TidalScale

KEEP PACE WITH THE DEMANDS OF DATA

In the modern data center, storage, networking and other assets are designed to expand and grow as workloads change over time. But servers remain fixed resources. That's a problem when Big Data and unpredictable workloads overwhelm typical servers.

WASTING MONEY?
- Overspending on hardware to anticipate future needs
- Overpaying for software licenses that bill you by core count, not memory

DELAYING RESULTS?
- Taking too long to deploy servers for business units
- Inefficiently rearchitecting databases to handle large datasets

Businesses want flexibility in their data centers. From in-memory databases and analytiics to DevOps and infrastructure management, the applications they run require more performance and throughput than any one server can provide. Even cloud-based Infrastructure as a Service (IaaS) platforms offer limited configurations.

What's missing? The ability to scale your computer to fit your workload. At TidalScale, we call it **right-sizing a server on the fly** to fit any data set. Until now, that's been impossible. TidalScale's **Software-Defined Servers** combine multiple commodity servers into one or more virtual servers—all without a single change to applications or operating systems. At TidalScale, we make it easy for you to marshal your existing data center resources into servers of virtually any size and configuration.

Deploy in Minutes
Configure and deploy Software-Defined Servers in minutes, and without the complex software development or data partitioning of scale-out.

Scale with Your Needs
Deploy Software-Defined Servers from gigabytes to terabytes. Provision hardware to fit the data set rather than force your data to conform to hardware limitations.

Larger Scale at Lower Cost
Leverage the software simplicity of scale-up hardware with readily available, low-cost dual-socket servers already approved by your organization.

Scale-up Simplicity
No data partitioning or complex software development needed.

Run Containers and Apps with Confidence
Run any database, application or container out of the box without modifications.

No Overpaying for Software
Drive down licensing costs by leveraging the 'pay-as-you-go' model of scale-out deployments. Pay only for what you need at the moment you need it, and take advantage of the distributed Software-Defined Server architecture to optimize licensing costs by managing processor core counts.

FASTER RESULTS, LOWER COST

UP
64TB
IN-MEMORY PERFORMANCE

UNDER
5MIN
DEPLOYMENT AT ANY SCALE

UP TO
61%
LICENSE COST REDUCTION

UP TO
63%
CAPITAL COST REDUCTION

FIND OUT MORE:
www.tidalscale.com

Achieve Results Faster. Reduce IT Operating Costs.

Unlock Value with TidalScale

TidalScale delivers the performance advantages of scaling up with the cost-effectiveness of scaling out.

Build Software-Defined Servers quickly and easily.

From your existing servers on premise or in the cloud, select the ideal combination of resources. TidalScale makes your Software-Defined Server available to your operating system and applications without a single modification.

Create a new server in minutes.

Using TidalScale WaveRunner, our point-and-click control panel, you can configure and deploy a new Software-Defined Server in as little as five minutes. When your workload changes, create a new server just as quickly. No programming or customization necessary.

Let your workload decide your server size.

Create Software-Defined Servers with dozens or even hundreds of processor cores, tens of terabytes of memory, and all the storage and networking I/O you need.

Run any application, on bare metal or in containers.

Applications see TidalScale Software-Defined Servers just as they would any single system image.
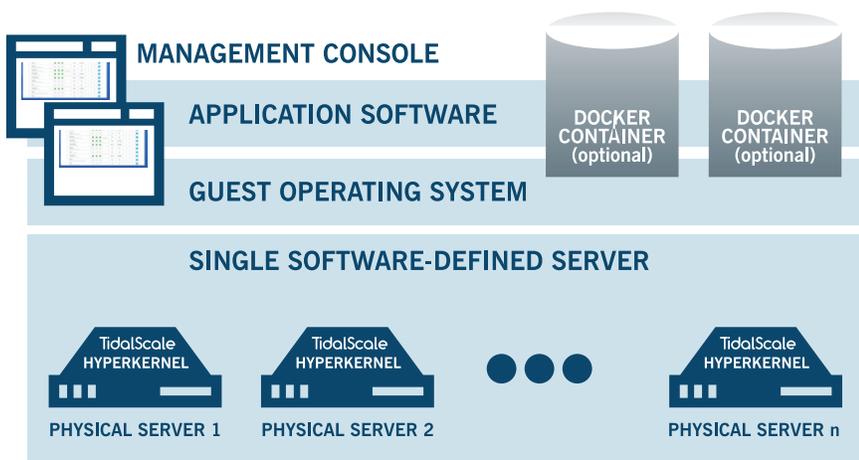
Complete your own Software-Defined Data Center.

TidalScale is the missing piece of the Software-Defined Data Center – adding servers to the virtualized storage and network resources in modern IT infrastructures and clouds. In fact, our WaveRunner control panel built to visually monitor and manage all of the virtualized resources in your SDDC.

WE NOT ONLY SUPPORT DOCKER AND KUBERNETES. WE MAKE THEM BETTER.

Run your containers and container management platform of choice on TidalScale, and you'll get better container mobility, more flexible orchestration, and a more secure environment for your applications and microservices.

Right-Size Servers to Fit Any Dataset

TidalScale aggregates all the resources (memory, cores, storage and bandwidth) of low-cost, high-performance, 2-socket Intel x86 servers into one or more Software-Defined Servers right-sized to handle your most challenging workloads.

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.

Pay As You Go

Our simple scale-up software model, coupled with the scale and cost-effectiveness of 'pay-as-you-go' scale-out systems, lets you lower your Total Cost of Ownership (TCO).

Fast, Flexible & Easy

Deploy appliiations on TidalScale Software-Defined Servers to achieve ease-of-use, flexibility, and time to insight that simply isn't possible with traditional solutions.

- **Simple, rapid deployment**
- **Inexpensive to build**
- **No new software development**
- **No data partitioning**
- **Industry-standard hardware**
- **Unmodified system and application software**
- **Unrivaled scalability**
- **Optimized software license costs**

IN-MEMORY DATABASES | DEVOPS | IOT ANALYTICS | IAAS | SDDC

MANAGEMENT CONSOLE
APPLICATION SOFTWARE
DOCKER CONTAINER (optional)
DOCKER CONTAINER (optional)
GUEST OPERATING SYSTEM
SINGLE SOFTWARE-DEFINED SERVER
TidalScale HYPERKERNEL
TidalScale HYPERKERNEL
TidalScale HYPERKERNEL
PHYSICAL SERVER 1
PHYSICAL SERVER 2
PHYSICAL SERVER n

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