

ALTAIR NAVOPS™ FOR CLOUD AUTOMATION & SPEND MANAGEMENT

Altair NavOps™ is an automation and spend management platform for migrating compute-intensive HPC workloads to the cloud. It provides organizations with insights into spending against budgets and end-to-end visibility into HPC cloud resources and applications. Using NavOps, enterprises can easily deploy hybrid and dedicated cloud clusters running Altair® Grid Engine® or other workload managers.

Automation and Spend Management

By combining sophisticated automation with cloud spend management, NavOps enables organizations to boost efficiency, reduce cloud costs, and improve time-to-results for increased revenue and profitability — reducing cloud-related spending by up to 30%.

Unlike tools that provision cloud resources based on simple policies, NavOps is application, resource, and budget-aware. Prepackaged or custom automation applets help organizations automate decisions based on real-time cloud and workload-related metrics to scale and manage multi-cloud infrastructure, workloads, and data.

Automation – Pre-packaged or custom automation applets help organizations automate infrastructure creation and deletion decisions based on cloud and workload-related metrics to scale and manage multi-cloud infrastructure.

Spend Management – NavOps associates cloud resource spend with departments, users, and applications. It manages spend versus budget, helping control costs, track resource use efficiency, and forecast spending.

Proven at Scale – NavOps manages cloud workload placement for some of the world's most demanding compute-intensive IT environments. It is production-proven in cloud clusters with more than 1 million cores and 40,000 cloud instances, delivering high throughput while minimizing costs.

Beyond Workload Management

Most HPC workload managers assume that resources are static and focus on optimizing workload placement with simple cloud bursting. NavOps makes cloud resources dynamic and responsive, communicating with leading workload managers to optimize cloud resources, workload placement, and cloud spending.



Shrinking simulation time from 20 days to 8 hours allowed Western Digital R&D teams to explore new designs and innovations at a pace unimaginable just a short time ago.

Steve Phillpott, CIO,
Western Digital



Find Out More:
[Request a Demo](#)



Provisioning – Use NavOps to create hybrid and dedicated cloud clusters.

Automation – Manage clusters in a no-ops fashion. Drive resource utilization efficiency and reduce administrative costs.

Cloud Spend Management – Reduce cloud spending by tracking and managing cloud expenditures and efficiency against budgets — using easy web-based dashboards.

Multi-cloud Support – Run across your choice of clouds to improve flexibility, reduce costs, and avoid cloud lock-in.

Cloud Resource Right-sizing – Use the most cost-effective resources types (VMs) to improve efficiency and reduce spending.

Dedicated and Hybrid Cloud – Ensure business flexibility with support for dedicated cloud, hybrid cloud, and multi-cloud deployments.

Data Migration – Automate data movement to boost throughput, simplify operations, and reduce cost.

Self-service Access for Power Users – Optionally provide power users and groups with self-serve cloud access to reduce administrative effort.

Bring Your Own Image (BYOI) – Ensure consistency between cloud and on-premises environments.

Support for Specialized Cloud Instance Types – Select the most appropriate instance types depending on application requirements, cost, and cloud capabilities.

30% ▼

REDUCTION IN
CLOUD SPENDING

1M ▲

SCALES TO A
MILLION CORES

40K ▲

SCALES TO 40,000
CLOUD INSTANCES

NavOps enables organizations to boost efficiency, reduce cloud costs, and improve time-to-results.