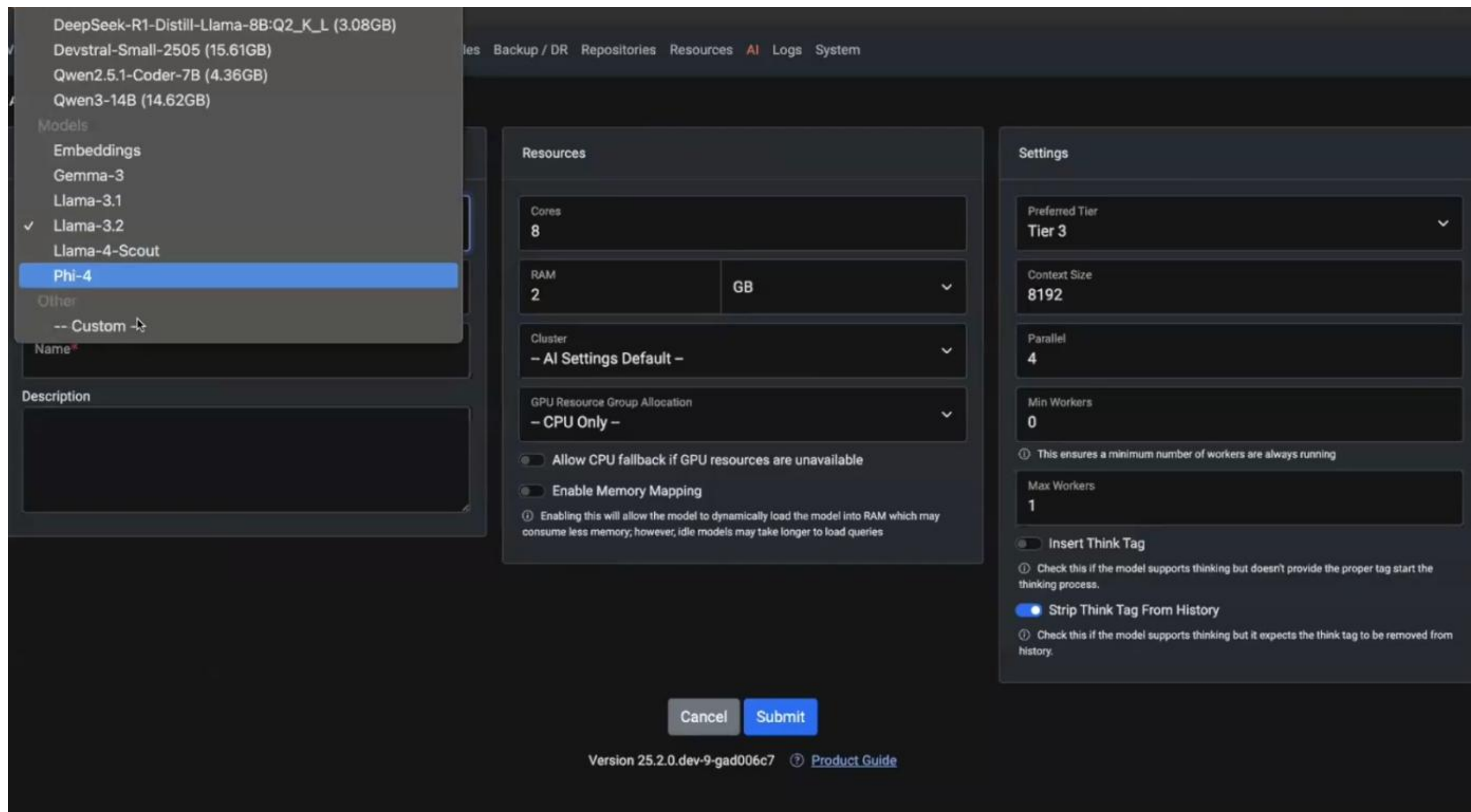
一鍵開源 LLM 下載



The screenshot displays the 'AI Models' section of the Verge.io interface. It features a grid of model cards, each with a status indicator (Idle or Online), size, CPU cores, RAM requirements, and supported capabilities. A 'Click to install' button is present on each card.

Model Name	Status	Size	CPU Cores	RAM	Capabilities
Qwen3-14B	Idle	14.6GB	8	18GB	Text Generation, English
Qwen2.5.1-Coder-7B	Idle	4.36GB	8	8GB	Text Generation, Code, English
DeepSeek-R1-Distill-Llama-8B:Q2...	Idle	3.70GB	8	24GB	Text Generation, English
Devstral-Small-2505	Online	15.6GB	8	18GB	https://huggingface.co/mistralai/Devstral-Small-2505_gguf/resolve/main/devstralQ5_K_M.gguf
Llama-3.2	Click to install	1GB - 3GB	8	2GB - 4GB	Meta, Text Generation, Conversational, 8 Languages
Llama-3.1	Click to install	5GB - 8GB	8	7GB - 10GB	Meta, Text Generation, Conversational, 8 Languages
Llama-4-Scout	Click to install	58GB - 103GB	8	73GB - 129GB	Transformers, Image Text To Text, Meta, Conversational, 12 Languages
Gemma-3	Click to install	2GB - 30GB	8	3GB - 38GB	English, Transformers, Image Text To Text, Google, Conversational
Phi-4	Click to install	2GB - 17GB	8	3GB - 21GB	English, Transformers, Text Generation, Math, Code, Conversational
Embeddings	Click to install	108MB - 262MB	8	1024	English, Feature Extraction, Sentence Similarity

LLM 資源部署



The screenshot displays the Verge.io interface for configuring LLM resources. On the left, a dropdown menu lists various models, with 'Phi-4' selected. The main panel is divided into 'Resources' and 'Settings' sections.

Resources:

- Cores: 8
- RAM: 2 GB
- Cluster: - AI Settings Default -
- GPU Resource Group Allocation: - CPU Only -
- Allow CPU fallback if GPU resources are unavailable
- Enable Memory Mapping
- ① Enabling this will allow the model to dynamically load the model into RAM which may consume less memory; however, idle models may take longer to load queries

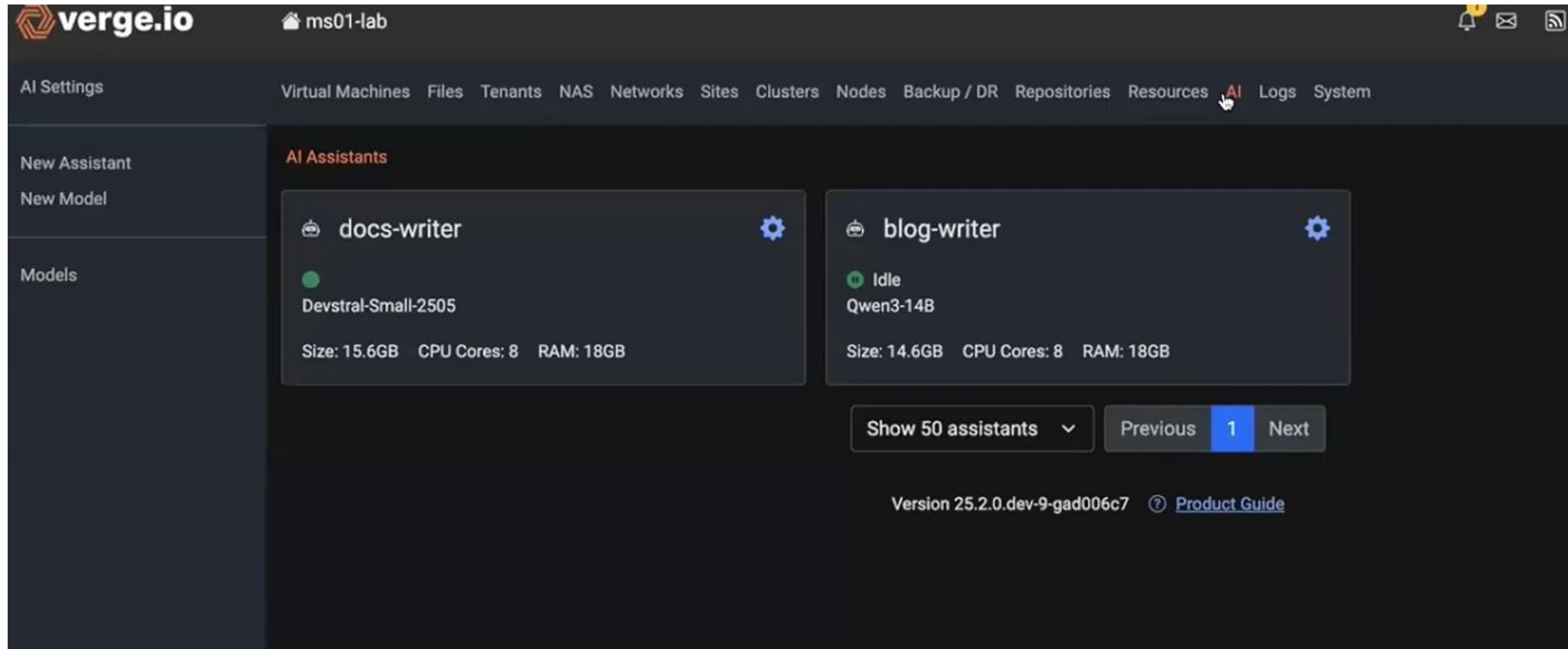
Settings:

- Preferred Tier: Tier 3
- Context Size: 8192
- Parallel: 4
- Min Workers: 0
- ① This ensures a minimum number of workers are always running
- Max Workers: 1
- Insert Think Tag
- ① Check this if the model supports thinking but doesn't provide the proper tag start the thinking process.
- Strip Think Tag From History
- ① Check this if the model supports thinking but it expects the think tag to be removed from history.

Buttons: Cancel, Submit

Version 25.2.0.dev-9-gad006c7 [Product Guide](#)

選擇助理



建立助理角色

Virtual Machines Files Tenants NAS Networks Sites Clusters Nodes Backup / DR Repositories Resources AI Logs System

AI Assistants > New Assistant

Assistant

Name*
coder

Description

Model*
Qwen2.5.1-Coder-7B

Settings

Chat History
Always On

Disable think

System Prompt

① This will be given to the model as an instruction for every chat

Temperature
0 1
0.8 - Inventive / Playful

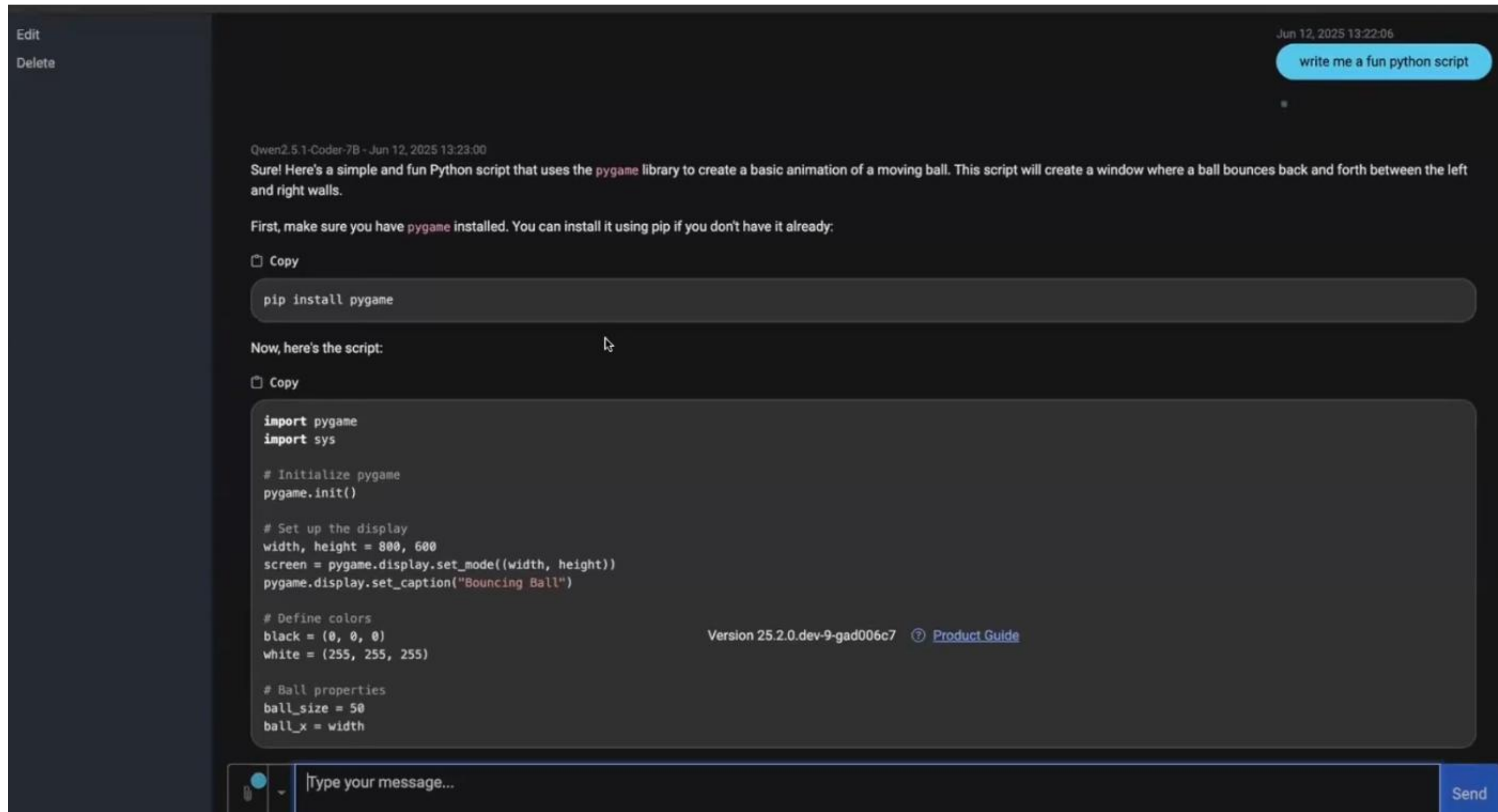
Max Tokens
0

① Set to 0 for no limit

Cancel Submit

Version 25.2.0.dev-9-gad006c7 [Product Guide](#)

開始使用



The screenshot shows the Verge.io AI chat interface. At the top right, there is a timestamp "Jun 12, 2025 13:22:06" and a blue button labeled "write me a fun python script". On the left side, there are "Edit" and "Delete" options. The main chat area contains a response from "Qwen2.5.1-Coder-7B" dated "Jun 12, 2025 13:23:00". The response text is: "Sure! Here's a simple and fun Python script that uses the `pygame` library to create a basic animation of a moving ball. This script will create a window where a ball bounces back and forth between the left and right walls. First, make sure you have `pygame` installed. You can install it using `pip` if you don't have it already." Below this text is a "Copy" button and a code block containing the command `pip install pygame`. The response continues: "Now, here's the script:" followed by another "Copy" button and a larger code block containing the following Python code:

```
import pygame
import sys

# Initialize pygame
pygame.init()

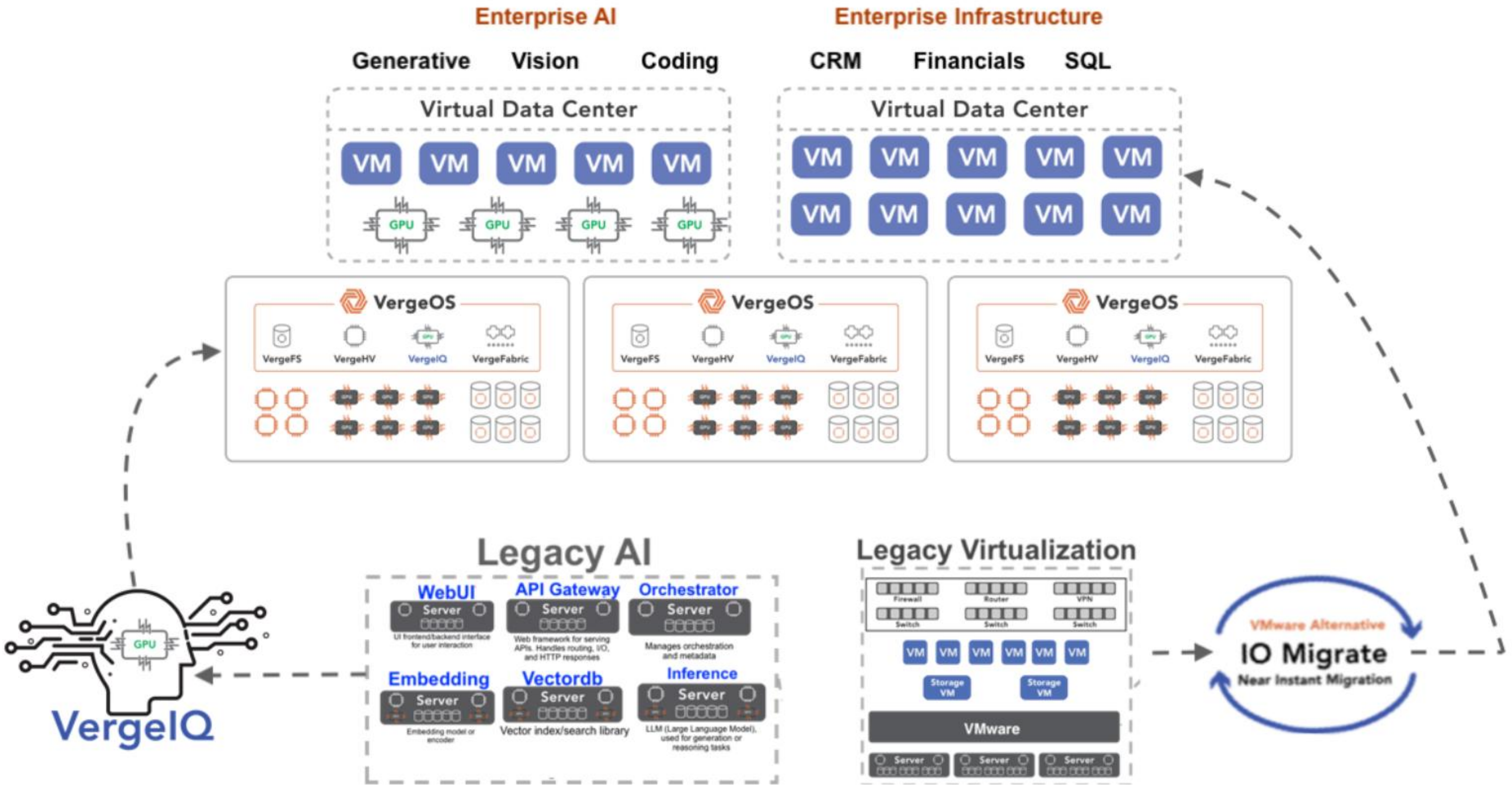
# Set up the display
width, height = 800, 600
screen = pygame.display.set_mode((width, height))
pygame.display.set_caption("Bouncing Ball")

# Define colors
black = (0, 0, 0)
white = (255, 255, 255)

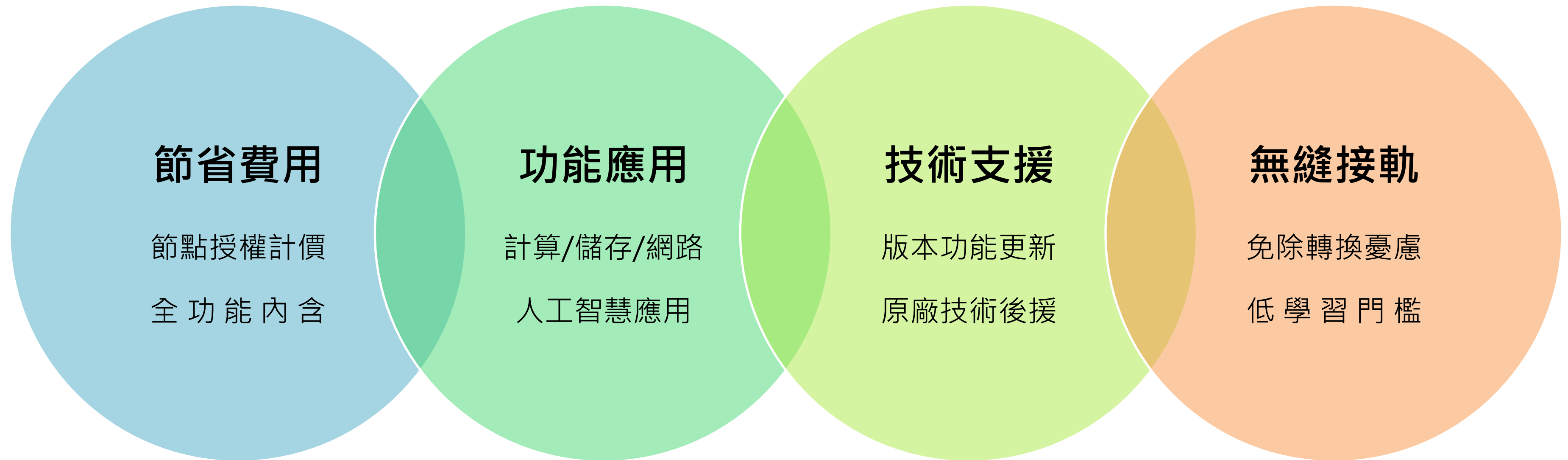
# Ball properties
ball_size = 50
ball_x = width
```

 At the bottom of the chat area, there is a version string "Version 25.2.0.dev-9-gad006c7" and a link to the "Product Guide". At the very bottom, there is a text input field with the placeholder "Type your message..." and a "Send" button.

單一平台 繼往開來



VergeIO 可以提供您什麼



謝謝您！

京祺科技股份有限公司
林啟瑋 Vincent Lin
Vincent_Lin@vbuster.com.tw