KNIME Server - the Heart of a Corporate KNIME Setup

For corporate deployment of KNIME, companies often require a central facility to store and access KNIME workflows in a controlled manner. It is important to run and schedule workflow jobs for immediate or repeated execution. Many companies also need to be able to integrate KNIME workflows into an existing Service Oriented Architecture and to reach all end users through configurable web portals. KNIME.com has taken all these requirements into account in its design of the KNIME Server.

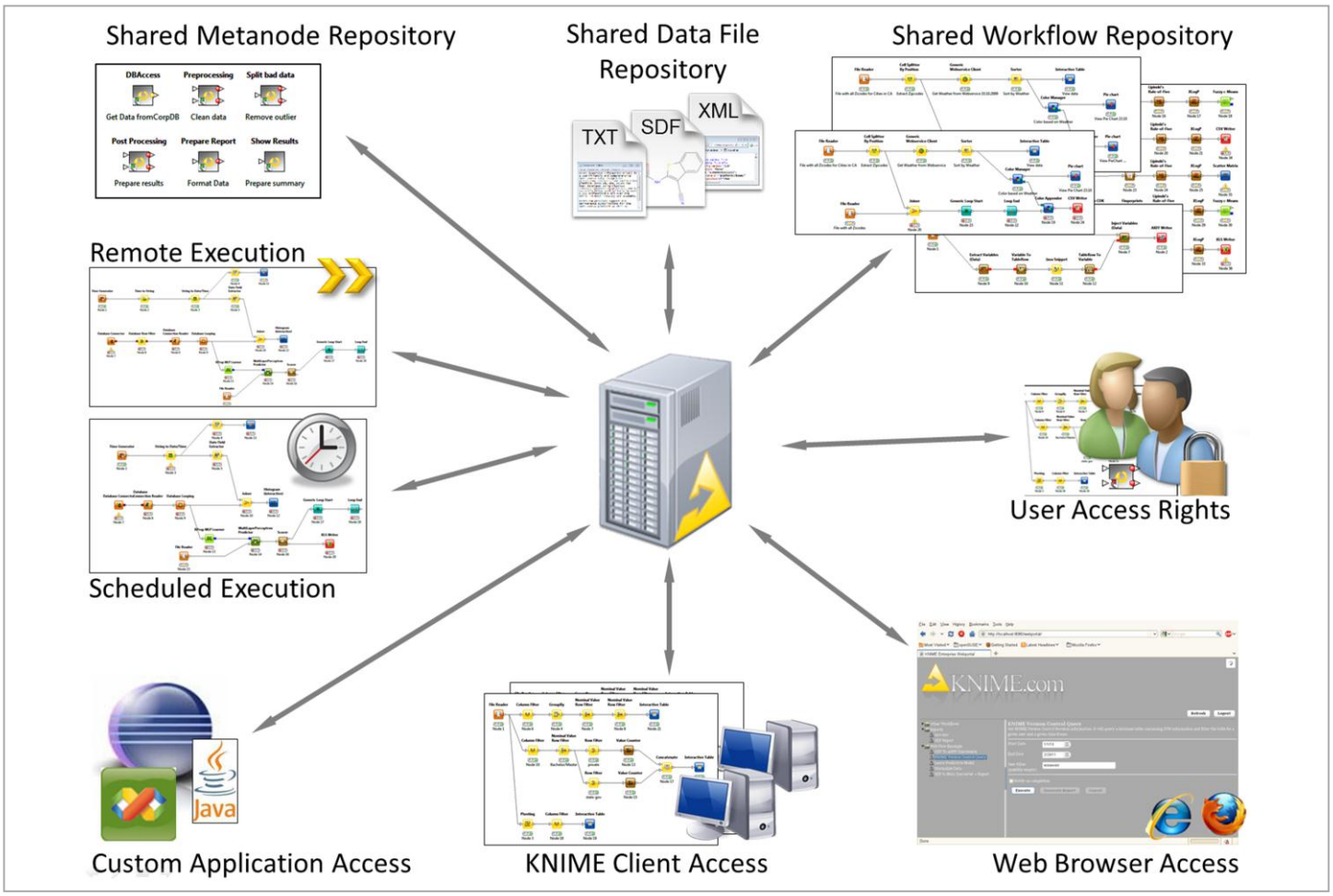


Figure 1: Clients can up- and download workflows to and from a workflow repository, which also contains data files. Workflows can be run remotely or scheduled for execution, a web service interface provides custom applications integration, and the shared metanode repository

Remote Execution

KNIME Server delivers the functionality a company requires in order to deploy KNIME in a corporate environment.

Remote execution lets you benefit from the advanced calculation capabilities of your central server. Scheduling allows workflows to be run at a certain time or even on a repeated basis. This is often used in workflows that check repositories and databases, or that access certain file locations to pick up e.g. new data files from analytical machines or business processes and process them through a server based workflow.

Controlled Access

Central workflow storage allows workflows to be shared through a controlled repository. User can access the workflows and files they have been assigned to by user rights management.

Authentication can optionally be integrated with existing systems like LDAP or Active Directory.

Not only workflows but also data files can be stored on the remote server and even preconfigured metanodes can be linked into workflows meaning that the latest version of the metanode is accessible for each execution.

This is ideal if you want to centralize and reuse work that others have already created with KNIME.

Interface Options

KNIME Server includes all KNIME Team Space features such as shared metanode repository and data file repository.

The KNIME Server also provides a Web Portal to access your workflows through a web browser interface. KNIME Quickform nodes facilitate configuration of the web UI.

Final results can be provided through the web interface as file downloads or even more conveniently through reports created with the free KNIME Report Designer.

Custom applications can access KNIME workflows as web services. This opens KNIME for your Service Oriented Architecture (SOA).

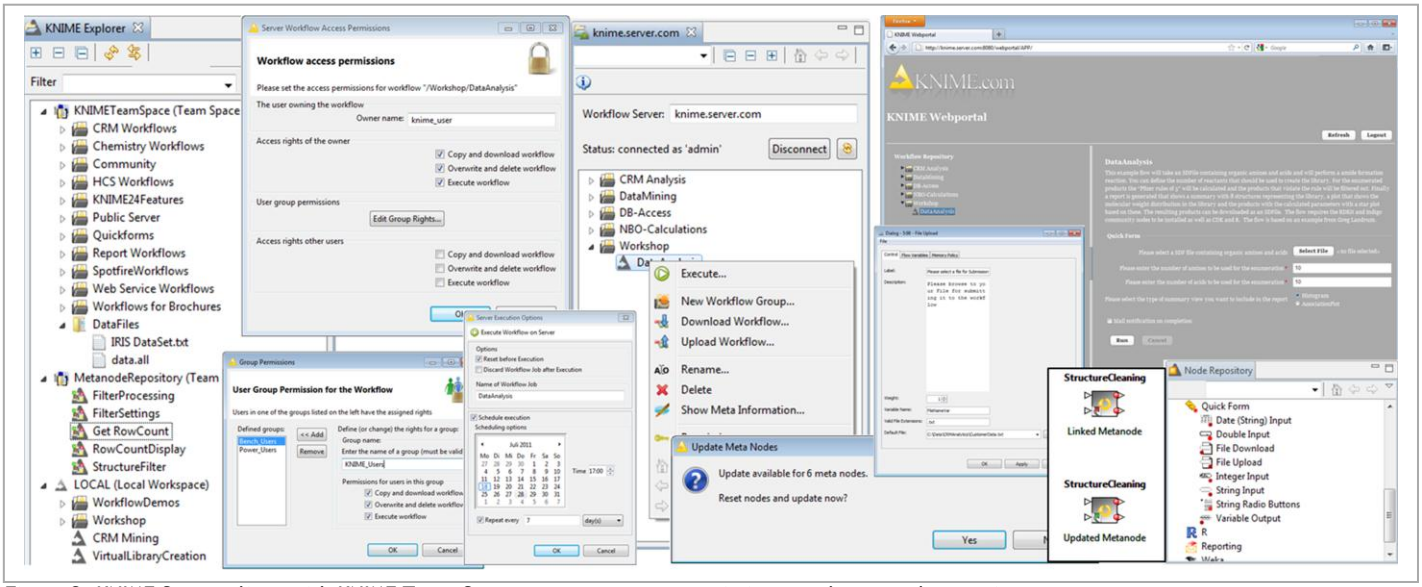


Figure 2: KNIME Server client with KNIME Team Space, server access, permissions, and metanode repository

Server Features

- Server based
- Remote & Scheduled Execution
- Web Services
- User Authentication & User Rights
- Web Portal access to workflows
- Report generation

Includes KNIME Team Space and KNIME Professional

- Shared Workflow Repository
- Shared Data Space
- Shared metanodes
- Support for all KNIME features
- Commercial Support Agreement
- Priority Product Updates

KNIME Server

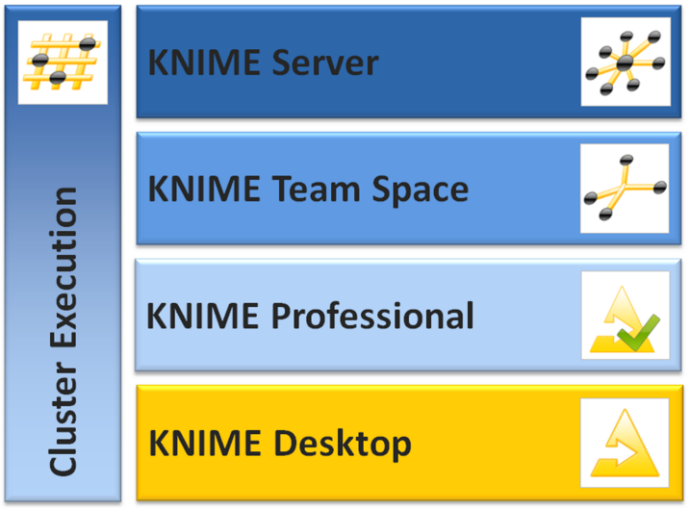
KNIME Server enables you to store your workflows and access them from anywhere in your company. User access rights control how data is grouped for projects, workgroups or departments. The web portal is the perfect way to distribute preconfigured workflows, created by power users, to all end users.

Web service access integrates KNIME workflows into custom applications. Scheduling workflows lets you automate e.g. business critical data management processes. For calculation intensive tasks KNIME Server can be extended with KNIME Cluster Execution.

Software & Licensing

Operating System
Windows 7, Windows 2008 Server, Linux SUSE 10 and 11, Linux Fedora 10, Red Hat Enterprise Linux 5, Ubuntu (32 or 64 bit)
Mac OS X 10.5 Leopard, 10.6 Snow Leopard
Application server: GlassFish 2.1.1

Licensing
KNIME Server is available under an annual license model based on the number of users and includes KNIME Team Space and professional support for KNIME Desktop and Reporting.



The KNIME Product Suite

KNIME Desktop
Open-source platform for integrated data access, data mining, statistics, visualization, and reporting.

KNIME Professional
Professional support on all KNIME features and priority bug fixes through a commercial agreement.

KNIME Team Space
All KNIME Professional features plus shared workflow store, shared data space, shared metanodes.

KNIME Server
All KNIME Team Space features plus remote and scheduled execution, user access rights, SOA integration, configurable web portal access to workflows and reports through a web browser.

KNIME Cluster Execution
Submission of workflows to a compute cluster, distribution of single nodes, splitting of large data sets, and remote execution.

About KNIME and KNIME.com AG
KNIME is the leading open-source analytics platform and is based on a modern graphical workflow paradigm. From day one, rigorous professional software engineering processes combined with cutting-edge data analytics and visualization techniques have been applied to produce state-of-the-art results. KNIME is used by professionals in both industry and academia in over 60 countries. Open-source KNIME, as well as the KNIME product suite are supported and continue to be developed by KNIME.com AG, an independent vendor located in Zurich, Switzerland. See www.KNIME.com for more details.

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