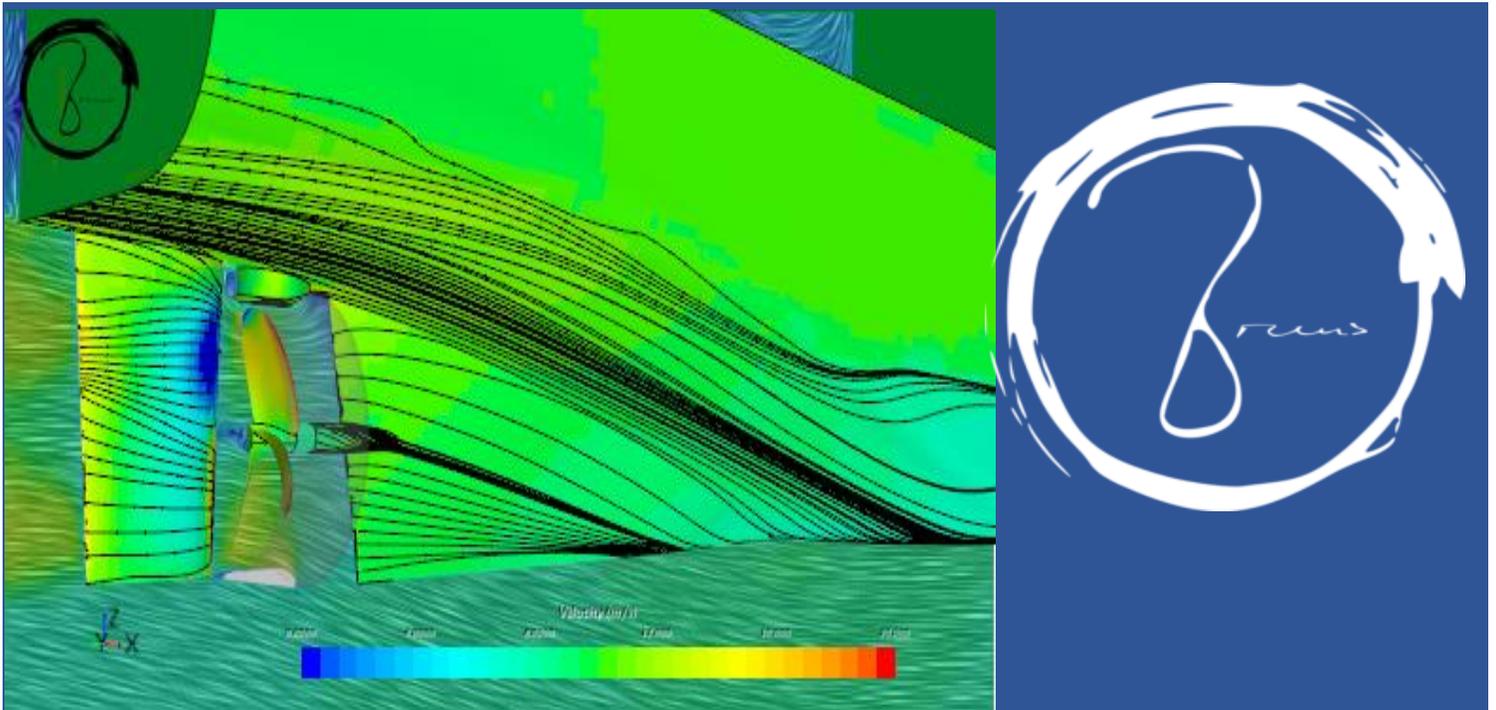# DRIZTI

Accelerating innovation with HPCBOX

Naval architecture using maritime application of Computational Fluid Dynamics (CFD) such as resistance in waves, self-propulsion, smoke dispersion, air drag etc. requires significant computational power and expertise in High Performance Computing (HPC). Engineers want to spend more time on engineering than in IT and HPC operations.

Bruns Naval Architect was looking for a plug-and-play solution for CFD. With HPCBOX on Microsoft Azure, they were able to easily deploy a turn-key solution for CFD and get up and running within minutes with a fully supported and operational HPC resource powered by Microsoft Big Compute infrastructure.

At-a-glance:

Customer: Bruns Naval Architect

Website: https://bruns-naval-architect.com/

Customer Size:1 -10

Country: Canada, BC

Industry: Maritime Engineering

Products and Services: HPCBOX on Microsoft Azure

Drizti Inc., Bruns Naval Architect & Microsoft Azure

Customer challenges

Bruns Naval Architect, based out of Vancouver, Canada, is an expert naval architect with expertise in maritime application of Computational Fluid Dynamics (CFD) such as resistance in waves, self-propulsion, smoke dispersion, air drag etc. They wanted to spend more time on engineering than in IT and HPC operations and were looking for a plug-and-play solution for CFD. They wanted to eliminate a lot of time which went into in-house cluster operations like restarting the cluster after emergency shut-downs, hardware maintenance of ex. the ventilation, managing software updates etc. A cloud HPC solution was ideal for their needs.

Drizti HPCBOX Solution

Drizti's HPCBOX solution on Microsoft Azure, delivers a desktop-centric, workflow enabled cloud HPC Platform with a rich user experience making supercomputing as easy to use as a personal computer. HPCBOX lets users harness Microsoft Azure's Big Compute Infrastructure through its rich user experience and desktop-centric workflow system. With HPCBOX, applications can be run in parallel with their native GUI significantly reducing the time involved in developing products and allowing end users to focus on their innovation. HPCBOX was an ideal solution for Bruns Naval Architect to use for their CFD simulations.

Customer Benefits

Using HPCBOX on Microsoft Azure, Bruns Naval Architect was able to equip their engineers with just a basic laptop, but, at the same time, give them access to supercomputing technology that helps them innovate faster, making them more productive and maximizing the ROI on licenses for third-party ISV software which they use for CFD.

"HPCBOX was installed and operational within short time. The cluster does not need to be maintained or run during times of no or low activity. No hardware maintenance at all gives more time to do actual engineering work."

"We did not have much experience with cloud computing and am pleased to have an experienced partner at my side."

"I did not only want to rent high computing nodes but was also looking for a plug and play solution for our CFD software."

Contact Us:

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Learn More

🌐 https://www.drizti.com
🌐 https://bruns-naval-architect.com