**What is Web-Scale Infrastructure?**

A better approach to designing, building and managing datacenter infrastructure pioneered by web companies and cloud providers such as Google, Amazon, and Facebook. The benefits of web-scale infrastructure are now within reach at any scale and for all workloads.

**Key Characteristics**

- **Hyper-Convergence on x86 Nodes**
  Integrated compute and storage eliminates the complexity and performance drag of storage networks and allows infrastructure to be scaled one server at a time.

- **Intelligence in Software**
  100% software-defined with no reliance on special purpose hardware for resilience, performance, etc. allowing for new capabilities without hardware upgrades.

- **Distributed Everything**
  All data, metadata and operations distributed across the entire cluster, eliminating resource contention and enabling predictable scalability without limits.

- **Self-Healing System**
  Designed to tolerate component failures through fault isolation and automatic recovery without bringing down the overall system.

- **API-based Automation and Rich Analytics**
  Extensive automation and rich system-wide monitoring for data-driven efficiency, and REST-based programmatic interfaces for integrated datacenter management.

**Web-Scale Is For Everyone**

Web-scale infrastructure brings simplicity back to the datacenter. Every aspect of the IT infrastructure lifecycle, from purchase and deployment to management and scale, is made simpler:

- **Predictable Scale:**
  Grow & shrink infrastructure incrementally

- **Lower TCO:**
  Lower capital & operating expenses

- **Business Agility:**
  Quicker response to business needs