

# **KNIME Community Hub User Guide**

KNIME AG, Zurich, Switzerland Version 1.10 (last updated on 2024-09-09)



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## Introduction

KNIME Community Hub is a KNIME-managed Hub instance.

It is a central place to collect the common knowledge base among the KNIME Community and it has search functionalities as well as collaboration capabilities.

On KNIME Community Hub you can search for nodes, extensions, components, and workflows made available by the community.

You can use these as blueprints and building blocks in KNIME Analytics Platform, and build workflows to solve your data science use cases.

KNIME Hub can also be used to upload and organize workflows in a central place, and to collaborate with other users on your projects.

Via KNIME Hub you can:

- Find workflows, components uploaded by KNIME Community
- Upload and organize your workflows and components in projects
- Create and manage projects
- · Collaborate with other users on your projects

## Search items and use them in KNIME Analytics Platform

You can find the KNIME Community Hub at the following address:

#### https://hub.knime.com

In the browser, you will access the KNIME Hub home page shown in Figure 1.

	Hub				Pricing About <b>: Signm</b>
	Acces	s <u>1128 v</u>	CO KNIME Commun vorkflows, <u>161 components</u> and <u>247 exter</u> IME and our community. No registration re	nsions	lub
	Q	browse	curated collections of workflows and resou	IFORE	
2	KNIME for Geospatial Analysis           Harvards Detter for Geographic Analysis (DGA) and KNIME have teamed up to enable non-expert users to unlock the potent.           Anime	69	KNIME for Snowflake Users Enable seyone in the organization - whether data experts, data analysts, burness experts, scripters or nen-scripters	an Ces	Explainable Artificial Intelligence (XAI) and KNIME Explainable Artificial Intelligence (XAI) arms to develop AI systems that provide clear and interpretable explanations knime
			visual workflows with the open	Q Downlo	(Show more collections)
	source KNIME Analytics Platfo		away. n more about KNIME Community Hub		

Figure 1. The KNIME Hub homepage

### Search

Insert a keyword in the search bar to search among the following items publicly shared by the KNIME Community:

- Nodes
- Components
- Workflows
- Extensions
- Collections

Press Enter to visualize the results.

You will see a list of all the search results in tiles, with:

- · An icon indicating if they are nodes, components, workflows or extensions
- The title
- Whether it is a *draft* or a *versioned* item (for components and workflows)

i

Find out more about versioning a workflow or a component in the versioning section.

- Tags, when available
- A preview of the description, when available
- The owner icon for workflows, and extensions
- The icon, for nodes and components

On top of the search results list, you can filter the results to list only nodes, components, workflows, extensions, or collections by clicking the respective tab, shown in Figure 2.

1E н	Q Sentiment Analysis	×	Pricing About
> Search			
	esuns Vorkflows 🕤 Nodes 🧏 Components 🖅 Extensio	ns d <sup>51</sup> Collections	$\overline{\mathbb{V}}$ Filter
ଖ୍ୟୁ	Workflow Sentiment Analysis Versioned on Oct 13, 2023 556 PM Deep learning Keres Text desauffication +11	This workflow shows how to train a simple neural network for text classification, in this case sentiment analysis. The used netwo knime > Examples > 04_Analytics > 14_Deep_Learning > 02_Keras > 08_Sentiment_Analysis_with_Deep_Learning_LINIME_nodes	♡ 0 knime
ଜ୍ଜ	Workflow Sentiment Analysis Versioned on Cot 13, 2023 556 PM Deep learning [Kerss] Test classification ] +13	This workflow shows how to train a simple neural network for text classification, in this case sentiment analysis. The used netwo knime > Examples > 04_Analytics > 14_Deep_Learning > 02_Keras > 07_Sentiment_Analysis_with_Deep_Learning	♥ 0 knime
ଜ୍ଜ	Workflow           Sentiment Analysis (Classification) of Documents           Versioned: on Oct 13, 2023 55 FM           Sentiment analysis ( MLP ) [Mininf Language Processing ] =2	This workflow shows how to import text from a csv file, convert it to documents, preprocess the documents and transform them into knime > Examples > 08_0ther_Analytics_Types > 01_Text_Processing > 03_Sentiment_Classification	♡ 0 Knime
ଜ୍ୟୁତ୍ସ	Workflow           Imbalanced Sentiment Analysis with XGBoost           Versioned         on Cot 13, 2023 55 FM           Sentiment analysis         (KLP)           Manual Language Processing         (et al.)	This workflow shows how to import text from a csv file, convert it to documents, preprocess the documents and transform them into knime > Examples > 04_Analytics > 16_XGBoost > 03_imbalanced_Sentiment_Analysis_with_XGBoost	♡ 0 knime
ଜ୍ଜ	Workflow Lexicon Based Approach for Sentiment Analysis Versioned: on Cot 13, 2023 55 FM NEP: Sentiment analysis (Text processing) <2	This workflow shows how to perform a lexicon based approach for sentiment analysis of IMDB reviews dataset. The dataset contains knime > Examples > 08, Dther_Analytics, Types > 01, Text_Processing > 26, Sentiment_Analysis_Lexicon_Based_Approach	♡ 0 knime
el <sup>o</sup>	Workflow Sentiment Analysis with BERT	This workflow demonstrates how to do sentiment analysis by fine-tuning Google's BERT network. The idea is straight forward: A sma	∞.

Figure 2. The KNIME Hub search results

Click on a search result to access the relative page.

When searching for workflows and components, the items that have been versioned will

show up higher in rank than draft-only items. This ensures you to be able to easier find versioned workflows and components when searching on KNIME Hub.

#### Nodes

On the node page, as shown in Figure 3, you will find:

- 1. The node function, name, and tags
- 2. The node owner
- 3. The node drag & drop element: You can drag & drop the element into the Workflow Editor of KNIME Analytics Platform to use the node directly to build a workflow or a component. See the Drag & drop section for more details on this feature.
- 4. The node likes (see the Likes section for more details on this feature) and a link icon to copy the node short link

For each node you can also find:

- An Overview with a description of the node functionality
- *Node details* where you can see information about *Input* and *Output* node ports, a description of the additional *Options*, and, when available, the *Views* that the node is able to produce
- · In the section Extension, you can see the node extension and the extension owner
- Finally, in the section *Related workflows & nodes* you are provided with:
  - · Workflows that are available on KNIME Hub and that contain the node
  - When available, the *Outgoing nodes*, that are the most popular nodes to follow the node when building a workflow.

		Q. Search workflows, nodes and more			Pricing About I <mark>Signim</mark>
KNIME Community Hub >> Nodes >> CSV Reader					
1	© Node / Source CSV Reader © Text (Service)			2	
	<ul> <li>buttor: If you encode Limit data rows scar Successful and the scale Successful and the scale Successful and the scale Complex files.</li> <li>Ansi node can access a variety of different can access a variety of di</li></ul>	your file, try the <b>File Reader</b> node. It offers more options for <i>t</i> <u>file asytems</u> . L <sup>1</sup> <i>More information about file handling in KNIME</i> <u>studie</u> L <sup>2</sup> studie in parallel if <i>t</i> is running this node. ontain row delimitens. ed. RowD.		4	
	Node details			Overview	
	Ports HI Options Oviews			Node details Extension	
	Output ports	► Type: Table File Table File being read with number and types of columns guessed autor	natically.	Related workflows & nodes	
	File System Connection (Dynamic Inport)	The file system connection. Type: File System			
	Extension The CSV Reader node is part of this extension KNIIME Base nodes (?)	This features contains basic KRIME nodes.	(A) knme		
	Related workflows & nodes				
	04 Data Transformation [hike organ] [hing surputation] [High formula] [et] 01 Date and Time Manipulation	Exercise for transforming data. Perform data transformations with the field engine, Mahi F Issues Advances Advisor Conners Advisor 11-05/03/04 Kaniyos Pathomin for data descretes-Basis (premient) + Densies + 04 Data Transformation	knime		
	Date Tate Ring to databline (2)	Emerative Net Section Annu Annu Annu Annu Annu Annu Annu An	kzime		

Figure 3. A node page on KNIME Hub

#### Components

Components really are KNIME nodes that you create to bundle functionality. They have their own configuration dialog and their own composite views. Thus, also in the component page shown in Figure 4 you will find similar information as for nodes.

- 1. The component name, optionally its latest version (see the versioning section for more details on this feature), and last edit date
- 2. The component owner
- 3. The component drag & drop element: You can drag & drop the element into the Workflow Editor of KNIME Analytics Platform to use the component directly to build a workflow. See the Drag & drop section for more details on this feature.

4. The component likes (see the Likes section for more details on this feature), the count of downloads, and a link icon to copy the component short link.

For each component you can also find:

- An *Overview* with a description of the component functionality, if provided by the component owner
- Component details, where you can see information about the component's *Input* and *Output* ports, a description of the additional *Options*, and, if available, the *Views* that the component is able to produce
- In the section Used extensions & nodes you can see the component extensions and nodes
- Finally, in the section *Related workflows* you are provided with *Workflows* that are available on KNIME Hub and that contain the component

	Hub		Q Search workflows, nodes and more			Pricing About I Bign in
KNIME Community Hub > knime	) Spaces ) Examples ) 60,50mponents ) Attorn	non <sup>1</sup> Teller URLa Exercise R Component <b>Twitter URLs Extract</b>	or		2	
		Version: v1.0 - Created on Oct 20, 2023 3:29 PM	© History	3	0 0 0 Copy link	
		mainly for SEO purpo tokens obtained from number of tweets for By default all filters a in your search query a search filters can be found at:	acts the links tweeted for better keyword search analysis, sees. Its usage is fairly simple, add in the heiter authentication of derivitities com, search only with the occurs (filter and search result). The disabled, please specify any necessary search filter you want and this component will do the rest for you. List of all possible tter-api/vl/nules-and-filtering/search-operators		4	
		Component details				
		<u>, ⊘ Ports</u> ( ) Options @ Views Output ports	Type: Table     table     A column containing tweeted web addresses and corresponding	g tweet details.	Overniew Component details Uxed extensions & nodes	
		-@ Extensions & nodes			Legal	
		Created with KNIME Analytics Platform version 4.4.0				
		KNIME Base nodes $\oslash$	KNME 65, Zurich, Switzeland Version 4.4.0	knime		
		KNIME Expressions $\heartsuit$	X0ME #G_2VmH, Switzeland Version 44.0	knime		
		KNIME Javasnippet $\heartsuit$	KNME AG, 2vish, Sinizarland Version £1.0	knime		
		KNIME Quick Forms $\bigtriangledown$	KUMIT 43, 25xH, Switzeland Version 440	knime		
		KNIME Twitter Connectors $\heartsuit$	KNME &Z. Zunik, Bonardani Varate: 4.4.0	knime		
		Legal By using or downloading the component, you a	gree to our terms and conditions			

Figure 4. A component on KNIME Hub

### Workflows

A workflow page typically has multiple useful information about the workflow such as:

- 1. The workflow title, tags, optionally its latest version (see the versioning section for more details on this feature), and its last edit date
- 2. The space owner where the workflow is contained and, if different from the space owner, the workflow developer
- 3. The workflow drag & drop element: You can drag & drop the element into a selected mount point in the space explorer of KNIME Analytics Platform. This will prompt an *Import* window which allows you to import the workflow into the mount point. See the Drag & drop section for more details on this feature.
- 4. The workflow likes (see the Likes section for more details on this feature), the count of downloads, and a link icon to copy the workflow short link.

For each workflow you can also find:

- An *Overview* with a description of the workflow when provided by the workflow developer
- *External resources* links to external resources such as KNIME blog posts, KNIME documentation, or any other interesting link that the workflow developer might want to provide
- In the section *Used extensions & nodes* you can see the workflow extensions and nodes, and the KNIME Analytics Platform that has been used to create the workflow

		Q Search workflows, nodes and more			Pricing About : Signin
KHIME Community Hub > knime > Spaces > D	emples > 02.ETL_Bate_Mempleterin > 00.Base_E =© Workflow Visual Analysis of S [Statement: Ther Theory] Calcer there; See include	Sales Data		2	
	Versien: v1.0 - Latest, created on Dct 20, 2023 4.06 i	PM (3 History)	4	Copy link	4
		⊧ instructions on the "Build a workflow" pay w metadata. Find it here: View -> Descript			•
	Data Access - Provide file path - SV Reader Read salles_2008-2011.csv	ta Preprocessing ther columns and rows Column Filter Row Filter there is a state of the sta	Show sales by time and country Stacked Area Chart Stacked Area Chart Sales by time Color Manager Piel/Donut Chart Assign colors Sales by country Sales by country	Overview External resources Used extensions & nodes Legal	
	Workflow that is built according to the in Quickstart Guide Shows possible steps in analyzing (sale 1. Data access-Reading a csv file 2. Data preposesing - Fittering column 3. Data visualization - Assigning colors to How-to: Configure a node - Right click a node and select 'Configur - Or, double click a node	is and rows to groups in the data. Building graphs.	and in the KNIME		
	Execute a node - Right click a node and select "Execute" Inspect data output - Right click a node and select the last o Open an interactive view - Right click a node and select "Interacti	ption called "File Table", "Filtered Table", e	tc.		
	External resources $\rightarrow$ KNIME Getting Started Guide				
	Used extensions & nodes				
	Created with KNIME Analytics Platform version 4.5.1	KNIME AG, Zurich, Switzerland Version 4.5.1	Lime		

Figure 5. A workflow on KNIME Hub

### Extensions

Extensions are collection of nodes that provide additional functionality such as access to and processing of complex data types, the use of advanced algorithms, as well as the use of scripting nodes, and so on.

KNIME Extensions are developed and maintained by KNIME, allowing you to access open source projects and add their functionality to your KNIME workflows. Community Extensions instead include functionality specific to various industries and domains. Some of these community extensions are classified as Trusted Community Extensions, which have been tested for backward compatibility and compliance with the KNIME usage model and quality standards, and Experimental Community Extensions, which come directly from the labs of our community developers. Finally, also Partner Extensions are available which provide additional capabilities offered and maintained by our partners.

All these Extensions are available on KNIME Hub.

An extension page typically has multiple useful information about the extension such as:

- 1. The extension name and owner, version of the extension
- 2. The extension drag & drop element: You can drag & drop the element into the Workflow Editor of KNIME Analytics Platform. If the extension is not already installed this will prompt an *Install Extension* window which allows you to install the extension. See the Drag & drop section for more details on this feature.
- 3. The extension likes (see the Likes section for more details on this feature), and a link icon to copy the extension short link.

For each extension you can also find:

- · An Overview with a description of the extension when provided
- *Included nodes* with a list of all the nodes that are part of the extension and that will be available once the extension is installed
- In the section *Related workflows*, you are provided with *Workflows* that are available on KNIME Hub and that contain the nodes that are part of the extension
- Finally, in the section *Legal & update site*, you can have legal information about the copyright and the update site information, with the type of the extension, version number, and the link to the update site

### Collections

KNIME Collections on KNIME Hub allow upskilling users by providing selected workflows, nodes, and links about a specific, common topic.

One example of a collection can be found on KNIME Community Hub here.

This collection, for example, contains:

Workflow examples:

	Hub	Q Search workflows, nodes and more		Pricing About : Bign in
KNIME Community Hub > knime >	Collections > KNIME Analytics Platform	n Version 5 Starter Perspective Collection		
Spreadsbeets Browse	<b>IE Analytics Pla</b>	tform Version 5 Starter Perspec		New to KNIME? Get started with Early Access Release of Version 5 of KNIME Analytics Platform to use all the examples and nodes you need for an easy start!
Below, find spreadshe	orkflow examples examples for the most common da at users, who are new to visual work g spreadsheets	a manipulation tasks. Recommended for beginners, particularly lows		Workflow examples Nodes for data access Nodes for visualizing Nodes for data transformation Cheat sheet: KNIME for spreadsheet users
Start your ef <mark>e</mark>	data analysis journey with KNIME: A Workflow Merge Files Spreadsheets [Excel] [Merge]	beginner's workflow list for reading in data. This workflow merges different unstructured data sources to come up with a new table. Since data come from different data files, knime > KNIME for Spreadheet Users > Marge Files	♡ 0 knime	
⊳[ <sup>0</sup> S	Workflow Non-standard format Spreadsheets Excel [spreadsheet]	This workflow shows how to work with spreadsheets that come in a non-standard format using KNIME Analytics Platform. The aim is t knime > XNIME for spreadsheet Users > Non-standard format spreadsheets	♡ 0	

Figure 6. Example workflows in a collection on KNIME Hub

Nodes:

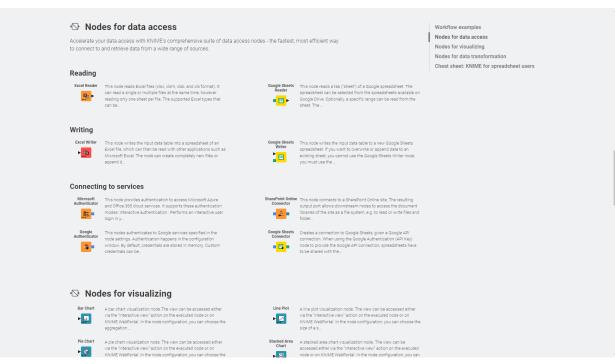


Figure 7. Nodes in a collection on KNIME Hub

· Links:

	INT		section Type			
				Workflow e	xamples	
Date & tim	e handling			Nodes for d	ata access	
	Extracts the selected fields from a Local Date, Local Time, Local		The node shifts a date or time with a define		isualizing	
	Date Time or Zoned Date Time column and appends their values as corresponding integer or string columns.	► <mark>↔</mark> ►	granularity. The user can select the Date&Ti and the shift value. The shift value can be a		ata transformation	
			either a durati	Cheat shee	t: KNIME for spreadsheet users	
	Calculates differences between two date&time cells and					
	appends a new column. The output can be either a duration or a selected granularity (years, months, weeks, days, hours, minutes,					
P <mark>O</mark> P	seconds, millis					
Cheat sh	eet: KNIME for spreadsheet u	isers				
	sheet, designed as a companion just for KNIME Analy		lation dans a dans			
	ar nodes and their purpose.	ytics Platform Version 5, as a qu	ICK reference for			
( Q Acces	s cheat sheet					
KNIME	Softw	vare	KNIME Hub	Partner	KNIME Home	
		ng started	KNIME Forum	Developers	KNIME Open Source Story	
Open for Innovation	Docu	mentation	Blog		Careers	
KNIME AG		arning course	Events		Contact us	
Talacker 50 8001 Zurich, Switzerland	Solut	lions				
D 17 in f 🛛 (	O) M			Download KNI	ME Analytics Platform Read more on KNIME Business Hub	
© 2023 KNIME AG. All rights reserved.				Trad	emarks Imprint Privacy Terms & Conditions Credits	

Figure 8. Additional links in a collection on KNIME Hub

## Drag & drop

You can drag & drop nodes, components, extensions, and workflows from KNIME Hub to import them into KNIME Analytics Platform and use them right away to build your own workflow, install KNIME Extensions, and execute uploaded workflow into your local installation.

 Node and components: You can drag & drop a node or a component from KNIME Hub into your Workflow Editor in KNIME Analytics Platform. In case the node is part of an Extension that is not yet installed into your local installation of KNIME Analytics Platform or in case nodes that are part of extensions that are not yet installed are contained in the component, you will be asked if you want KNIME Analytics Platform to search and install the missing extension(s), as shown in Figure 9.

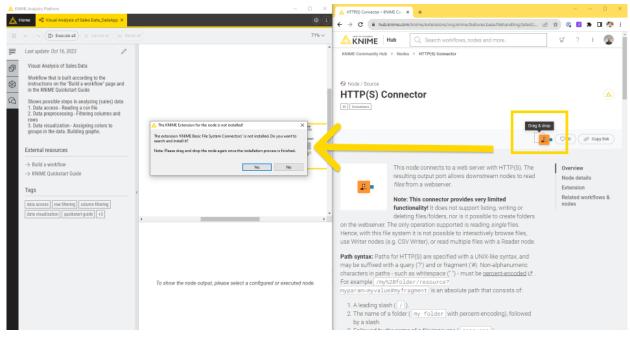


Figure 9. Drag & drop a node from KNIME Hub to KNIME Analytics Platform and install missing extension

• Extensions: You can drag & drop a specific extension into the Workflow Editor. KNIME Analytics Platform will search and install it. In order to be able to install the extension the extension's update site that is indicated at the end of the extension page in the section *Legal & update site* must be activated in KNIME Analytics Platform.

## KNIME Hub as a repository

Not only does KNIME Community Hub serve as a repository for nodes, components, workflows, and extensions, ready to use in KNIME Analytics Platform via an easy drag & drop, but you can also use KNIME Community Hub to share your workflows with the KNIME Community or to store and organize your material in a private space.

### Create a user account

First, if you do not have one already, create a KNIME user account. It will grant you access not only to KNIME Hub but also to other KNIME products, such as the KNIME Community Forum.

Go to KNIME Hub, and in the top right corner of the page, click *Sign in*. Then select *Create account*. Fill in the required information and click *Create account*.

After confirming the link sent to your email address, you can sign in with your account. Click the user icon in the top right corner of KNIME Hub and select *Profile* from the menu to have access to your profile page. Here you can have an overview of the workflows and components you published, the extensions you published in case you have developed any of those, and the likes received. Also, you will have a list of the items you liked on KNIME Hub.

## **KNIME Hub spaces**

From your profile page or by clicking your profile icon and selecting *Spaces*, you will have access to the KNIME Hub spaces that are linked to your user account. A space is a KNIME Hub repository where you can store and share your workflows and components. When you register and sign in to KNIME Hub, two spaces will be automatically created. These are a *private* space and a *public* space, which have different access permissions. You can manage your spaces by changing their names or adding a description to them.

You can upload your items from KNIME Analytics Platform to the spaces you have access to. Moreover, you can create new spaces, both private and public. Finally, you can add contributors to your *public* spaces. All these functionalities will be explained in the following paragraphs.

### Access permissions of spaces

You are the owner of your spaces. Each space is linked and assigned to a specific user.

Spaces can be private or public:

- 1. A *private* space is only accessible and manageable through your user account. Here, you can store various types of items like workflows, components, or data.
- 2. A *public* space, instead, is visible to the entire KNIME Community, where you can share your workflows and components. Everyone will then be able to download them, drag & drop them to their KNIME Analytics Platform and use it, as well as *like* your spaces or items, or copy a link to your space and share it with others.

It is also possible to switch a space from private to public and vice versa. To do so, go to the *private* space you want to make *public*, click the  $\pm$  icon on the top right part of the page, and under *Visibility*, select *Make public* (or vice versa, select *Make private*), as shown in Figure 10.

	Hub	Q Search workflows, nodes and more		Pricing About :	
KNIME Community Hub 🔌 ver	ena_mayer > Spaces > My private Sandbox				
	My private Sandbox			6	
				© 0 ⊘ Copylink	
	Home of Building a Credit Scoring Model	not to be shared	Φ	Delete     This will remove the space     Unablity This space is private. Make     trubie to everyone.     Make public	

Figure 10. Change the visibility of a space on KNIME Hub

#### Manage your spaces

You can manage your spaces at any point in time by going back to the space page.

You can change the space's **name** by going to the space page and clicking the title. Insert the new name in the title field and click the  $\triangleleft$  button or press *Enter* to save. Click the  $\times$  button instead to discard your changes.

	Q Search workflows, nodes and more	Pricing About :
KNIME Community Hub > verena_mayer > Spaces >	Public	
		♥ 0         ∅ <sup>2</sup> Copy link         €
To upload	Seems like you haven't uploaded anything to this space yet. d workflows or components, connect to the "My-KNIME-Hub" mountpoint in KNIME Analytics Platform:	
	21 ( ) ( ) ( ) ( ) ( ) ( ) ( ) ( ) ( ) (	

Figure 11. Change the name of a space

You can also add a **description** to your space by clicking *Add description* at the bottom of the space page. Again, click the yellow tick button or press *Enter* to save your changes, or the  $\times$  button to discard them.

Open for Innovation			
	Hub	Q Search workflows, nodes and more	Pricing About 🗄 🗑
KNIME Community Hub > verena	mayer > Spaces > Public		
Public space Public			
			♥ 0         Ø Copy link         ⋮
	c	eems like you haven't uploaded anything to this space yet.	
		rearns line you haven t uproduced anything to this space yet.	
		ζ + 0 0 3 mmmi β	
	•	KNIME	
		Sign in	
		Lorenze oursel addres	
		Rec. Elanar	
		Learn more	
O Add description			

Figure 12. Add a description to a space

The description will be shown in the overview of your spaces in the corresponding space tile.

#### Create a new space

You can create a space from your profile's spaces overview. Here, the spaces you have access to are shown, ordered by the latest update. Go to the last tile *Create new space*, and select if you want to create a *Private space* or a *Public space*. You can choose a name for the space, and the space will be created.

#### Delete a space

To delete a space, you can go to the space page, click the : icon on the top right and select *Delete space*. You will be asked to insert the name of the space.

Open for Innovation			2 16 16 18
KNIME Hub	Q Search workflows, nodes and more		? :
IIME Hub > mario_rossi > Spaces > Churn Analysis			
Public space     Churn Analysis			
·····,···			
Last edited: 7 Apr 2021			0 🔗 Copy link
Home		Delete     This will remove the spa	X
${\rm ext}_{\rm fs}^{\rm G}$ Data Preparation		↔ with all its content.	Delete space
This my first test with trying out so	me of the example KNIME workflows.	This space is visible to everyone. Make it privat	.e. Make private

Figure 13. Delete a space from KNIME Hub

## Connect to KNIME Hub

You can access KNIME Hub from the KNIME Hub mount point and upload your workflows and components directly from your local KNIME Analytics Platform instance to KNIME Hub.

### KNIME Hub mount point

You can connect to your KNIME Hub account on KNIME Analytics Platform.

To do so, go to the Home page of KNIME Analytics Platform and sign in to KNIME Community Hub.

URMA Analytics Platform 5		- 0 ×
	Get started with KNIME Analytics Platform 5	
	Local space	
	The local space is the folder on your computer to store and access KNIME workflows and data produced by your workflows.	Create workflow in your local space.
	KNIME Community Hub ( <u>hub.knime.com</u> ) Connect to the KNIME Community Hub to find workflows, nodes and components, and collaborate in space	es.

Figure 14. Connect to KNIME Hub from KNIME Analytics Platform

You will be redirected to the sign-in page if you are not connected in the current session already.

KNIME Analytics Platform		- 0 ×
KNIME Analytics Platform 5		۲
	Get started with KNIME Analytics	Platform 5
	Local space	
	The local space is the folder on your computer to store and access KNIME workflows and data produced by your workflows.	Create workflow in your local space.
	KNIME Community Hub ( <u>hub.knime.com</u> ) mario_rossi	(Legest)
	Churn Analysis This my first test with trying out some of the example KNIME workflows.	😪 My private Sandbox
	markujossi	mero, jossi

Once you are signed in, you will see all your spaces.

Figure 15. A user connected to KNIME Hub from KNIME Analytics Platform

Click on a space to access the items within the space. You can perform different types of operations on them:

- Upload items to your KNIME Hub spaces, download, duplicate, move, delete, or rename your items. More information about this functionality is provided in the next section.
- Open workflows as local copies or on KNIME Hub. You can find the respective buttons in the toolbar on top.
- Create folders to organize your items in the space. Click the *Create folder* button in the toolbar on top.

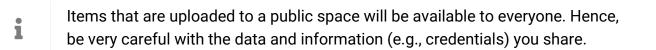
## Upload items

Once you are connected to your KNIME Hub account from KNIME Analytics Platform, you can upload the desired items to your KNIME Hub spaces.

You can upload workflows or components to any of your spaces by right-clicking the item from the space explorer in KNIME Analytics PLatform and selecting *Upload* from the context menu. A window will open where you will be able to select the location where you want to upload your workflow or component.

▲ Destination	—		×
Deploy to Select the destination workflow group.			
<ul> <li>My-KNIME-Hub (mario_rossi@api.hub.knime.com)</li> <li>Churn Analysis</li> <li>My private Sandbox</li> <li>Churn Analysis - not to be shared</li> </ul>			
knime://My-KNIME-Hub/Users/mario_rossi Reset Workflow(s) before upload OK		Cance	el

Figure 16. Upload a local item to your KNIME Hub mount point



## Version items

When uploading items to a space on KNIME Hub, you will be able to keep track of their changes. Your workflow or component will be saved as a draft until a version is created.

When you create versions of the items, you can then go back to a specific saved version at

any point in time in the future to download the item in that specific version.

Once a version of the item is created, new changes to the item will show up as draft.

#### Create a version of an item

Go to the item you want to create a version of by navigating through KNIME Hub and click *Versions*.

	Q Search work	flows, nodes and more			U	Versions history		×
KNIME Community Hub > verena_mayer > Spaces > My private Sar	dbox  > Topic Detection Based on Movie Reviews				۲	Draft Letest edits on Feb 1, 2024 11:44 AM	Create version	
Sentinent Analysis   Socion	at Analysis (Classifica argunar) Twatter Work Tag Good argunary (200411)44 AM	ation) of Documents		- (V) (V) (	•	No version created yet		
Topic Detection and Topic detection extra	alysis - Movie Reviews distribution elements from unstructured text form a topic detection analysis on movie reviews.	documents and groups them to define a number of top	ics. This worldbw	Overview Used extensions & nodes Legal				
Data Reading Read MDb reviews CSV Me. The fire is a lated in Socialitedia	Punctuation Erasure, Number Filter, N	Topic Detection Build a list of topics of the pre-processed documents using the Topic-Extractor (Parallel LDA) node: Use 4 works for each topic and 8 topics.	Grouping The GroupBy node concatenates the keywords for the identified topics.					
CSV Reader	Document Creation and document Pre-processing Transformation of stings to documents	Topic Extractor (Parallel LDA) 4 works for 5 keywith for 5 keywith for 5 keywith for 1 keywith for 2 h for both 2 h for bo	ctor (Parallel the number of that you would					

Figure 17. Versioning of a workflow

A panel on the right opens where you can see all the versions already created and all the unversioned changes of the item since the last version was created.

Click *Create version* to create a new version. You can then give the version a name and add a description.

Show a version

In the Versions history panel, click the version you want to see, or click the : icon and select Show this version. You will be redirected to the item in that specific version.

	Hub	Q Search workf	lows, nodes and more			$\odot$ Versions history
KNIME Community Hub > verena_1	mayer > Spaces > My private Sandbox > «C Workflow Topic Detectic [Seminer Adapts] [Detrivey Base] [Per	on Based on Mov	ie Reviews			v2 Testing 2 Created on Feb 1.2024.201 PM - Vension 3      v1 Testing Created on Feb 1.2024.201 PM - Vension Created on Feb 1.2024.201 PM - Vension Decide the Vension Decide the Vension Decide the Vension
	Version: v2 - Latest, created on Feb 1 Topic Detection Analysis - Movie Topic detection extracts releant perform a topic detection analysis Task. Perform a topic detection in M	Reviews information elements from unstructured text so movie reviews.	documents and groups them to define a number of top	pics. This workflow illustrates how to	Overview       Used extensions & node       Legal	
	SocialMedia	Pre-processing - Classic pre-processing of documents: - Classic pre-processing of documents: - Converter: Double-Classic Pre-processing 	the Topic Extracto 2) Try to change the	CroupBy		

Figure 18. Show the versions of a workflow

To go back to the latest state of the item, click the selected version to unselect it.

### Restore a version

To restore a version that you created, click the  $\pm$  icon in the version tile from the item history and select *Restore this version*.

	Q. Search work	flows, nodes and more			tŪ	Versions history	×
KNIIME Community Hub >> verenu_mayer >> Spaces >> My private «© Workflow Tonic Dot	Sandbox > Topic Detection Based on Movie Reviews	ria Poviows			•	V2 Testing 2 Created on Feb 1, 2024 2:51 PM - Version 3	•
	ay Based   Pusitive Words   Negative Words   Tag Cloud	ne keviews				Testing Created on Feb 1, 2024 2:01 PM – Version 1	Show this version Restore this version Delete this version
Version: v2 - Latest, cre	ated on Feb 1, 2024 2:51 PM		1 <mark>.</mark>				
				Overview Used extensions & node Legal			
Topic detection extra	lysis - Movie Reviews acts relevant information elements from unstructured tex oction analysis on movie reviews.	ct documents and groups them to define a number of top	ics. This workflow illustrates how to				
Task. Perform a topic o	detection in IMDb reviews.						
Data Reading Read IMD previews file. The file is located in Social Media	Punctuation Erasure, Number Filter, N	Topic Detection Build a list of topics of the pre-processed documents using the Topic-Extractor (Parallel LDA) node. Use 4 words for each topic and 8 topics.	Grouping The GroupBy node concatenates the keywords for the identified topics.				
version 2	Document Creation and document pre-processing	Topic Extractor (Parallel LDA)	Groupby				
CSV Reader	strings to documents	4 words for 8 topics 1) Go to the config the Topic Extracto 2) Try to change ti	r (Parallel LDA)				

Figure 19. Restore the workflow as a draft

The version will be restored as a draft.

#### Delete a version

In the *History* panel, click the : icon for the version you want to delete and click *Delete*.

	Hub	Q Search workf	ows, nodes and more			U	Versions history	×
KRIME Community Hub $\rightarrow$ verena, may	er > Spaces > My private Bandbox > *© Workflow <b>Topic Detectic</b> Testemer Audytic [Testemay Basef] [Pe	on Based on Mov	ie Reviews			•	V2 Trasting 3 Dreated on Pilo 1, 2024 231 PM – Version 3	Show this version Restore this version Delete this version
	Version: v2 - Latest, created on Feb 1	0, 2024 2:51 PM 🕑 Versions			<mark>%</mark> (0 0 0 3			
	Topic Detection Analysis - Movie Topic detection extracts relevant perform a tipic detection englise detection analysis	information elements from unstructured text	documents and groups them to define a number of to	pics. This workflow illustrates how to	Overview Used extensions & node Legal			
	Task. Perform a topic detection in IN							
	Data Reading Read IMDb reviews from a CSV file. The file is located in TheData/ SocialMedia	Pre-processing - Classic pre-processing of documents: Punctuation Ersure, Number Filter, N Chars Filter, Stop Word Filter, Case Converter Double-click the metanode to see the subworkflow	Topic Detection Build a list of topics of the pre-processed documents using the Topic-Extractor (Parallel LDA) node. Use 4 words for each topic and 8 topics.	Grouping The GroupBy node concatenates the keywords for the identified topics.				
	version 2 CSV Reader	Document Creation and document prepresenting Transformation of strings to documents	2) Try to change	the number of that you would like				

Figure 20. Delete a version

## Move items

You can move items that you have uploaded to KNIME Hub to a new location within the space that contains the item, or to a different space that you have access to. To do this, you need to be connected to the KNIME Hub mount point on KNIME Analytics Platform. If you want to move items within the same space, drag the item in the space explorer, for example, to a subfolder. To move items from one space to another, right-click the item and select *Move to*. In the *Destination* window that opens, select the space to which you want to move the item to.

i

These changes will automatically apply to the space on KNIME Hub.

## Delete items

You can also delete items that you uploaded to KNIME Hub. To do so, you can:

- Connect to KNIME Hub mount point on KNIME Analytics Platform. Right-click the item you want to delete and select *Delete...* from the context menu
- From KNIME Hub, sign in with your account and go to the item you want to delete. Click the : icon on the top right of the page and select *Delete workflow*.

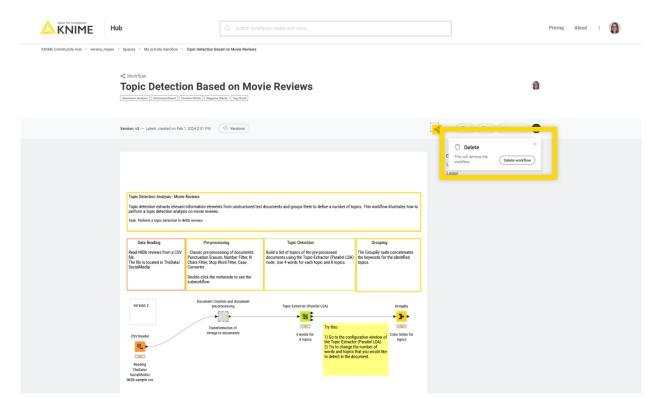


Figure 21. Delete a workflow from KNIME Hub

## Community features on KNIME Hub

KNIME Community Hub is also the place where you can interact and collaborate with the KNIME Community.

Once you have created your profile and uploaded your items to your public spaces, you can share them with others, you can remain engaged in other people's work by liking items. Finally, you can also add other users from the KNIME Community as contributors to your public spaces. They will be able to access your space from their KNIME Hub profile and from their KNIME Hub mount point on KNIME Analytics Platform, download, and upload workflows or components. Add contributors to your spaces to collaborate on a project and keep all workflows always accessible in one place.

## Share links to items on KNIME Hub

Go to any workflow, component, space, extension, or node on KNIME Hub and click the *Copy link* button on the top right, as shown in Figure 22. You will copy to your clipboard a URL short link to the item that you can share with others.

E 🛆 Reporting minimal example - 1011			✓ - □ ×
← → C O A thttps://hub.knime.com/knime/spaces/Examples/05_Reporting/03_Reporting/Reporting/Reporting minimal example	–u6jUtws-ggWKcb5i/most-recent	E 50% 🖒	S 7 8 5 6 =
	and more_		Pricing About :
Accessed of the second	Constraints     Constrain		

Figure 22. Click the link icon to copy the short link to your clipboard.

The short link is assigned uniquely to every item that is on KNIME Hub, regardless of its location. This means that even if the item is moved by its owner into a different space, the item will be reachable at the same short link.

The same rule is valid for the URL, which will be redirected to the new location automatically.

## Like items on KNIME Hub

If you find an item on KNIME Hub that has been very useful for you or that you particularly like, you can leave a like by clicking the heart icon on the top right of the page. See how much the KNIME Community has been engaged in specific items by looking at the number of downloads and likes that a specific item has received, as shown in Figure 23.

Pricing About : ME Community Hub > knime > Spaces > Examples > 00 Come Analyze Workflow Summary ion: v1.0 - Created on Oct 20, 2023 3:28 PM 🕓 Versi onent extracts information from a workflow summary XML file that can be obtained from either the File > Export > Workflow Summary (JSON/XML)... menu in KNIME Analytics Platform, or from a KNIME Server's REST API. • Used extensions & nodes On the KNIME Analytics Platform, a workflow summary is extracted for the currently opened, executed and saved workflow in the workflow editor. This component extracts the node names, node configurations, predecessor and successor nodes, execution status, node type, if the node is deprecated, and if it's a metanode/component, names of the nodes and their occurrences, and the reader and writter nodes and their corresponding data locations, into a table representation based on the workflow summary file in XML, format, if the 'include execution information' option is checked when creating the workflow summary XML file, also the execution environment and installed plugins will be provided in the component's table outputs. Large workflows with lots of nested components and metanodes will inherently result in large workflow summary XML files. Analyzing such large summaries could take a long time and the resulting tables could be too big, in such cases, limiting the depth of analysis for nested components/metanodes with the component dialog is recommended. Component details Ports III Options Input ports Type: Table A table containing one XML column, typically an output from XML Reader node Type: Table Output ports

All the items you liked will be shown on your user profile under About.

Figure 23. Number of downloads and likes of an item on KNIME Hub

### Contributors

You can add any other user of KNIME Community as a **contributor** to any of your *public* spaces.

To add a user as a contributor to a *public* space, go to the space and click the pencil tool close to your profile icon.

	Hub	Q Search workflows, nodes and more			Pricing About : O
KNIME Community Hub → verena_	mayer > Spaces > Public				
	Public space Public			C4	0
				♥ 0 Ø Copy link	(i)
	Home		Q		
	$\mathfrak{sl}_{\mathfrak{G}}^{\mathfrak{G}}$ Topic Detection Based on Movie	Reviews	φ		
	Add description				

Figure 24. Add a contributor to a public space

In the *Manage space access* panel that opens, you can add contributors by inserting their KNIME Hub username. Then click *Add* and *Submit*.

KNIME Community Hub > verena_mayer > Spaces > Public Public space Public	Users added here have read and write access to this space. You can add and remove users below.
	Add
	C
Home	
•%       Topic Detection Based on Movie Reviews         •       •         •       •         •       •         •       •	Cancel

Figure 25. Manage contributors on a public space

In the same panel, you can also manage the contributors. Click on the  $\Box$  icon to remove a contributor from the space.

When you are added as a contributor to a space, you will be able to see the space under

*Spaces* in your profile page and also listed in your KNIME Hub mount point from KNIME Analytics Platform.

Contributors have edit rights for the space they are added to. They can add and edit workflows or components in the space. They do not have the same rights that the owner of the space has. Only the owner of a space can change the space name or change the space visibility to *private*.



Since contributors can only be added to *public* spaces, they will not have access to the space anymore if the space visibility is changed from *public* to *private*.

## Team plan

Team plan is a paid service offered on KNIME Community Hub.

This allows you to create a team on KNIME Hub to collaborate on a project with your colleagues. Additionally, you can add execution capabilities to your team. This will allow the team members to schedule and automate the execution of workflows on KNIME Community Hub.

A team is a group of users that work together on shared projects. Specific Hub resources can be owned by a team (e.g., spaces and the contained workflows, files, or components) so that the team members will have access to these resources.

You can purchase a team and choose the size of the team, meaning the number of users that will be able to access the team resources, and the disk space that you need to save your team workflows, data, and components.

The team can own public or private spaces. For more details, see the section Team owned spaces.

The items that are stored in a team's **public** space will be accessible to everyone and be presented as search results when searching on KNIME Community Hub. However, only team members will have upload rights to the public spaces of the team.

Also, since only the team members have read access to the items that are stored in a team's private space, KNIME Community Hub, users that are part of a team can collaborate privately on a project.

You can also add to your team the ability to run workflows and also to schedule the execution of the workflows at specific intervals, easily from the web user interface of KNIME Community Hub.

## Create a team

To create a team, you need to subscribe to a Team plan. To do so, sign in with your KNIME Hub account and navigate to *Pricing* in the top right corner of the page, or go to KNIME Hub pricing page. Here you can proceed with the subscription to the Team plan.

### 1

To subscribe to a Team plan, you need to have a KNIME user account.

You will be asked to provide the details of the account and your payment information. Then, you can choose your subscription plan. You can choose how much disk storage and how many users you would like to purchase. The basic plan consists of 30GB of disk storage and

a total of 3 users. Please note that the subscription will be automatically renewed every month if not canceled, and that users and disk storage can be adjusted later. Your usage will be prorated for the next billing cycle. To change or cancel your subscription, follow the instructions in the section Manage team subscription.

Once you have successfully purchased a team, you can assign it a name and start adding members to your team. The number of members that can be added to the team is limited to the number of users that you purchased.

There are two types of roles a user can be assigned when part of a team:

- Administrator. A team administrator can:
  - Add/remove users from the team
  - Promote team members to admins
  - Change the name of the team
  - Manage the team subscription
  - Delete the team
- Member. A team member can:
  - View the team page, with members list and spaces
  - Create, modify, and delete public and private spaces
  - Upload/download items to/from public and private spaces
  - Delete items from public and private spaces

The team creator is automatically assigned the administrator role and can promote any of the team members to administrators. In order to do so, please follow the instructions in the section Manage team members.

### Team owned spaces

A team can own an unlimited number of both public and private spaces.

- Team owned **public** spaces: The items that are stored in a team's public space will be accessible by everyone and be presented as search results when searching on KNIME Community Hub. Only team members will have upload rights to the public spaces of the team.
- Team owned **private** spaces: Only the team members have read access to the items that are stored in a team's private space. This will then allow KNIME Community Hub users that are part of a team to collaborate privately on a project.

You can create a new space by going to the team's profile. To do so, click your profile icon in the top right corner of KNIME Hub and select your team. In the tile *Create new space*, click *Private space* to create a private space for your team, or *Public space* to create a public space. You can then change the name of the space, or add a description. You can change or add these also later by going to the relative space page and clicking the space name or *Add description* button to add a description for the space.

Furthermore, you can change the visibility of the space from private to public and vice versa, or delete the space. To do so, from the space page, click the  $\pm$  icon, as shown in the image below.

	Hub	Q Search workflows, nodes and more	Pricing About : O
橃 Priva	ile Team > Spaces > Private space te space rate space		©@@
			🗇 0 🖉 Copy link
		There are no items in this space yet.	Delete       ×         This will remove the space with all its content.       Delete space Visibility         This space is private. Make it visible to everyone.       Make public
( 💿 Add	description		

Figure 26. Change visibility or delete an existing team owned space

### Manage space access

You can also manage the access to a specific space. To do so, navigate to the space and click the  $\ensuremath{\mathscr{P}}$  icon.

	Q Search workflows, nodes and more	Pricing About : Q
KNIMECommunity Hub > Example Team > Spaces > Private space Private space Private space		<b>0</b> 20 <b>0</b>
		Image: Comparison of the second se
	There are no items in this space yet.	
(     Add description		

Figure 27. Open the Manage space access side panel

In the *Manage space access* side panel that opens, you can add other team members. You can change the rights they have on the items in the space - e.g. you can grant them *Edit* rights or *View* rights for this space.

Click the  $\gtrsim$  icon to inspect the individual team members and their rights separately.

Opport for Horowardson         Hub           KNEME Community Hub         > Example Team         > Spaces         > Private space	Q Search workflows, nodes and more	Manage space access Users with edit rights can upload items to a space and modify it, viewers can only see and download the content. You can change the settings below.      Or Enter name of team member or group		
Private space		People with access Admins (1 person)  Edit		
		Members (2 people)      Edit      Members (2 people)      Edit      Comp		
	There are no items in this space yet.			
(     Add description		Cancel		
		Cancel		

Figure 28. Manage the access to a space

## Manage team members

You can manage your team by going to the team's profile. To do so, click your profile icon in the top right corner of KNIME Hub.

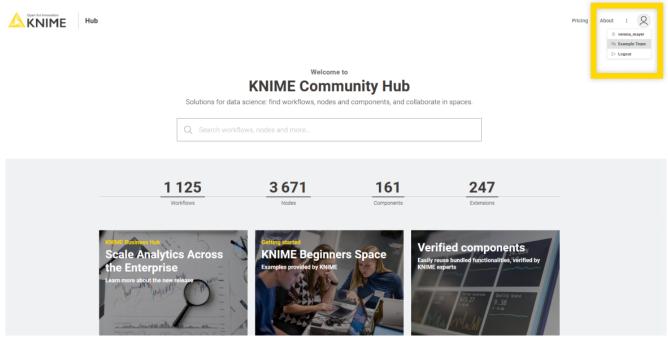


Figure 29. Select a team to go to the team's profile page

In the dropdown menu that opens, you will see your teams. Select the team you want to manage to go to the corresponding team's profile page.

	Q. Search workflows, nodes and more	Q Search workflows, nodes and more			
KXIME Contractly Hob > Example Team	Spaces of Example T	Spaces of Example Team			
Example Team	1	♡ 0 🚯	♡ 8		
Spaces 🛞 Deployments 🦪	Private space Last edited Feb 8.2004 1122 avr	Public space Last edited Feb 8, 2004 11:34 484			
Execution resources 🛛 🧐 Subscription 🔍	≪\$ 0 €¢ 0 \$§ 0	39 <b>0</b> 40 20 20	69 0		
	Create new space				
	🙃 Private space	© Public space			

Figure 30. The team's profile page

Here, you can click the *Manage team* button to open the *Manage members* side panel, as shown in the image below.

	Q Search workflows, nodes and more			Manage memb	ers for Example Team $ imes$
KNIME Community Hub $ ightarrow$ Example Team					ch should be added to your team. will be added to your team's spaces
	Spaces of Example Team		Q Enter user name		
ET				🔬 daria-tombolelli	Members 🗸 🗍
Example Team				Q verena_mayer	Admins & Members 👋 📋
Rample ream	¢à.	♡ 0	$\otimes$		
Spaces 🐵	Private space Last edited Feb 8, 2024 11:22 AM		Public space		
Deployments (s)					
Execution resources	କ୍ତେ ି୍∉ତ 🕼 ୦	89 🗉	≪େ େିେ ଜେ ତ		
Subscription					
	Create new sp	ace			
	🙃 Private space	Public space			
				Cancel	Save changes

Figure 31. Manage team members

You will see here a list of the team members and their assigned roles.

From here, a team admin can change the roles of the team members. To do so, click the drop down arrow close to the name and select the roles you want to assign to each user.

KNIME F	lub	Q Search workflows, nodes and more			Search and add users whic	ers for Example Team
KNIME Community Hub > Example Team		Spaces of Example Team		Users added to your team will be added to your team's spaces by default.           Q. Enter user name           G. Enter user name           G. enter user name           G. enter user name           G. enter user name		
Example Team	<sup>A</sup> R Team Spaces ⊕ Deployments (s <sup>†</sup>	Private space           Lass edited Field 2002 11122 AM           ∞         0 <a>&gt;</a> 0	© • ⊛⊛   <b>⊡</b>	Public space Last edited Feb 8, 2024 11 24 J ページログロットの目前の目前の目前の目前の目前の目前の目前の目前の目前の目前の目前の目前の目前の	Members	Members
Subscription Q.	Create new	<b>space</b> ⊕ Public space		Cancel	Save changes	

Figure 32. Manage team members roles

Then click the Save changes button to apply your changes.

#### Add members to a team

To add a new member, enter the username of the users that you want to add to the team in the search bar in the *Manage members* panel, then click the *Save changes* button to apply your changes.

When the maximum number of users allowed by purchase is reached, you will be notified with a message in the *Manage members* panel. Click the *Manage subscription* button to purchase more users. Alternatively, you can remove previously added users in order to add new ones.

#### Delete members from a team

To delete a member, go to the *Manage members* panel and click the  $\square$  icon for the user you want to delete. Then click the *Save changes* button to apply your changes.

## Change team name

On the team's profile page, you can also change the name of the team. To do so, double-click the name of the team under the team logo on the left side of the page.

	Q Search workflows, nodes and more			Pricing About : O
KNIME Community Hub > Example Team	Spaces of Exampl	e Team		S C Manage team
Example Team	¢a	♡ 0	\$	♡ 0
Spaces 🛞	Private space Last edited Feb 8, 2024 11:22 AM		Public space	
Deployments (s) Execution resources Subscription	≪ <sup>6</sup> 0 \2¢0 (∰ 0	<b>8</b> 9 <b>5</b>	ସ <sup>©</sup> େ ପ୍ୟିତେ (ଥିତ	®@  <b>\$</b>
Subscription <u>O</u>	Create new	space		
	Private space	Public space		

Figure 33. Change name of the team

Insert the new name, and click the 💛 button to confirm.

# Change team profile icon

On the team's profile page, hover over the team profile icon and click on *Upload new* to select an image from your local computer.

# Manage team subscription

You can manage your subscription on the *Subscription* page. On the team's profile page, select *Subscription* on the side menu to access it.

	Q. Search workflows, nodes and more	11		Pricing About	:
KNIME Community Hub > Documentation Team > Subscription					
DT	Subscription			Manage team	
Documentation Team %ଯeam	■ Current billing period				
	Jun 28, 2024 - Jul 28, 2024			③ Need help? Contact us	
Spaces (B) Deployments (c)*	Team Monthly subscription	Disk storage Execution credits	Next invoice total		
	C 1 of 3	0 GB of 30 GB No credits consumed ;			
Execution resources					
Subscription 🔍	Manage subscription				
	Past Invoices				
	Amount	Status	Created		
	€99.00	Paid	Jun 28, 2024	O Download invoice	
	$^{\scriptscriptstyle (2)}$ My details				
	Billing information     Address Koertestrasse 10     Otty 10967 Berlin, DE     Email daria tombolelli@kn/ime.com	n	당 Payment details Card Visa 4242		

Figure 34. Manage team subscription

Here you can:

\*Show the cost breakdown: Click *Show cost breakdown* to see the amount to be paid for your Team plan and the consumed credits for execution.

- Manage subscription: Click *Manage subscription* and change the number of *Users* or the amount of *Disk storage* available for your team.
- End subscription: In the Manage subscription side panel, click End your subscription now. This action will take effect after the end of your current billing cycle. Your data will be kept for 30 days and you will be able to re-activate your account in that time period. After 30 days we will delete all your data so it is not recoverable anymore. Once you connfirm with Cancel subscription, your team and its spaces will be deleted.

1

- To re-activate your Team plan please get in contact with us.
- Past invoices: Here you can see an overview of all the invoices and download them by clicking *Download invoice*.
- Inspect your billing information and edit your payment details.

# **Execution on KNIME Community Hub**

Execution allows you to run and schedule your team's workflows directly on KNIME Hub.

To do this the first step is to configure the resources you need.

As the team admin, go to your team's page and select *Execution resources* from the menu on the left. Here you can create an execution context, which contains all the necessary resources to run your workflows.

This is how your page will look like the first time you create an execution context.

	Hub	Q Search workflows, nodes and more			Pricing About :
KNIME Community Hub >	Documentation Team > Execution resources				
159	The formation of the second se	Execution resource	s	46	Manage team
	ocumentation Team Team				
Spa	aces 🛞		. 1 .		
	ployments (s)		<b>_</b> - O	-	
	ecution resources				
Su	oscription Q	Create <u>Learn</u>	an execution context to enable your te more about how execution works on k + Create execution con	KNIME Community Hub. L <sup>a</sup>	
KNIME		Software	KNIME Hub	Partner	KNIME Home

Figure 35. Start by creating an execution context

When you click the button to create a new execution context a panel on the right will open.

KNIME Community Hub > Documentation Team > Execution re	isources	Select execution context capacity
Notice Decementation	Execution resources	You are only charged if an execution context is up and running. You can start and stop execution contexts sufcomatically (default) or manually. Multiple workflows can us the same time on the execution context. The first 1000 credits per month are free in your subscription.
Documentation Team २६ Team		Small Suitable for lightweight data processing with low complexity workflows. Slightly slower than you average home computer but good enough for repetitive, lightweight automation. 2.dever: 08 AaU
Spaces (3) Deployments (3) Execution resources 12		Medium Suitable for most data processing 4 credits / minute use cases with medium complex workflows. Similar to the performance of KNIME Analytics Platform on an average home PC. 41.0000 A 10000 A 100000 A 10000 A 100000 A 10000 A 100000 A 10000 A 10000 A 10000 A 10000 A 100000 A 100000 A 10000 A
Subscription D,	Create an execution context to enable your team Learn more about how execution works on KNIN	
	+ Create execution context	Price per credit is € 0.05, billed per started minute.
	+ Create execution context	KNIME Analytics Platform version
		5.1.2-202311070934
		Advanced settings
		Configure start and stopping behavior Set >

Figure 36. Create an execution context for your team

Here you can configure the capacity of your execution context. Select the size of the execution context to decide how performant your workflows execution will be. You and your team members can execute as many workflows as you wish, even in parallel.

We offer three different execution context capacities:

- Small: Small has 2vCores and 8GB of RAM. This option is suitable for lightweight data processing with low complexity workflows. The execution power would be slightly slower than executing the workflow on your local KNIME Analytics Platform installation, so we recommend this option if you want to perform lightweight automation, e.g. schedule the execution of your workflows.
- **Medium**: Medium has 4vCores and 16GB of RAM. This option is suitable for most data processing use cases with medium complex workflows. The performance is similar to a local KNIME Analytics Platform installation.
- Large: Large had 8vCores and 32GB of RAM. If you have more demanding use cases, with heavier data, complex workflows and you need more parallel processing power with faster computation times you can select this option.
  - To have more information on the pricing go the Pricing section.

You will be charged only when the execution context is running. The execution context will start and stop automatically on demand. This means that it will start automatically when the execution of a workflow starts. The execution context will then stop automatically once all

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the workflows executions are finished.

Each execution context is based on a specific version of the KNIME Analytics Platform provided by us. Find an updated list of the extensions available on the executor here.

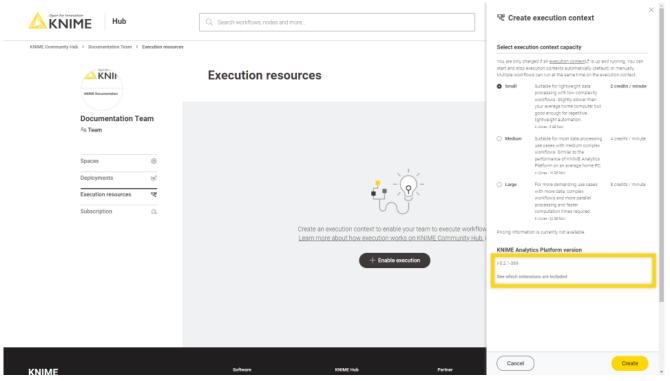


Figure 37. The executor version provided by us

#### Manage execution contexts

You can manage the execution context of your team by navigating to your team overview page and selecting *Execution resources* from the menu on the left.

Here, among other things, you can edit the execution context settings, disable or delete your execution context, or show the details of the CPU usage, the jobs that are running on the execution context and so on.

To do so select the appropriate option in the menu that opens when clicking : in the tile of the execution context.

#### Monitor execution contexts consumption

To monitor your execution consumption and projected costs, you can go to your subscription page.

Go to your team page and select Subscription from the menu on the left.

		Q Search workflows, nodes and more	Pricing About :
KNIME Community Hub > Documentation Team	> Subscription		
		Subscription	🕢 🥒 Manage team
Documentation <sup>8</sup> % Team	Team	E Current billing period	
Spaces	•	Team Monthly subscription	
Deployments	Ś	Team members         Disk storage limit         Execution credits         Next invoice total           1 of 4         40 GS         8 consumed         €150.30	
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Subscription	0	Team jalar (3 usars and 20 58 of data storage)         693 500           10 68 5005 mol data storage         4230           1 additional usar         64200           6 consumed onests         633.00           Total         6150.30           Manage subscription         © End your subscription now	
		A My details	
		Childing information            Address         Koertestrasse 10            City         10967 Flerin 0E            Email         daria tombolell@hime.com	details 1 0008 8000 4242

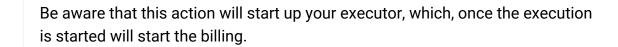
Figure 38. Subscription overview

#### Execute a workflow

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Once the execution context is set up you can run and schedule the workflows that are uploaded to your team's spaces on KNIME Community Hub. Navigate to a workflow in one of your team's spaces, you will see a *Run* button and a *Deploy* button.

Click *Run* to simply execute the current workflow directly in the browser. The latest version of your workflow will be executed, or you can select which version of the workflow you want to run. In the side panel that opens you can also enable the workflow actions, for example allowing the system to send you an email when the chose condition is met.



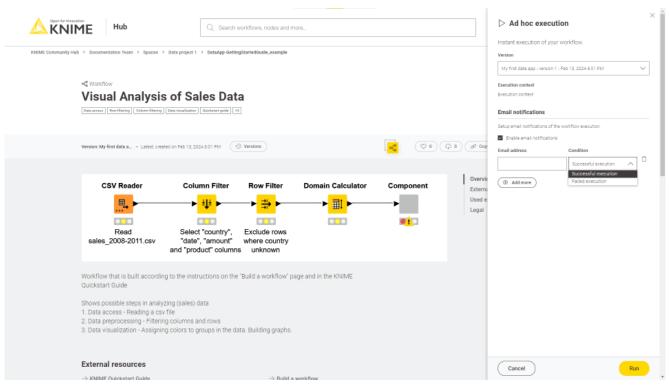


Figure 39. The ad hoc execution side panel

A new tab will open where the result of the workflow execution will be shown. If your workflow is a data app you will be able to interact with its user interface. To know more about how to build a data app refer to the KNIME Data Apps Beginners Guide.

To see all the ad hoc jobs created for a workflow navigate to the workflow page and select *Ad hoc jobs* from the right side menu.

#### Schedule a workflow execution

A schedule allows you to set up a workflow to run automatically at selected times.

To create a schedule deployment of your workflow navigate to a workflow in one of your team's spaces. In order to be able to create a schedule deployment you need to have created at least one version of your workflow. To know more about versioning read the Versioning section of this guide. Once you have your stable version of the workflow, create a version (click Versions  $\rightarrow$  Create version). Now you can click the button Deploy and select Create schedule.

This will open a side panel where you can set up the schedule deployment.

Open for Innovation	Hub	Q Search workflows, nodes and more			${\rm s}^{\rm re}_{\rm \odot}$ Create schedule
KNIME Community Hub > knime	a Team > Spaces > Data project > 00,	DataApp_Visual_Analysis_of_Sales_Data			Schedule your workflow to run automatically at selected times.
		_Analysis_of_Sales_Data			Deployment name 00_DataApp_Visual_Analysis_of_Sales_Data Version VI.0 - Oct 27, 2023 1:47 PM Execution context
🤌 Dra	ft – Latest edits on Nov 2, 2023 2:47 PM	( History		@ Cop	Execution context Schedule options Define when the workflow should be executed
	Data App: Visual Analysis of Sales I This workflow is built according to the instru- Data Access -Provide File Path	ata ctions on the "XXIME Data Apps Beginners Guide". Data Preprocessing - Filter column and rows	Data Visualization - Oynamic Data App	Overvia Externa Used e Legal Ad hoc	Initial execution           2023-11-02         III           15         01           Repeat execution
	CSV Reader	Column Filter Row Filter Domain Calculator	Component		Set schedule details Set >           Workflow actions           Control basic actions of the workflow execution.           Enable workflow actions
	pp: Visual Analysis of Sales Data prkflow that is built according to t	he instructions on the "KNIME Data Apps Beginners Guic	te'		Advanced settings Change job lifecycle behavior, timeouts,
	rs how to build a Data Application ting them.	that allows to interactively analyze sales data by filtering	g and		Cancel

Figure 40. The create schedule side panel

Here you can select a name for your schedule deployment and which version of the workflow you want to schedule for execution.

eiª ₩c 00		C Search workflows, nodes and more		ef <sup>®</sup> Create schedule Schedule your workflow to run automatically at selected times.      Schedule options Define when the workflow should be executed. Initial execution      2022-11-02 II 15
Data	Data App: Visual Analysis of Sales Data This workflow is bult according to the instruction This workflow is bult according to the instruction of the path CSV Reader Bead sales_2009/2011.csv		Data Visualization - Optione Component Component	co Cop   co Cop   Dervis   co Cop   co Cop
It sho	-	at allows to interactively analyze sales data by filtering a		Change job lifecycle behavior, timeouts, Set >>   Cancel Create

Figure 41. The create schedule side panel: schedule options section.

To see all the deployments created for a workflow navigate to the workflow

- page and select Deployments from the right side menu. To see all the
- i deployments created by your team navigate to the team page and select Deployments from the left side menu.

In the section Schedule options you can define when the workflow should be executed:

- Set up an initial execution, date and time
- · Select Repeat execution to select if you want the workflow to run every specific amount of time (e.g. every 2 hours), or select start times when your workflow will be executed every day at the same time.
- · Set up also a schedule ends date, either to never end or to end in a specific date and time.

Set additional schedule details

You can also set more advanced schedule details.

First, check the option Repeat execution, under Set schedule details, then you can click Set to set up recurring executions, retries, and advanced schedule details.

Click Set and the following panel will open:

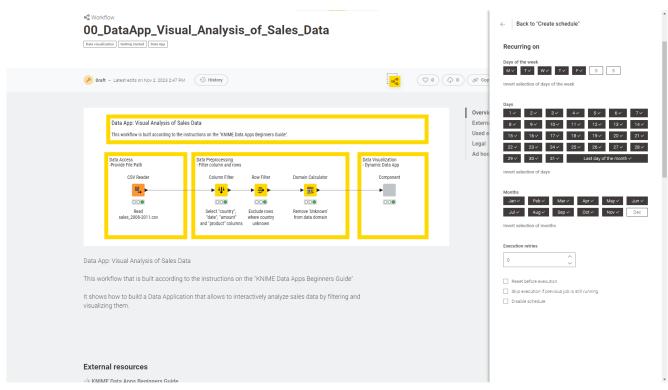


Figure 42. The create schedule side panel: set schedule details section.

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If you did not check the option *Repeat execution*, you will only find the set up options for retries and the advanced schedule details.

The workflow will run when all the selected conditions are met. In the above example the workflow will run from Monday to Friday, every day of the month, except for the month of December.

Finally, in the section execution retries and advanced schedule details you can set up the number of execution retries, and check the following options for the advanced schedule details:

- *Reset before execution*: the workflow will be reset before each scheduled execution retries occur.
- *Skip execution if previous job is still running*: the scheduled execution will not take place if the previous scheduled execution is still running.
- *Disable schedule*: Check this option to disable the schedule. The scheduled execution will start run accordingly to the set ups when it is re-enabled again.

#### Set advanced settings

Finally, you can select advanced settings for each schedule deployment. Click Set under *Advanced settings* section to do so.

In the panel that appears you can configure additional set ups:

- Job lifecycle: such as deciding in which case to discard a job, the maximum time a job will stay in memory, the job life time, or the options for timeout. Particularly important in this section is the parameter *Max job execution time*: the default setting can be changed according to your needs to keep control over the execution time.
- Additional settings: such as report timeouts, CPU and RAM requirements, check the option to update the linked components when executing the scheduled job and so on

The values in the fields related to time need the format:

- PT, which stands for Period of Time
- the amount of time, made of a number and a letter D, H, M and S for days, hours, minutes and seconds.

For example, PT1H means a period of time of 1 hour, PT168H means a period of time of 168 hours (which is equivalent of 7 days).

# Jobs

Every time a workflow is executed a job is created on KNIME Hub.

To see the list of all the jobs that are saved in memory for the ad hoc execution of a specific workflow go to the workflow page and on the right side menu click *Ad hoc jobs*.

To see the list of all the jobs that are saved in memory for each of the deployments created for a specific workflow, go to the workflow page and on the right side menu click *Deployments*. You can expand each deployment with the > icon on the left of the deployment.

Also you can go to your team page and find a list of all deployments created within your team. Also here you can click the > icon corresponding to a specific deployment to see all its jobs.

On each job you can click the : icon on the right of the corresponding job line in the list and perform the following operations:

- Open: For example you can open the job from a data app and look at the results in a new tab
- · Save as workflow: You can save the job as a workflow in a space
- Inspect: A job viewer opens in a new tab. Here, you can investigate the status of jobs.
- Delete: You can delete the job
- Download logs: You can download the log files of a job this feature allows for debugging in case the execution of a workflow did not work as expected.

### Inspect an executed workflow

You can inspect the status of an executed workflow, for example if the workflow execution did not succeed, or the execution is taking a long time. Click the  $\pm$  icon for the desired job and select *Inspect*.

Adhoc jobs         rew:: 13 d13         Created at 4       Omer       State       Version       Node messages       Version         Mur 19, 2024 10.04 AM       daria-tombolell       - Execution finished       My first data app - version 1       -       Open         Mur 19, 2024 10.33 AM       daria-tombolell       - Execution finished       My first data app - version 1       -       Open         Mur 19, 2024 10.33 AM       daria-tombolell       - Execution finished       My first data app - version 1       -       Open         Rows: 1-3 d1       - Execution finished       My first data app - version 1       -       Open         Rows: 1-3 d1       - Execution finished       My first data app - version 1       -       Deleie         By using or downloading the workflow, you agree to our terms and conditions       -       Execution finished       State app - version 1       -	KNIME JavaScript Vie KNIME Quick Forms (	Vers	E AG, Zunch, Switzenand on 4.7.0 E AG, Zunch, Switzenand on 4.7.0			knime knime		Overview External resources Used extensions & nodes Legal Ad hoc jobs
Mar 10, 2024 10.40 AM     daria-tombolell     • Execution finished     My first data app - version 1     •       Mar 10, 2024 10.39 AM     daria-tombolell     • Execution finished     My first data app - version 1     •       Mar 10, 2024 10.33 AM     daria-tombolell     • Execution finished     My first data app - version 1     •       Rows: 1-3 of 3     • Execution finished     My first data app - version 1     •     •			_	_		All time 🗸	Q	
Mar 19, 2024 10.39 AM     daria-tombolelli     Execution finished     My first data app -version 1     Open Save as workflow       Mar 19, 2024 10.33 AM     daria-tombolelli     Execution finished     My first data app -version 1     Inspect       Rows: 1-3 of 3     Execution finished     My first data app -version 1     Delete       Download logs	Created at $\downarrow$	Owner	State	Version	Node message	s	$\nabla$	
Mar 19, 2024 10.39 AM daria-tombolelli • Execution finished My first data app - version 1 · Save as workflow Mar 19, 2024 10.33 AM daria-tombolelli • Execution finished My first data app - version 1 · Inspect Rows: 1-3 of 3 Legal	Mar 19, 2024 10:40 AM	daria-tombolelli	Execution finished	My first data app - version 1				
Rows: 1-3 of 3 Delete Download logs Legal	Mar 19, 2024 10:39 AM	daria-tombolelli	Execution finished	My first data app - version 1			kflow	
Rows: 1-3 of 3 Download logs	Mar 19, 2024 10:33 AM	daria-tombolelli	Execution finished	My first data app - version 1			- 1	
	Rows: 1-3 of 3						gs	
By using or downloading the workflow, you agree to our <u>terms and conditions</u>	Legal							
	By using or downloading the	workflow, you agree to ou	r terms and conditions.					

Figure 43. Select Inspect from the menu to check the status of the execution

Here you can hover over info and error icons at the node's traffic light, to visualize the message, check where the execution stopped or the status of specific nodes. You can also inspect the data at any node's output port.

																	1	> 100
2	CSV Reader																	
	Reads CSV files. To auto-guess the structure of the file click the Autodetect format button. If you																	
	encounter problems with incorrect guessed data																	
	ypes disable the Limit data rows scanned option in																	
	he Advanced Settings tab. If the input file structure																	
	changes between different invocations, enable the Support changing file schemas option in the																	
	Advanced Settings tab. For further details see the									_								
ł	KNIME File Handling Guide File Handling Guide								CSV Reader	Filte	r for job							
	Note: If you find that this node can't read your file, try								🔍 🔍 🛏									
	he File Reader node. It offers more options for																	
ŗ	reading complex files.								55.20		<u>e</u>							
	This node can access a variety of different file								Contain	s one node with exe	oution failure (Brea	kpoint #3)						
	externs, More information about file handling in																	
	WIME can be found in the official <u>File Handling Guide.</u>								Breaks	oint #3: Empty	table							
1	Parallel reading: Individual files can be read in parallel f																	
	<ul> <li>They are located on the machine that is</li> </ul>																	
	running this node.																	
		<																
	<ul> <li>They don't contain any quotes that contain row delimiters.</li> </ul>	<																
	They don't contain any quotes that contain row delimiters.     They are not gzip compressed.	<																
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	They don't contain any quotes that contain row delimitans.     They are not gaip compressed.     No lines or rows are limited or skipped.     The file index is not prepended to the RowID.	<																
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Figure 44. Inspect node messages and data at the output port of a node

You can also navigate inside components and metanodes and inspect the nodes.

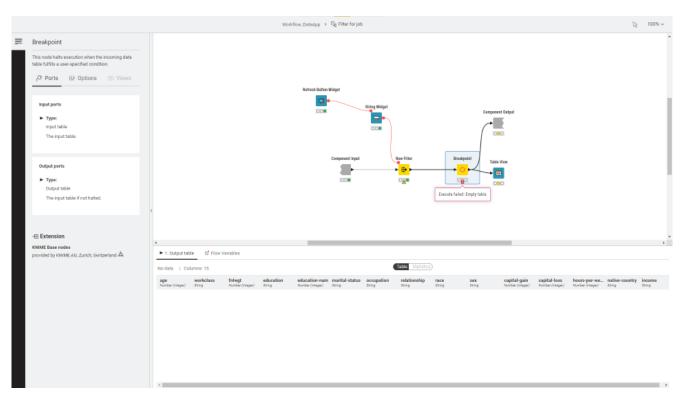


Figure 45. Navigate inside components and metanodes to inspect the incapsulated nodes

# Extensions available for execution on KNIME Community Hub

All the extensions developed by KNIME are available to run workflows on KNIME Community Hub.

This includes the following extensions:

- KNIME Executor connector
- · KNIME Remote Workflow Editor for Executor
- KNIME Remote Workflow Editor
- KNIME Hub Additional Connectivity (Labs)
- KNIME Hub Integration
- KNIME Active Learning
- KNIME AI Assistant (Labs)
- · KNIME Autoregressive integrated moving average (ARIMA)
- KNIME Basic File System Connectors
- KNIME Views

- KNIME Nodes for Wide Data (many columns)
- KNIME Big Data Connectors
- KNIME Databricks Integration
- KNIME Extension for Big Data File Formats
- KNIME Extension for Apache Spark
- KNIME Extension for Local Big Data Environments
- KNIME Chromium Embeded Framework (CEF) Browser
- KNIME Integrated Deployment
- KNIME Base Chemistry Types & Nodes
- KNIME Amazon Athena Connector
- KNIME Amazon DynamoDB Nodes
- KNIME Amazon Cloud Connectors
- KNIME Amazon Machine Learning Integration
- KNIME Amazon Redshift Connector And Tools
- KNIME Conda Integration
- KNIME Columnar Table Backend
- KNIME Streaming Execution (Beta)
- KNIME JDBC Driver For Oracle Database
- KNIME Microsoft JDBC Driver For SQL Server
- KNIME Vertica Driver
- KNIME Database
- KNIME Data Generation
- KNIME Connectors for Common Databases
- KNIME Distance Matrix
- KNIME Deep Learning Keras Integration
- KNIME Deep Learning ONNX Integration
- KNIME Deep Learning TensorFlow Integration
- KNIME Deep Learning TensorFlow 2 Integration
- KNIME Email Processing
- KNIME Ensemble Learning Wrappers

- KNIME Expressions
- KNIME Azure Cloud Connectors
- KNIME Box File Handling Extension
- KNIME Chemistry Add-Ons
- KNIME External Tool Support
- KNIME H2O Snowflake Integration
- KNIME H20 Machine Learning Integration
- KNIME H20 Machine Learning Integration MOJO Extension
- KNIME Extension for MOJO nodes on Spark
- KNIME H20 Sparkling Water Integration
- KNIME Itemset Mining
- KNIME Math Expression (JEP)
- KNIME Indexing and Searching
- KNIME MDF Integration
- KNIME Office 365 Connectors
- KNIME SharePoint List
- KNIME Open Street Map Integration
- KNIME SAS7BDAT Reader
- KNIME Excel Support
- KNIME Power BI Integration
- KNIME Tableau Integration
- KNIME Textprocessing
- KNIME Twitter Connectors
- KNIME External Tool Support (Labs)
- KNIME Google Connectors
- KNIME Google Cloud Storage Connection
- KNIME Javasnippet
- KNIME Plotly
- KNIME Quick Forms
- KNIME JavaScript Views

- KNIME JavaScript Views (Labs)
- KNIME JSON-Processing
- KNIME Extension for Apache Kafka (Preview)
- KNIME Machine Learning Interpretability Extension
- KNIME MongoDB Integration
- KNIME Neighborgram & ParUni
- KNIME Network Mining distance matrix support
- KNIME Network Mining
- KNIME Optimization extension
- KNIME Python Integration
- KNIME Interactive R Statistics Integration
- KNIME Report Designer (BIRT)
- KNIME Reporting
- KNIME REST Client Extension
- KNIME Salesforce Integration
- KNIME SAP Integration based on Theobald Xtract Universal
- KNIME Git Nodes
- KNIME Semantic Web
- KNIME Snowflake Integration
- KNIME Statistics Nodes
- KNIME Statistics Nodes (Labs)
- KNIME Timeseries nodes
- KNIME Modern UI
- KNIME Parallel Chunk Loop Nodes
- KNIME Weak Supervision
- KNIME Webanalytics
- KNIME XGBoost Integration
- KNIME XML-Processing
- SmartSheet extension
- KNIME AI Extension (Labs)

- KNIME Web Interaction (Labs)
- KNIME Nodes for Scikit-Learn (sklearn) Algorithms
- Geospatial Analytics Extension for KNIME
- RDKit Nodes Feature
- Vernalis KNIME Nodes
- Slack integration

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Continental Nodes for KNIME

To know more about the different extensions see the Extensions and Integrations Guide.





KNIME AG Talacker 50 8001 Zurich, Switzerland www.knime.com info@knime.com

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