

UNIVA

Universal Resource Broker

Enterprise-class workload optimization solutions

Universal Resource Broker brings the superior workload optimization of Grid Engine® to distributed applications, data center services and Big Data frameworks by managing multiple applications in a single, dynamically shared compute pool.

Universal Resource Broker Management Highlights

- Advanced policies and lifecycle management
- Centralized arbitration and resource allocation
- Centrally manage distributed applications, data center services and Big Data frameworks
- Unified Accounting and Reporting
- Run and manage existing Apache Mesos frameworks without modification with High Availability and automatic service fail-over

Supports Heterogeneous Machine Types and Architectures

- Run and manage bare-metal servers or leverage virtual machines, public or private cloud or containers and Docker virtualization
- Deploy on Unix, Linux, Microsoft® Windows®, X86_64 or RISC servers

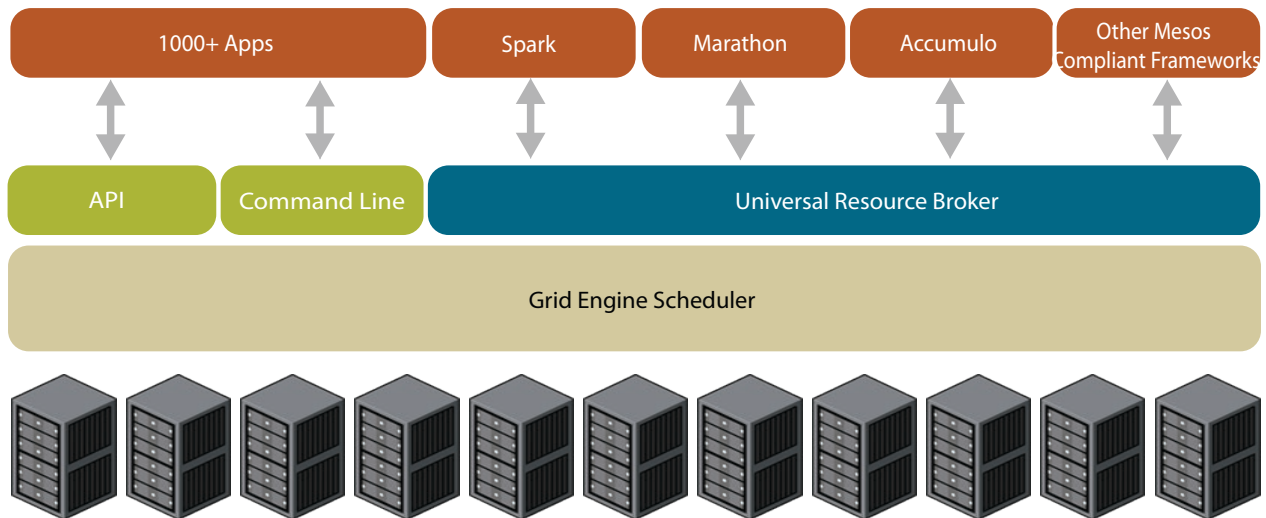
UNIFIED WORKLOAD OPTIMIZATION FOR BATCH, BIG DATA, MESOS FRAMEWORKS AND SERVICES

Univa solves the hard problems that come with building and managing shared mission-critical and scaled high-performance data centers. As enterprises deploy distributed applications, multiple Big Data frameworks and services to support mission critical business needs or the Internet of Things, the decision to use a single distributed infrastructure has been made simple. We have developed the industry's most powerful and integrated solution suite that allows organizations to efficiently manage and optimize multi-tenant, dynamically partitioned workload within a single cluster.

Universal Resource Broker allows enterprises to create a single, virtual high throughput, high performance and hyperscale compute pool out of distributed data center resources by integrating batch, low-latency workload, data center Services and Big Data frameworks in a single distributed and high availability cluster. In other words, we provide easy integration of distributed application environments consuming dynamic partitions of the cluster.

If your data center already has multiple applications running on shared resources and you have considered using frameworks, then Univa is the only solution to consider since we fill the gaps the competing solutions have yet to develop. Our ability to optimize large clusters and high throughput workloads, coupled with its ease of application integration, make Univa Grid Engine the choice of hundreds of enterprises, academic institutions and government agencies and is currently utilized on many of the biggest commercial clusters in the world.

Universal Resource Broker Component Architecture



KEY FEATURES AND CAPABILITIES

Workload Optimization

Universal Resource Broker provides organizations a complete solution set to distribute applications and services more efficiently, faster and with lower overall costs.

Framework Integration and Interface Compatible

Universal Resource Broker supports any framework for which a Mesos integration exists, e.g. Spark, Hadoop, Storm, Marathon, Chronos, Aurora, and Husdon/Jenkins.

Centralized Resource Allocation in Univa Grid Engine

Managing and scheduling multiple workloads including batch jobs, low-latency, distributed applications, long-running services and Big Data frameworks on the same cluster is critical.

Advanced Univa Grid Engine Capabilities

Universal Resource Broker provides advanced Univa Grid Engine features for frameworks such as centralized management, policy control, accounting, and monitoring.

About Univa

Univa is the leading innovator of workload management products that optimize performance of applications, services and containers. Univa enables enterprises to fully utilize and scale compute resources across on-premise, cloud, and hybrid infrastructures. Advanced reporting and monitoring capabilities provide insights to make scheduling decisions and achieve even faster time-to-results. Univa's solutions help hundreds of companies to manage thousands of applications and run billions of tasks every day. Univa is headquartered in Chicago, with offices in Canada and Germany. For more information, please visit www.univa.com.

