

# KNIME Server

## Productionizing Data Science

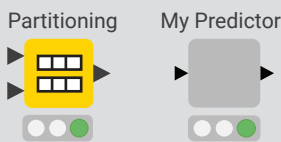
KNIME Server helps teams of data scientists, business analysts, and IT devops work efficiently together. It extends the power of KNIME Analytics Platform to everyone in the company. KNIME Server enables collaboration, automation, management, and deployment of data science workflows as analytical applications and services. Business analysts are given access to data science via the KNIME WebPortal and application developers can use REST APIs to integrate workflows as analytical services to applications and IoT systems.

KNIME Server Small is designed for small teams, enabling them to exchange workflows and execute them remotely. KNIME Server Medium adds Guided Analytics by letting non-data-experts interact with parts of a workflow via the KNIME WebPortal, and includes REST API for company-wide deployment. KNIME Server Large allows multiple installations as well as unlimited KNIME WebPortal consumers, and is intended for large organizations collaborating across business units or across the globe.

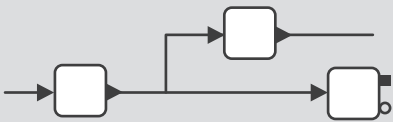
### Collaboration and Shared Repositories



Data



Nodes and Components



Workflows

Share expertise and best practices by exchanging data, components, and workflows across your team and company.

Store each workflow revision with all of its intermediate calculations, extensive debugging, tracking, and auditing capabilities, with the versioning feature.

### Security and Management



Nodes, Files, Applications

KNIME Server gives you control over access management at the node, file, and application level.

Component linking, locking, and encrypting allows you to securely publish workflow fragments across the organization, automatically updating all workflows that use those components.

KNIME Server offers LDAP authentication in addition to basic file-based access restriction, for integrating analytics into your existing authentication infrastructure.

Connect to KNIME Server from KNIME Analytics Platform with legacy applications. Or write your own applications using the development environment of your choice with our industry standard REST interface.

### Automation and Flexible Execution



Remote, Scheduled

Offload execution from personal laptops to a well provisioned, high performance computer, which is configured to your specifications.

Use scheduled execution for delayed and recurring workflow deployment, allowing maximum flexibility for distribution among teams and infrastructure.

### Deployment and Guided Analytics



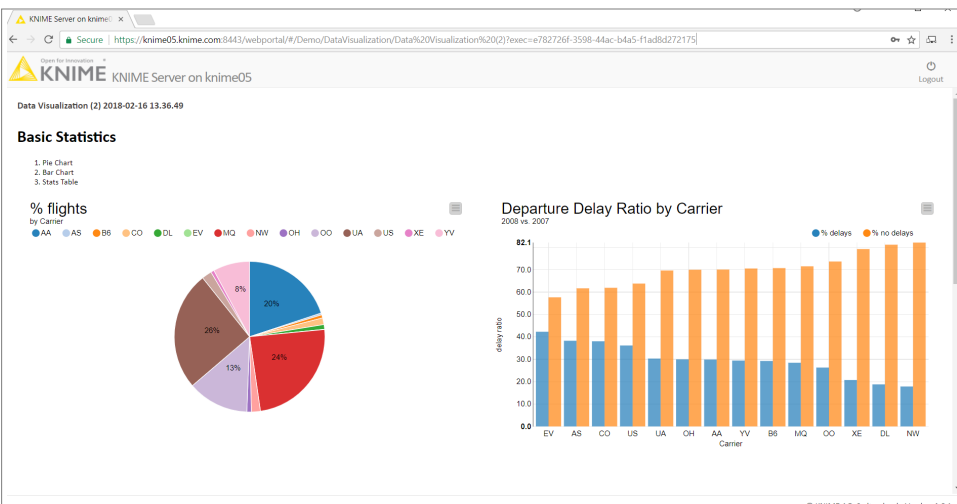
Guided Analytics, Services

The KNIME WebPortal provides access to Guided Analytics from any web browser, enabling data scientists to guide anyone in the organization through advanced analytics, publish workflow results, or schedule executions remotely.

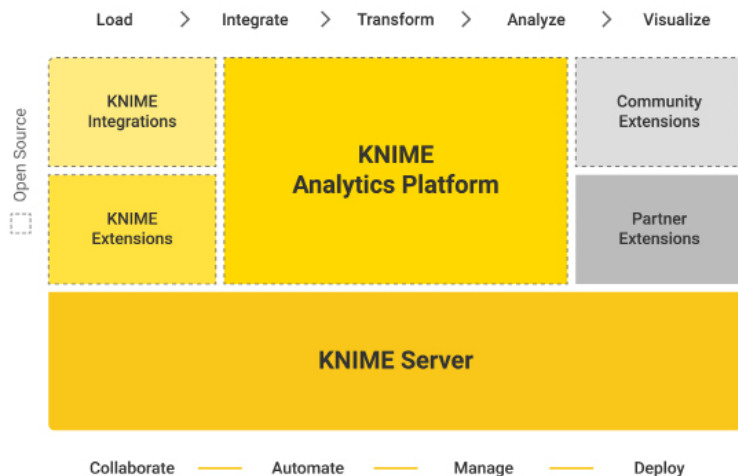
Our REST interface enables developers to easily create industry standard web services for analytics.

### Cloud Deployment

KNIME Server can be hosted on both private and public Microsoft Azure or Amazon AWS clouds, as well as on-premise.



Feature and Description	KNIME Server Small	KNIME Server Medium	KNIME Server Large
<b>Collaboration</b>			
Share workflows and control access rights	✓	✓	✓
Upload and share components to enable users to reuse most common functionalities	✓	✓	✓
Encrypt metanodes to secure content and protect intellectual property			✓
Customize the node repository to ease use and ensure compliance			✓
<b>Automation</b>			
Execute workflows on KNIME Server	✓	✓	✓
Schedule a workflow or report to be executed at a certain time, or periodically	✓	✓	✓
Modify and execute workflows on KNIME Server to take advantage of well provisioned hardware in a secure environment	✓	✓	✓
Scale workflow execution to multiple machines with KNIME Executors			✓
Use Workflow Pinning for automated routing of workflows with special requirements to KNIME Executors with matching capabilities			✓
Execute big data workflows remotely. Enables access to Apache Hadoop and Spark from KNIME workflows			✓
<b>Deployment</b>			
Create and deploy Guided Analytics	✓	✓	✓
Deploy workflows via the REST API to allow access from other applications		✓	✓
Number of consumers with access to analytical applications and services via the KNIME WebPortal	Licensed users only	4x licensed users	Unlimited consumers
<b>Management</b>			
Manage user credentials locally for individual users and groups	✓	✓	✓
Create workflow snapshots and compare to previous versions	✓	✓	✓
Monitor server activity (running and scheduled jobs), adjust permissions, manage ongoing services	✓	✓	✓
Access detailed summaries of workflows for data lineage		✓	✓
IT operations via central management of settings for multiple KNIME Analytics Platform client installations and customizations		✓	✓
Integrate authentication with corporate LDAP / Active Directory setups, and Single Sign-On (SSO) via OAuth / OIDC			✓
Elastic scaling of computational resources with KNIME Executors, installed on-prem, in cloud, or hybrid mode			✓
Manage dedicated groups of KNIME Executors and assign execution power to teams or groups			✓
Elastic scale-out and scale-in with pay-as-you-go pricing			✓



## About KNIME

At KNIME, we build software for fast, easy and intuitive access to advanced data science, helping organizations drive innovation.

For over a decade, a thriving community of data scientists in over 60 countries has been working with our platform on every kind of data: from numbers to images, molecules to humans, signals to complex networks, and simple statistics to big data analytics.

Our headquarters are based in Zurich, with additional offices in Konstanz, Berlin, and Austin. We're open for innovation<sup>®</sup>, so visit us at [KNIME.com](http://KNIME.com).