Navops Launch
Cloud Migration for HPC

Navops Launch migrates workloads to the cloud - allowing enterprises to control spending, automate applications and manage data placement by selecting and deploying cloud resources. Leveraging five key categories of metrics - cloud cost, resource utilization, queue information, workload consumption and workload characteristics - users get more results faster, and at significantly reduced cost. Navops Launch integrates multiple cloud providers to offer users more choice and the ability to take advantage of spot, preemptible, low priority or the best priced instances.

Automation
Automation decisions are driven by the five key categories of metrics. By leveraging and assessing these metrics in real-time, Navops Launch allows users to automate resource allocation, data migration and workload placement across an organization's hybrid and dedicated cloud clusters.

Multi-cloud
Available for any combination of cloud providers including AWS, Google Cloud Platform and Microsoft Azure, Navops Launch provides organizations the ability to take full advantage of the nearly unlimited scalability of cloud and gives users lightning-fast access to resources. Enterprises can readily leverage pay-per-use economics to gain access to the latest hardware, run special and extreme scale projects or burst peak workloads.

THE POWER OF NAVOPS LAUNCH

Cloud spend association
Navops Launch provides insight into cloud costs by creating a unique association between the application, project, department or user and the resource consumption. This allows enterprises to greatly improve budget management through configured cost center limits, and the forecasting of compute, storage and network spending.

Cloud resource right-sizing
How applications are placed in and mapped to the cloud are critical to performance. Navops Launch ensures their success by actively monitoring the five key categories of metrics to compare resource requests to actual resource utilization, and then selecting the most cost-effective resource type to greatly increase cost efficiency to ensure priority deadlines are met.

Data migration
Designed specifically for sophisticated cloud requirements, Navops Launch complements the workload manager by incorporating the migration of data associated to the application. Data movement can be automated and integrated into application runtime workflows. Prefetching data and moving data in and out of low-cost storage tiers avoids costly idle resources, reduces spending and improves job throughput.

Production proven at scale
Navops Launch manages the cloud placement of workloads for some of the world's most demanding compute intensive IT environments simultaneously delivering resource maximization, high performance and hybrid cloud.
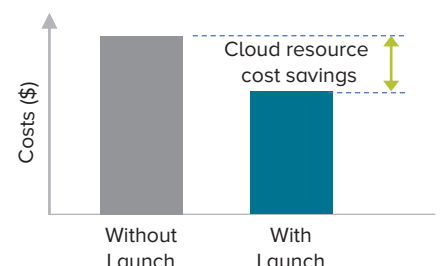
KEY BENEFITS:
- Cost control with cloud spend association
- Automation driven by five key categories of metrics and composable automation applets
- Integrated data migration
- Multi-cloud
- Bring your own Image (BYOI)
- Ability to take advantage of spot, preemptible, low-priority or the best priced instances
- Self-service for power users

Univa helps Western Digital deploy a million vCPU cluster in the cloud for complex multi-physics simulations with Navops Launch:
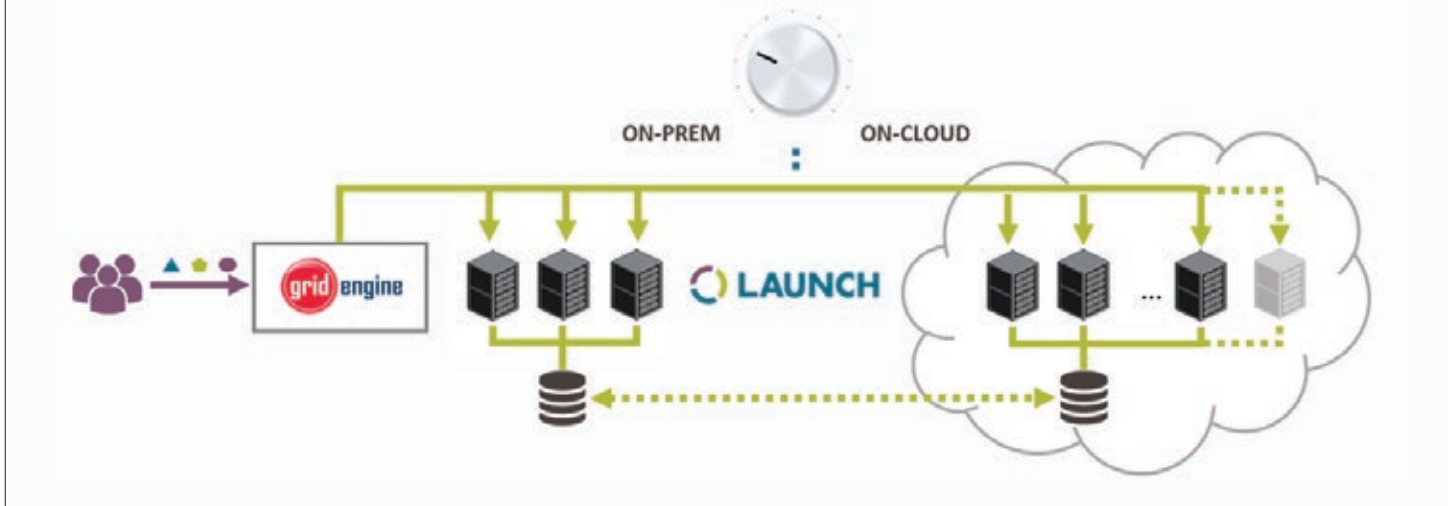
"Shrinking simulation time from 20 days to 8 hours allows Western Digital R&D teams to explore new designs and innovations at a pace unimaginable just a short time ago."

- Steve Phillpott, CIO of Western Digital

WD Western Digital®

Cloud Resource Right-sizing

Automation right-sizes cloud resources based on five key categories of metrics

Five Key Metric Categories: cloud cost, resource utilization, queue information, workload consumption, and workload characteristics.

CUSTOMERS SEE STRONG BUSINESS VALUE

"Integrating Navops Launch into our on-premise data center allowed us to better address peak needs during tapeout with seamless bursting to the cloud."

- Doron Sayag, IT Enterprise Computing

"With Univa, we have an infrastructure that schedules workloads to GPUs. We operate at 95% efficiency with lower overall costs."

- Stephen Rawls, Research Analyst

"… We have deployed cloud bursting. We were able to avoid substantial infrastructure costs and user training while tripling our core count."

- Gavin Burris, Research Computing

Compatible Services

From name resolution and identity management, to use-case specific solutions for managing networks, data and security, Navops Launch's inherent flexibility ensures use of existing compatible services - in-house or by cloud providers.

About Univa

Univa is the leading independent provider of software-defined computing infrastructure and workload orchestration solutions. Univa's intelligent cluster management software increases efficiency while accelerating enterprise migration to hybrid clouds. Millions of compute cores are currently managed by Univa products in industries such as life sciences, manufacturing, oil and gas, transportation and financial services. We help hundreds of companies to manage thousands of applications and run billions of tasks every day. Univa is headquartered in Chicago, with offices in Toronto and Munich. For more information, please visit **www.univa.com**.

UNIVA

Univa Corporation 2300 North Barrington Road, Suite 400, Hoffman Estates, IL, 60195 USA
Tel: +1.647.478.5901 **www.univa.com**