Moab Cloud/NODUS Cloud Bursting Multi-Scheduler Support

Adaptive Computing's Moab Cloud/NODUS Cloud Bursting Multi-Scheduler Support works on any HPC Job Scheduler to allow seamless access to all leading cloud providers. The NODUS Platform provisions nodes in the cloud. It is easy to use, manage, and configure, and integrates with on-premise resources. It offers full stack provisioning, it is automated, and is very cost-effective.

Access to multiple public clouds is typically a challenge in HPC computing environments. Moab Cloud/NODUS Cloud Bursting Multi-Scheduler Support makes access easily attainable. From the automated deployment and release of nodes, to the ease of use for admins, this solution offers several advantages over competing products. It has the ability to burst to multiple cloud providers (AWS, Google, Azure, Oracle, Open Telekom Cloud, etc.) and bare metal provisioning.

Why Moab Cloud/NODUS Cloud Bursting Multi-Scheduler Support?

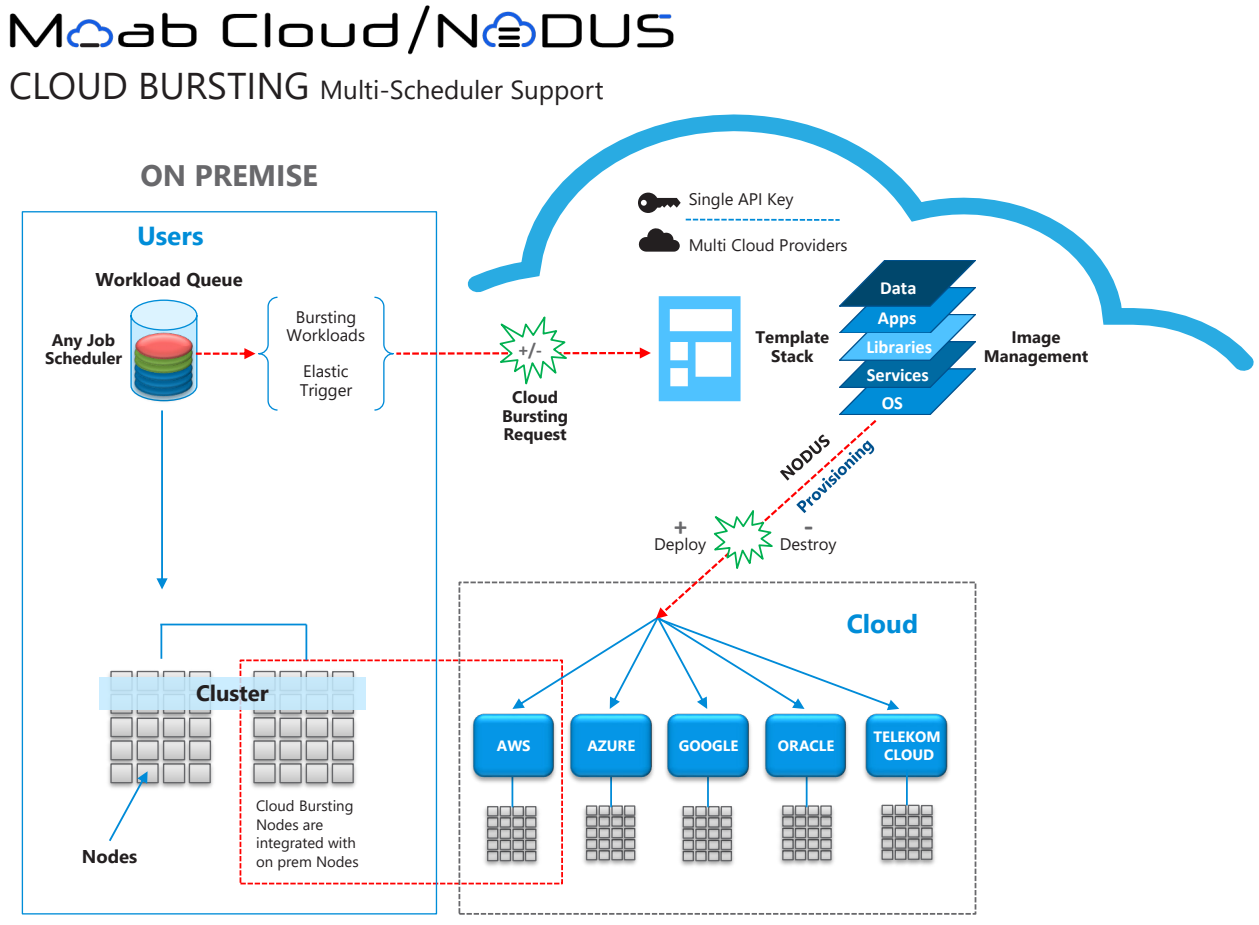
- **Seamlessly run jobs on-premises or in the cloud**
- **Fully utilize existing infrastructure investments and deliver higher ROI**
- **Integrates with on-premise resources**
- **Optimize cloud costs by truly elastic cloud resource de-allocation - a unique feature in this market**

Supported Cloud Providers

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

Supported Platforms

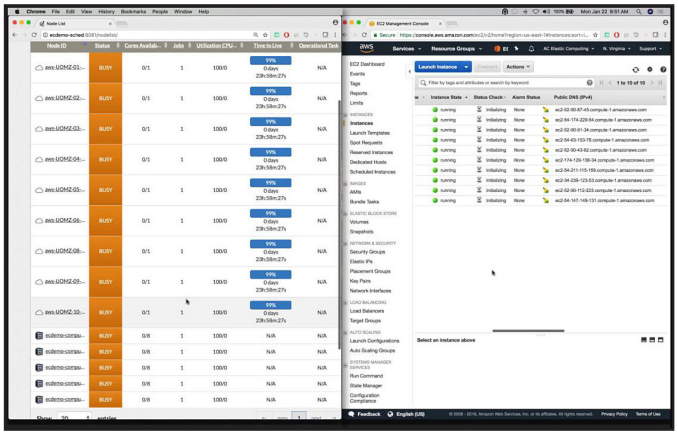
Docker • VMware vSphere • OpenStack
VMware Cloud Director • Others



Moab Cloud/NODUS Cloud Bursting Multi-Scheduler Support-cont'd

Benefits

Truly Elastic HPC infrastructure management
Moab Cloud/NODUS Cloud Bursting Multi-Scheduler Support is the only solution in the market to seamlessly manage on-premise and cloud infrastructure. Its powerful, yet simple command line and GUI tools manage infrastructure 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 ~]#
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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