Adaptive COMPUTING

Moab Cloud/NODUS
Cloud Bursting

Adaptive Computing's product Moab Cloud/NODUS Cloud Bursting, already a world leader in dynamically optimizing large-scale HPC computing environments, has been enhanced to extend running HPC workloads into public clouds. The Moab Cloud/NODUS Cloud Bursting solution is powerful, flexible, easy to implement and manage. From the automated deployment and release of nodes, to the ease of use for admins, it makes access to multiple public clouds easily attainable.

Moab Cloud/NODUS Cloud Bursting enables seamless access to all leading cloud providers so that infrastructure provisioning becomes a simple endeavor requiring minimal time and effort.

Supported Cloud Providers
Amazon Web Services (AWS) • Microsoft Azure
Google Cloud Platform • AliCloud
Open Telekom Cloud • Oracle • Others

Supported Platforms
Docker • VMware vSphere • OpenStack
VMware Cloud Director • Others

Moab Cloud/NODUS Cloud Bursting is excellent for cloud bursting

- **Feature-rich bursting capability**
- **Industry-leading cluster utilization**
- **Robust policy and SLA enforcement**
- **Highly customizable for different cluster configurations**

Why Moab Cloud/NODUS Cloud Bursting?

- **Seamlessly run jobs on-premise or in the cloud**
- **Fully utilize existing infrastructure investments and deliver higher ROI**
- **Integrates with on-premise resources**
- **Optimize cloud costs by truly elastic cloud resource de-allocation - a unique feature in this market**

Moab Cloud/NODUS CLOUD BURSTING
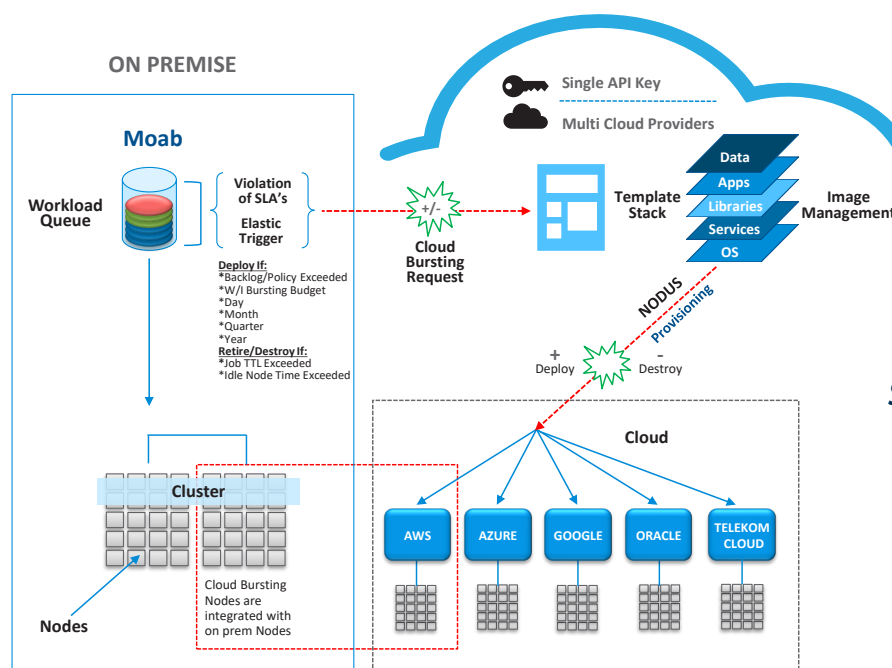
Moab Cloud/NODUS Cloud Bursting Simple...Yet Powerful!

Moab Cloud/NODUS Cloud Bursting Solution

Benefits

Truly Elastic HPC infrastructure management
Moab Cloud/NODUS Cloud Bursting is the only solution in the market to seamlessly manage on-premise and cloud infrastructure. Its powerful, yet simple command line and GUI tools manages infrastructures efficiently.
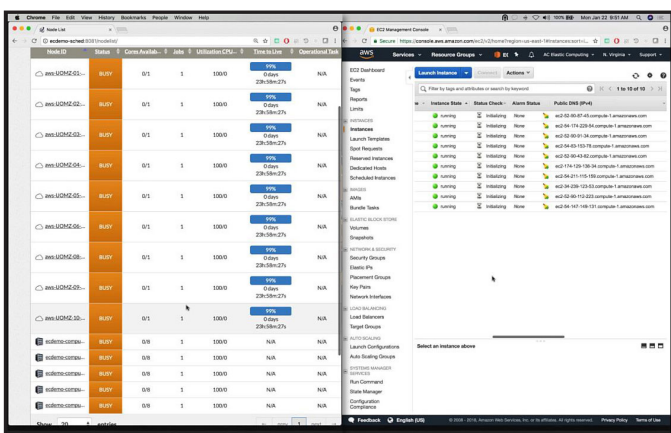

Nodes working on-premise with cloud nodes working in AWS

Reduce your infrastructure costs
This is the best resource management solution to maximize the utilization of on-premise infrastructure and rightsize 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.

Stop chasing spare resources - instead, scale results
Avoid cost overruns with the only resource management infrastructure to offer safety limits for bursting that can be set on a daily, weekly, quarterly, and yearly basis.

Reduce supplemental costs
HPC cloud bursting 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.

Integration with Adaptive products is seamless, so there is no need to buy new third-party software. No additional hardware is required, resulting in huge savings.

```
[root@ecdemo-sched ~]# mdiag -n
compute node summary
Name                    State   Procs     Memory        Opsys

ecdemo-compute05.ac     Busy    0:8     31986:31986     linux
ecdemo-compute04.ac     Busy    0:8     31986:31986     linux
ecdemo-compute03.ac     Busy    0:8     31986:31986     linux
ecdemo-compute02.ac     Busy    0:8     31986:31986     linux
ecdemo-compute01.ac     Busy    0:8     31986:31986     linux
aws-KF4B-02-SOVA.ec2    Busy    0:1       994:994       linux
aws-KF4B-01-V67B.ec2    Busy    0:1       994:994       linux
aws-KF4B-06-BOAO.ec2    Busy    0:1       994:994       linux
aws-KF4B-09-KWVC.ec2    Busy    0:1       994:994       linux
aws-KF4B-03-9AOH.ec2    Busy    0:1       994:994       linux
aws-KF4B-10-DGMM.ec2    Busy    0:1       994:994       linux
aws-KF4B-05-U78X.ec2    Busy    0:1       994:994       linux
aws-KF4B-07-PKAJ.ec2    Busy    0:1       994:994       linux
aws-KF4B-08-JRP0.ec2    Busy    0:1       994:994       linux
-----                   ---     0:49    168876:168876     -----

Total Nodes: 14  (Active: 14  Idle: 0  Down: 0)

[root@ecdemo-sched ~]#
```

Command line output showing both the on-premise and cloud nodes as part of the HPC cluster

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