



# Ansys Gateway powered by AWS Datasheet

Ansys Gateway powered by AWS is the solution for developers, designers, and engineers who want to manage their complete CAD & CAE workflow in the cloud. Access cloud computing resources from anywhere via your web browser. You can create, customize, and connect cloud applications with minimal technical skills. Manually install your 3<sup>rd</sup> party applications alongside Ansys applications.

- Speed up your innovation by solving limitations created by fixed capacity of on-premises HPC clusters and CAE workstations. Reduce time to market by scaling up/down hardware resources easily to meet projects demands and timelines.
- Manage & control your CAD/CAE cloud consumption and costs directly within your AWS subscription. Get access to the latest hardware configuration with your AWS subscription for compute and storage. Control costs of cloud utilization by entering into, and managing expense via, a direct contract with AWS rather than through a 3<sup>rd</sup> party.
- Access engineering simulation resources anytime and anywhere. Enable efficient and effective project management with streamlined end-to-end workflows in the cloud.



## / Why Ansys Gateway powered by AWS?

### 1) Ansys Application library:

- Pre-configured Ansys applications available for easy deployment.
- Leverage Ansys expertise in packaging and configuring VDI and HPC clusters.

### 2) Cost:

- Leverage any existing Ansys Licensing.
- VM charges based on your negotiated agreement with AWS.
- Deploy Ansys Gateway powered by AWS at no cost. A small platform fee is applied for any machines in the running state making the platform pay-as-you-go.

### 3) Deployment:

- Approved and benchmarked deployment specification for quick deployment on AWS cloud hardware.
- Manually install third-party and in-house tools for end-to-end CAD/CAE workflows.
- Support for GPU compute and Accelerated Graphics on Nvidia GPU Instances.

### 4) Control:

- Store VM configuration for easy, on-demand deployment by end users.
- Manage access to workspaces, VMs and budgets through a single platform.

## / Ansys Gateway powered by AWS Capabilities

### Flexible

- Install and configure new simulation applications at the touch of a button. Bring your own license (BYOL) and your own AWS enrollment (BYOE). Choose from recommended state-of-the-art cloud hardware (Virtual Machine) configurations for Ansys applications in your AWS subscription. Save money by using cloud resources only when needed, e.g., unused Virtual Machines are shut down to reduce costs.

### Easy to use

- Securely connect to your cloud Virtual Machines. Simply resize and reconfigure your Virtual Machines with a few clicks. Easily manage your complex cloud HPC environments. Collaborate with members of your team on resource-intensive projects. Create new, extensive cloud environments in a few minutes. Connect a network drive to upload and download data to the cloud. Receive detailed reports with clear insights on your cloud consumption. Start and monitor complex engineering and simulation environments using an intuitive interface. Support for GPU compute and Accelerated Graphics.

### Optimized

- Utilize optimized configurations for graphic intensive workloads. Ansys Gateway powered by AWS recommends hardware resources based on your workloads. Increase or decrease the hardware allocated to the Virtual Machines with just one click. Shut down hardware resources when not being used to control unwanted consumption.

### Automated

- Automated onboarding, simple provisioning and configuration of Windows and Linux Virtual Machines by getting access to the latest compute AWS infrastructure, maximize value of your licenses, reduce simulation cycle time by enabling more simulations.

## / Ansys Gateway powered by AWS: bring your own AWS cloud enrollment!

- Run your Ansys applications & CAE/CAD applications on the cloud seamlessly through Ansys Gateway powered by AWS. Access non cloud enabled engineering and simulation applications quickly.
- Create, Resize Virtual Machines and High-Performance Computing clusters in minutes with minimal technical skills. Easily start, connect to, and shutdown Virtual Machines.
- Bring your own Licenses for Ansys and 3<sup>rd</sup> party software and use your own AWS Subscription.
- Enable seamless access by integrating with your existing corporate infrastructure.
- Manage access and control data in your own AWS account.
- Manage and control your cloud expenses and consumption by receiving comprehensive and complete usage reports.
- Onboard quickly with Express onboarding and Ansys ID.
- Support CPU and GPU compute and Accelerated Graphics.



Currently, applications from Ansys Releases 2023 R2, 2023 R1, and 2022 R1 are available in Ansys Gateway powered by AWS. Click [HERE](#) to learn more.

- Ansys Mechanical, Ansys Workbench and its additive in Ansys Mechanical, Ansys Workbench Meshing, Ansys Autodyn, Ansys Explicit Dynamics, RBD - Rigid Body Dynamics, Ansys Motion, Ansys Composite, Ansys Sherlock, Ansys MAPDL, Ansys DesignXplorer, Ansys LS-DYNA, Ansys LS-PrePost
- Ansys Fluent, Ansys CFX, Ansys Fluent Meshing, Ansys TurboGrid, Ansys CFD Post, Ansys BladeModeler, BladeEditor, Ansys EnSight, Ansys Rocky
- Ansys HFSS, Ansys HFSS 3D Layout, Ansys Icepak, Ansys Maxwell, Ansys Nexxim, Ansys NuHertz FilterSolutions, Ansys Q3D Extractor, Ansys Slwave, Ansys RedHawk-SC, Ansys AQWA, Ansys PrepPost, Ansys Twin Builder, Ansys EMA3D (Cable and Charge), Ansys Motor-CAD, Ansys RaptorH, Ansys RaptorX, Ansys VeloceRF
- Ansys Granta Selector, Ansys Granta Material Designer, Ansys Granta MI Pro, Ansys OptiSlang
- Ansys SCADE Display Advanced Modeler Seat, Ansys SCADE Display ARINC 661 Advanced Modeler, Ansys SCADE Display KCC, Ansys SCADE LifeCycle, Ansys SCADE Suite Advanced Modeler Seat, Ansys SCADE Suite Design Verifier, Ansys SCADE Suite Gateway for Simulink, Ansys SCADE Suite KCG Code Generator - C and ADA, Ansys SCADE Suite Timing and Stack Optimizer, Ansys SCADE Test Environment for Host, Ansys SCADE Test Model Coverage, Ansys SCADE Solutions for ARINC 661 Compliant Systems, Ansys medini analyze, Ansys ModelCenter
- Ansys Speos and add-on applications (optical part design, optical sensor test, HUD design and analysis), Ansys Lumerical FDTD, Ansys Lumerical INTERCONNECT, Ansys Lumerical MODE, Ansys Lumerical Multiphysics
- Ansys Discovery (Modeling/Live), Ansys SpaceClaim, Ansys SpaceClaim Meshing, Ansys DesignModeler

ANSYS, Inc.  
www.ansys.com  
ansysinfo@ansys.com  
866.267.9724

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