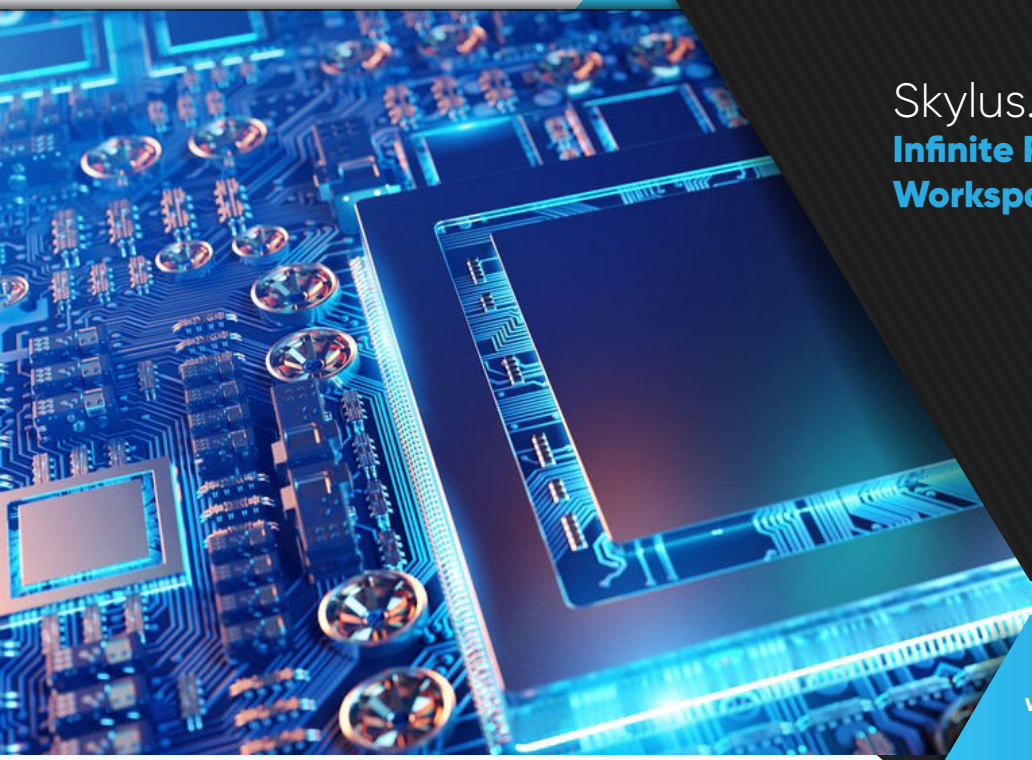
Skylus.ai



Skylus.ai Appliance

Infinite Possibilities: Composable GPU Workspaces for AI Workloads

www.tyronesystems.com/skylus.ai

OVERVIEW

Skylus.ai is a groundbreaking composable GPU aggregation-disaggregation appliance designed to optimize GPU resource management for AI including GenAI workloads. It addresses the critical challenges faced by organizations in utilizing multi-vendor GPU and CPU resources, offering a vendor-agnostic solution that drives faster ideation, fosters collaboration, and accelerates experimentation while optimizing resource utilization and total cost of ownership.

This system is simple, easy, convenient, and affordable for learning platforms, research tools, AI and HPC experimentation labs. It allows for the creation of separate GPU clusters within the server and across GPUs spread across multiple physical machines.

KEY FEATURES

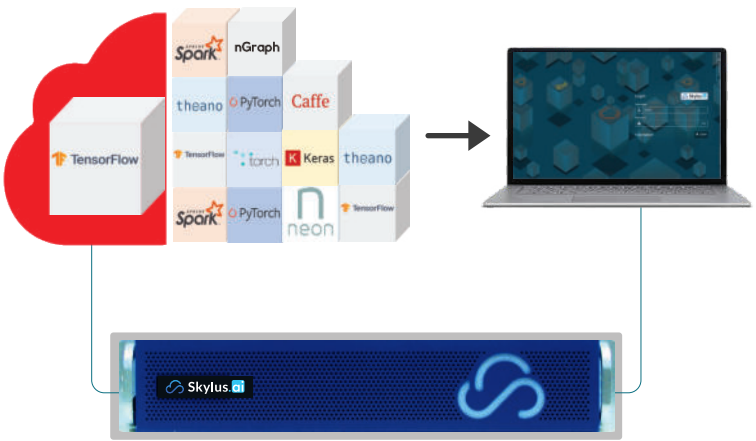
Skylus.ai brings unparalleled features to GPU orchestration management.

AUTOMATED WORKSPACE CREATION

Unified platform helps to build workspaces cum dashboards for Machine Learning Operations (MLops), MLFlow, various DB sets, KubeFlow, image processing and more.

FLEXIBLE SCALING

The appliance can scale up to eight 16 nodes, making it ideal for government enterprise environments.



DIRECT ACCESS TO INBUILT VM AND CONTAINER MARKETPLACE

The playground feature offers single click access to your container and VM environment, making resource allocation effortless.

GPU SHARING AND FLEXIBILITY

Streamline GPU usage to enhance efficiency of compute infrastructure with advanced GPU slicing, assign GPU resources with resource on demand features. One GPU can be shared by up to seven users.

MULTIPLE STORAGE PROTOCOLS

Skylus.ai appliance supports iSCSI, NFS, and S3 storage, providing flexibility for a wide range of storage needs and deployment models.

INTEGRATED AND INTUITIVE DASHBOARD

Clean intuitive dashboard that provides detailed user and group quotas, resource usage (CPU, Memory, Storage), and more enabling easy tracking of your workloads.

RBAC USER MANAGEMENT

Role-based access control (RBAC) simplifies user management with multiple roles like Super-user, Admin, Resource Manager, and User Manager.

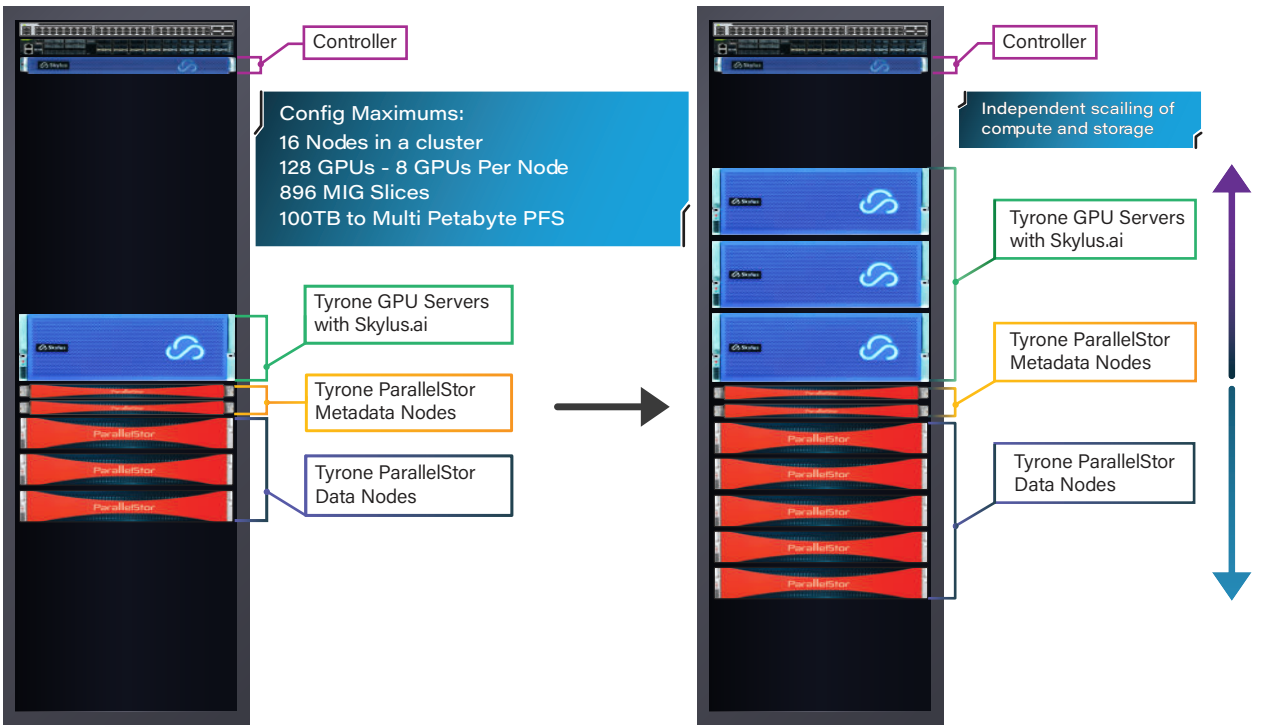
ADDITIONAL VOLUME CREATION

Easily create and attach additional volumes to support large AI projects ensuring that resources limit don't hinder your work.

Skylus.ai

WHO SHOULD USE SKYLUS.AI?

RESEARCH AS A SERVICE – SOLUTION STACK



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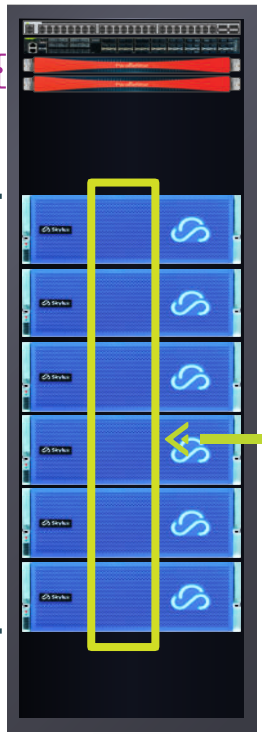
RESEARCH AS A SERVICE - SOLUTION STACK - TIER 0 STORAGE



Tyrone ParallelStor Metadata Nodes

Tyrone GPU Servers with Skylus.ai & ParallelStor DSX Nodes

Config Maximums:
16 Nodes in a cluster
128 GPUs-8 GPUs Per Node
896 MIG Slices
100TB to Multi Petabyte PFS

Tier-0 Storage
Captive Storage of the individual servers are bundled together to create a Parallel File Systems with Global Name Space.

Storage License to be added Separately

Representative diagram - Actual Deplyoment will depend on per Rack Power, Air HANDLING Capacity as well as other Datacentre Environment Conditions.

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BUILDING BLOCKS SPECIFICATIONS

	Appliance Option-1	Appliance Option-2	Appliance Option-3	Appliance Option-4
CPU Core Options	2 x 32/48/64/72/96/128 Core	2 x 32/48/64/72/96/128 Core	2 x 32/48/64/72/96/128 Core	2 x 32/48/64/72/96/128 Core
Vendor Option	Intel/AMD	Intel/AMD	Intel/AMD	Intel/AMD
Memory	16 x 64 GB for Intel, 24 x 64 GB for AMD	16 x 64 GB for Intel, 24 x 64 GB for AMD	16 x 96 GB for Intel, 24 x 64 GB for AMD	16 x 128 GB for Intel, 24 x 96 GB for AMD
Storage	2 x 960GB M.2 - OS 4/6/8 x 7.68 GB NVMe SSD	2 x 960GB M.2 - OS 6/8 x 7.68 GB NVMe SSD	2 x 960GB M.2 - OS 6/8 x 7.68 GB NVMe SSD	2 x 960GB M.2 - OS 8 x 7.68 GB NVMe SSD
Ethernet Network	1 x IPMI, 2 x 10/25/100 Gbps	1 x IPMI, 2 x 10/25/100 Gbps	1 x IPMI, 2 x 10/25/100 Gbps	1 x IPMI, 2 x 10/25/100 Gbps
GPU option	2 x L40S, 1 X H100NVL/ 1 X H200NVL	4 x L40S, 2 X H100NVL/ 2 X H200NVL	8 X H200, 4X H100NVL/ 4 X H200NVL	BX H200 SXM

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Tyrone

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