

VSCALER HPC ON DEMAND

Infinite nodes in minutes



With vScaler, you can deploy your on-premise private cloud in minutes, add cloud-based services and applications and scale to public and hybrid cloud environments on-demand - all under a single management portal.

vScaler simplifies data centre infrastructure by integrating HPC, Big Data and Cloud resources into a converged platform that is capable of running any application at any scale. The platform enables agile sysadmin teams to quickly deploy scalable, production-ready private cloud environments, big data analytical platforms and/or traditional HPC clusters all under one management portal.

Our finely tuned cluster management software enables you to deploy clusters or clouds of any scale either on premise, in the cloud or across both in a hybrid model. Build and configure:

- HPC Clusters.
- Hadoop Clusters (Hortonworks or Cloudera)
- Clouds (Openstack)
- Parallel file systems (Lustre or BeeGFS)

vScaler HPC-on-Demand allows users or departments to spin up dedicated clusters on demand in a few simple clicks and in a matter of minutes. Clusters include full job scheduling and a monitoring system configured across all nodes. Users have access to the 'modules' environment setup with pre-configured optimised maths libraries and the latest compilers ready for use.

In addition to this, our HPC application repository houses various user applications in a containerised environment including Deep learning frameworks and the RAPIDS software suite.

Flexible Infrastructure

Deploy what you need when you need it and mix and match different technologies and applications

Scale-out Storage

Featuring a parallel file system for high performance IO.

Up to 200 VMs per appliance

Run up to 200VMs in a single Hyper-Converged 2U appliance

 **SCALER**

WHAT DO I GET FROM VSCALER?

Managed Services

Enterprise IT leaders are facing business transformation pressures from multiple fronts, including new and evolving applications, regulatory requirements, security threats, business accountability, and line-of-business relationships. vScaler includes optional add-on services packages in a building block approach.

Remote Cluster Administration and Monitoring

Through secure remote access, vScaler engineers can perform and manage standard cluster status checks such as machine operation, interconnect subsystems, storage and application queuing. All relevant notes concerning fixes, changes, updates and upgrades are documented, managed and shared via vScaler Managed Technical Operation Centre (vScaler T.O.C).

Application Optimisation

To reduce the time to results, our platform has an integrated containerised application repository which allows users or administrators to install additional applications across the cluster with a single command. Our repository contains applications built using optimised MPI libraries and compilers which integrate with our platform, and provide application 'module' files for simple integration into job submission scripts and user scripts.

HOW CAN I MOVE TO VSCALER?

The switch from your old system can be done in stages with little to no impact on your daily operations. vScaler offers full service on-boarding and service off-boarding assistance, as well as a modular Managed Services options, with no-vendor lock-in.

APPLICATION STACKS*

Tensorflow
Autodesk
RAPIDS
Gromacs
OpenFOAM
ANSYS
Namd
BrytlytDB
Intelligent Voice
Torch

(*Others available on request)

TECH SPECIFICATIONS

Our Hyper-converged 2U private cloud appliance is designed using class leading technologies, the latest processor family, 2666Mhz DDR4 memory, 25GB interconnects and all SSD storage delivering superior performance with our optimised stack.

APPLIANCE (PER NODE)	
MODEL	VS-H-2824
SERVER COMPUTE	Intel 6138 20C/40T Xeon Scalable Skylake
STORAGE CAPACITY	6x SSD [480 GB, 800 GB, 960 GB, 1.2 TB, 1.6 TB, or 1.9 TB],
MEMORY	384GB DDR 2666MHz
NETWORK CONNECTIONS	2x 1 GbE, 1x 1GbE RJ45 (IPMI)
GPU	Dual-Port 25 GbE RDMA Mellanox
	Up to 4x NVIDIA Tesla V100 per appliance

For More information, Contact vScaler

info@vscaler.com | www.vscaler.com | +44 (0)20 3889 0662