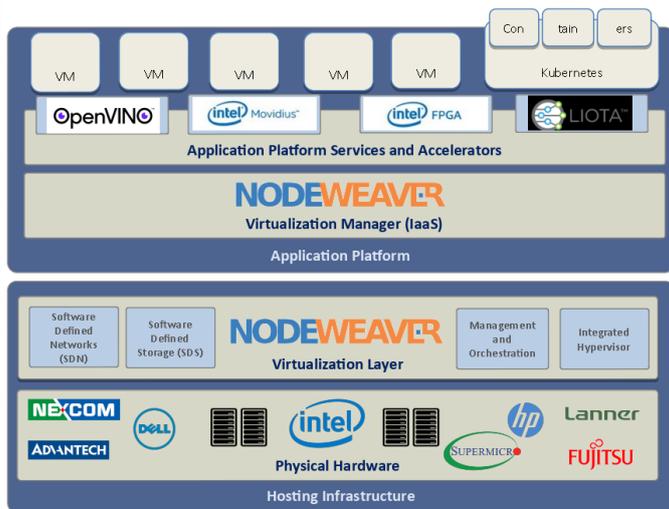


Computing at the Edge of Anywhere

NodeWeaver is a software-defined operating platform that simplifies the deployment, management, and orchestration of edge infrastructure and applications. NodeWeaver is a reliable execution layer that installs on the bare metal of nearly any x86 hardware - an extensible platform that is neutral to applications and autonomous at any scale. We run anything, anywhere, so that it never stops.

What it is

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Designed for autonomic operation

NodeWeaver is designed from the ground up to bring hyperscale technology to nano-scale environments, providing a simple solution that masks the complexity of the underlying design and software. NodeWeaver integrates autonomic and self-healing features throughout the various layers to deliver reliability and high availability without the need for human intervention. Any component in the architecture can fail without causing data loss and, in most cases, without causing any downtime to the workloads running on the environment.

API-based fleet management

NodeWeaver's automated deployment, self-management, self-optimizing, self-healing features and GitOps management approach dramatically reduces cost of ownership by simplifying operations and reducing the need for IT expertise or human intervention. The cost of deploying thousands of locations demands a low-touch deployment model that relies on technicians rather than system administrators, and the complexity of managing thousands of geographically distributed compute clusters demands that these be managed in an automated, programmatic fashion.

Integrated application marketplace

The fully customizable NodeWeaver Marketplace enables users to quickly download complete, pre-configured application stacks and service templates, and deploy them with a single click where they are automatically load balanced across nodes in a highly resilient, agile and scalable compute cluster capable of running multiple virtual machines and container-based workloads.

Total hardware flexibility

Unmatched Hardware Flexibility and Agnosticity; NodeWeaver nodes can consist of virtually any mix of x86-based hardware configurations from different manufacturers.

Data protection profiles and replication

Data storage matters; NodeWeaver integrates reliable, stateful data storage necessary to support availability, scalability, data protection and data governance

An architecture for the Edge

Running workloads at the edge requires different economics, architecture, and philosophy versus cloud or core. Unlike OpenStack and Kubernetes, which were designed to manage thousands of nodes and containers within the same physical environment, NodeWeaver was designed for the unique distributed computing requirements of the edge - instead of dealing with a few very large clusters, the edge requires thousands of small clusters. This is a fundamentally different architectural challenge.

Edge cloud flexibility for any workload

The ability to drive analytics, AI/ML, and process data in motion at the edge of your networks to support next gen applications will require significantly more compute power at these edge locations. As distributed compute becomes more critical for operations, these platforms must be managed, maintained, and secured. NodeWeaver provides the foundation for this distributed computing layer.

