HPC Organizations Can Reduce On-Premise Cluster Sizes and Costs with Adaptive Computing's NODUS Cloud Bursting Solution

Savings can amount to millions of dollars on "on-premise" HPC cluster capital expense

NAPLES, FL, UNITED STATES, April 9, 2018 /EINPresswire.com/ -- Typically, each HPC organization does a partial or complete cluster refresh every three to five years. Due to the maturity of cloud hardware and software providers, when organizations refresh their HPC cluster they need to consider cloud bursting as part of their overall strategy.

HPC organizations that utilize cloud service providers (AWS, Azure, Google, Oracle, etc.) in conjunction with Adaptive Computing's NODUS Cloud Bursting Solution can significantly reduce their on-premise cluster sizes and costs by as much as 40-50 percent, and burst the

Making cloud strategies more accessible than ever before

rest of their HPC workload to the cloud, by implementing this hybrid approach.

Each workload that is run in the cloud can be matched with the exact hardware stack that is best suited for that workload. This approach will assure all workloads are completed in the timeliest and most cost-efficient manner, typically saving millions of dollars on "on-premise" HPC cluster capital expense. These savings can be moved to a manageable cloud-bursting op-ex cost (pay-as-you-go).
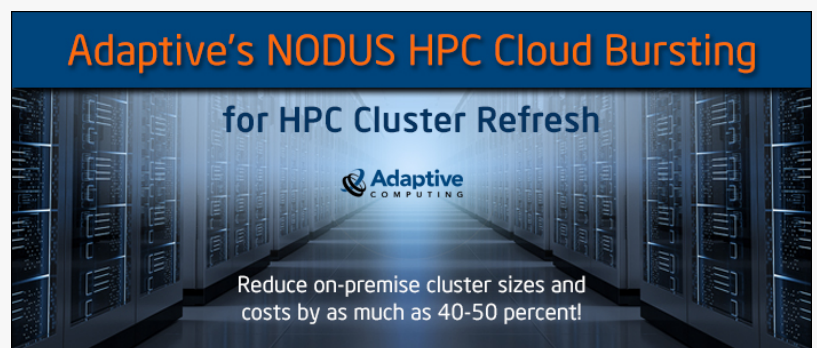
With the reduction of on-premise HPC cluster sizes, additional savings are achieved by reducing power consumption, cooling costs and support personnel.

Adaptive Computing's new NODUS Cloud Bursting Solution was released in January 2018, and additional features are planned for the next six months.

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> *Arthur Allen, president, Adaptive Computing.*

"Since launching the NODUS HPC Cloud Bursting Solution, the company has given over 35 demos, with several organizations moving into the proof-of-concept (POC) phase, an indication that HPC

users are embracing the idea of leveraging public clouds to ensure their work can get done," according to Arthur Allen, president of Adaptive Computing.

About Adaptive Computing

Adaptive Computing manages some of the world's largest computing installations. Our leadership in IT decision-engine software has been recognized with over 45 patents, and more than a decade of user experience has resulted in a solid Fortune 500 and Top500 supercomputing customer base.

Adaptive Computing's Workload and Resource Orchestration software platform, Moab, is a world leader in dynamically optimizing large-scale computing environments. Moab intelligently places and schedules workloads, and adapts resources to optimize application performance, increase system utilization, and achieve organizational objectives.

Adaptive's Moab/NODUS Cloud Bursting is a highly flexible and extendable solution that allows HPC Systems to "burst" additional workloads to an external cloud on demand. All required workload resources are automatically deployed as needed, and then retired when the resources are no longer required.

Adaptive Computing's mission is to bring higher levels of decision, control, and self-optimization to the challenges of deploying and managing large and complex IT environments, resulting in accelerated business performance at a reduced cost.

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