



NICE EnginFrame is an **advanced web front-end** for accessing technical and scientific applications in the Cloud. It has a broad base of successful production deployments in Oil&Gas, Automotive, Aerospace, Medical, Financial Services and Research markets.

NICE EnginFrame enables HPC users to get the job done faster, without facing the complexity of the underlying computing infrastructure. Users can interact with a **secure, intuitive, service-oriented interface** to their HPC clusters, data, licenses, batch & interactive applications through a standard Web browser.

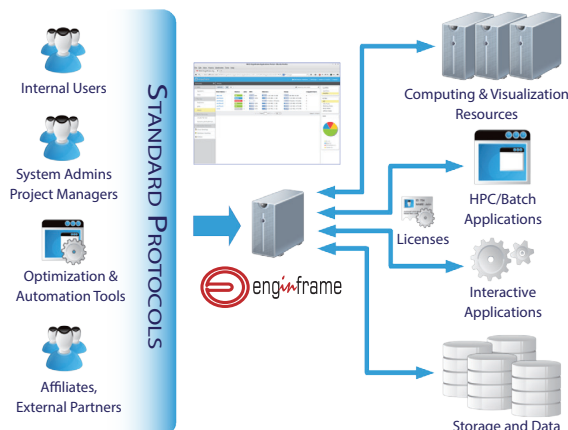
Built on over 20 years of experience and innovation in HPC and remote visualization, NICE EnginFrame provides advanced data management capabilities and flexibility in service definition, helping a traditional HPC infrastructure to evolve into a self-service Private, Hybrid and Public HPC Cloud.

How NICE EnginFrame works

NICE EnginFrame can be easily deployed in front of one or more HPC clusters or Grids.

It provides a set of predefined application templates to make users immediately productive, and can easily be extended to accommodate new applications or more complex workflows, without knowledge of Web technologies or programming languages.

Leveraging mainstream job schedulers, NICE EnginFrame translates user clicks into the appropriate actions, including job submission, monitoring, input and output data management.



Category

Business Benefits

User Productivity

- Streamline and simplify batch & interactive workflows
- Reduce training requirements for newer and occasional users

Infrastructure

- Access HPC systems anywhere, on any device
- Leverage existing investments in HPC resources, scripting solutions and job schedulers
- Simplify adoption of advanced policies, Grids and Clouds transparently to users

IT Management and Security

- Control who can do what, when and how
- Protect data transfers with encryption
- Monitor resources, jobs and license usage

Data Management

- Reduce data transfers by leveraging caching, compression and remote file management
- Transparently access all relevant data distributed in the HPC system
- Reduce job failures with parameter checking and integrated "include file" management

New in NICE EnginFrame 2017

- HTML5 UI with multi-file uploader
- Improved workflows management
- Support for Amazon Linux AMI OS
- New web-service API for system integration
- Session management for DCV 2017.0
- Automated deployment on AWS Cloud

Top reasons to use EnginFrame

Batch and interactive workflows support

Maximizing HPC usability and effectiveness

Optimizing data transfers

Simple publishing of complex services

Delivering HPC services to heterogeneous user groups

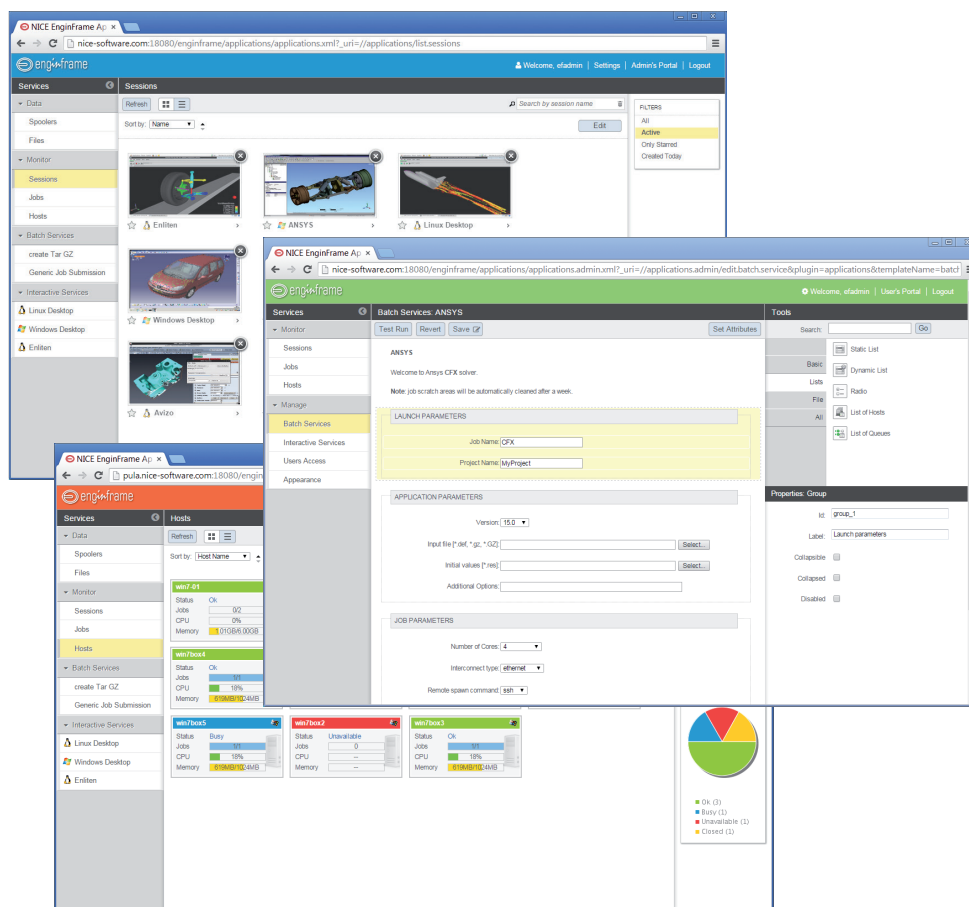
Native Integration with Amazon Web Services technologies





Key features of NICE EnginFrame

- Lightweight, intuitive application-oriented portal for HPC systems
- Highly configurable and scalable from small clusters to large Grids
- Supports mainstream job schedulers
- Workload, resource and license monitoring
- Excellent input and output data management
- Built-in interactive session management for Windows and Linux
- Portal, WebServices, API and command-line interfaces
- Role-based and context-based access control



More from NICE

NICE, an Amazon Web Services company, delivers comprehensive **on-premises and cloud solutions** for companies and institutions, increasing user productivity for technical HPC applications. In more than 20 years, we have helped hundreds of customers worldwide, including many Fortune 2000 customers in Automotive, Aerospace, Oil&Gas, Pharmaceutical, Financial Services, Government and Education.

NICE EnginFrame is integrated with **NICE Desktop Cloud Visualization (DCV)** and manages your 3D applications balancing the users sessions in the Cloud or on-premises. DCV is a remote visualization technology designed for technical computing applications. DCV enables real time collaboration among users via interactive sessions sharing. Transferring pixels, instead of data, results in reduced network traffic, increased application performance, and improved security by keeping the data within the data center.

For more information, please visit our website at <http://www.nice-software.com>

Supported platforms

Job Schedulers

Adaptive Computing Moab
Altair PBS/Pro
Univa Grid Engine
IBM Platform LSF
Openlava
SLURM
TORQUE

Web Browser (Client side)

Chrome
Firefox
MSIE/Edge
Safari

Operating System (Server side)

RedHat Enterprise 5.x and above
SUSE Enterprise Server 11 and above
Amazon Linux AMI



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