

AMD CLOUD LABS ON RESCALE

The easier way to run efficient, cost-effective HPC workloads on the cloud

Bringing engineering breakthroughs to market is increasingly competitive. Engineers depend on high performance computing (HPC) to fuel experimentation and innovation. But as new technology stacks and standards pile up, maintaining necessary infrastructure requires time and resources many teams don't have. AMD on Rescale streamlines the entire HPC experience, from hardware comparison to job submission, and makes almost any element of compute infrastructure just a few clicks away.

The new foundation for Computational Engineering



Improve performance and speed time to market

Instantly access optimal tools for each simulation with almost no time spent configuring or maintaining infrastructure.



Support seamless collaboration

Simplify communication, file sharing, and project management to help remote teams work more efficiently.



Maximize experimentation with minimal risk

Maintain unified control over every simulation, from costs to architectural configurations.



Experience confident self-service

Easily deploy advanced HPC workloads on demand without compromising on security, compliance, or performance.

Less complexity, more results

- Optimize project cost and time-to-solve with intelligent automation
- Increase runtime to complete more simulations on the same budget
- Allocate the right resources for each project with expert recommendations
- Ensure optimal licensing usage
- Support latest or prior versions of 1,000+ software tools from 60+ vendors
- Access predictive analytics and machine learning tool sets for computational fluid dynamics (CFD), finite element analysis (FEA), and electromagnetics (EM)

“Rescale streamlined our cloud transformation and continues to help us find new ways to improve our engineers’ productivity and **develop new products faster.**”

Matthew Robinson
Engineering Systems Administrator
at National Oilwell Varco (NOV)

“With Rescale I don’t have to worry about jobs running correctly—it’s basically **‘set it and forget it.’**”

Tate Fonville
Mechanical Engineering PhD
Researcher at Liberty University

Did you know?

Advancing just one generation on a single architecture can produce a

30%

increase in performance

Using Rescale, you can accelerate workflows with a

4x

increase in simulation speed

Why HPC built for the cloud?

Engineers and IT professionals need unprecedented agility and flexibility to innovate today. A built-for-cloud approach to HPC can enhance your team’s capabilities and improve time to market. By transforming how simulations run and how teams across the globe work together, HPC built for cloud empowers engineers to experiment more while giving IT greater visibility and control over security, performance, and costs.

A powerful partnership

Together, Rescale and AMD offer best-in-class architectures within a fully managed HPC framework. With access to AMD EPYC™ architectures on the major public cloud providers, users can instantly scale out computationally complex simulations. With industry leading core-hour price performance, Rescale and AMD keep projects on schedule and on budget. And because the work of building out a technology stack is already done, engineering teams can focus more time on innovation.

Run your next experiment in AMD Cloud Labs

Explore how HPC built for cloud can advance your project in AMD Cloud Labs. The portal gives HPC users easy access to AMD-based virtual machines that Rescale has onboarded from major cloud providers. Customers can bring their own licenses and quickly run simulations, often within minutes.

Benefits

- **Plug into the best tools:** Get the latest AMD hardware as soon as it’s available, pre-tuned for HPC workflows.
- **Find everything you need:** Access 1,000+ version-controlled applications, available instantly.
- **Get work done faster:** Run high-fidelity simulations in a matter of minutes with the turnkey portal, with or without IT expertise.
- **Compare before you commit:** See how different AMD architectures stack up based on price and performance to ensure every job runs optimally.



Test your first AMD Cloud Labs job on us.
Start your free trial.

About Rescale

Rescale provides high performance computing built for the cloud to empower engineers while giving IT security and control. The Rescale platform makes it simple for engineers and scientists to harness the most advanced software and computing architectures for cutting-edge simulation and AI-driven innovation. For IT, the Rescale platform provides full-stack security and support, and delivers policy-based financial and architectural controls to maximize performance and efficiency. Rescale powers the world’s leading companies to accelerate innovation across industries including life sciences, automotive, energy, semiconductor, aerospace, and manufacturing.

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