

## Meet Supermicro's SuperCloud Composer

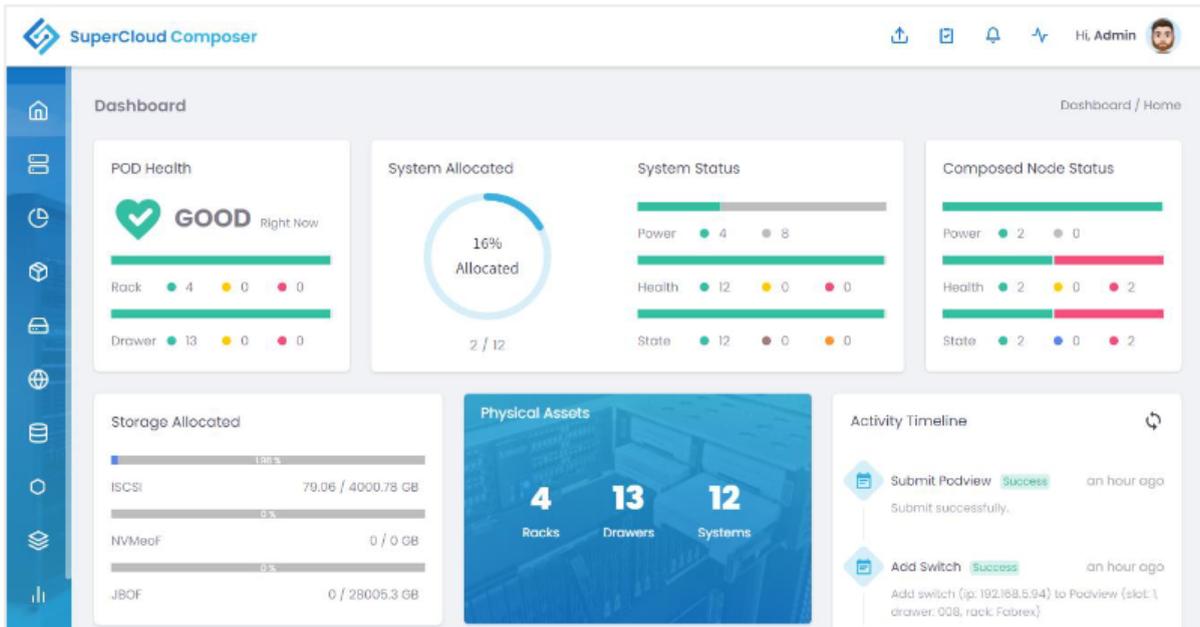
- A single-pane-of-glass platform with a streamlined,intuitive management interface
- A standardized Redfish Northbound API Message Bus for easy third-party software platform integration
- A scalable management platform without adding unnecessary complexity.
- A unified dashboard that encompasses compute, storage, networking, and rack management
- The ability to monitor and manage all elements of the resource pools in a Composable Disaggregated Infrastructure (CDI)
- Inherently software-defined and automated in support of multi-tiered data center-to-edge cloud infrastructure management
- Role-based access control to support modern data center security policies.
- Rich analytics, telemetry, and intelligent system lifecycle management
- Parallel multi-system upgrade and configuration capability reducing hardware maintenance downtime.

### Features:

Intelligent DataCenter Management	Network	Storage	Disaggregated Infrastructure	Composed Node	Administration of Management Appliance
Comprehensive system health monitoring and alerting	Top-of-rack (TOR) Network Provisioning utilizing streamlined GUI wizards	JBOF management	integration support for GigaBIT PCIe Switch	OS deployment in seconds utilizing fast-deploy (Centos, RHEL Ubuntu)	Support for SNMP v2 and SNMP v3
Rack management	Powerful network configurator wizard that creates network template build plans	Storage fabric configurator wizard that creates storage template build plans for NVMe network fabrics	JB Management	Repository to store golden images for fast-deploy deployments	Change IP address/CIDR of SCC appliance
Device discovery and deep discovery	Robust network orchestrator that utilizes a REST API gateway to push network configuration	Creation of storage integration support, including GigaIO Switch	JBOG management	Operating provisioning utilizing PXE boot (ESX 6.8, RHEL 7.5, Ubuntu 18.04, 16.04, 14.04,	DNS

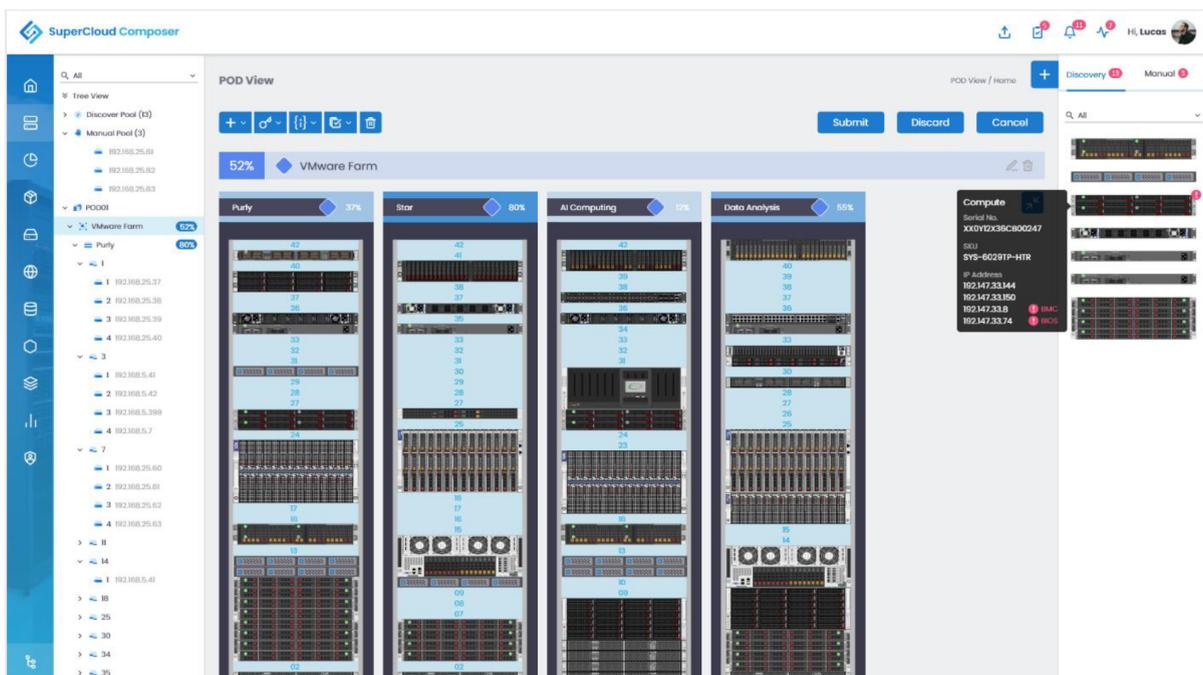
	build plans to infrastructure fabric			SUSE Enterprise Linux 15.1, and Centos 7)	
Pod management utilizing POD View	Switch sweeper	Management support for iSCSI initiators and targets	Allocation of GPUs from a resource pool utilizing GigaIO PCIe fabric	Software inventory to manage Kickstart and ISO images for PXE deployment	NTP
BMC access	Switch configuration detail	Management support for NVMe initiators and targets	Allocation of NVMe storage from a resource pool utilizing GigaIO PCIe fabric		Support to send logs to a Syslog server
iKVM console	Interface status and counters	RAID management and storage controller monitoring for Broadcom 3008 and 3108	Dynamic fabric topology discovery		Streamlined installation configuration wizard that utilizes Ansible Playbooks
UID management	MAC address table		Fabric configuration and reporting		
BIOS harvesting	Zero-touch provisioning		Fabric representation persistence & recovery		
Asset Tagging			Analytics of thermal and power for JBOG resource box		
Physical asset collateral and collection			JBOG physical asset collection		
FRU management			Interface status and counters		
DMI					
GPU monitoring					

## Dashboard



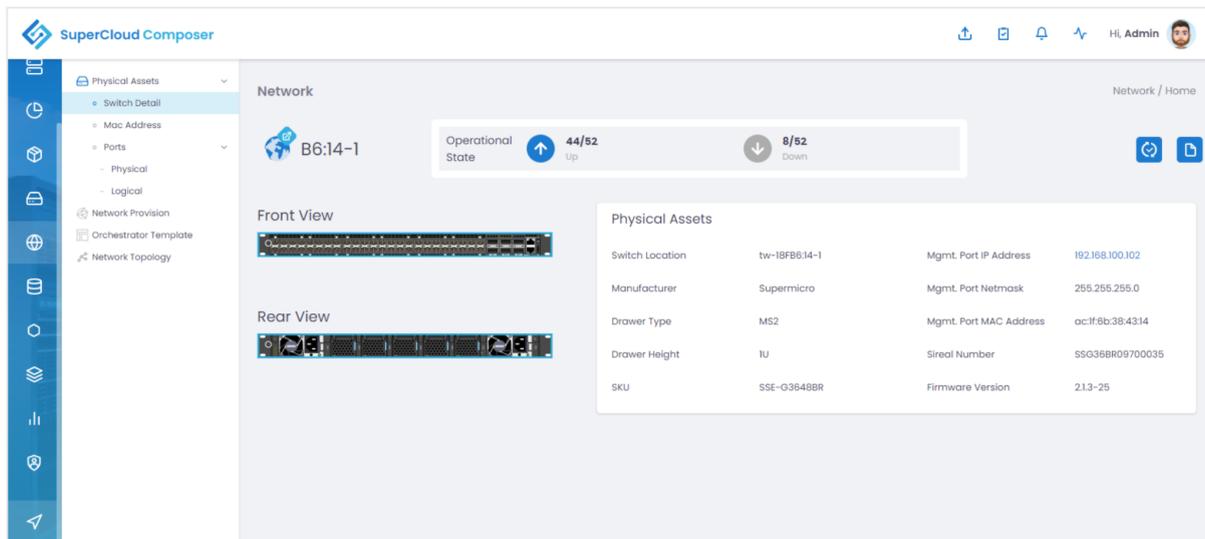
Dashboard is an information management tool to provide aggregated views of POD health, visualized system data analytics, activity event timeline tracking utilizing standardized icon footprints, providing the administrator at a glance awareness of data center operations. Administrators can click on each component within the dashboard to learn more detailed metadata about system status, composed node status, and allocated storage.

## POD View

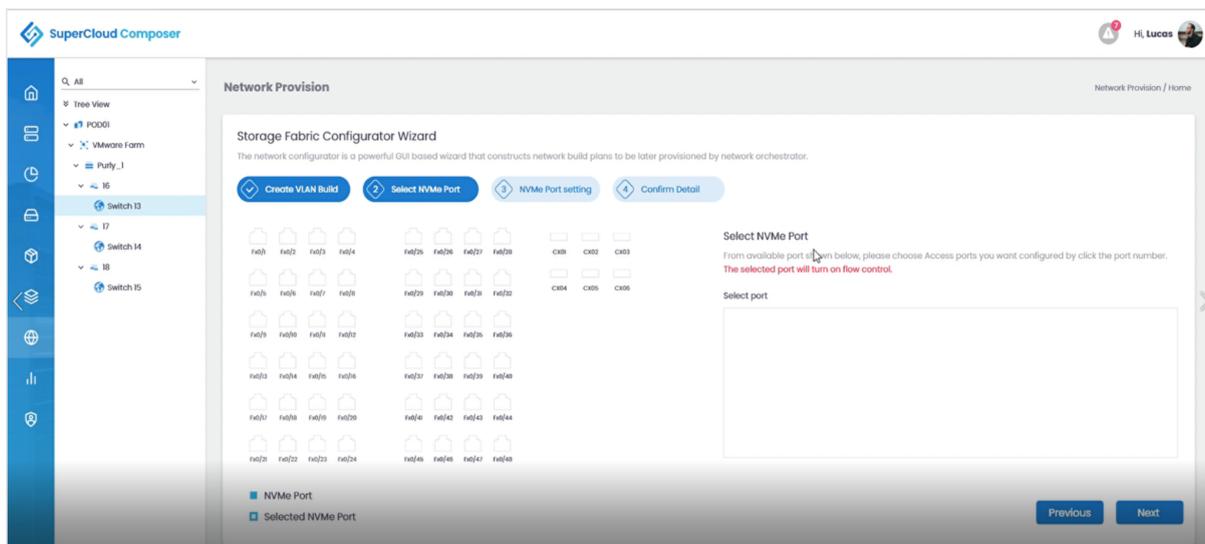


The Pod View's rack management solution provides Data Center operatives the flexibility to organize their data center requirements based on common workloads assigned to a rack deployment either at the edge or physical appliances within a Data Center that are miles away.

# Network

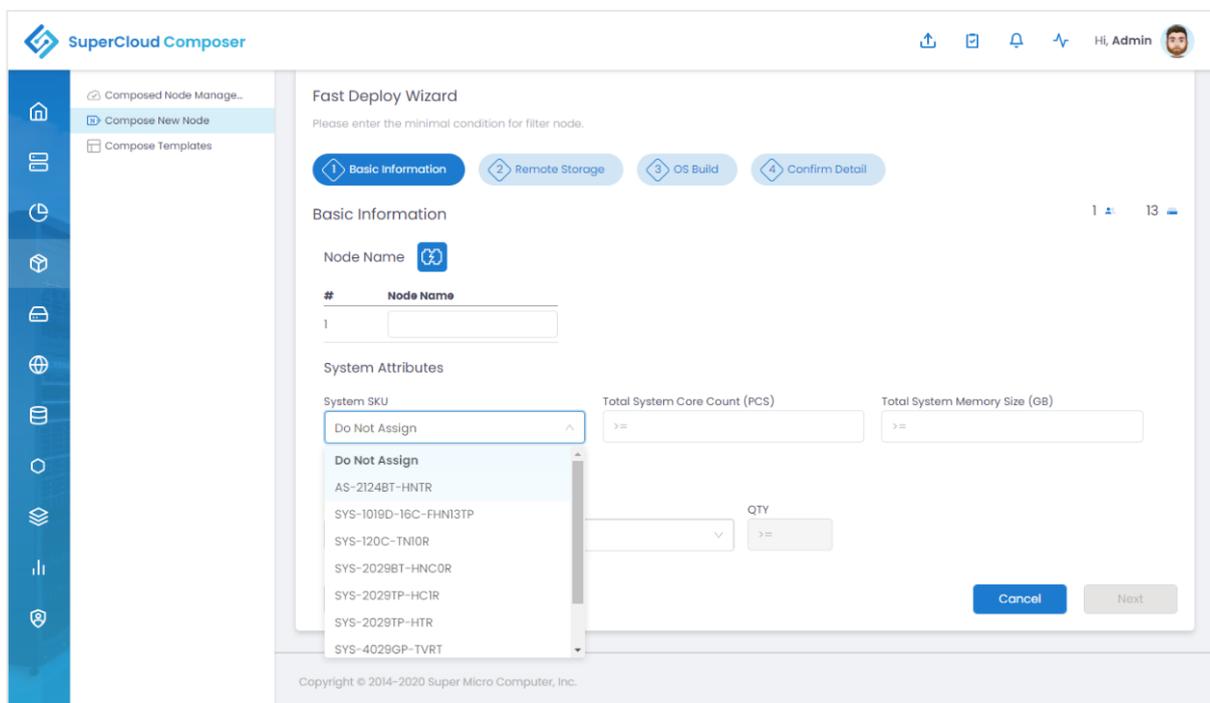


SuperCloud Composer (SCC) enforces a network blueprint where it constructs VLANs to partition specific workloads from segmented broadcast domain traffic.

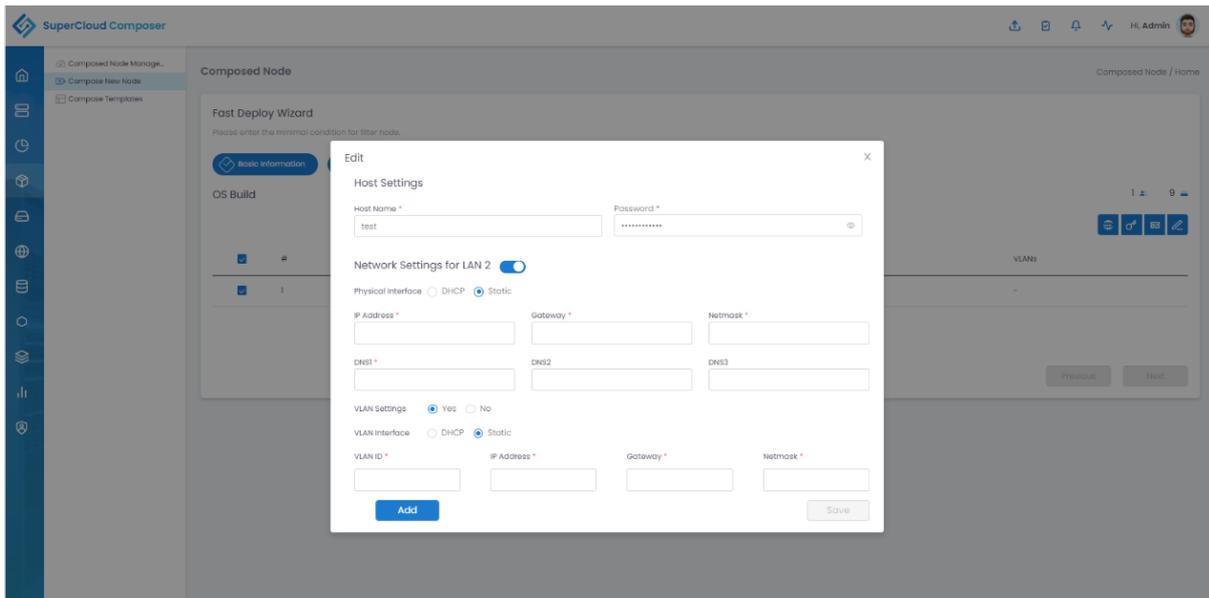


*SuperCloud Composer utilizes a rich feature called network provisioning. It pushes build plans to data switches either as single-thread or multi-thread operations where Composer updates multiple switches simultaneously by shared or unique build plan templates. Build plan templates for data switches are constructed by a Network Configurator Wizard in JSON format and pushed by a Network Orchestrator engine utilizing industry standardized API calls. During network management operation, SuperCloud Composer also offers a rich, intelligent network agent called switch sweeper to maintain configuration compliance between original build plans constructed by network configurator and operational build plans within switch dynamic memory.*

## Fast OS Deployment and Provisioning



*During the fast-deploy composition phase, architects execute a composed new node wizard where snapshots of OS images are composed with customized metadata that has been ingested within the OS image. The architect instructs this customized metadata when performing the creation of a user-defined build template*



These are just a view of the features SuperCloud composer has to offer. SuperCloud Composer also delivers a software-defined model, leveraging pools of Composable Disaggregated resources across GigalO's PCIe switch fabric for low latency workloads.

Supermicro's software framework enables Administrators to deploy collections of fluid resources (GPU, FPGA, and NVMe flash) utilizing an intuitive provisioning wizard within seconds. Each composed system can allocate resources on-demand across a scalable GigalO FabreXfabric and then return resources back to the pool for other systems.

This gives you the freedom to re-allocated resources as they are required and as your business evolves, allowing you to keep up with the immense speed of IT change in our modern world.

