



s.cluster

Professional Linux Cluster Computing

Linux Cluster with Full Service

s.cluster is the science + computing modular service package for high performance computing. From design to maintenance, s+c offers a complete solution for your high performance computations. Using Linux-based compute-clusters, it is possible to achieve highest computing performance at low cost. s+c provides the cluster know-how required for installing, configuring and operating these systems. We analyse your requirements and design the optimal hardware configuration for your cluster. Installation with the approved s.cluster software guarantees an easy and fast integration of the cluster into your existing environment.

If you want to perform certain services yourself, s.cluster will flexibly comply to your wishes. You have the choice between individual service components and the complete package for high performance computing - an optimum of convenience!

Design with Cluster Know-How

As a computation machine, the cluster must be optimally tuned to your target applications. The experienced s.cluster team analyses your requirements and determines the appropriate hardware configuration. We offer consulting on how to optimally use your resources with regard to processors, memory, high-speed networks, etc. Based on the approved operating system Linux, your compute cluster thus achieves

the optimal price-performance ratio for your computing requirements.

s.cluster - the Installation Concept

Manual configuration of a typical cluster usually requires days or even weeks. The s.cluster software performs these tasks within a few hours. It automatically installs the operating system, configures the cluster environment, installs your applications and integrates them into already existing or required interfaces. Thereby, a fast, safe and reproducible recovery of availability is guaranteed. A flexible adaptation of the individual nodes of the cluster is, however, still possible.

Maintenance with Low Effort

Defective hardware or new program versions ... - even an s.cluster cannot be managed completely without maintenance. With the s.cluster concept, however, maintenance is very easy. Replacement hardware can be easily integrated into the existing system. The central s.cluster management ensures that the correct configuration is reinstalled in the shortest possible time. You can perform these tasks yourself - or you can leave them to the specialists of the s.cluster team: scIT-Services guarantees in its all-inclusive offer efficient management support, looks after the maintenance of applications and designs, if required, the new configuration of your cluster.

highest
computing performance
at low costs

automatic configuration
with s.cluster-SW

easy integration into
your existing environment

individual service
components or
complete package
for high performance
computing

productivity on the basis
of long-term experience



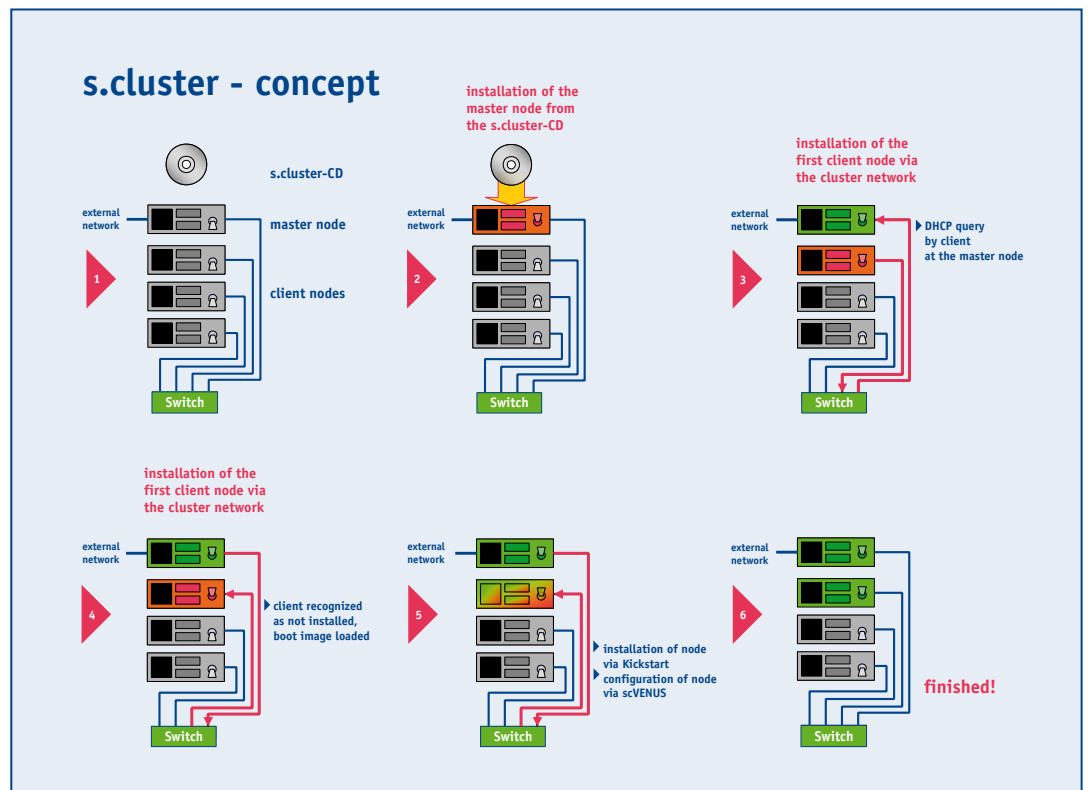
Administration With Optimal Tools

Of course, s.cluster is optimally integrated with the rest of the s+c product family. With interfaces to flowGuide, the process flow management software, it is possible to start even complex calculation and evaluation jobs by point-and-click and to supervise them graphically. The batch system LSF takes care of an optimal resource management of the cluster. And, of course, the s.cluster as well as your existing computer network can be managed optimally by the system administration manager scVENUS.

Productivity with s.cluster

Through many years of professional and commercial Linux use, s+c has acquired an expertise highly regarded by its customers. Currently s+c supervises over 50 Linux clusters in the German automotive industry.

Various different applications - from crash simulation, structure and flow calculation to computational electromagnetics and tomography analysis - are used on the clusters. Our content customers include Audi, BMW, Daimler as well as many medium-sized companies.



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