

*ExaCLOUD provides engineers from companies of all sizes access to the premier suite of simulation tools that Exa Corporation offers — for optimal product design and development at the world's largest vehicle manufacturers*

## ACCESS TO EXA'S SUITE VIA THE WEB

*Access the most up-to-date, complete Exa suite of simulation tools anytime/anywhere through a web browser.*

## REDUCE IT COSTS & TIME

*No IT setup required to access the ExaCLOUD server. Just log on and access the HPC, secure, servers on a CPU hour basis — you pay for only what you consume.*

## GAIN AUTOMATION AND CONTROL

*Manage the simulation process from beginning to end through a state-of-the-art GUI. Manage runs and automate common work flows with ease.*

## ENHANCE TEAM COLLABORATION

*Share interactive sessions with other team members to review model geometry, or analyze simulation results. Avoid transferring large files and use ExaCLOUD as permanent home for simulation data.*

## IMPROVE PRODUCTIVITY

*Increase user efficiency with a GUI designed to easily manage the complete simulation process.*

## SECURE, WEB-BASED ACCESS TO EXA'S ENTIRE SUITE

As the world's top OEMs can attest, simulation products are not created equal. Accurate, reliable, real-world results require a validated, proven simulation software package with years of research and development invested. These premier simulations demand significant computational hardware resources that are difficult and expensive to maintain.

Simulation has become an absolute necessity to remain competitive in product design and engineering. To best optimize designs and contain development costs, engineers worldwide seek access to premium simulation software which, until now, may have been too costly to deploy internally.



## Challenges hindering full simulation deployment at many companies:

- IT costs for HPC simulation environments are hard to predict
- Difficult for engineering companies to build or scale HPC simulation environments that can meet unpredictable needs
- Lack of automation and job control for simulations
- Fragmented project teams
- Human resource limitations; more simulations with less staff

## THE EXACLOUD SOLUTION

ExaCLOUD™ provides secure, web-based, access to the complete Exa simulation suite anywhere, anytime. It is a multi-user system that enables engineers to easily and intuitively manage simulation projects, to collaborate seamlessly with colleagues, and use any of Exa's powerful simulation preparation or results analysis tools with just a web browser. Customers pay only for simulation use. ExaCLOUD provides access to virtual, secure, high-performance computing capacity, hosted by IBM.

## Summary of Capabilities:

- Access the complete, most up to date, Exa simulation suite anywhere and anytime with no installation required (including full versions of Exa client software)
- Pay only for what you use on a CPU-hour basis — no additional fees
- Access virtual, secure, high-performance computing capacity hosted by IBM
- Project, run, & data management capabilities
- Team collaboration tools
- Powerful simulation results analysis tools

## EXACLOUD KEY CAPABILITIES IN DETAIL

Access the complete, most up to date, Exa simulation suite anywhere & anytime

- Secure, 100% web-based, multi-user environment on a pay per simulation hour-basis
- Connect from any system with a just a web browser
- Full, web-based use of all Exa interactive products included at no additional cost....only pay for the simulation capacity you use
- Exa ensures that the latest versions are immediately available; customer can choose which version of software to run

Access virtually unlimited, secure, high-performance computing capacity hosted by IBM

- High performance compute nodes and interconnect
- High performance graphics nodes
- High performance disk storage
- Expandable to meet your needs
- Standard queue size is 400+ cores to speed turn-around time

Project, run, & data management

- Project manager
- Setup and manage projects consisting of hierarchy of runs
- Project Templates to ensure consistency and avoid errors
- Real-time project status
- Automate simulation submission and results analysis

Run Manager

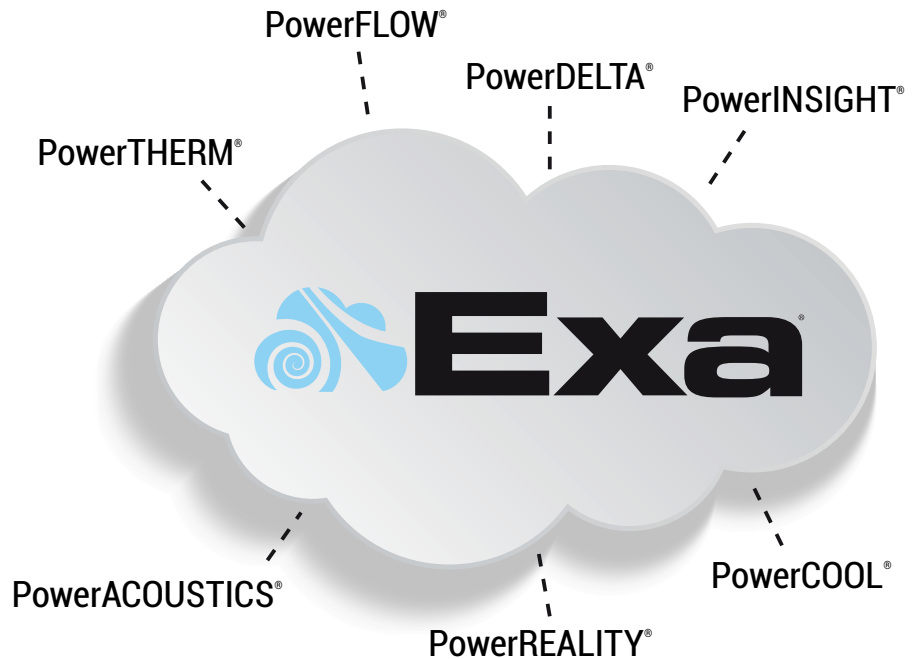
- Automation of standard simulation work flows
- Auto stop to minimize run times and costs
- Real-time job monitoring with a variety of job monitors

Data Manager

- Central project repository standardizes simulation data storage
- Easily upload and download files (drag and drop)

Team Collaboration Tools

- Share Interactive product sessions
- Review models before running simulations
- Status available to all project members in real-time
- Shared file repository



Access Exa's entire suite of simulation products via a web browser with ExaCLOUD

Powerful Simulation Results Analysis Tools

- Access to Exa's full suite of simulation results analysis tools included
- Automated results post-processing with PowerINSIGHT and Aeroacoustics Templates
- Rapid results browsing with Built-in Movie Player, Image Viewer,
- Rapid, multi-run, results browsing and comparison with PowerINSIGHT
- Deep interactive 3D analysis with PowerVIZ
- Acoustic analysis with PowerACOUSTICS

## SECURITY

Paramount to all engineering customers, ExaCLOUD is hosted at a secure datacenter run by IBM Manage Continuity Services featuring:

- Level 3+ design resilient data center
- Cisco Firewall
- VPN required for access
- Secure HTTPS Connection

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