navops by Univa

DATASHEET

Navops Command

Superpowers for Kubernetes

Navops Command allows an organization to run containerized microservices applications more efficiently on Kubernetes. The scheduler and policy management system provides virtual multi-tenancy and resource sharing to increase cluster utilization and lower operation costs.

- Improve server utilization dramatically
- Optimize IT and cloud expenditures
- Achieve business priorities

It has never been easier to optimize compute resources with advanced scheduling and intelligent policy controls in your on-premise Kubernetes cluster or hybrid cloud environment. Leveraging Univa's proven Grid Engine technology, Navops Command is an automated workload placement and policy management solution that plugs into any Kubernetes distribution. With Navops Command, enterprises can automate prioritization of microservices applications, improve server utilization, optimize cloud expenditures, and efficiently respond to end user demand.

Navops Command runs on any Kubernetes distribution. Customers can work with their choice of Kubernetes distribution like Red Hat's OpenShift, CoreOS's Tectonic, Rancher, and others, yet still gain the benefit of Navops Command's advanced policy management and virtual multi-tenancy across projects, teams and applications.

Navops also includes support for mixed workloads allowing organizations to run containerized and legacy, non-containerized workloads within a Kubernetes cluster. Applications such as Spark, Hadoop or batch jobs can be run side by side with microservices-based applications sharing the same server infrastructure, networking and storage. This capability greatly simplifies the migration to containerized environments and to Kubernetes in particular.

Univa is proud to partner with leading technology companies and organizations in the container industry:

kubernetes

docker

OPENSHIFT by Red Hat

OPEN CONTAINER INITIATIVE

THE LINUX FOUNDATION

CLOUD NATIVE COMPUTING FOUNDATION

Navops Command Highlights

- Advanced scheduling algorithms
- Sophisticated policies for managing SLAs
- Automated prioritization when resources become scarce
- Virtual multi-tenancy
- Run containerized and non-containerized workloads

"Software such as Univa's Navops Command can enable organizations to consolidate and pool container clusters with traditional compute clusters for efficiency, performance and cost savings in enterprise workloads."
– Jay Lyman, Analyst, 451 Research

"Univa's extensive expertise in scheduling and policy management for enterprise workloads will greatly benefit customers adopting Kubernetes and containers."
– David Aronchick, Product Manager, Google

"Red Hat's OpenShift customers can benefit from the advanced policy management and resource efficiency improvements that Navops Command brings to Kubernetes."
– Chris Morgan, Product Management Director, Red Hat

Navops Command unleashes the power of containerization for enterprises on any architecture, any application and in any environment, providing increased efficiency and lower costs.

Virtual Multi-tenancy

Run Mixed Workloads

Manage Resource Scarcity

KEY CAPABILITIES INCLUDE:

Advanced Scheduling

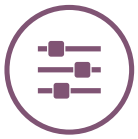
- Superior scheduling algorithms
- Enterprise-proven policy management
- Integrates with any Kubernetes distribution

Access

- Robust ACL support
- Automatically reserve resources
- Fairly segment access

Best Fit

- Rarest resource preferential placement
- Balance IO usage, memory, and CPU
- Spread workload to least loaded machines



Contention

- Set independent quotas per user or organizational unit
- Scale up or down interdependent services

Resource Sharing

- Automatically arbitrate resource allocation
- Run background work only when crucial applications are not in use

Workload Preemption

- Automatically reclaim resources for prioritized work
- Ensure business priorities

About Navops

Navops is a suite of products that enables enterprises to take full advantage of Kubernetes and provides the ability to quickly and efficiently run containers at scale. Navops utilizes workload placement and advanced policy management across on-premise, cloud, and hybrid infrastructures. With Navops, companies can automate microservices applications and efficiently respond to end user demand. For more information, please visit **www.navops.io** or follow Twitter **@Navops**

UNIVA

navops.io

Univa Corporation 2300 North Barrington Road, Suite 400, Hoffman Estates, IL, 60195 USA | Tel: +1.800.370.5320