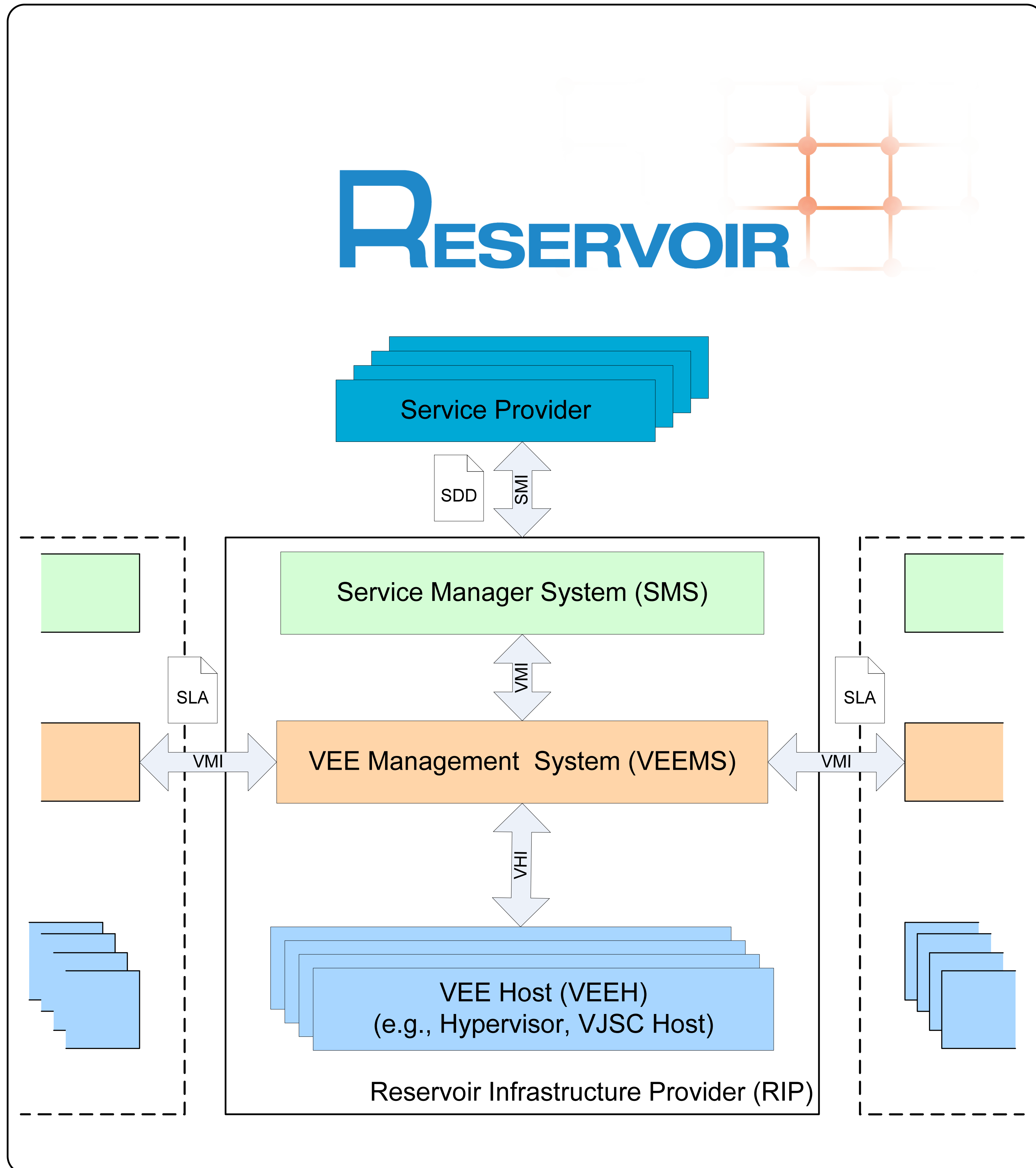
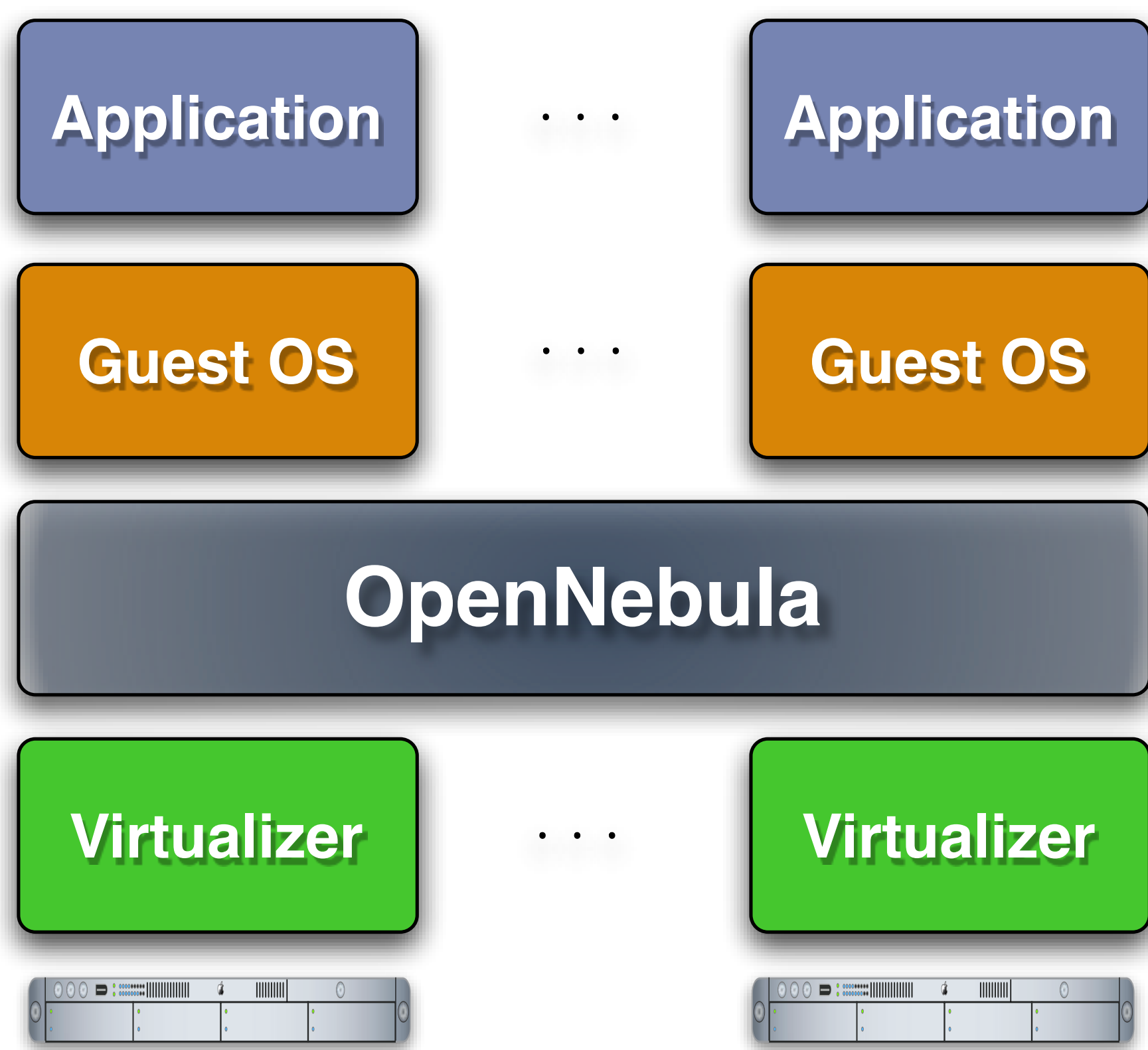


The RESERVOIR Virtual Execution Environment Manager

The Engine for Data Center Virtualization & Cloud Solutions

OpenNebula is a virtual infrastructure engine that enables the dynamic allocation of virtual machines on a pool of physical resources. **The OpenNebula engine extends the benefits of virtualization platforms from a single physical resource to a pool of resources, decoupling the server not only from the physical infrastructure but also from the physical location.** OpenNebula transforms a physical cluster into a flexible virtual infrastructure which dynamically adapts to the changing demands of a service workload. OpenNebula leverages existing virtualization platforms to create a new virtualization layer between the service and the physical infrastructure.

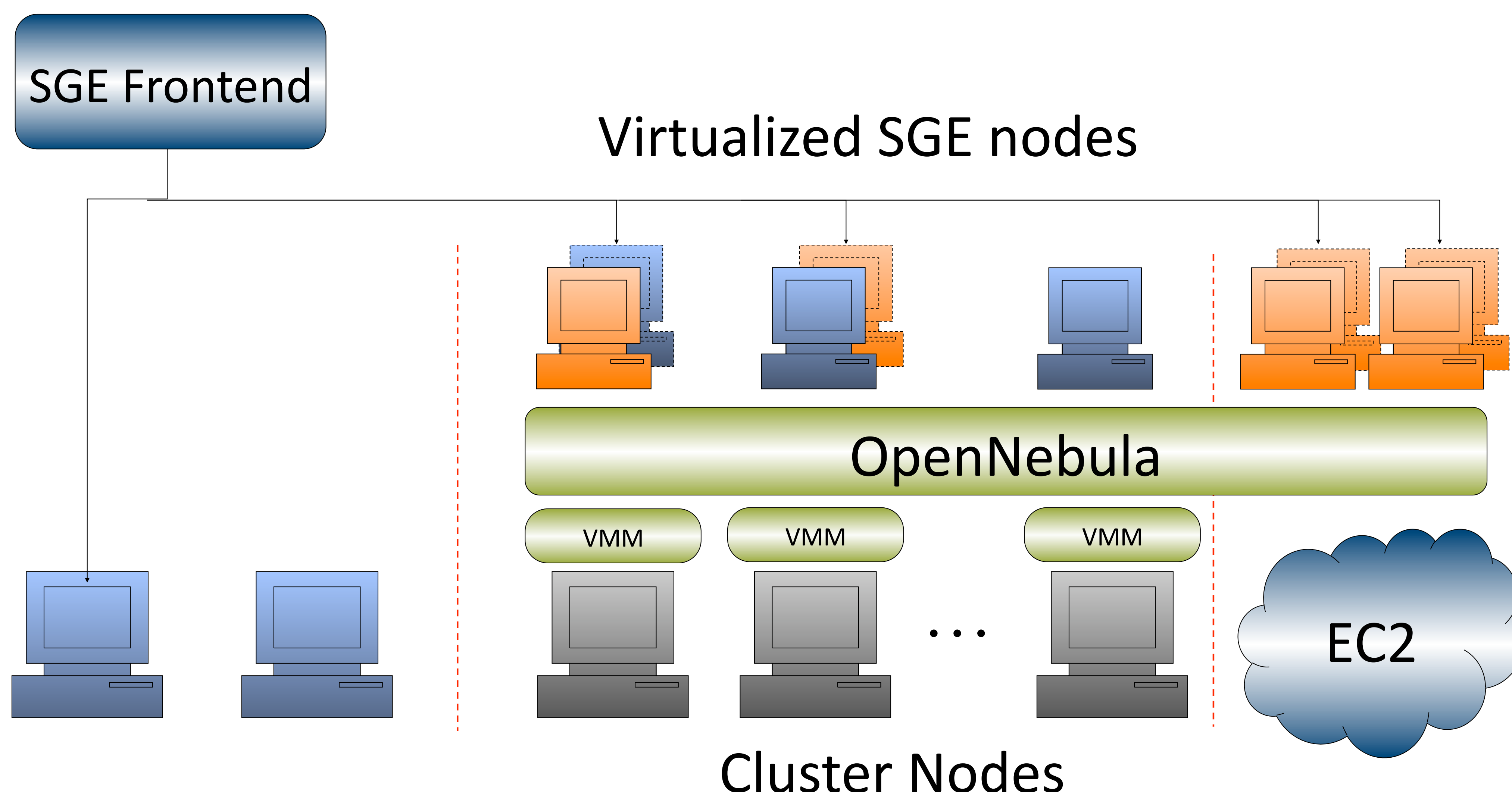


Features and Benefits

- Efficient Resource Management
- Powerful Interface
- Failure Tolerance
- Open and Flexible Architecture
- On-demand Scale out of Service Workloads

- Ease of Installation and Administration
- Centralized management
- Dynamic resizing of the physical infrastructure
- Dynamic cluster partitioning
- Support for heterogeneous workloads

Virtualized Cluster Architecture



OpenNebula is being developed by the Distributed Systems Architecture Group at Universidad Complutense de Madrid. (dsa-research.org)

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