

MegaRAC® Composer™ Pod Management Software

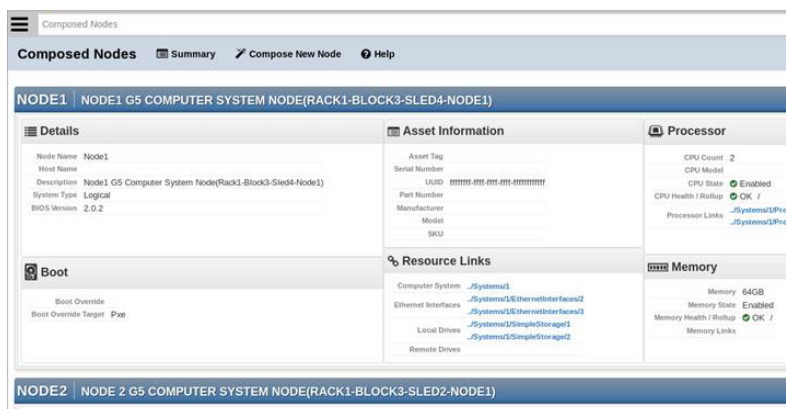


Hyperscale pod management solution providing simplified physical configurations of compute, network and storage level resources

Developed to be fully compliant with Intel® Rack Scale Design, MegaRAC® Composer™ from American Megatrends is a pod management software solution that allows users to browse physical resources at the rack, chassis, and system level through an intuitive web-based user interface. Administrators can then assign and compose those physical resources to create a logical node, which provides the advantage of demand-driven dynamic scaling to optimize datacenter resource utilization. MegaRAC Composer also allows for the composition of physical resources based on templates, which can then be stored and reused as a time-saving feature. In addition, MegaRAC Composer gives users the ability to power on, force off, and gracefully shutdown composed nodes.

BENEFITS

Developing with Intel® Rack Scale Design makes it possible to configure hardware to closely match the needs of the software. The MegaRAC Composer interface simplifies the process of configuring hardware workflows by presenting a visual representation of the available hardware. MegaRAC Composer also sends alerts to the operator when it detects poor resource allocation, based on usage and slowdowns. It can also offer alternate recommendations for the allocation of resources.



Composed Nodes Summary View: Displays key information for pools of compute, memory, and storage resources across each composed node, as well as power state

KEY PILLARS:
Power | Fault | Discover | Boot
Configuration | Telemetry

HIGHLIGHTS

Main Features

- Compliant with Intel® Rack Scale Design v1.2
- WebUI dashboard for hierarchal view
- Logical node composition based on payload templates
- Node provisioning through PXE server
- Power operations
- Restore composed node resources on PSME power cycle

AMI OpenStack® Plug-in

- Built on OpenStack Liberty release
- OpenStack Horizon Plug-in
- Node provisioning viewer for remote keyboard video mouse (KVM)
- OpenStack component provisioning

WebUI Dashboard

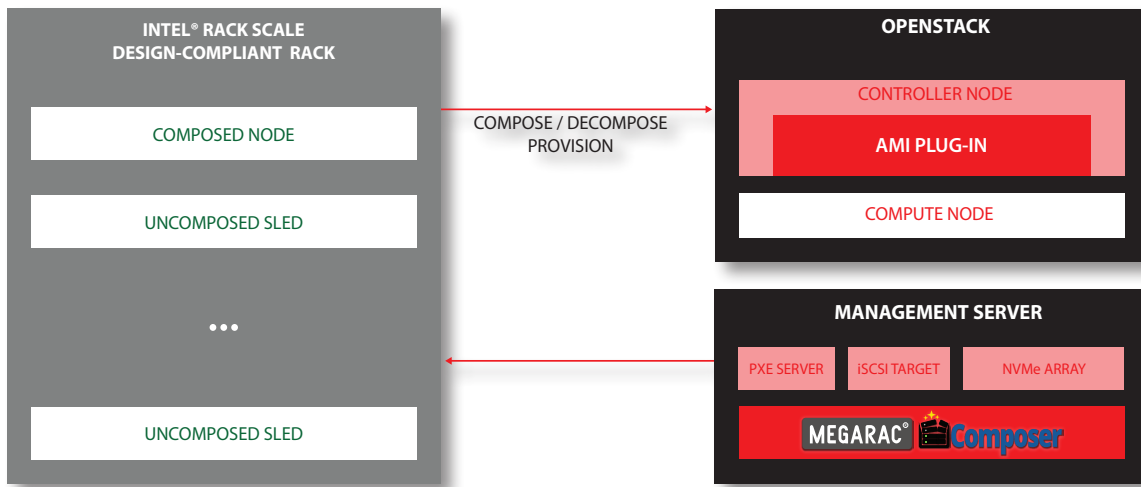
- Composed nodes summary
- Chassis collection summary
- Systems summary
- Critical alerts
- Critical events

Provisioning Process

- Physical resource allocation
- Logical node assembly
- Node provisioning

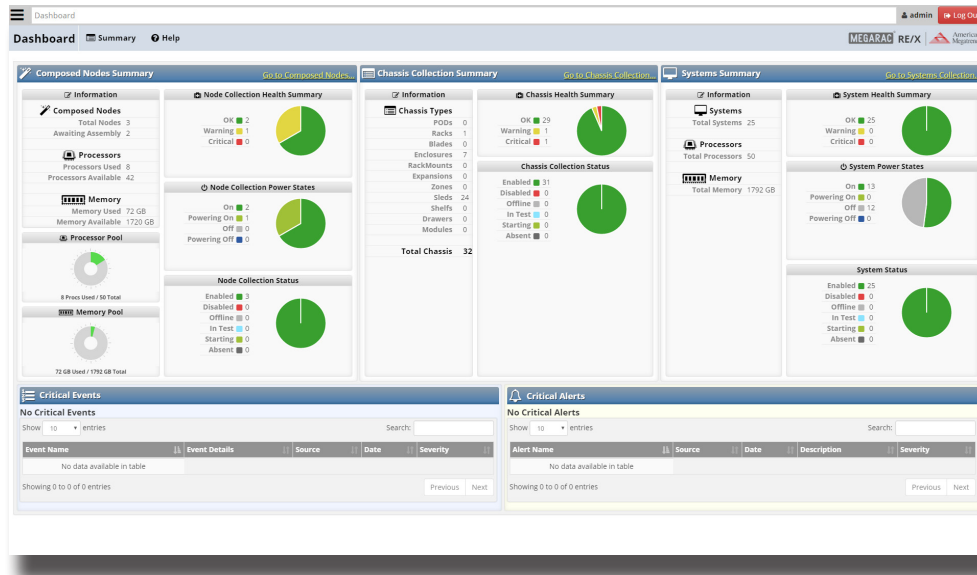
How does MegaRAC Composer interact with OpenStack Architecture?

MegaRAC Composer can be initiated within the OpenStack Horizon WebUI



The MegaRAC Composer Dashboard

The main dashboard displays the initial hierarchal overview of the rack, chassis and system resources



SYSTEM REQUIRED SERVICES

PREREQUISITES INCLUDE:

- Ubuntu Server (or similar validated OS)
- Internet access for server
- OpenJDK
- Drawer computer system
- External host attached to storage network of rack
- Storage service setup configuration
- DHCP server configuration
- iPXE open source network boot firmware compilation/ installation
- 32 GB HDD/SSD minimum storage
- MegaRAC Composer acts as a server when receiving events from clients over SSL
- MegaRAC Composer acts as a client when obtaining information from external services after CA certificate
- Custom certificates can be configured for secure HTTPS



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For more information:

<http://ami.com/products/remote-management/pod-manager/megarac-composer/>

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