

Moab NODUS Cloud OS

For Extending Your On-premise HPC Resources

Features:

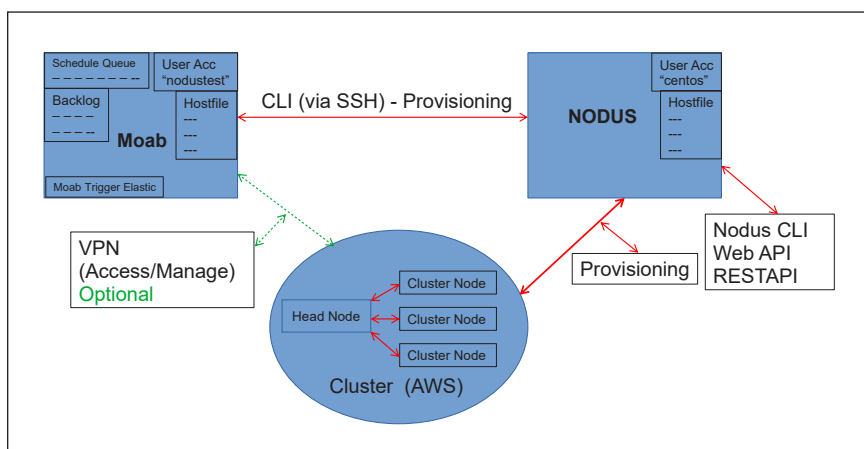
- Feature-rich bursting capability
- Industry-leading cluster utilization
- Robust policy and SLA enforcement
- Highly customizable for different cluster configurations
- Supported Cloud Providers:
 - AWS
 - Azure
 - Google Cloud
 - Oracle Cloud
 - Open Telekom Cloud
 - HUAWEI Cloud
 - Any other provider
- Automated deployment and release of nodes
- Supports all public clouds of any size, as well as private cloud infrastructures
- Heterogeneous clusters
- Integrates with on-premise resources
- Credentials management; admins can set up user accounts to control costs and security
- Enhanced file management and job output
- Run workloads anywhere—in your datacenter, and/or in the cloud, on bare metal, VMs, containers, etc.
- Bursting can be based off the backlog of different organizational groups (users, groups, accounts, etc.)

Overview

Adaptive Computing's Moab HPC Workload and Resource Orchestration Platform, already a world leader in dynamically optimizing large-scale HPC computing environments, has been enhanced to automatically extend on-premise HPC workloads into public clouds. Moab is now fully integrated with NODUS Cloud OS 4.0, which works with Moab to deliver cloud services, enabling true scalability and elasticity. Moab NODUS Cloud OS is powerful, flexible, and easy to implement.

Multi-Cloud Access is Built In

Accessibility to every major cloud provider is available within both the Moab interface (CLI or Viewpoint) and the NODUS Cloud OS interface (CLI or GUI). This gives users and admins virtually unlimited resources in the cloud and an immediate competitive advantage by making access to multiple public clouds easily attainable. All these areas have communications set up between them as well as job flow. Deploying cloud-hosted resources becomes much easier than going directly through the cloud provider because access is already preconfigured. This streamlined integration with Moab makes moving your HPC workloads to the cloud seamless.



Moab Calling NODUS Cloud OS Architecture Design

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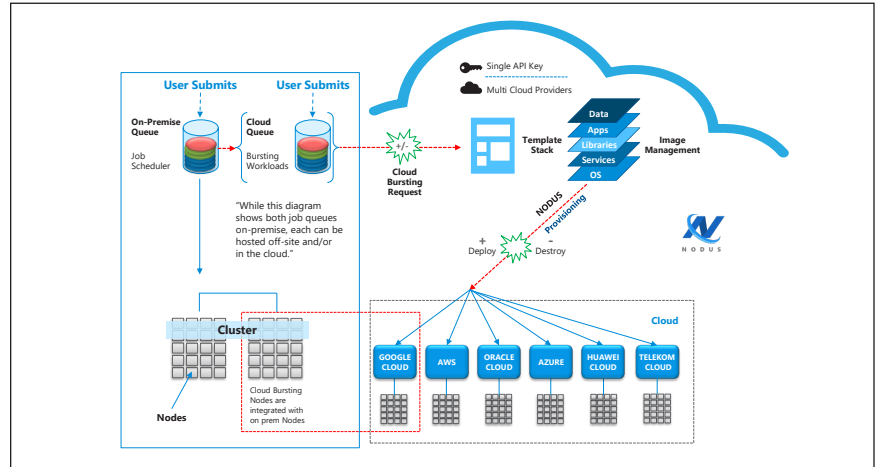
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Benefits:

- With Moab NODUS Cloud OS running from a laptop or a server you can have more computing power available to you than the TOP500 combined.
- Truly elastic HPC infrastructure management
- Move across clouds easily and switch between them with the click of your mouse
- Automatically run jobs on-premise or in the cloud
- Get true scalability and elasticity
- Only pay the cloud provider cost for what you use, when you are using it, on an as-required basis
- Increase productivity while reducing Cap Ex costs
- Solve cloud migration challenges
- Accelerate time-to-results
- Spin up an unlimited number of nodes in the same time as it would take to spin up one
- Intelligently manage cloud resources so that they can be used cost-effectively and efficiently

[FREE DEMO/EVALUATION](#)



Cloud Becoming On-premise with Moab NODUS Cloud OS

Reduce Your Infrastructure Costs

This is the best cloud resource management solution to maximize the utilization of on-premise infrastructure and right size cloud investments. Seamlessly spin up and spin down on-premise and cloud resources for a hyper-efficient and agile infrastructure strategy.

Gain Access to Unique, Specialized Resources

Drastically improve the performance of certain workloads without having to justify the acquisition of the fixed resources for those special needs. Have instant access to GPUs and other specialized resources.

Reduce Supplemental Costs

Using HPC in the cloud helps avoid the expenses for additional cooling, power and facilities, as well as expensive personnel time for procurement, upgrading systems, and decommissioning all of the bursted cloud resources.

Summary

Integration with Adaptive Computing products is seamless, so there is no need to buy new third-party hardware or software. From the automated deployment and release of nodes, to the ease of use for admins, extending on-premise HPC infrastructure becomes a simple endeavor requiring minimal time and effort.

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