

KNIME Community Hub User Guide

KNIME AG, Zurich, Switzerland
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Table of Contents

Introduction.....	1
Search items and use them in KNIME Analytics Platform	2
Search.....	2
Drag & drop	11
KNIME Hub as a repository.....	13
Create a user account.....	13
KNIME Hub spaces.....	13
Connect to KNIME Hub	17
KNIME Hub mount point.....	17
Upload items	19
Version items.....	20
Move items	24
Delete items.....	24
Community features on KNIME Hub	25
Share links to items on KNIME Hub	25
Like items on KNIME Hub.....	26
Contributors.....	26
Team plan.....	29
Create a team	29
Team owned spaces.....	30
Manage space access	31
Manage team members.....	33
Change team name.....	35
Change team profile icon.....	36
Manage team subscription	36
Execution on KNIME Community Hub	37
Jobs.....	45
Inspect an executed workflow.....	45
Extensions available for execution on KNIME Community Hub.....	47

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**.

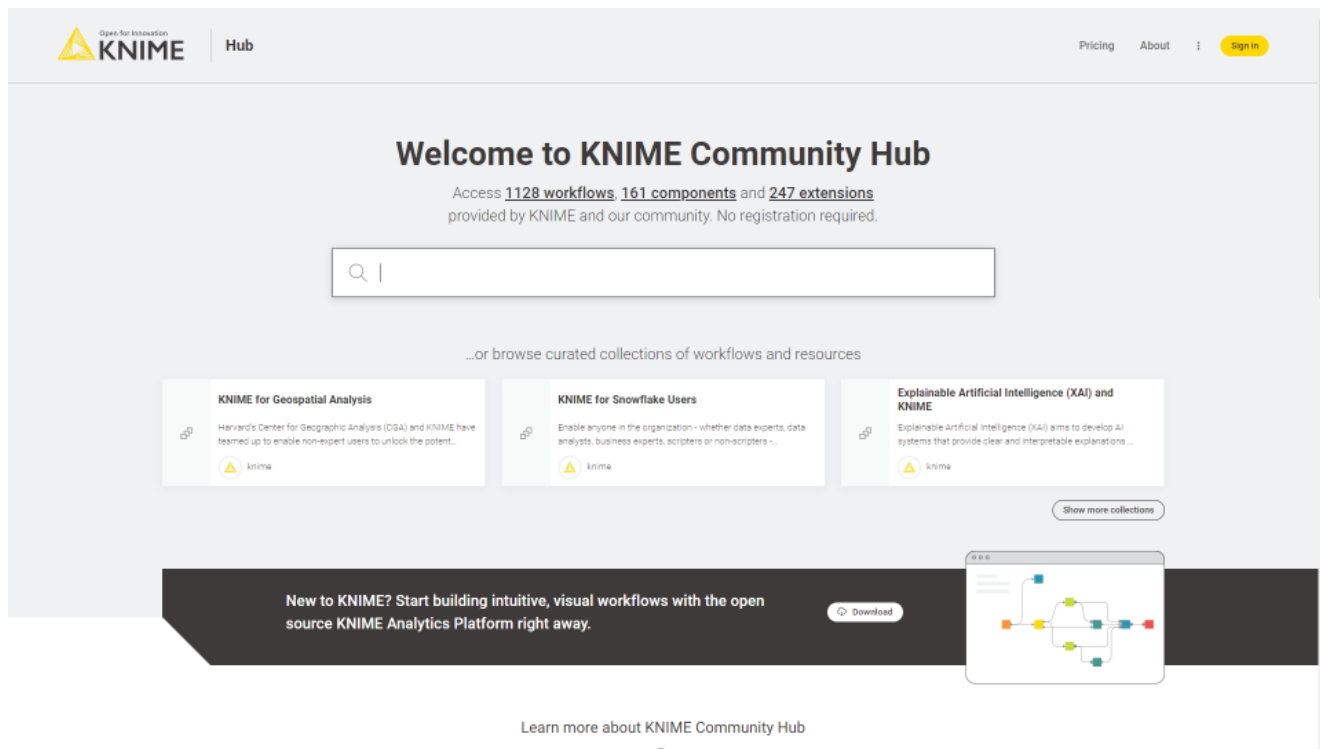


Figure 1. The KNIME Hub homepage

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)



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](#).

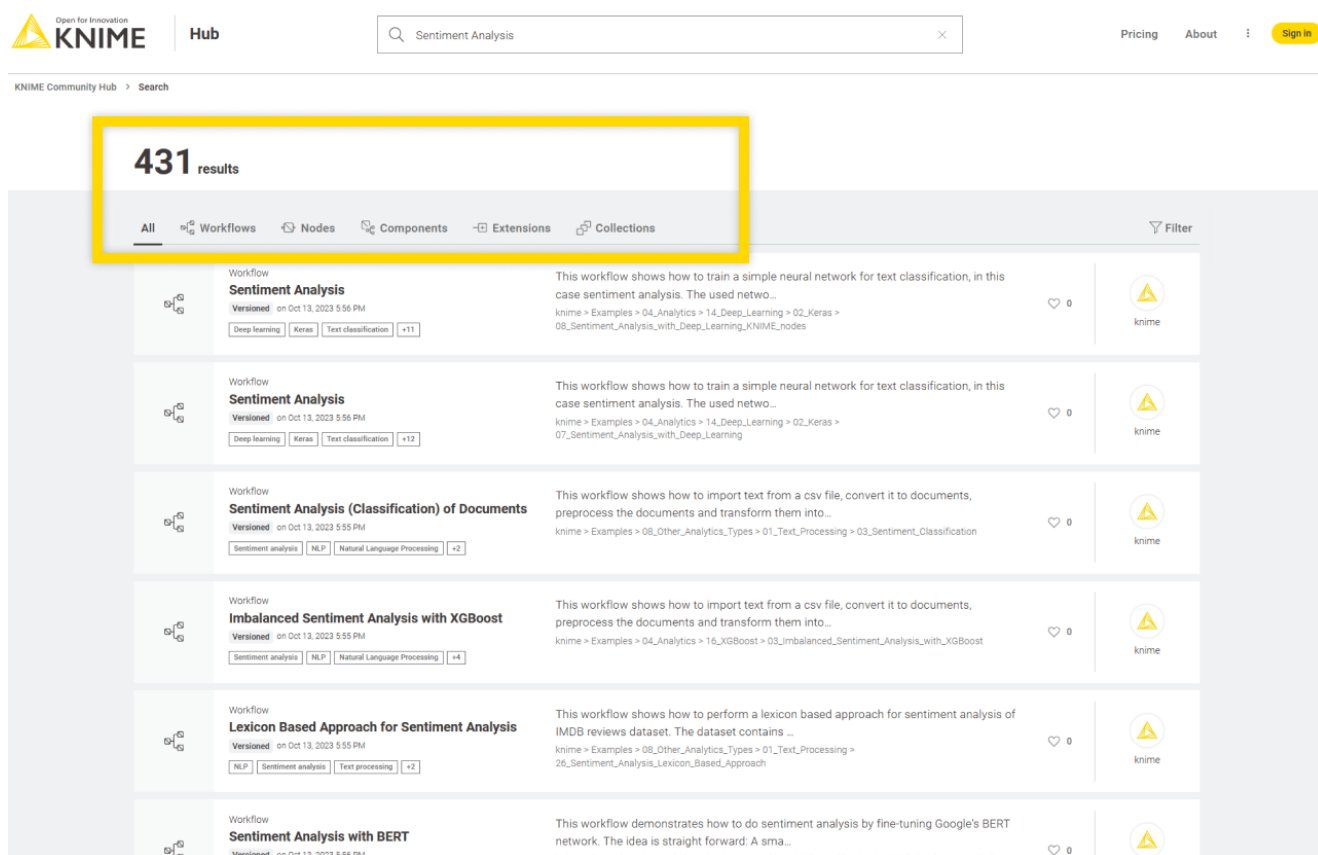


Figure 2. The KNIME Hub search results

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.

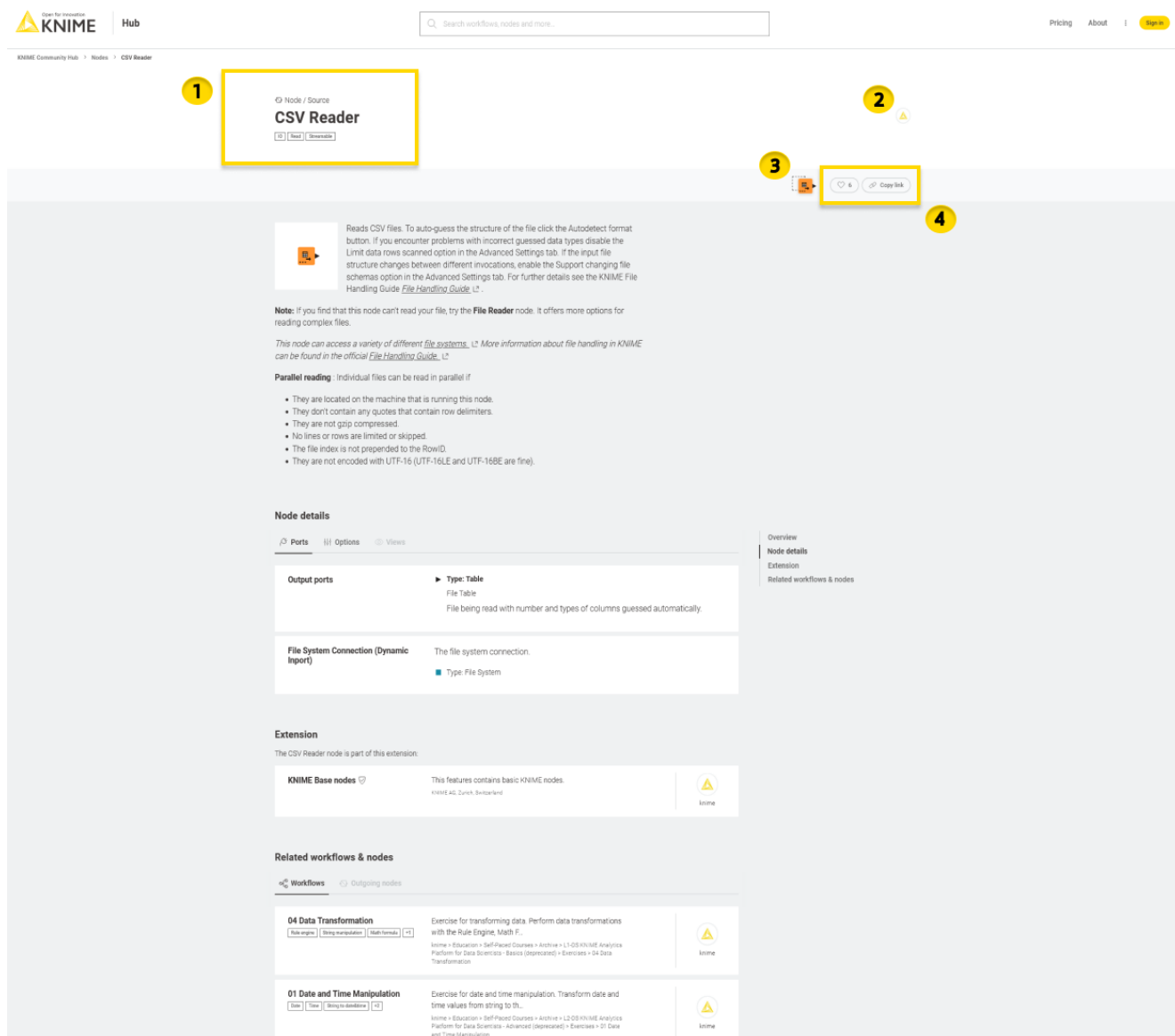


Figure 3. A node page on KNIME Hub

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.

- 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

The screenshot displays the KNIME Hub interface for the 'Twitter URLs Extractor' component. The header features the KNIME logo, a search bar, and navigation links for Pricing, About, and Sign in. The breadcrumb trail indicates the path: KNIME Community Hub > knime > Spaces > Examples > Data Components > Automation > Twitter URLs Extractor. The component card at the top shows the title 'Twitter URLs Extractor', version 'v1.8', and creation date 'Created on Oct 23, 2023 3:29 PM'. Below the card, the component's description is provided, along with a link to the Twitter API documentation. The 'Component details' section includes tabs for Ports, Options, and Views. The 'Output ports' section shows a table output. The 'Used extensions & nodes' section lists various KNIME extensions and nodes used by the component, including KNIME Base nodes, Expressions, Javaspiget, Quick Forms, and Twitter Connectors. The page is annotated with four yellow circles: 1 points to the component title, 2 points to the 'Likes' icon, 3 points to the download count '2588', and 4 points to the 'Copy link' button.

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

Workflow
Visual Analysis of Sales Data

Version: v1.0 - Latest, created on Oct 20, 2023 4:06 PM

This workflow is built according to the instructions on the "Build a workflow" page and in the KNIME Quickstart Guide. For more information see the workflow metadata. Find it here: [View -> Description](#)

Data Access
- Provide file path
CSV Reader
Read sales_2008-2011.csv

Data Preprocessing
- Filter columns and rows
Column Filter
Select "country", "date" and "amount" columns
Row Filter
Exclude rows where country unknown

Data Visualization
- Show sales by time and country
Color Manager
Assign colors based on country
Stacked Area Chart
Sales by time
Pie/Donut Chart
Sales by country

Workflow that is built according to the instructions on the "Build a workflow" page and in the KNIME Quickstart Guide

Shows possible steps in analyzing (sales) data

1. Data access - Reading a csv file
2. Data preprocessing - Filtering columns and rows
3. Data visualization - Assigning colors to groups in the data. Building graphs.

How-to:

Configure a node
- Right click a node and select "Configure..."
- Or, double click a node

Execute a node
- Right click a node and select "Execute"

Inspect data output
- Right click a node and select the last option called "File Table", "Filtered Table", etc.

Open an interactive view
- Right click a node and select "Interactive View..."

External resources
-> [KNIME Getting Started Guide](#)

Used extensions & nodes

Extensions Nodes

Created with KNIME Analytics Platform version 4.5.1

KNIME Base nodes KNIME AG, Zurich, Switzerland Version 4.5.1

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:

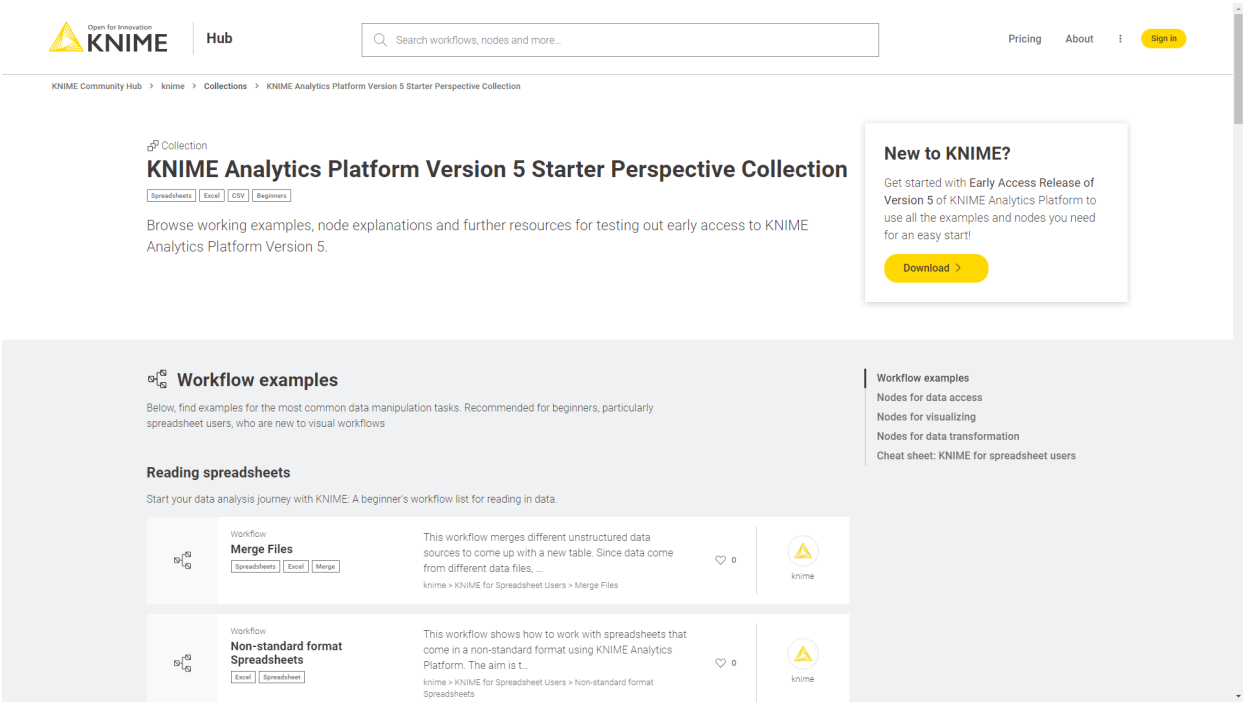


Figure 6. Example workflows in a collection on KNIME Hub

- Nodes:

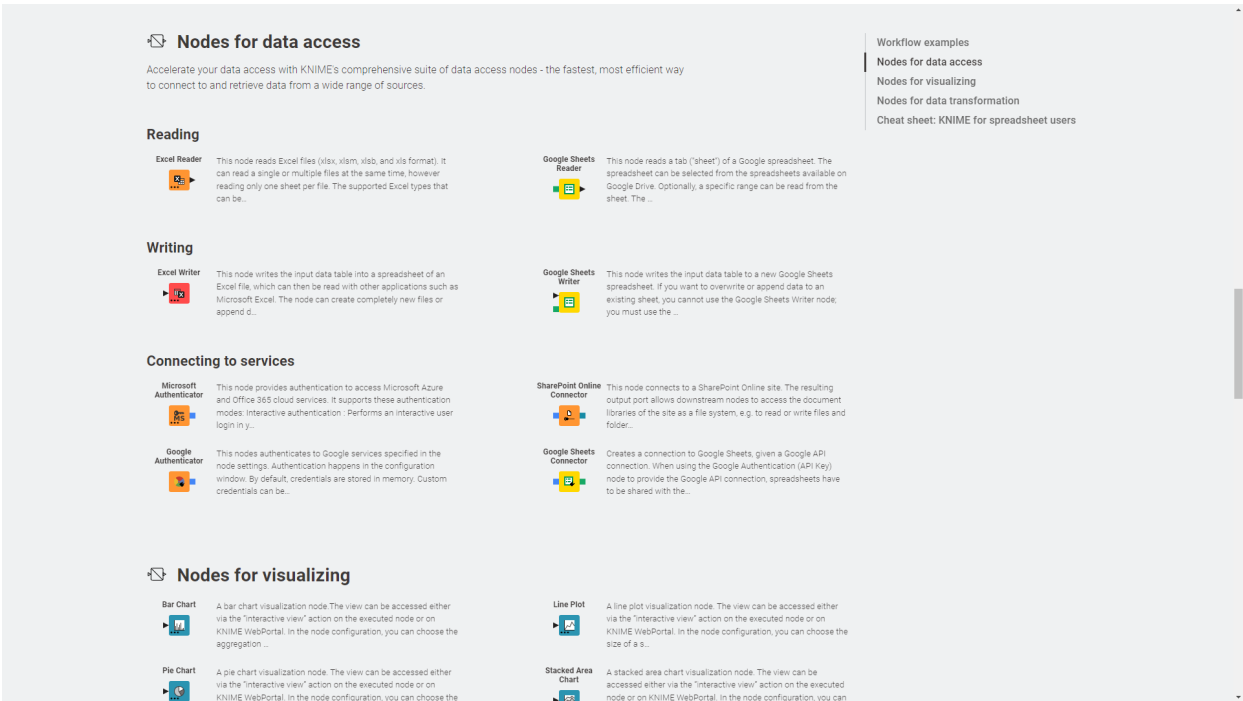


Figure 7. Nodes in a collection on KNIME Hub

- Links:

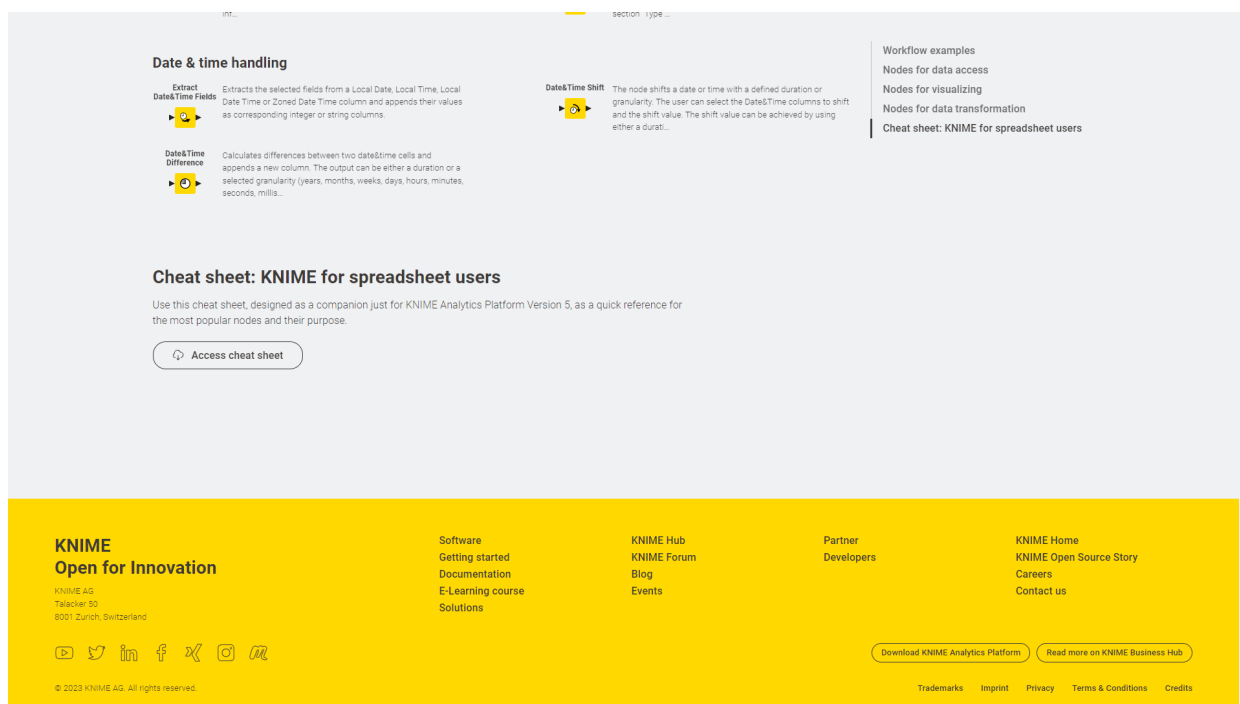


Figure 8. Additional links in a collection on KNIME Hub

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](#).

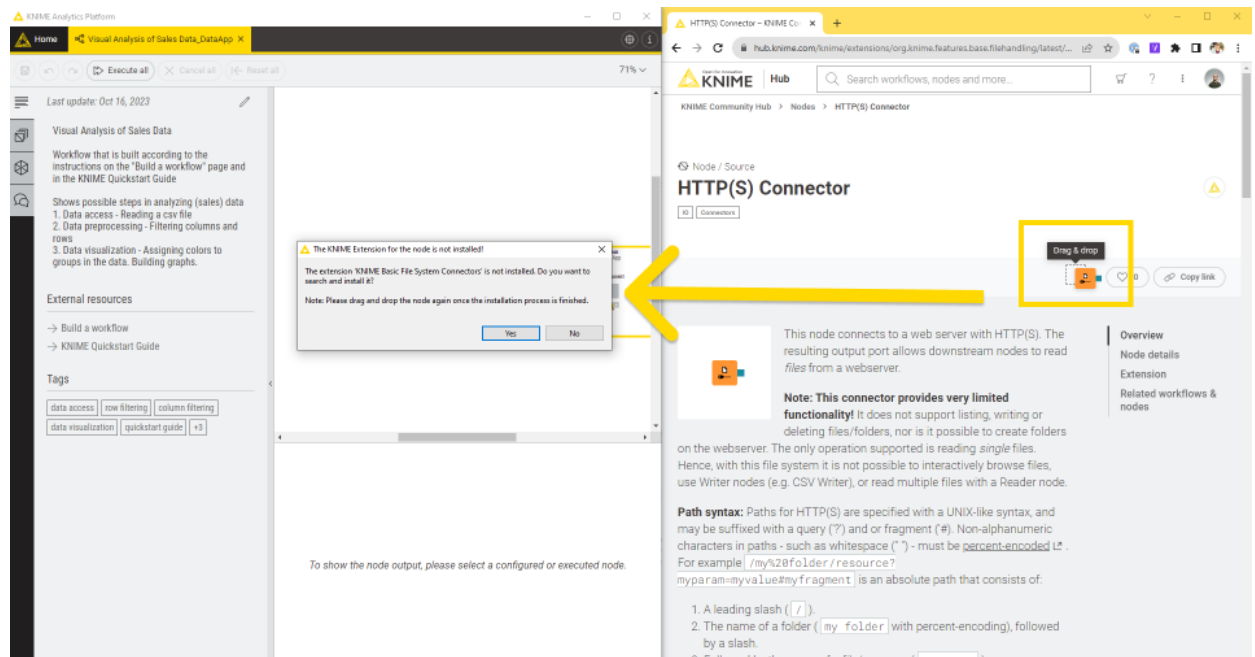


Figure 9. Drag & drop a node from KNIME Hub to KNIME Analytics Platform and install missing extension

- **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  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](#).

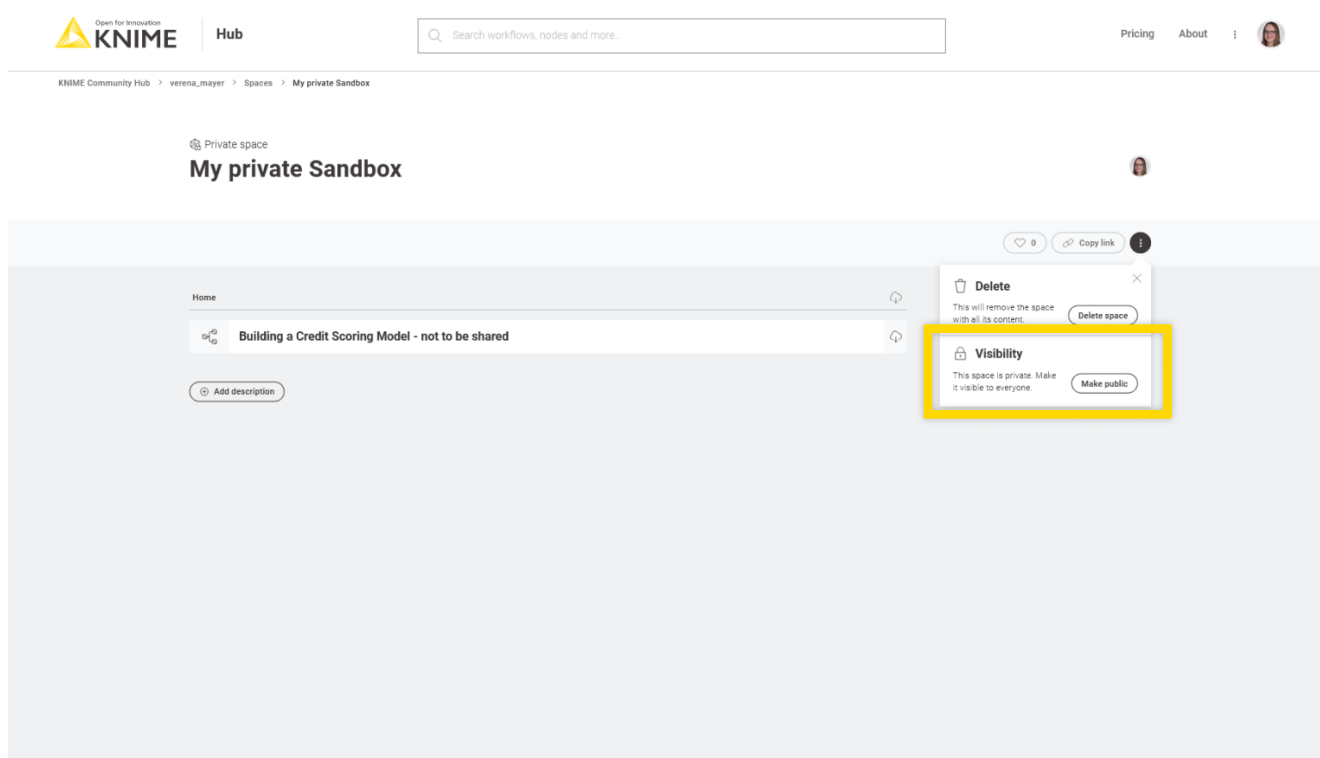




Figure 10. Change the visibility of a space on KNIME Hub

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  button or press *Enter* to save. Click the  button instead to discard your changes.

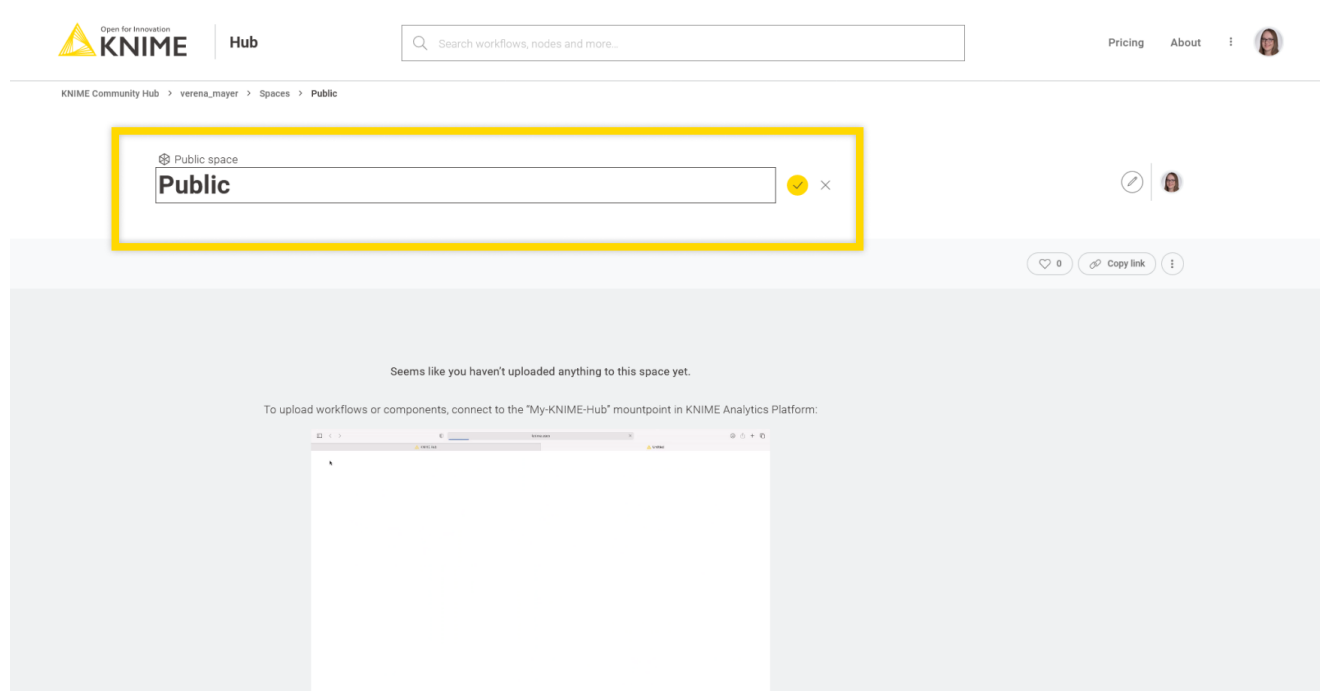


Figure 11. Change the name of a space

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 ✕ button to discard them.

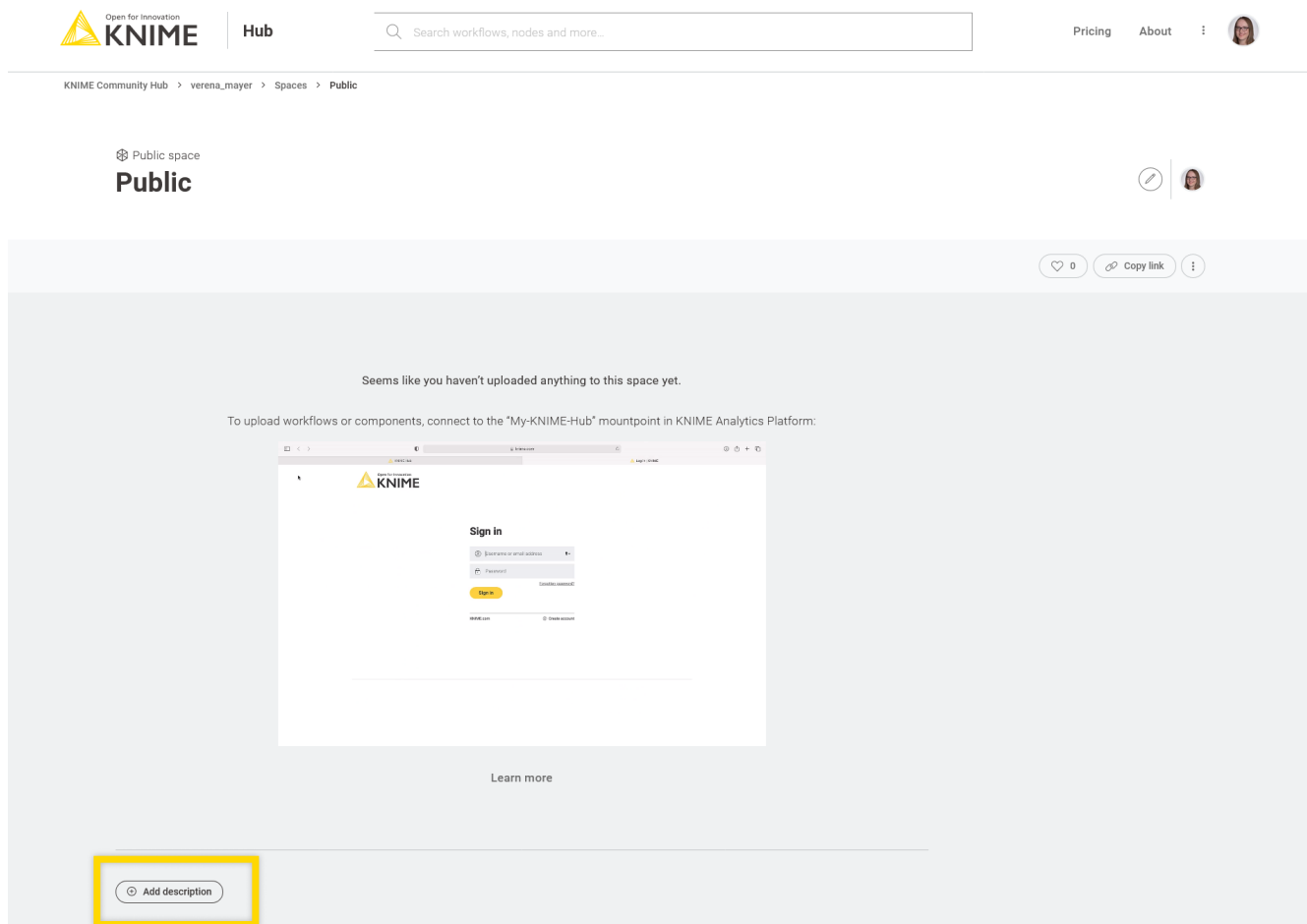



Figure 12. Add a description to a space

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.

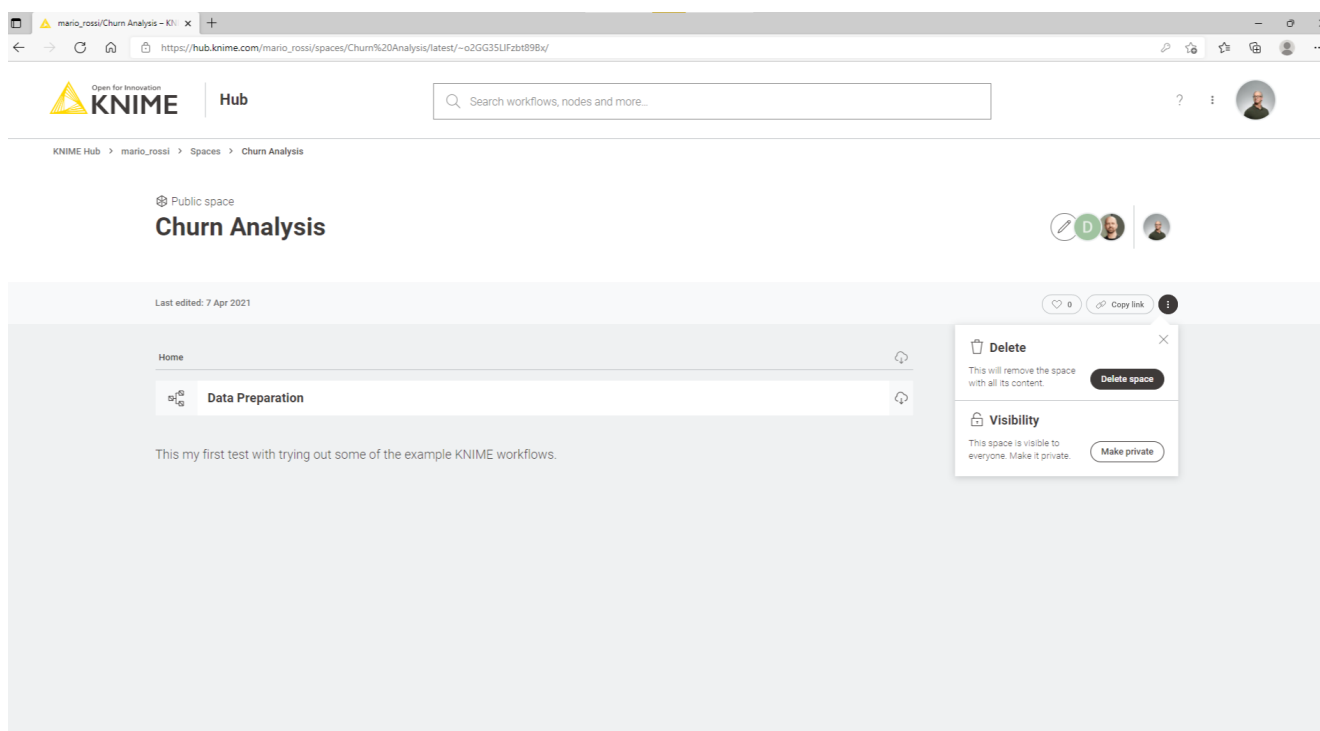


Figure 13. Delete a space from KNIME Hub

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.

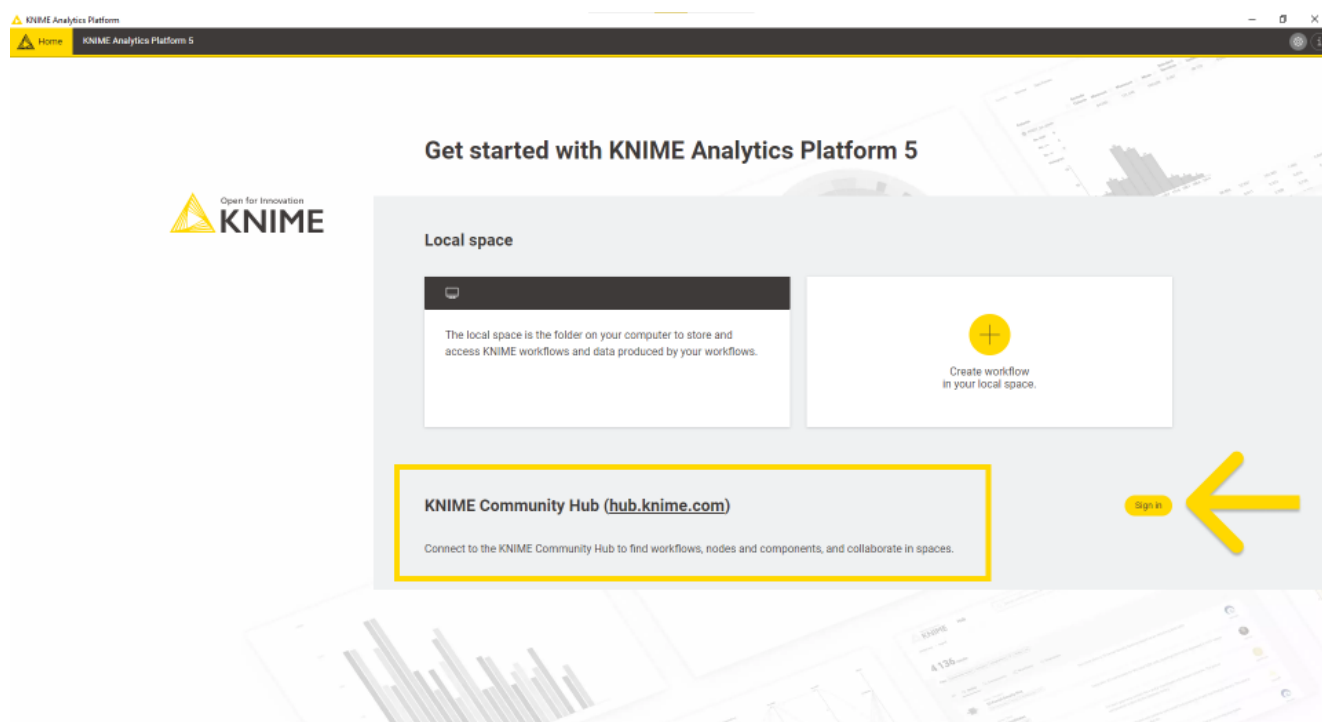


Figure 14. Connect to KNIME Hub from KNIME Analytics Platform

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

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

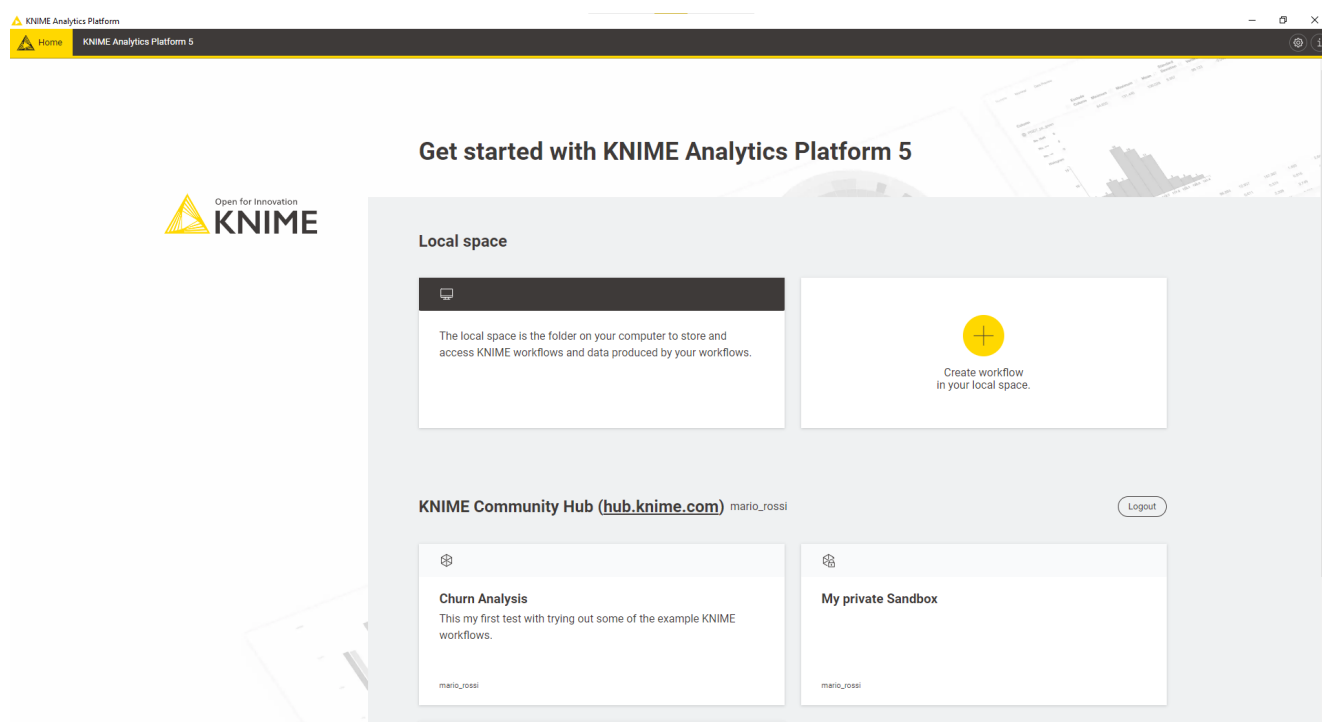


Figure 15. A user connected to KNIME Hub from KNIME Analytics Platform

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.

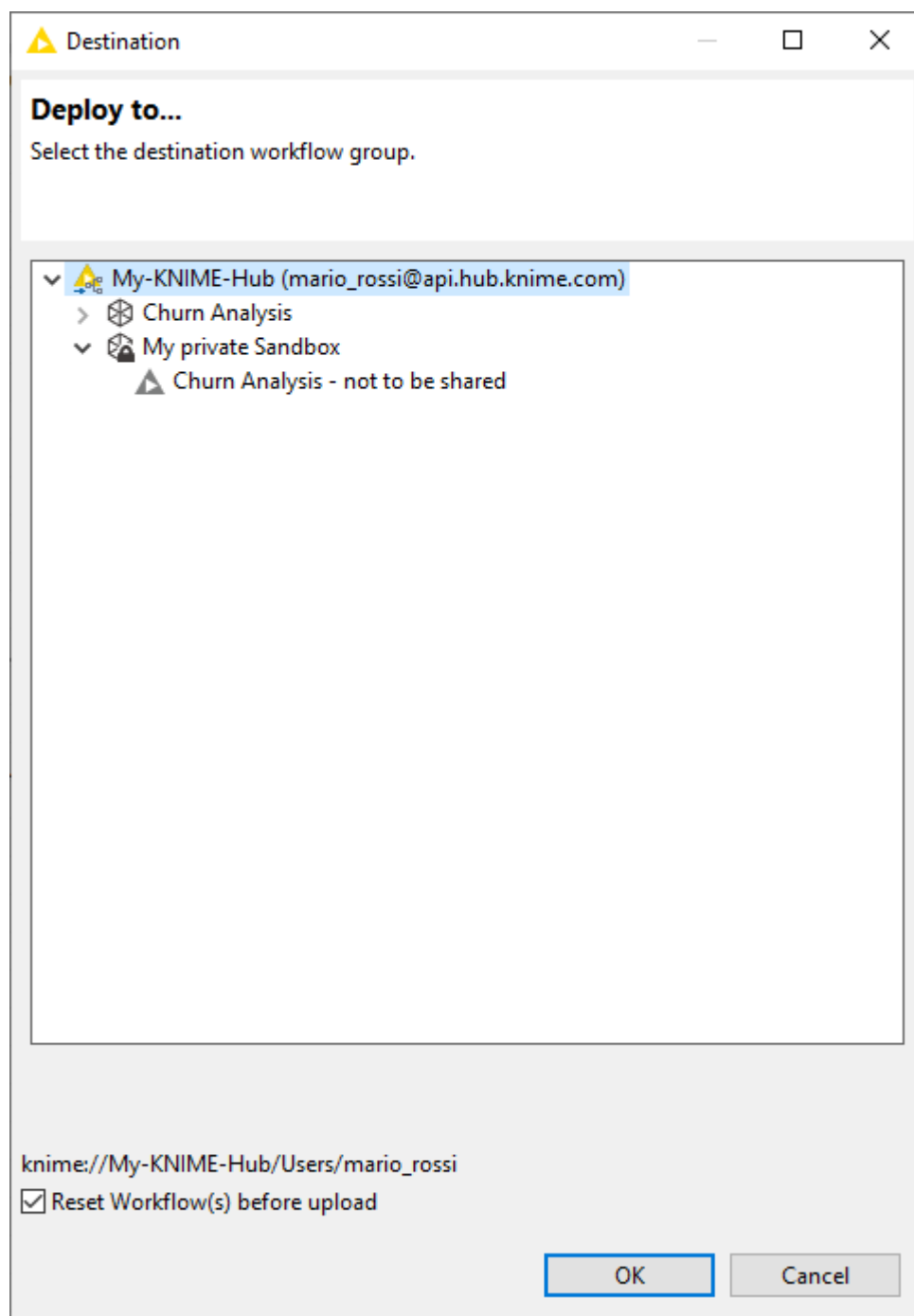


Figure 16. Upload a local item to your KNIME Hub mount point



Items that are uploaded to a public space will be available to everyone. Hence, be very careful with the data and information (e.g., credentials) you share.

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**.

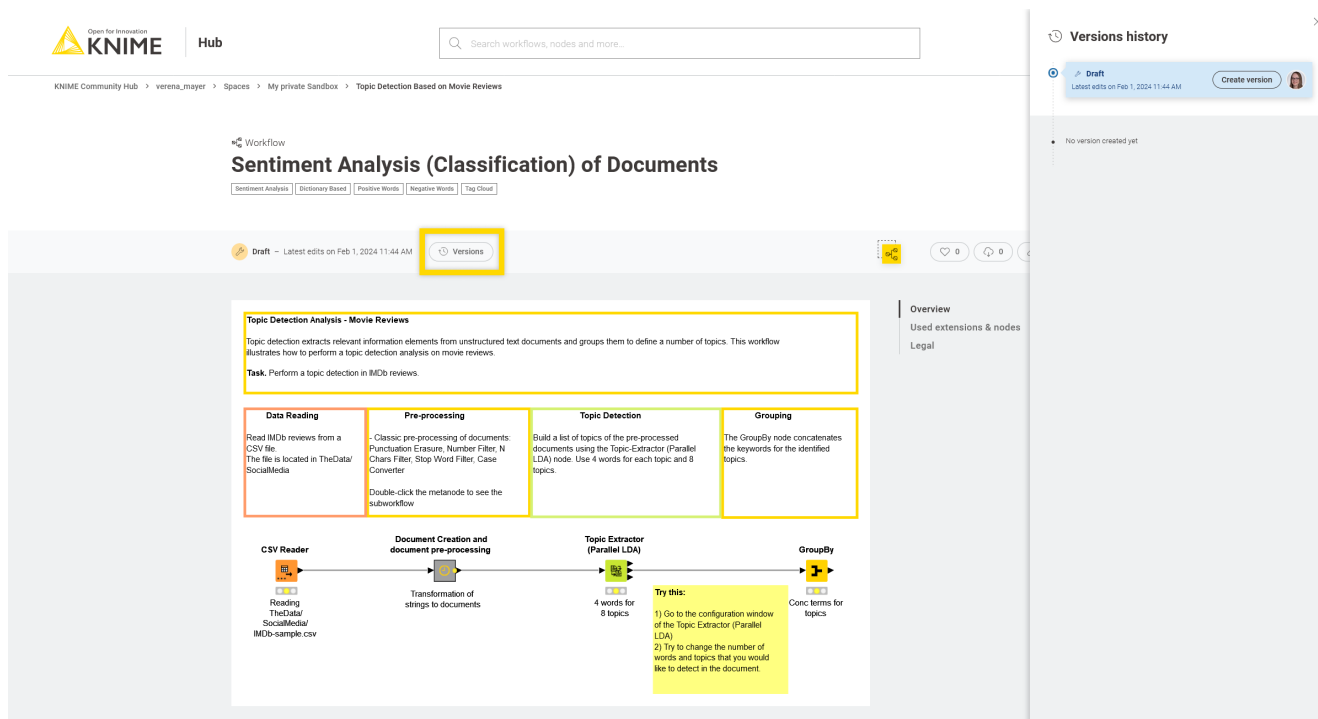



Figure 17. Versioning of a workflow

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.

The screenshot displays the KNIME Community Hub interface. At the top, there's a search bar and navigation links. The main content area shows a workflow titled "Topic Detection Based on Movie Reviews". The workflow diagram includes nodes for "CSV Reader", "Document Creation and document pre-processing", "Topic Extractor (Parallel LDA)", and "GroupBy". A "Versions history" panel on the right shows two versions: v2 (Testing 2) and v1 (Testing). The v1 tile has a "Show this version" button highlighted.

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  icon in the version tile from the item history and select *Restore this version*.

Topic Detection Based on Movie Reviews

Version: v2 - Latest, created on Feb 1, 2024 2:51 PM

Topic Detection Analysis - Movie Reviews

Topic detection extracts relevant information elements from unstructured text documents and groups them to define a number of topics. This workflow illustrates how to perform a topic detection analysis on movie reviews.

Task: Perform a topic detection in IMDb reviews.

Data Reading
Read IMDb reviews from a CSV file. The file is located in TheData/SocialMedia

Pre-processing
Classic pre-processing of documents: Punctuation Erasure, 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.

Try this:
1) Go to the configuration window of the Topic Extractor (Parallel LDA)
2) Try to change the number of words and topics that you would like to detect in the document


Versions history

- v2
Testing 2
Created on Feb 1, 2024 2:51 PM - Version 3
- v1
Testing
Created on Feb 1, 2024 2:51 PM - Version 1
[Show this version](#)
[Restore this version](#)
[Delete this version](#)

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*.

Topic Detection Based on Movie Reviews

Version: v2 - Latest, created on Feb 1, 2024 2:51 PM

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Versions history

- v2
Testing 2
Created on Feb 1, 2024 2:51 PM - Version 3
- v1
Testing
Created on Feb 1, 2024 2:51 PM - Version 1
[Show this version](#)
[Restore this version](#)
[Delete this version](#)

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.



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*.

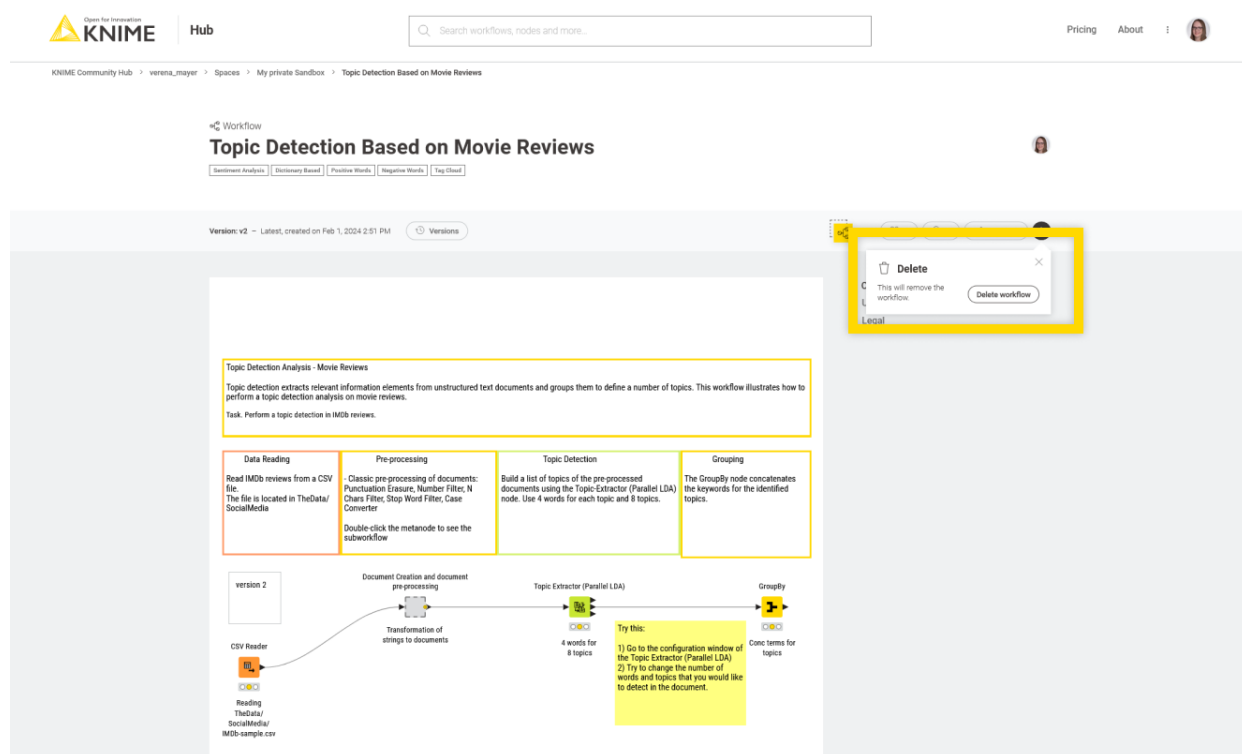


Figure 21. Delete a workflow from KNIME Hub

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.

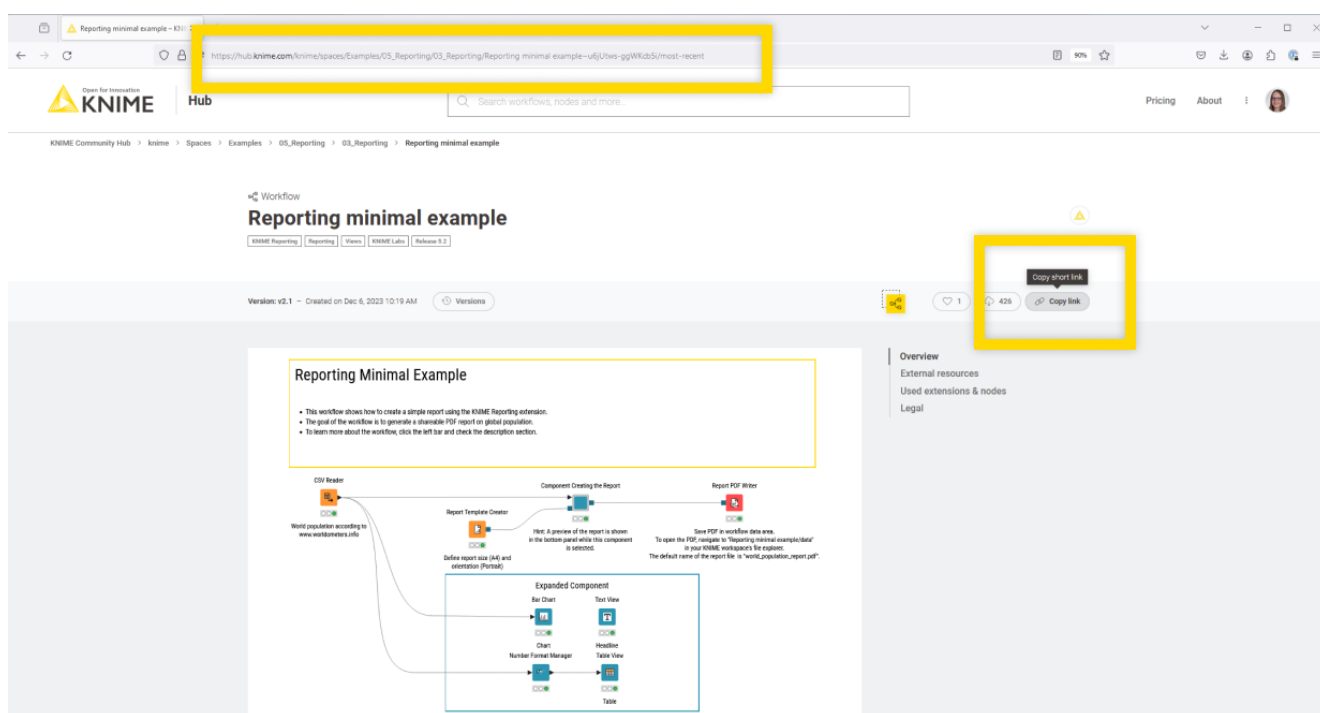


Figure 22. Click the link icon to copy the short link to your clipboard.

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](#).

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

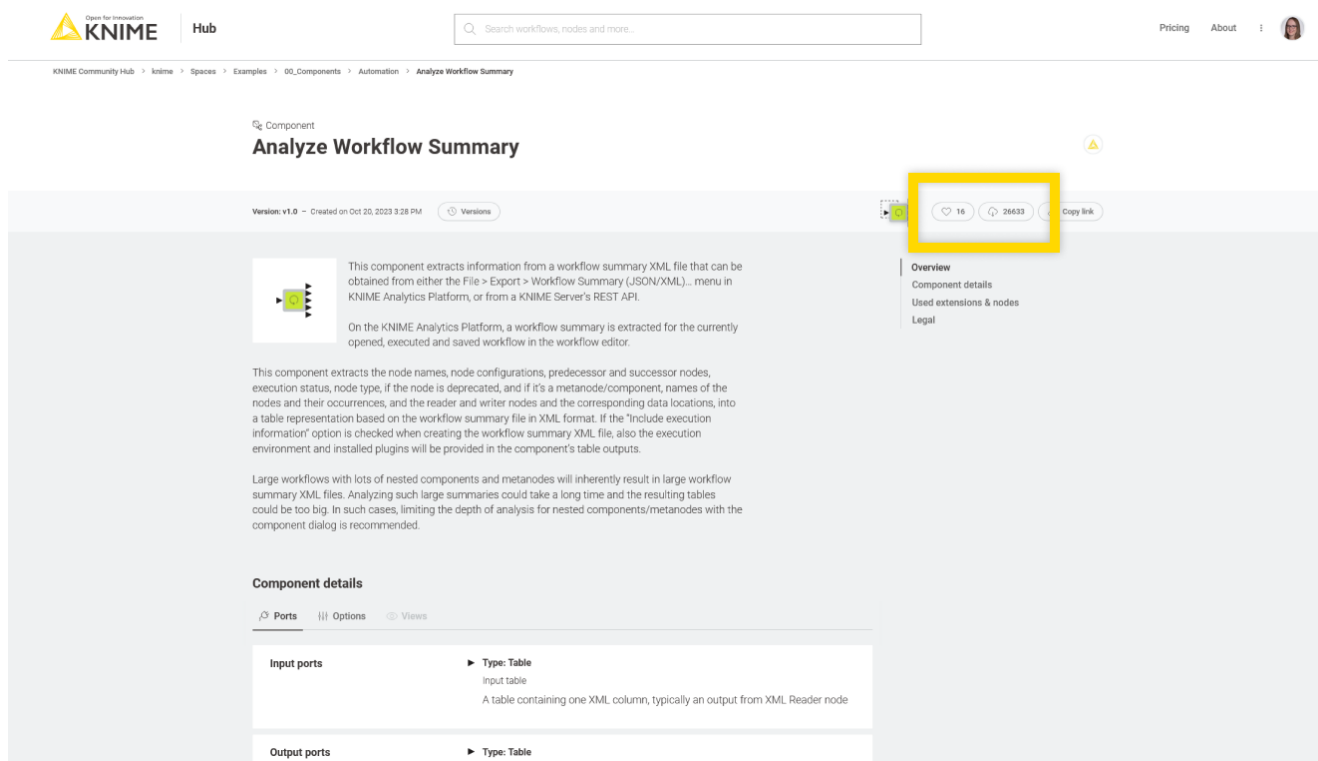


Figure 23. Number of downloads and likes of an item on KNIME Hub

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.

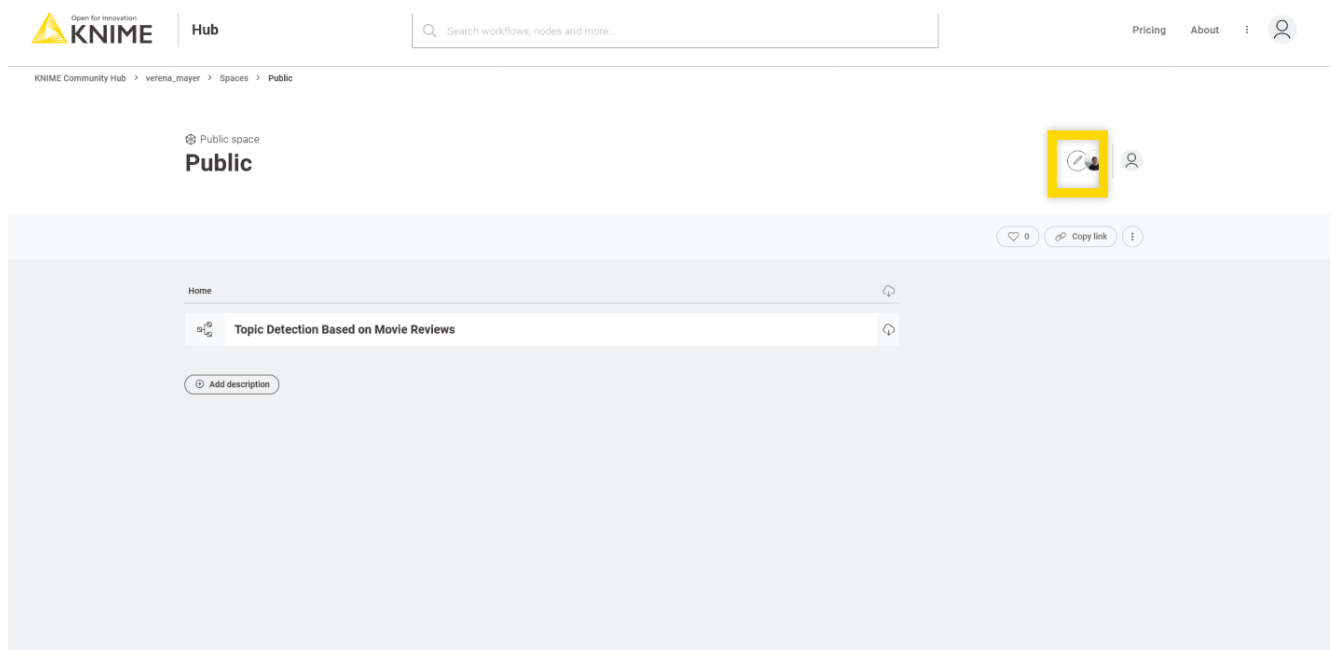


Figure 24. Add a contributor to a public space

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

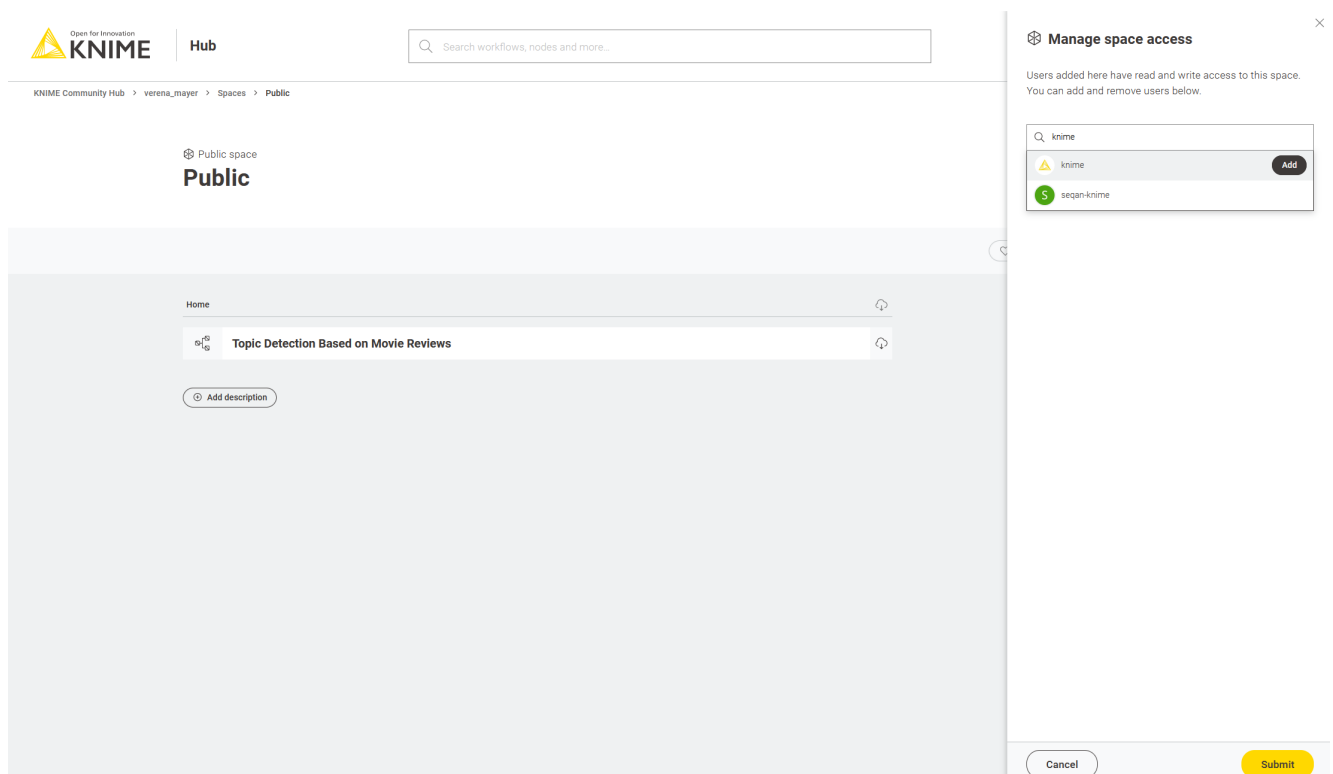



Figure 25. Manage contributors on a public space

In the same panel, you can also manage the contributors. Click on the  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.



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  icon, as shown in the image below.

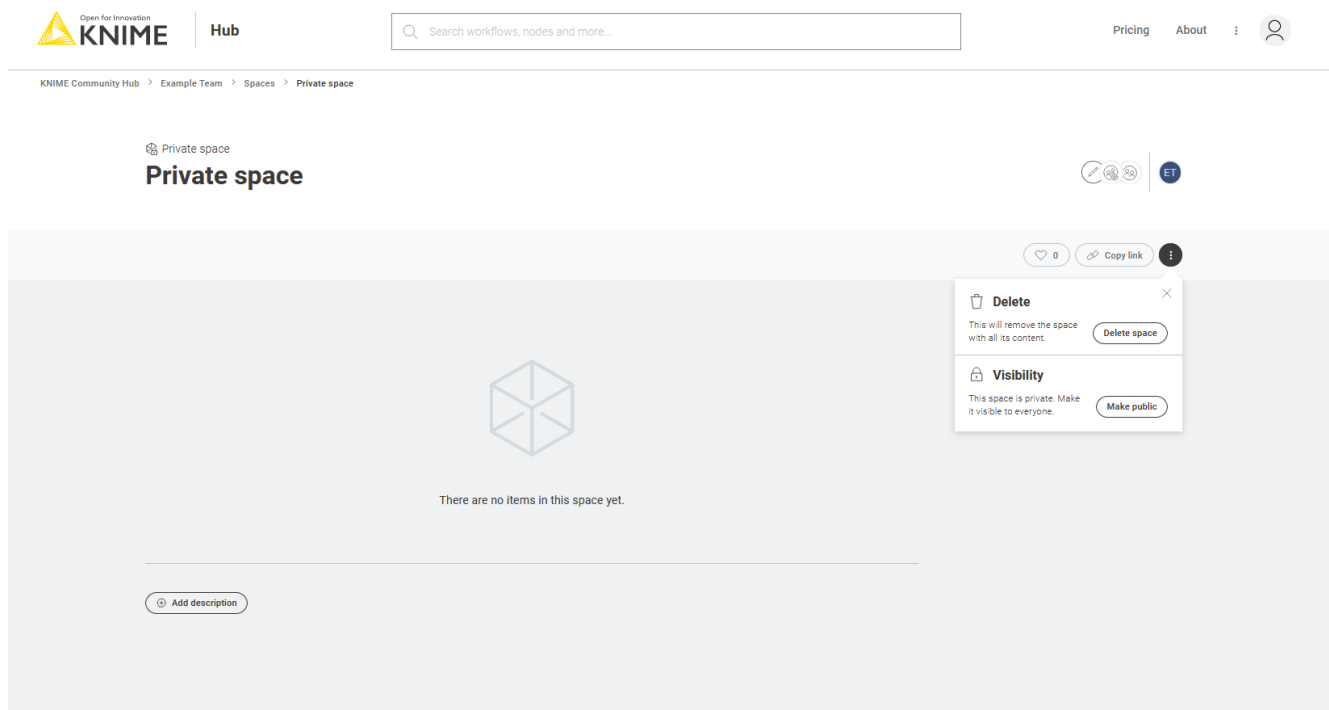



Figure 26. Change visibility or delete an existing team owned space

Manage space access

You can also manage the access to a specific space. To do so, navigate to the space and click the  icon.

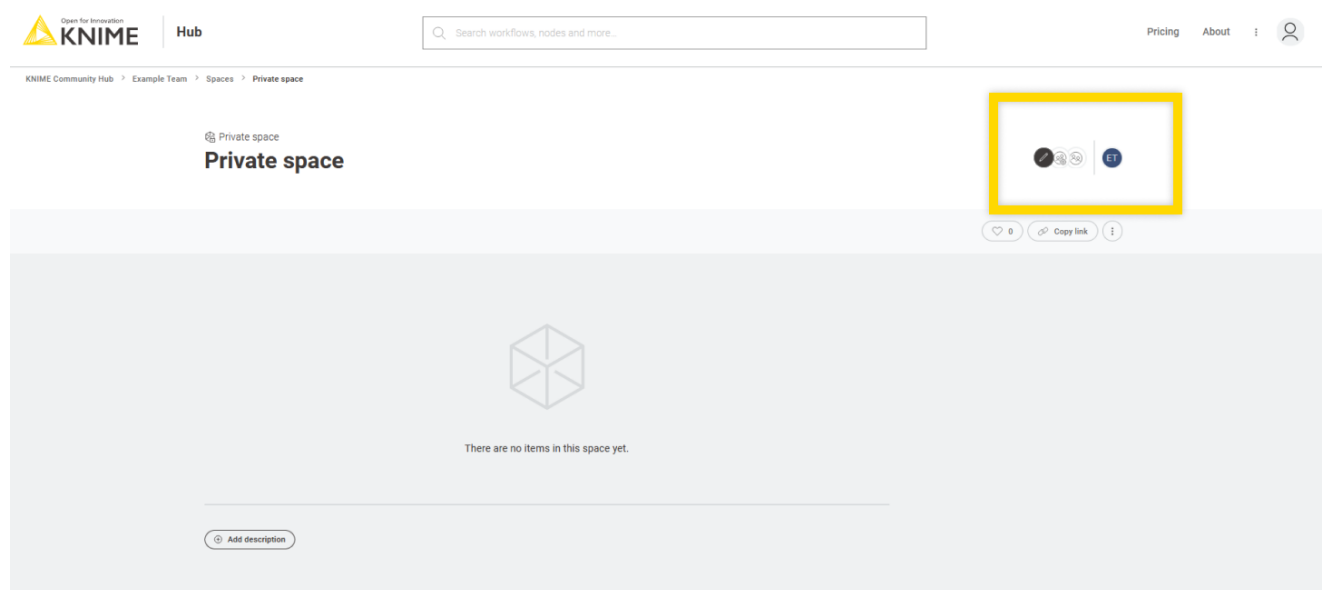



Figure 27. Open the Manage space access side panel

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  icon to inspect the individual team members and their rights separately.

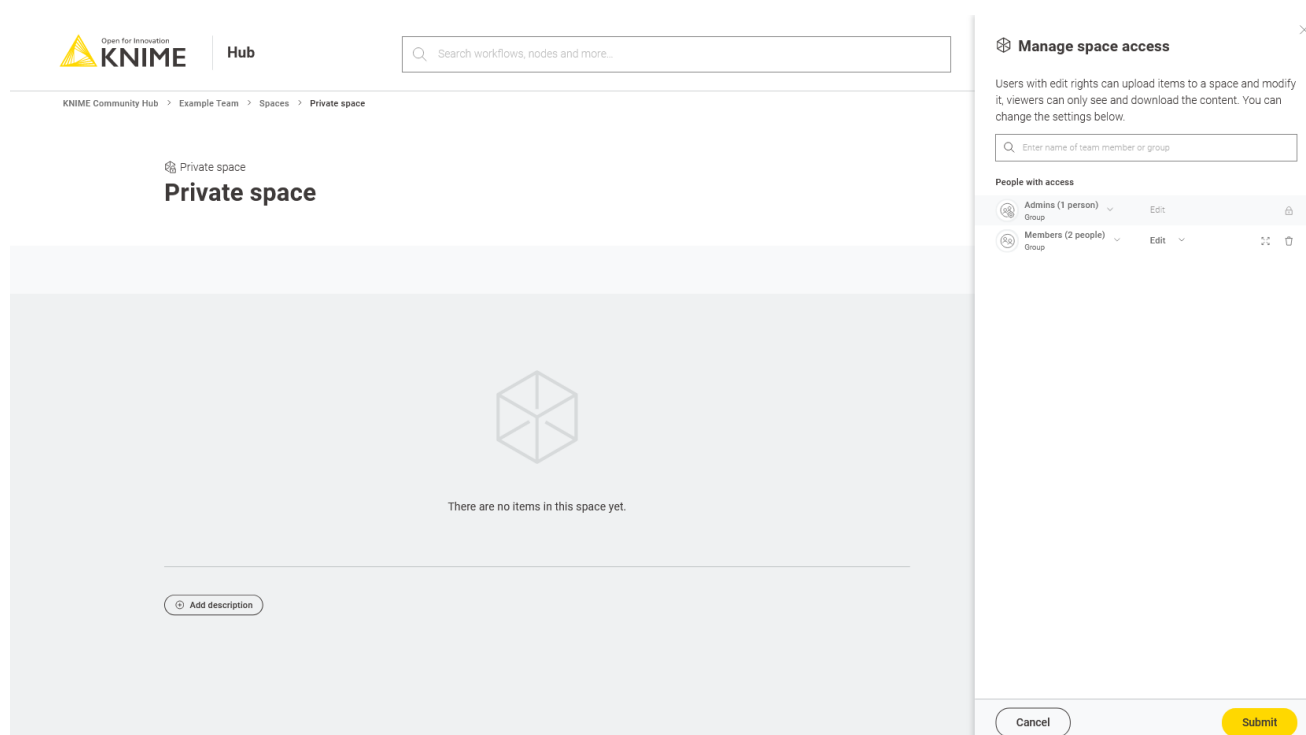


Figure 28. Manage the access to a space

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.

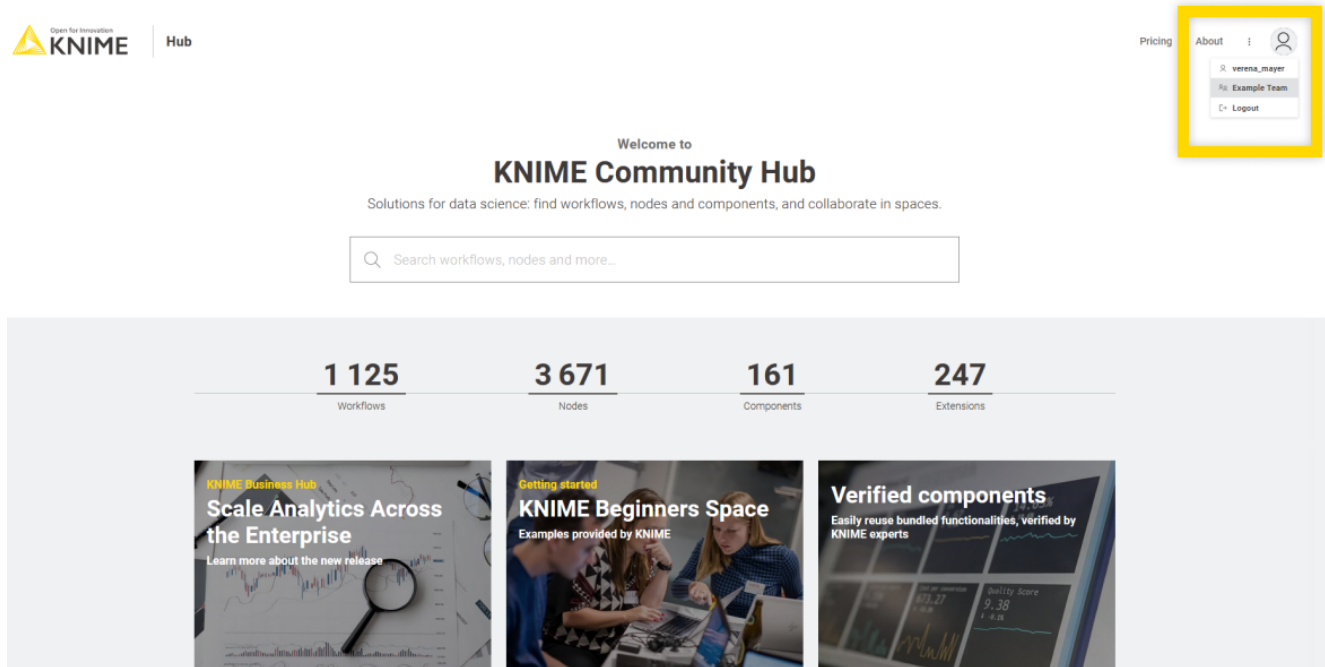


Figure 29. Select a team to go to the team's profile page

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.

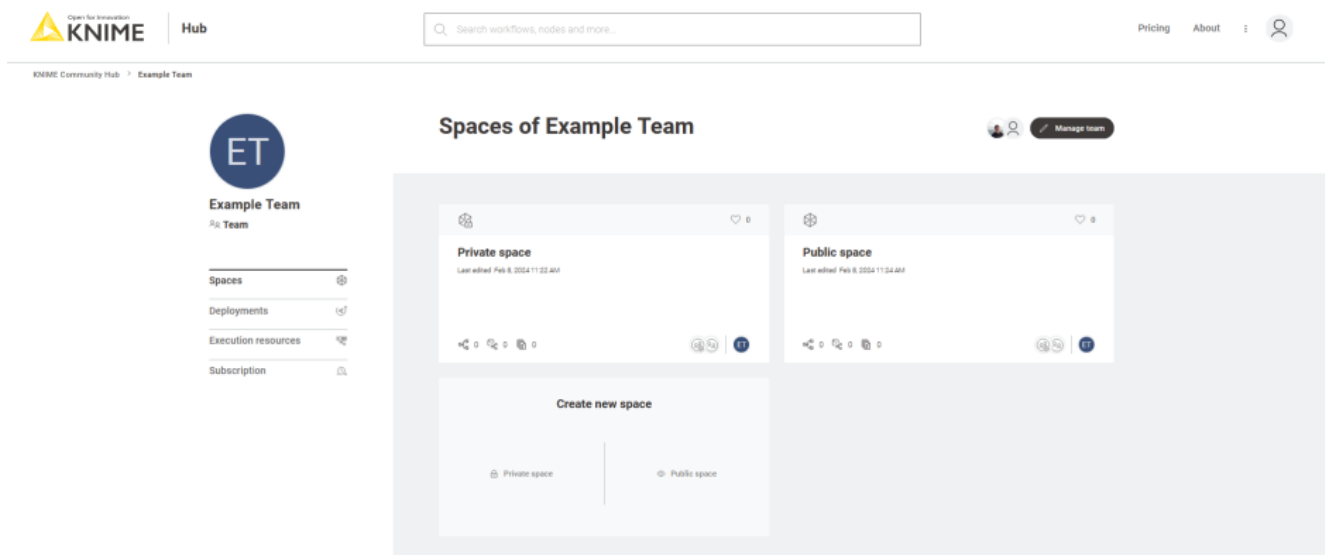


Figure 30. The team's profile page

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

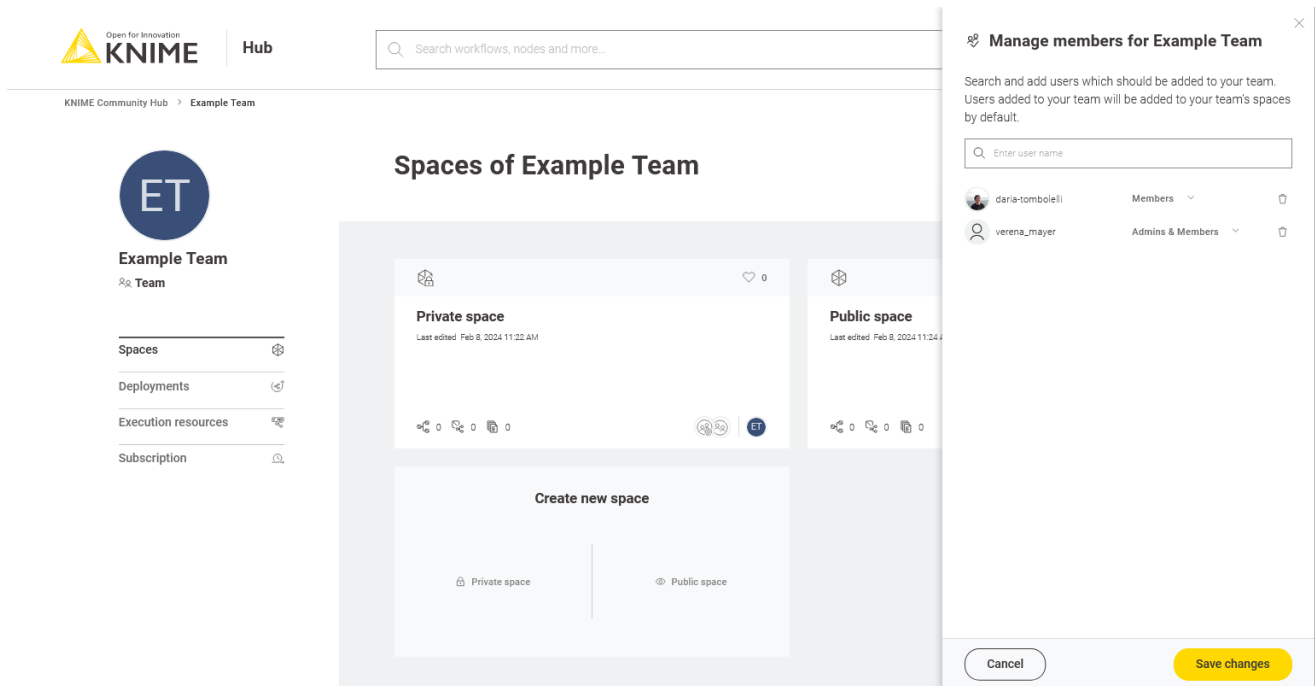


Figure 31. Manage team members

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.

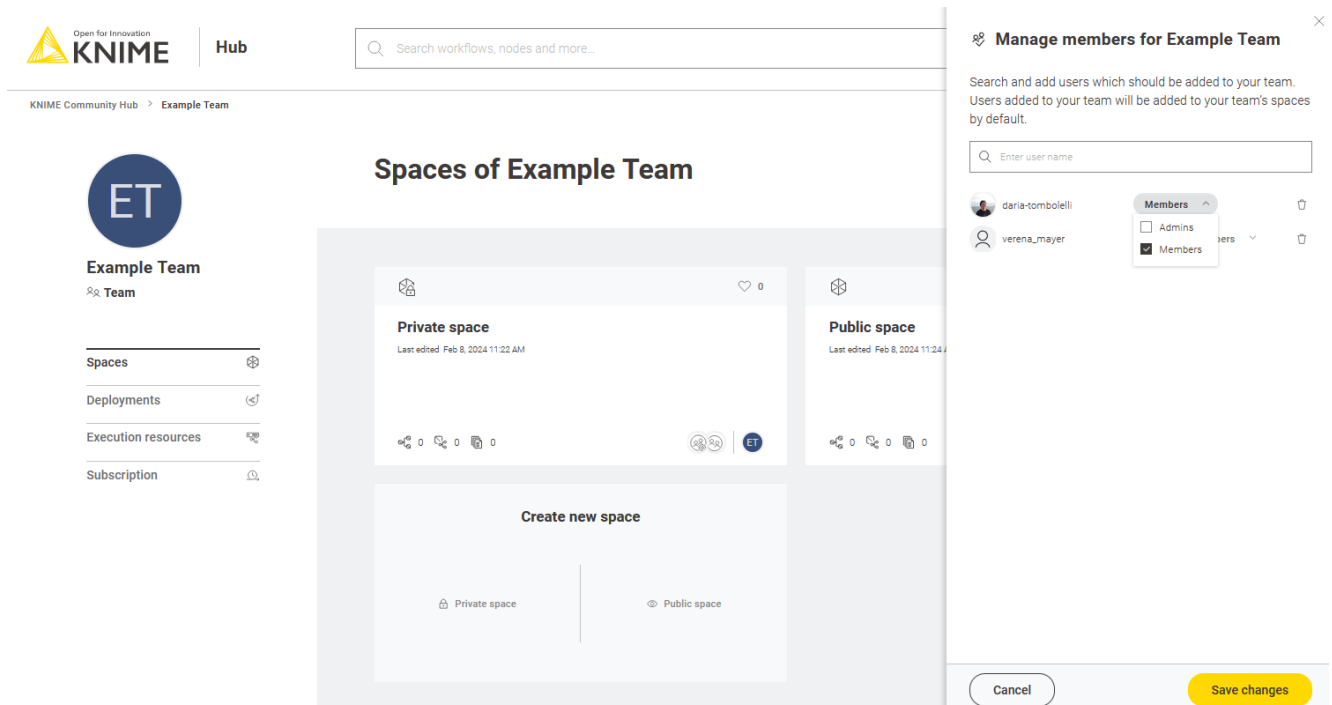


Figure 32. Manage team members roles


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  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.

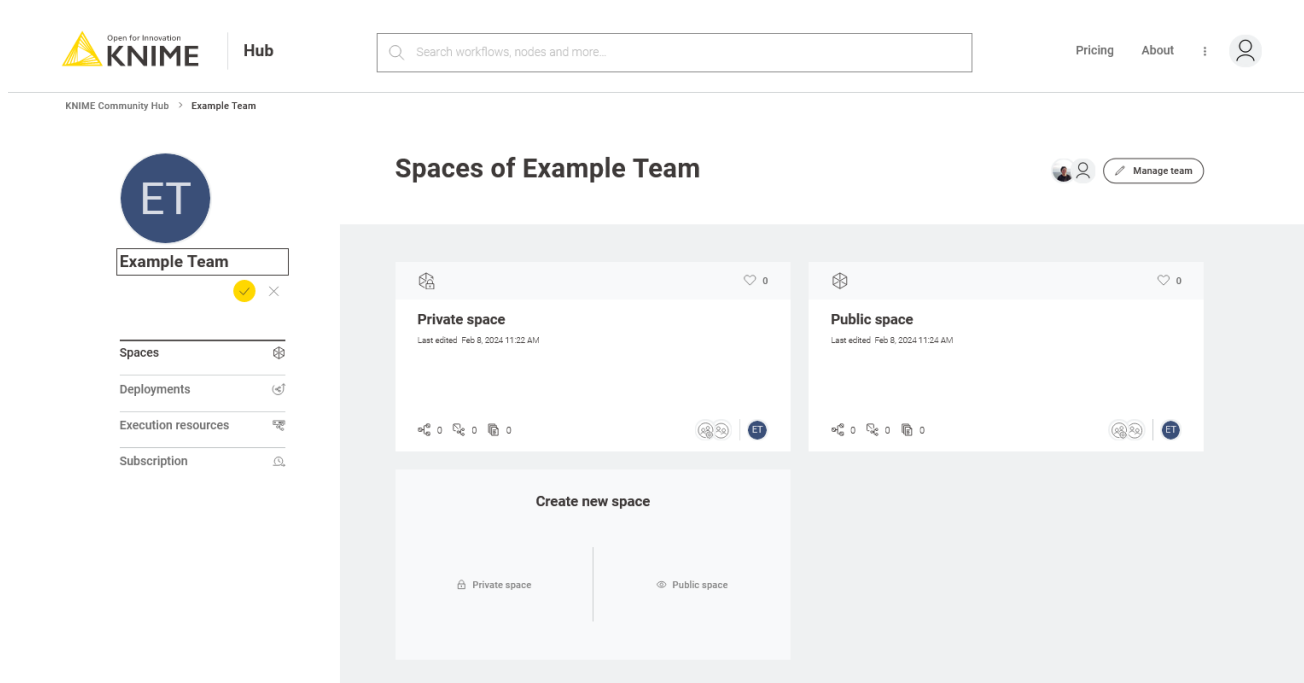


Figure 33. Change name of the team

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.

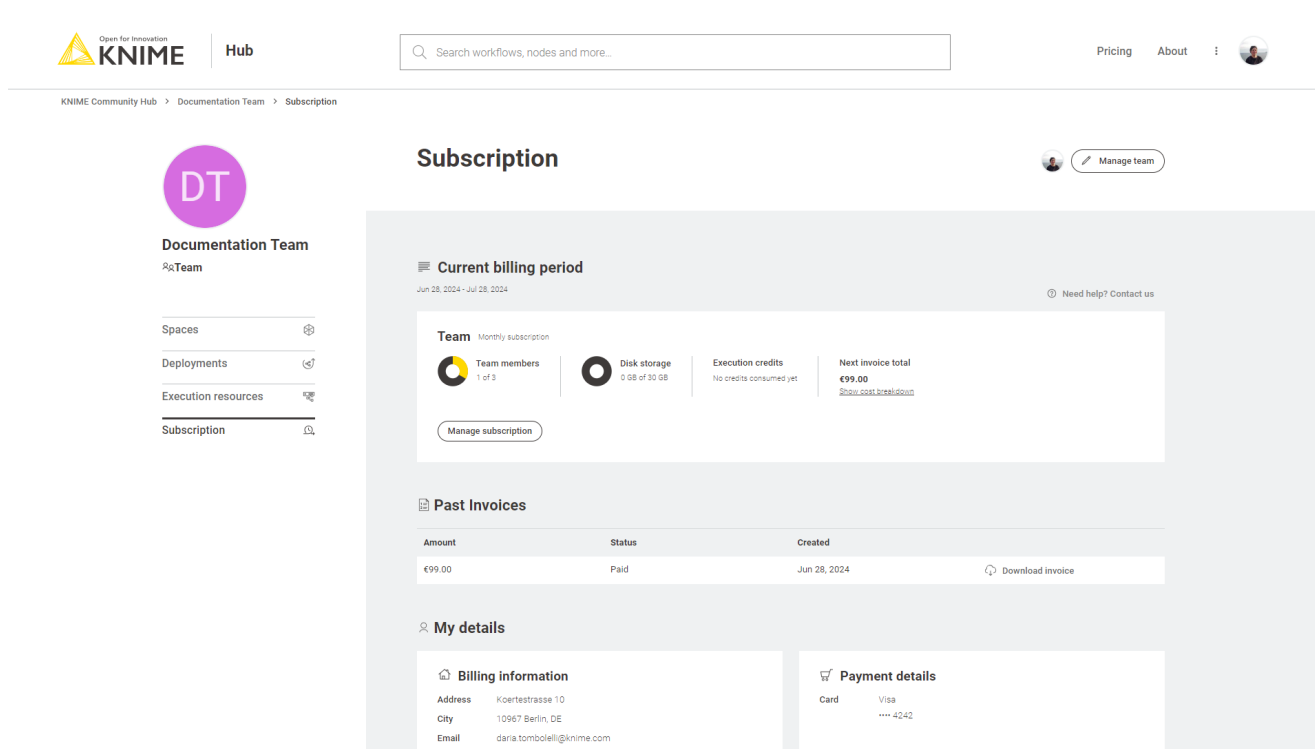


Figure 34. Manage team subscription

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 confirm with *Cancel subscription*, your team and its spaces will be **deleted**.



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.

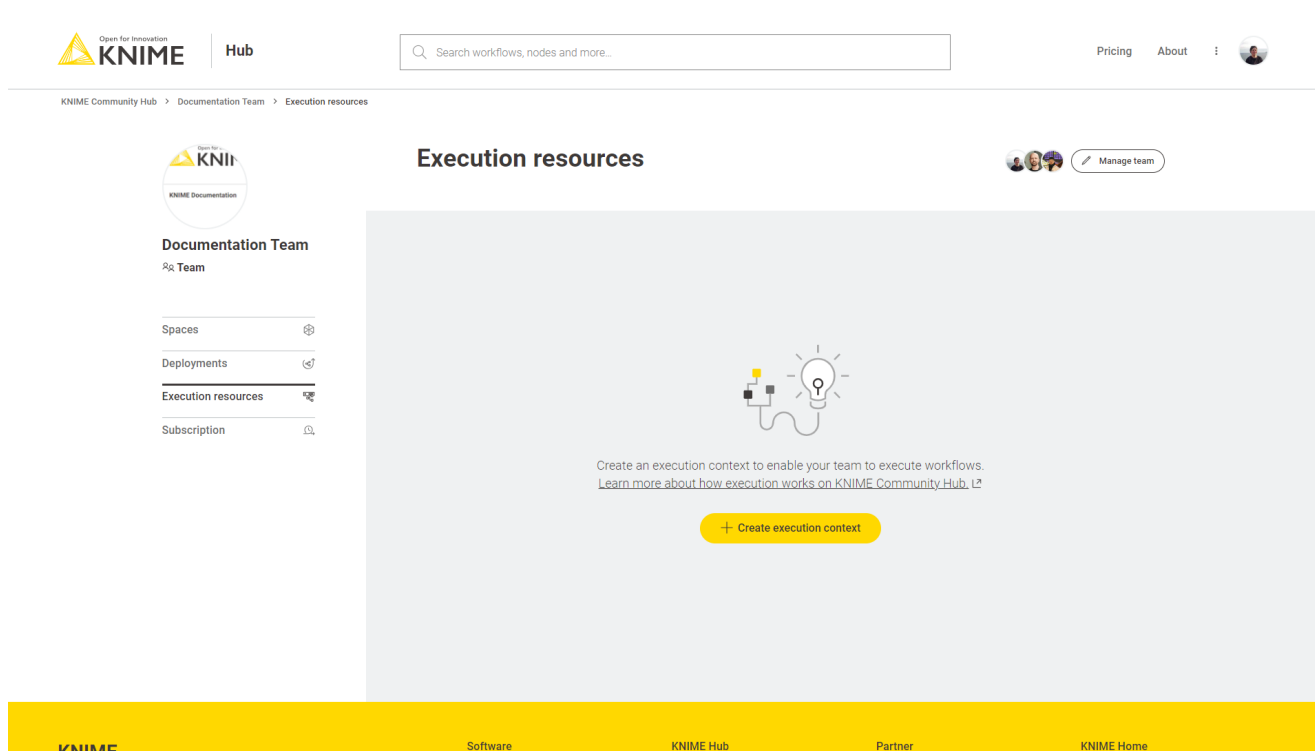


Figure 35. Start by creating an execution context

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

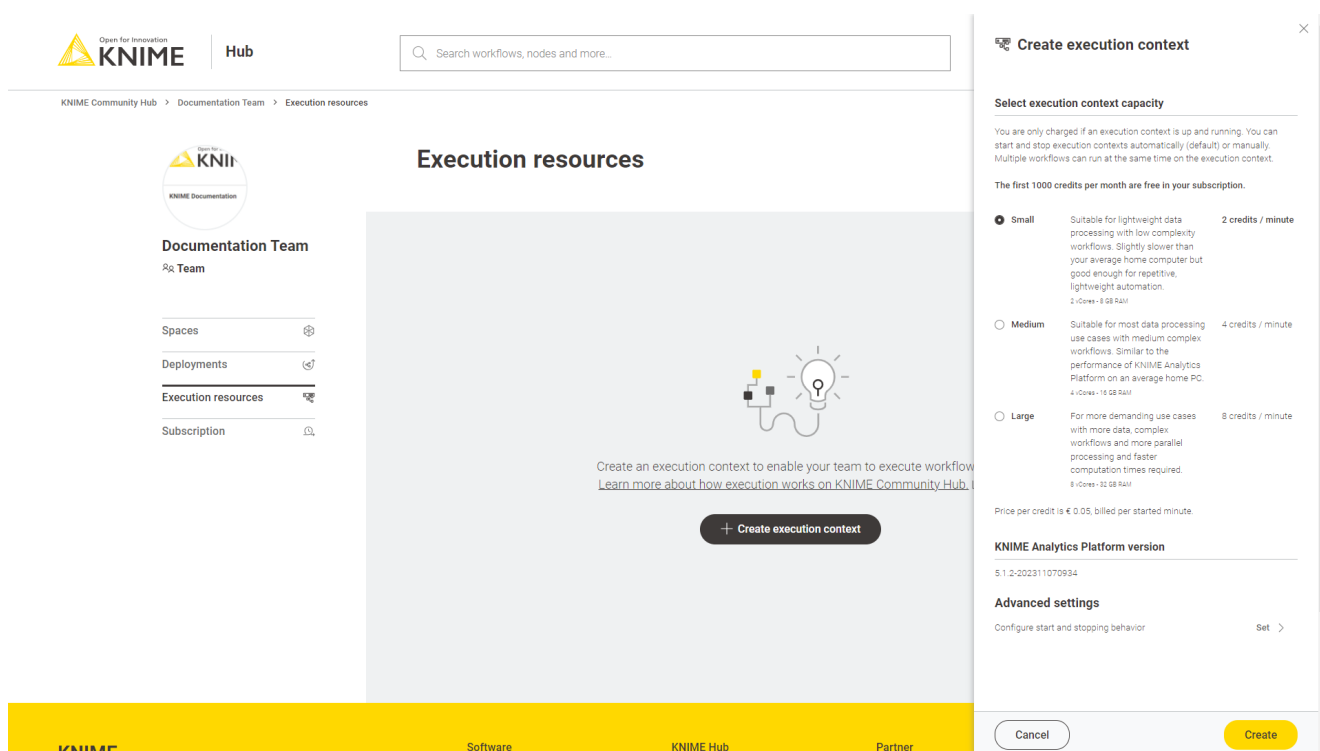


Figure 36. Create an execution context for your team

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

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](#).

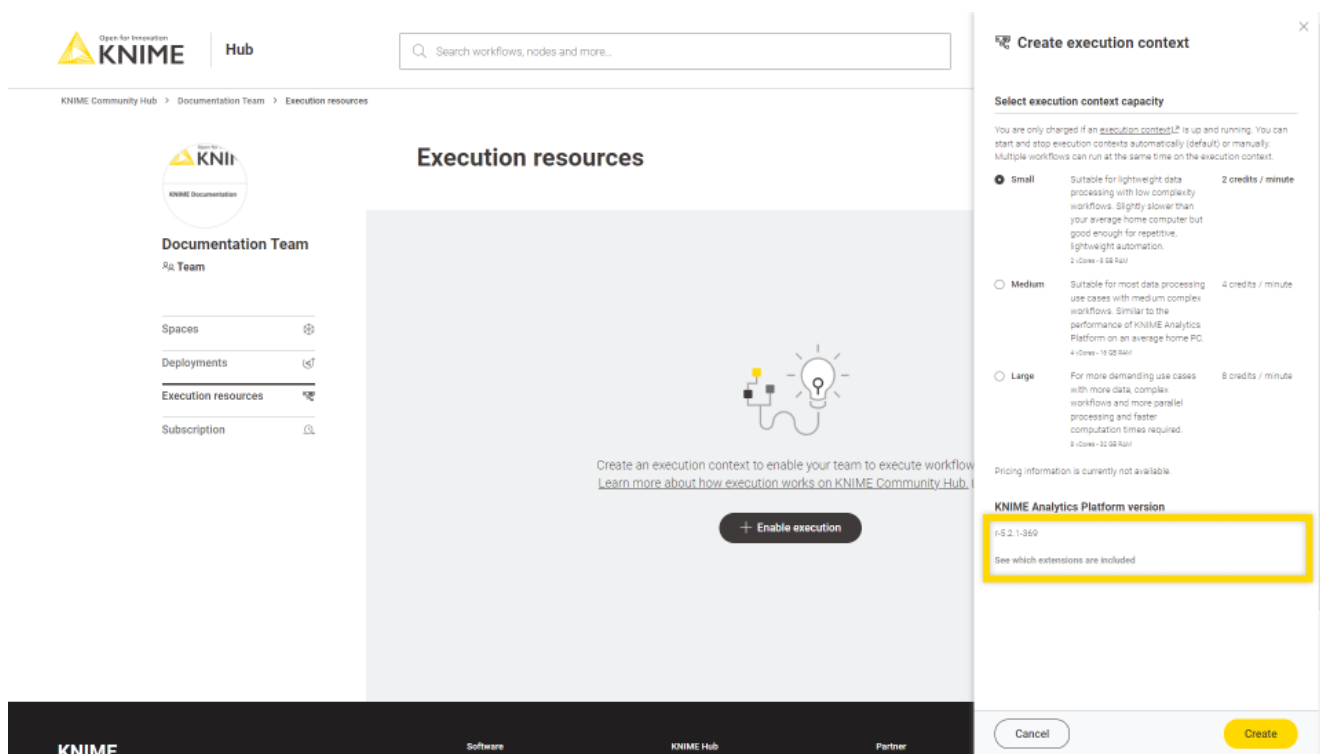



Figure 37. The executor version provided by us

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.

The screenshot shows the 'Subscription' overview page in the KNIME Community Hub. On the left, there's a sidebar with the 'Documentation Team' and a list of team resources: Spaces, Deployments, Execution resources, and Subscription. The main content area is titled 'Subscription' and shows the 'Current billing period' from Feb 14, 2024, to Mar 14, 2024. Below this, a 'Team' section displays a 'Monthly subscription' with a 'Team members' count of 1 of 4. A 'Cost breakdown' table lists the following items and costs:

Item	Cost
Team plan (2 users and 30 GB of disk storage)	€99.00
10 GB additional disk storage	€2.00
1 additional user	€49.00
6 consumed credits	€0.30
Total	€150.30

Buttons for 'Manage subscription' and 'End your subscription now' are visible. Below the cost breakdown, the 'My details' section is divided into 'Billing information' and 'Payment details'. The 'Billing information' shows the address as Koertstrasse 10, 10967 Berlin, DE, and the email as daria.tombolli@knime.com. The 'Payment details' section shows a card ending in 4242 and an 'Edit' button.

Figure 38. Subscription overview

Execute a workflow

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.



Be aware that this action will start up your executor, which, once the execution is started will start the billing.

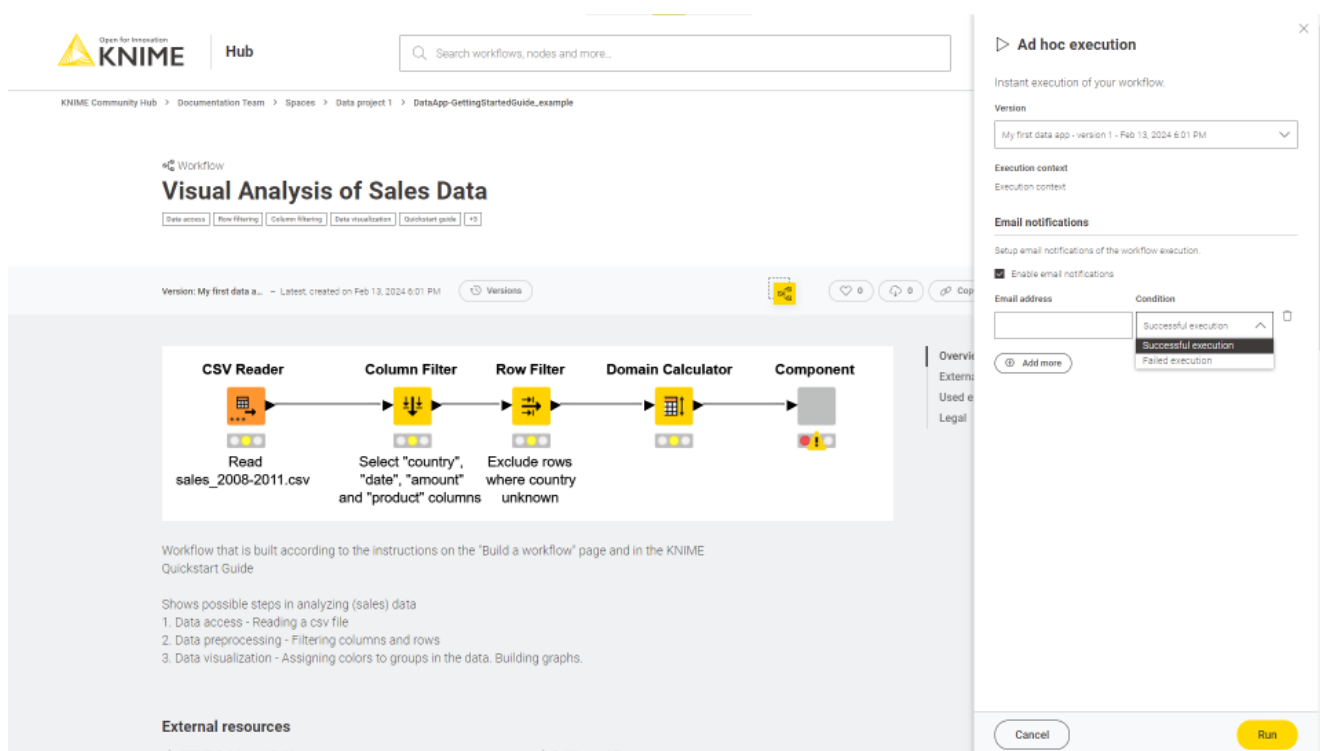


Figure 39. The ad hoc execution side panel

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* → *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.

The screenshot displays the KNIME Community Hub interface. The main content area shows a workflow titled "00_DataApp_Visual_Analysis_of_Sales_Data" in a "Draft" state, last edited on Nov 2, 2023 2:47 PM. The workflow diagram includes three main sections: "Data Access - Provide File Path" (CSV Reader), "Data Preprocessing - Filter column and rows" (Column Filter, Row Filter, Domain Calculator), and "Data Visualization - Dynamic Data App" (Component). The workflow is described as being built according to the "KNIME Data Apps Beginners Guide".

On the right side, the "Create schedule" side panel is open. It allows scheduling the workflow to run automatically at selected times. The panel includes fields for "Deployment name" (00_DataApp_Visual_Analysis_of_Sales_Data), "Version" (v1.0 - Oct 27, 2023 1:47 PM), and "Execution context" (Execution context). The "Schedule options" section defines when the workflow should be executed, with "Initial execution" set to 2023-11-02 at 15:01:00. The "Workflow actions" section includes options to "Enable workflow actions" and "Advanced settings" for changing job lifecycle behavior, timeouts, etc.

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.

This screenshot shows the same workflow and side panel as Figure 40, but with the "Schedule options" section expanded. The "Initial execution" is set to 2023-11-02 at 15:01:00. The "Repeat execution" checkbox is checked, and the "Start times" button is highlighted. The "Schedule ends date" is set to "Never". The "Workflow actions" section includes options to "Enable workflow actions" and "Advanced settings" for changing job lifecycle behavior, timeouts, etc.

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

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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 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:

The screenshot displays the KNIME workflow editor interface. The main workflow canvas shows a sequence of steps: 'Data Access - Provide File Path' (CSV Reader), 'Data Preprocessing - Filter column and rows' (Column Filter, Row Filter, Domain Calculator), and 'Data Visualization - Dynamic Data App' (Component). The workflow is titled '00_DataApp_Visual_Analysis_of_Sales_Data' and is in 'Draft' status. The right-hand side panel, titled 'Back to "Create schedule"', contains the 'Recurring on' section. This section includes a 'Days of the week' grid with checkboxes for M, T, W, T, F, S, and S. Below this is a 'Days' grid with checkboxes for days 1 through 31, and a 'Last day of the month' option. The 'Months' section includes a grid with checkboxes for Jan, Feb, Mar, Apr, May, Jun, Jul, Aug, Sep, Oct, Nov, and Dec. The 'Execution retries' section has a dropdown menu set to 0. At the bottom of the panel, there are three checkboxes: 'Reset before execution', 'Skip execution if previous job is still running', and 'Disable schedule'.

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



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  icon for the desired job and select *Inspect*.

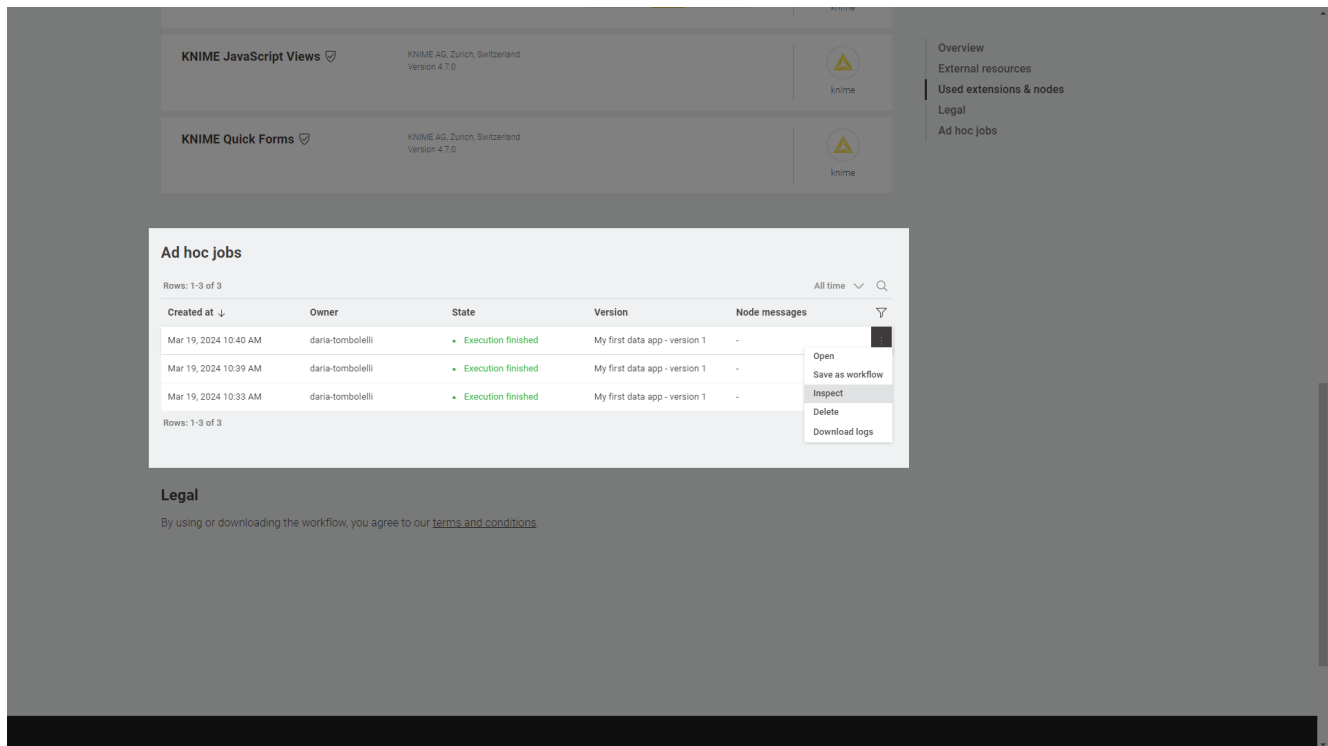


Figure 43. Select *Inspect* from the menu to check the status of the execution

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.

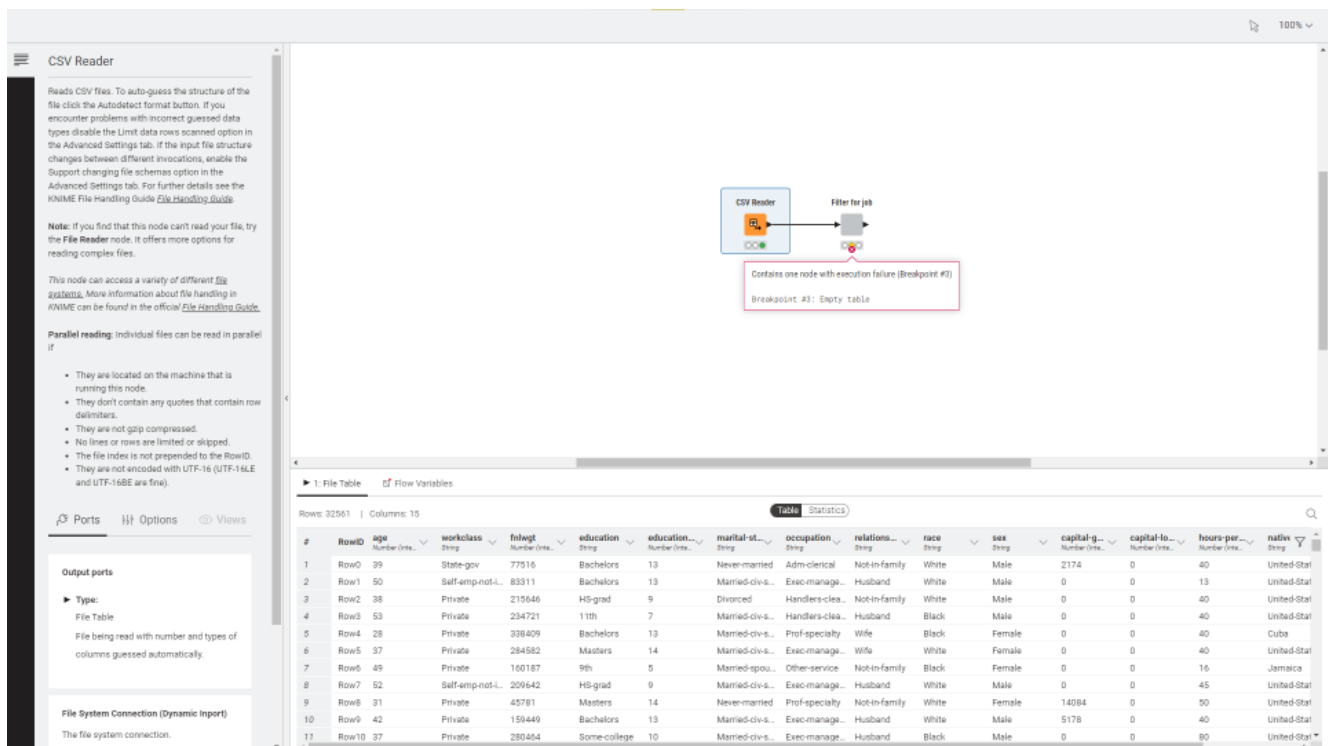


Figure 44. Inspect node messages and data at the output port of a node

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

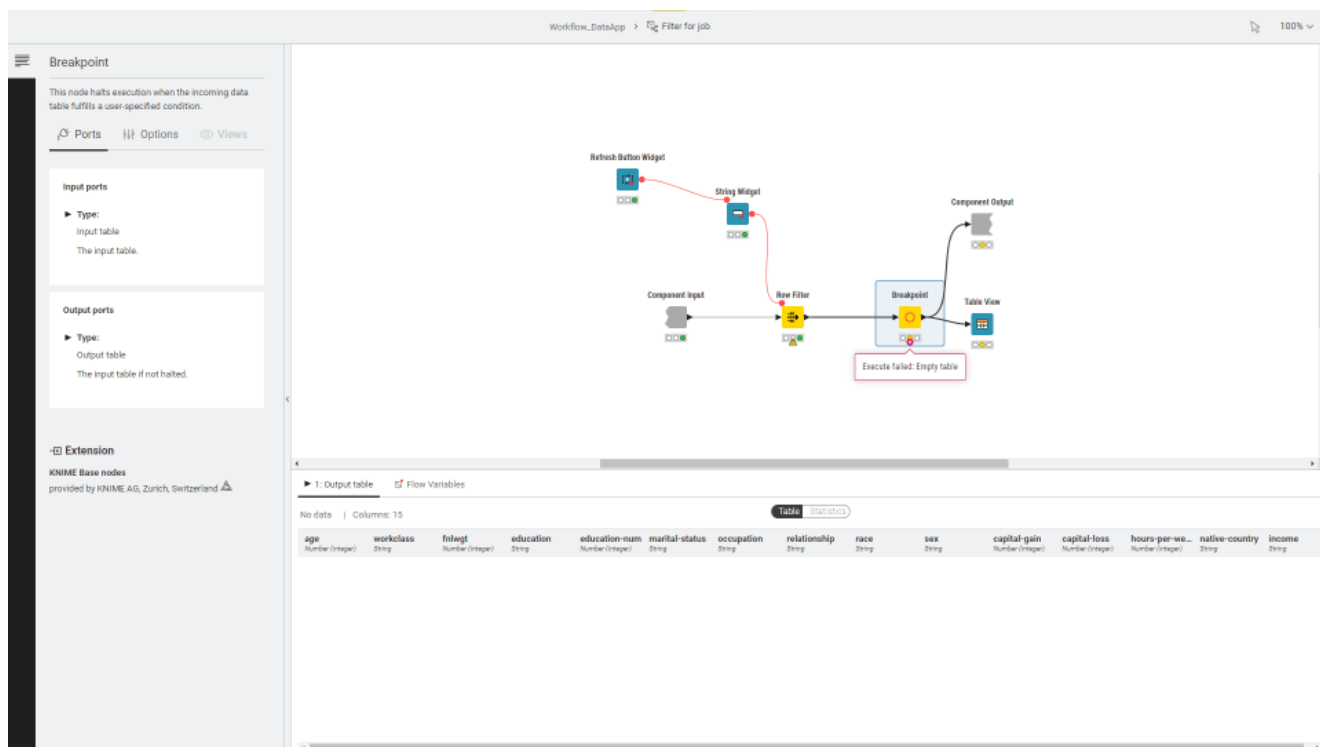


Figure 45. Navigate inside components and metanodes to inspect the incapsulated nodes

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 Embedded 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 H2O Machine Learning Integration
- KNIME H2O Machine Learning Integration - MOJO Extension
- KNIME Extension for MOJO nodes on Spark
- KNIME H2O 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 Javasnipet
- 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
- Continental Nodes for KNIME



To know more about the different extensions see the [Extensions and Integrations Guide](#).

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