

Get More Value from Containers

As a lightweight alternative to traditional virtualization, containers are attractive for users aiming to combine multiple programs, microservices and data into packages designed to easily run on servers. Containers match the workload to the resources available on a server.

Despite their advantages, containers present an array of challenges:

- Containers running large workloads can limit hardware provisioning options.
- Adding and removing containers to and from running servers can be complex.
- Live migration of resources from one machine to another is impossible.
- Containers running on the same server lack hardware enforced separation, leading to potential security concerns.

TidalScale Software-Defined Servers offer a simple, flexible and efficient platform for containers of any size.

Solve Container Shortcomings with TidalScale

With TidalScale, deploying and orchestrating containers is easier than ever.

Deploy Your Largest Container Workloads

Stop limiting the size of our workload to the memory, cores or other resources available on a single server. By pooling all the resources in a rack and still maintaining locality, you can have the resources of as many as 96 servers available to your containers.

Overcome Chronic Container Challenges

Gain the mobility, orchestration and security of traditional virtualization.

Run as Many Containers as You Like

Run multiple microservices next to containers running large legacy workloads.

Drive New Efficiencies

Increase application throughput by more than 20X

Reduce Communications Overhead

Automatically migrate related containers to the same machine.

Deploy in 5 Minutes

Configure and deploy Software-Defined Servers in minutes.

Scale on the Fly

Just as quickly, reconfigure your Software-Defined Server to accommodate new and larger workloads.

**FASTER RESULTS,
LOWER COST**

**IMPROVE
UTILIZATION
BY RUNNING
CONTAINERS
on servers scaling up to**

64^{TB}

**INCREASE
THROUGHPUT
BY MORE THAN**

20^X

**SPEED RESULTS
BY
AN ORDER OF
MAGNITUDE**

**FIND OUT MORE:
www.tidalscale.com**

Right-Size Servers to Fit Any Workload

With TidalScale, you can create a Software-Defined Server to run container workloads across dozens of commodity servers. TidalScale's technology combines those servers (along with all their associated resources, including memory, cores, storage and bandwidth) into a single aggregated system capable of hosting any number of containers.

Let your container workload decide your server size.

Incorporate dozens or even hundreds of processor cores, tens of terabytes of memory, and all the storage and networking I/O you need.

Size your server to your problem, and then scale as needed.

Just select the ideal combination of resources from available systems in your datacenter or cloud. TidalScale makes your Software-Defined Server available to your operating system and applications without a single modification.

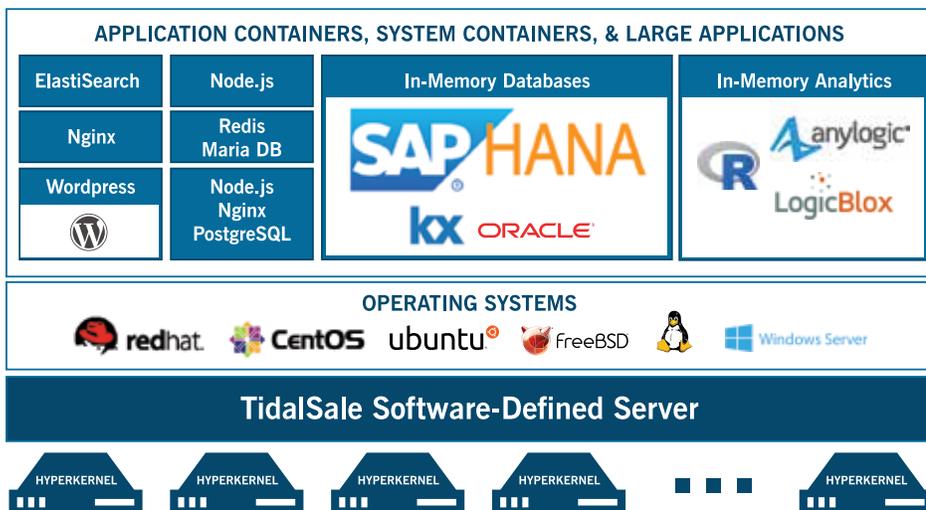
KUBERNETES? WAVERUNNER?

CHOOSE YOUR PLATFORM for Container Management

Do you run Kubernetes as your container manager? No problem; it's just another layer in the Software-Defined Server Stack.

But you can also use our WaveRunner control panel to visually monitor and manage all of your virtualized resources.

In fact, here at TidalScale, we use Jenkins to run all testing. By combining Jenkins, Docker and TidalScale, we actually increased our testing throughput by 21x.



Faster Results, Lower Cost

For the first time, you can tailor your hardware to the needs of the application software and data set – not the other way around. That means you can achieve results sooner without the need to purchase larger systems.

Make Containers More Mobile

Using the hardware below the kernel, TidalScale improves efficiency by moving resources (memory, virtual CPUs, etc.) seamlessly across nodes. And it's all transparent to your application and container.

Make Containers Easier to Manage

Leverage TidalScale's rack-level virtualization to simplify container orchestration by nearly two orders of magnitude. WaveRunner manages switching and storage provisioning, and our aggregating resources at the rack level makes management of multiple containers far easier than on a single server.

Make Containers More Secure

With TidalScale, the worries over controls on physical access to resources disappear. The control plane for software-defined resources remains unavailable to the guest OS. In fact, containers running within the guest OS are further removed from access to core datacenter components.

Get More Value from Containers

Deploy TidalScale Software-Defined Servers to gain more value, flexibility and efficiency from your containers.

FIND OUT MORE:
www.tidalscale.com