Liqid trae eficiencia a la UC3M

Eficiencia operativa

2X

Más
Tokens por Watio

Eficiencia de coste

50%

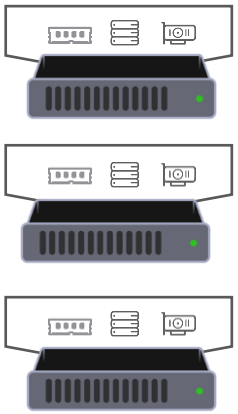
Más
Tokens por Euro

*"**Energía,** no computación, será el embudo #1 para el progreso de la IA"*

- Mark Zuckerberg, CEO, Meta

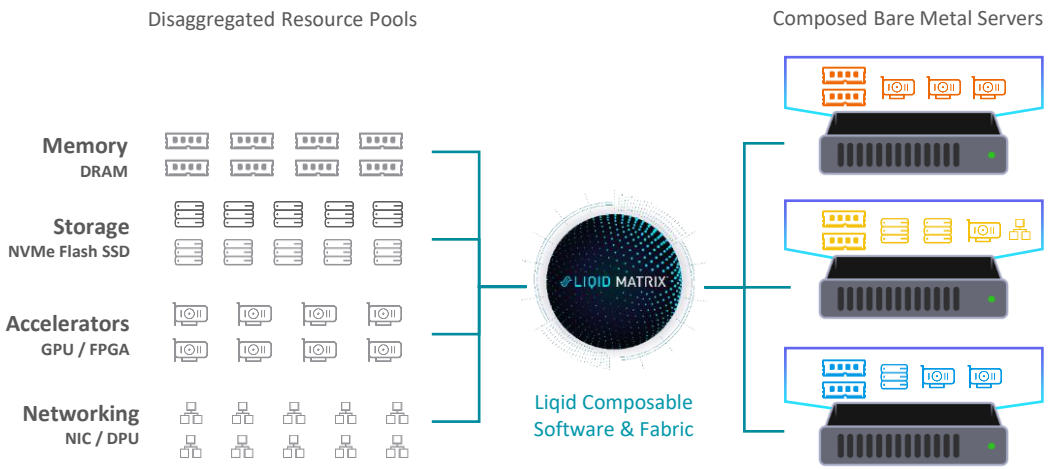
Qué es una infrastuctura CDI

Conventional
AI Servers



- ! Low Device Density
- ! High Power/TCO
- ! Limited Flexibility

Dynamically Configured
AI Servers



- ✓ Highest AI Performance
- ✓ Optimized Efficiency
- ✓ Maximum Flexibility

Los components de Liqid

Devices

PCIe: GPU, DRAM, FPGA, DPU, etc.
CXL: DRAM

Chasis de expansión

LIQID MATRIX

Liqid Composable

- Expansion Chassis
- Host Interface Card
- Optical Cables
- Liqid Matrix Software

Host Interface Card

- Gen5 x16 Per Link

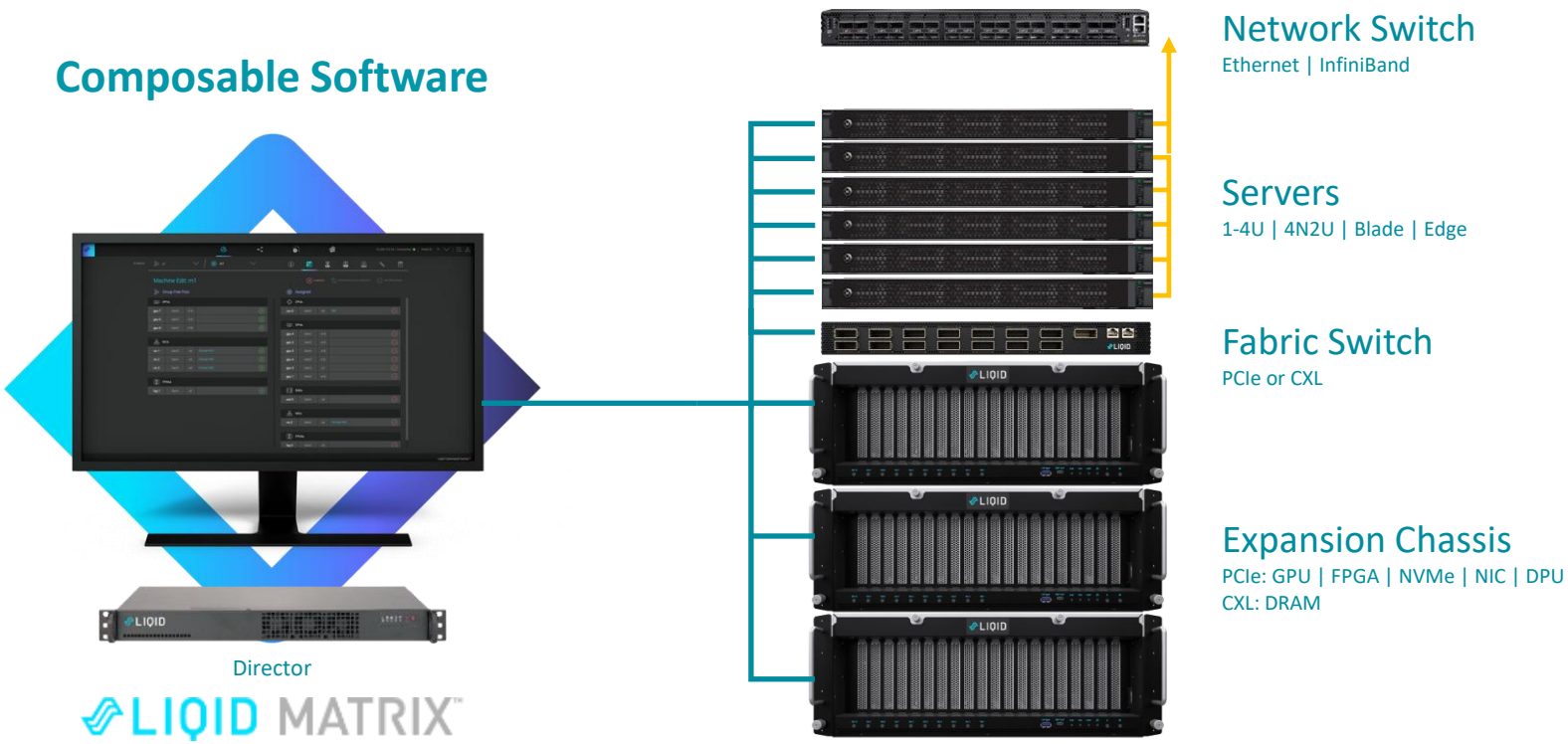
Servidores

1U, 2U, 2U4N, Blade, etc.

CISCO
DELL Technologies
FUJITSU
SUPERMICRO
Hewlett Packard Enterprise

LIQID

Infrastructura, cómo se integra.

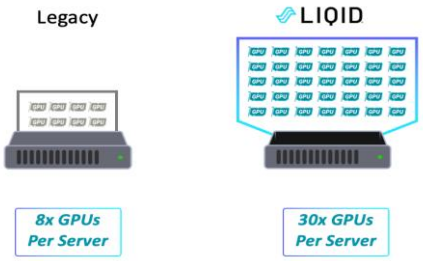


Qué beneficios da Liqid a UC3M

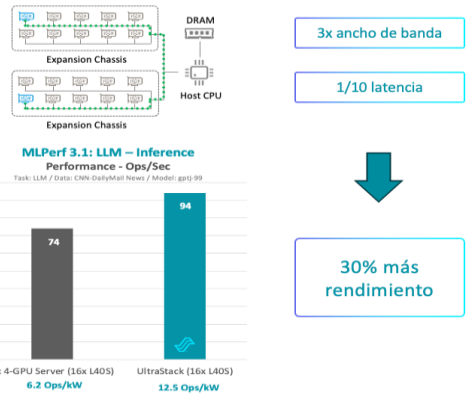
Maximiza Rendimiento

Conecta hasta 30 GPUs/servidor.

Incrementa 30% el rendimiento.



Liqid P2P. Comunicaciones sin pasar por la CPU

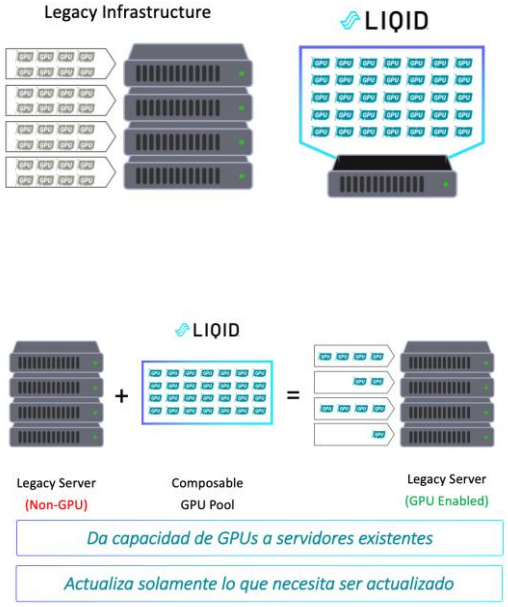


Reduce Costes

Aumenta la eficiencia energética.

Reduce el número de servidores.

Alarga la vida de la infrastructura.



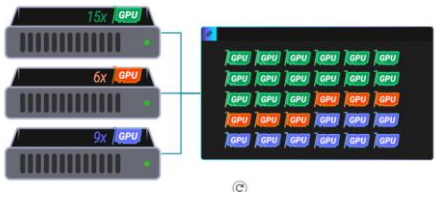
Aumenta la agilidad

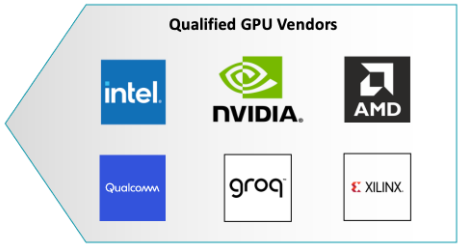
DRAM GPU

Utiliza cualquier tipo de GPU.

Crece con las necesidades de UC3M.

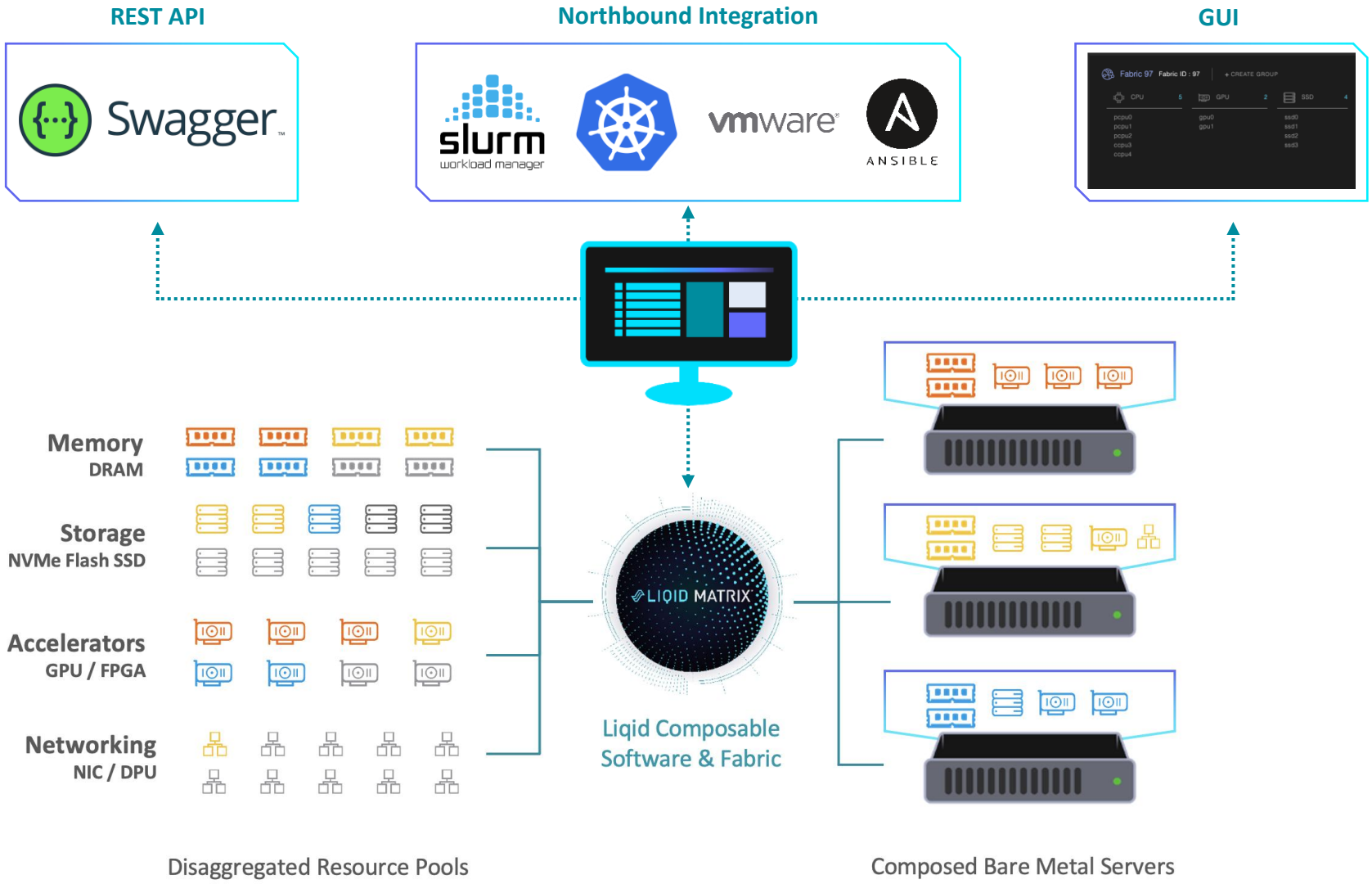
Tecnología puntera.





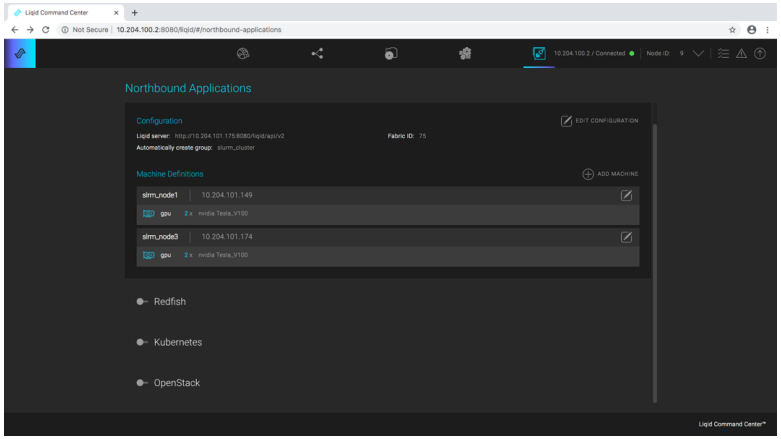
LIQID

Un software que se integra con lo existente.



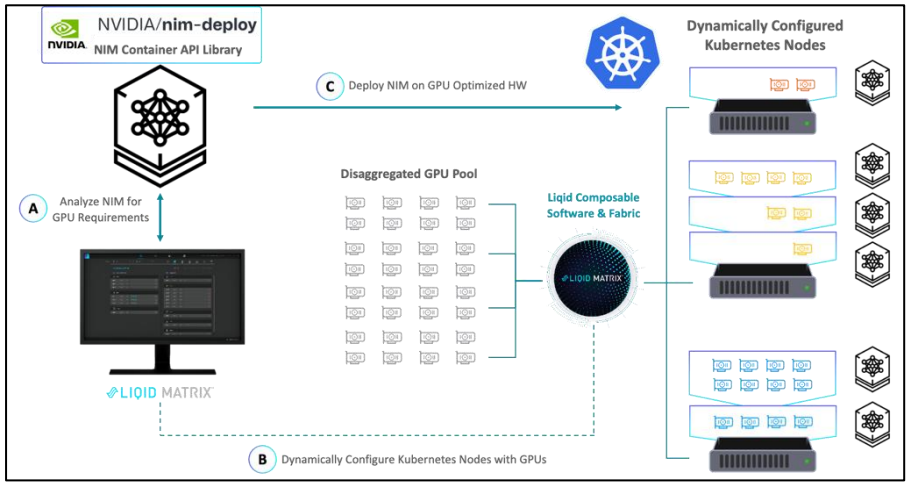
Integración con SLURM y Kubernetes

SLURM Plug-In



- **Enable dynamic HW configuration directly from SLURM**
- **Match HW configuration to workload requirements**

Kubernetes Plug-In



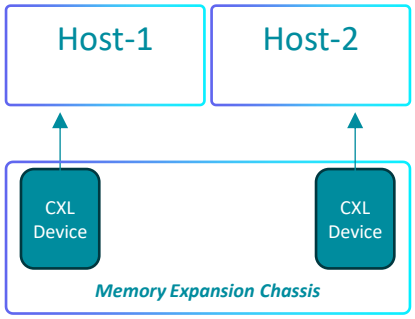
Inferencia automática con Kubernetes

ANSIBLE kubernetes openstack. OMNIA NUTANIX

LIQID

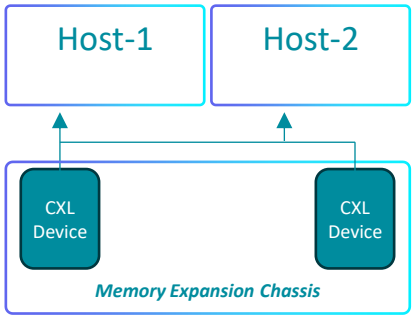
Liqid también permite expansion de RAM con CxL

Pooling de Memoria

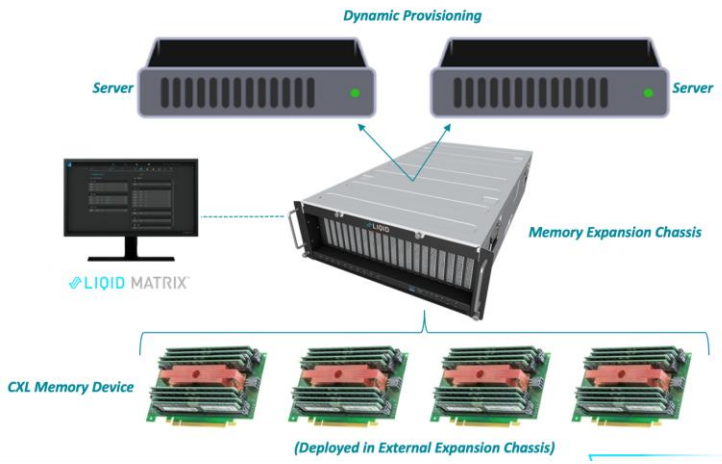


- ✓ Multi-Host Memory Pooling
- ✓ External Expansion Chassis
- ✓ Dynamic Provisioning Per Host

Compartir Memoria

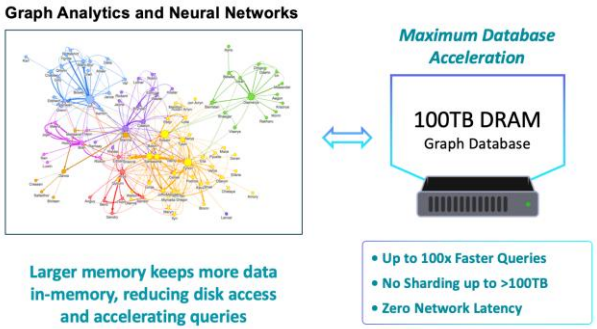


- ✓ Simultaneous Memory Sharing
- ✓ Enable Application Interleaving
- ✓ Performance, Features, TCO

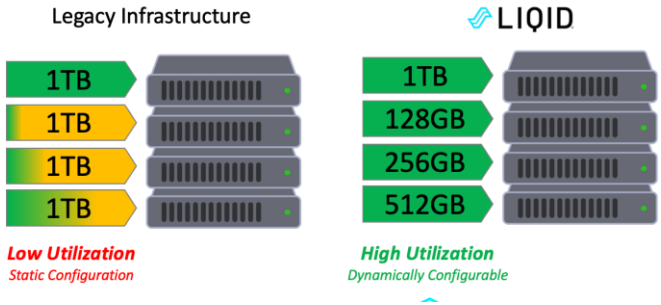


Beneficios de componer RAM dinámicamente

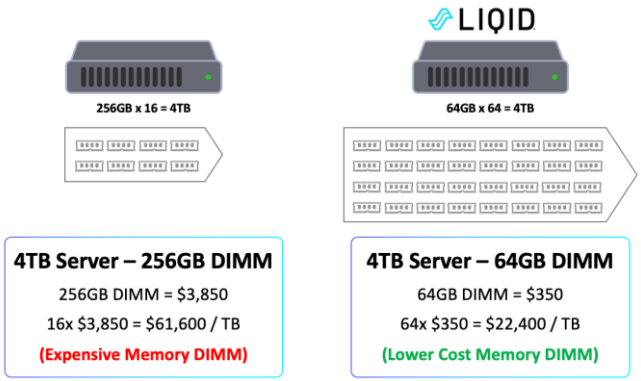
Hasta 100TB RAM/servidor



Reduce la cantidad de RAM comprada



Usa DIMMs más baratas



Reduce hasta 25x el tiempo por workload