

Maximum Performance for CFD projects

- OpenFOAM Tuning -

More CAE efficiency with HPC cluster technology and Azure



A faster time to market is essential for a company's business competitiveness. Modern infrastructures as Azure and automated environments in the cloud provide the bases for CAE engineers and compute-intensive calculation runs. Achieve a new level of performance in virtual product development with OpenFOAM® on Azure.

What is OpenFOAM® on Azure?

OpenFOAM® on Azure offers CAE engineers an IT environment that provides the best possible support for compute-intensive simulations. The scalable architecture in Azure is based on more than 20 years of experience in CAE application management and meets all the future-oriented requirements of virtual product development. Scalable HPC clusters for OpenFOAM® workloads provides faster development cycles.



Why customers value OpenFOAM® on Azure

- Automated IT infrastructures reduce administration costs of OpenFOAM® on Azure.
- Even newcomers achieve immediate success with OpenFOAM® on Azure.
- Experts in cloud and engineering technology customize powerful HPC clusters for OpenFOAM® calculations.
- Azure experts provide a valuable basis for decision making in computationally intensive simulations with OpenFOAM®.

Power for CAE simulations

- Cleverly supporting simulation processes in OpenFOAM® with the Azure Cloud
- Cloud resources scale according to workload for large data volumes
- This way your own local resources and machines remain available for other tasks

Powerful resources in the cloud increase simulation speed

No compromises in the results

- Use HPC resources to analyze highly complex structures in a very short time
- Turnkey HPC environment in Azure successfully handles extreme model sizes
- Distribution of intensive simulations to powerful resources speeds up the calculations

Maximum performance for faster results

State-of-the-art IT architectures

- Solve future-oriented technical problems on an industrial scale with OpenFOAM® on Azure
- Efficiently process an increasing system complexity and rising data volumes with infrastructures on Azure
- Anytime and anywhere - also for use by collaboration teams

OpenFOAM® Engineering functions for every requirement

"The complex requirements of the OpenFOAM® program and its various fields of application have become a transparent, very robust and easy-to-use process. The successful implementation on Azure was achieved in particular due to the professional, application-specific and technical expertise of the GNS Systems team."
(Customer statement)