



HPC IN THE CLOUD

A powerful combination

CPU-intensive tasks such as simulation and analysis place high demands on IT infrastructure. With the combination from Cloud Computing and HPC (High Performance Computing), you can advance your virtual product development, yet remain flexible and keep your investments to a minimum. GNS Systems embeds applications for Computer-Aided-Engineering (CAE) for you in the Cloud - in a straightforward approach, based on your precise needs.

Best CPU power for CAE applications

Start your CAE projects in a Cloud environment, which supports all requirements in terms of heavy number-crunching services. Our Cloud solutions offer the highest level of performance and maximum scalability. Your decisive advantage: The resources are quickly available, eliminating on-prem lead times. Thanks to turnkey HPC-platforms, you can reliably implement CPU-intensive engineering workloads at any time.

Your decisive advantage:

- Comprehensive computing resources are available without long lead times.
- Thanks to turnkey HPC-platforms, you can reliably implement CPU-intensive engineering workloads at any time.

OUR CLOUD MODELS AT A GLANCE

- ✓ Cloud Usage on Demand
- ✓ Cloud Backup
- ✓ Cloud Bursting
- ✓ Multi-Cloud scenarios
- ✓ Your complete CAE infrastructure in the Cloud

CONTACT

© GNS Systems GmbH
Theodor-Heuss-Str. 5
38122 Braunschweig
Germany

Contact our expert team at
+49 (0)531 123 87 15
or visit our website
www.gns-systems.de

HPC IN THE CLOUD



SERVICE COMPETENCE FOR YOUR CLOUD SOLUTION

GNS Systems is an IT service provider for product development and engineering. We provide support in the planning, implementation and operation of sophisticated heterogeneous system and applications infrastructures. Our solutions for high performance computing in the Cloud are characterized by:

- ✓ A high degree of automation
- ✓ CPU clusters potentially offering unlimited scalability
- ✓ Cost advantage in terms of demand-based implementation
- ✓ Optimized environments for your workloads

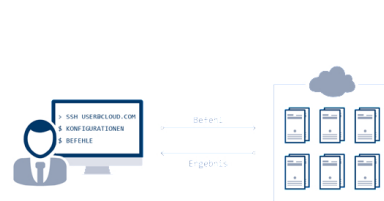
WE ARE TECHNOLOGY EXPERTS:



INDIVIDUAL SOLUTIONS

From Cloud backup to “Cloud only”

Your business case is our guide - it drives the complexity of the HPC clusters in the Cloud. Depending upon the requirement, you can use Cloud computing as a backup for on-premise resources or as an expansion of local computing clusters, in order to handle peak loads. We also achieve pure Cloud-only approaches: Your HPC clusters can then operate exclusively in the Cloud and map out your complete HPC workflows - including solving, pre-/ postprocessing, as well as long-term archiving of data.



Single Job in the Cloud

Calculation of individual jobs in the Cloud



CUSTOMIZED TO YOUR BUSINESS

Test your potential in advance

Our experts offer vast experience in engineering and Cloud computing. On this basis, we develop your individual HPC concept and subject it to a Proof of Concept (POC). You can test the potential of HPC in the Cloud in concrete terms for your use cases. Where the concept fits, with all applications and functions, GNS Systems assumes implementation within the prescribed time and cost framework. Afterwards, we also support you in the operation of your Cloud environment.



Sibling in the Cloud

Cloud Bursting / Backup Cloud

Customer Integration

Cloud Bursting / Migration into the Cloud