

Team Plan on KNIME Community Hub Guide

KNIME AG, Zurich, Switzerland
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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.

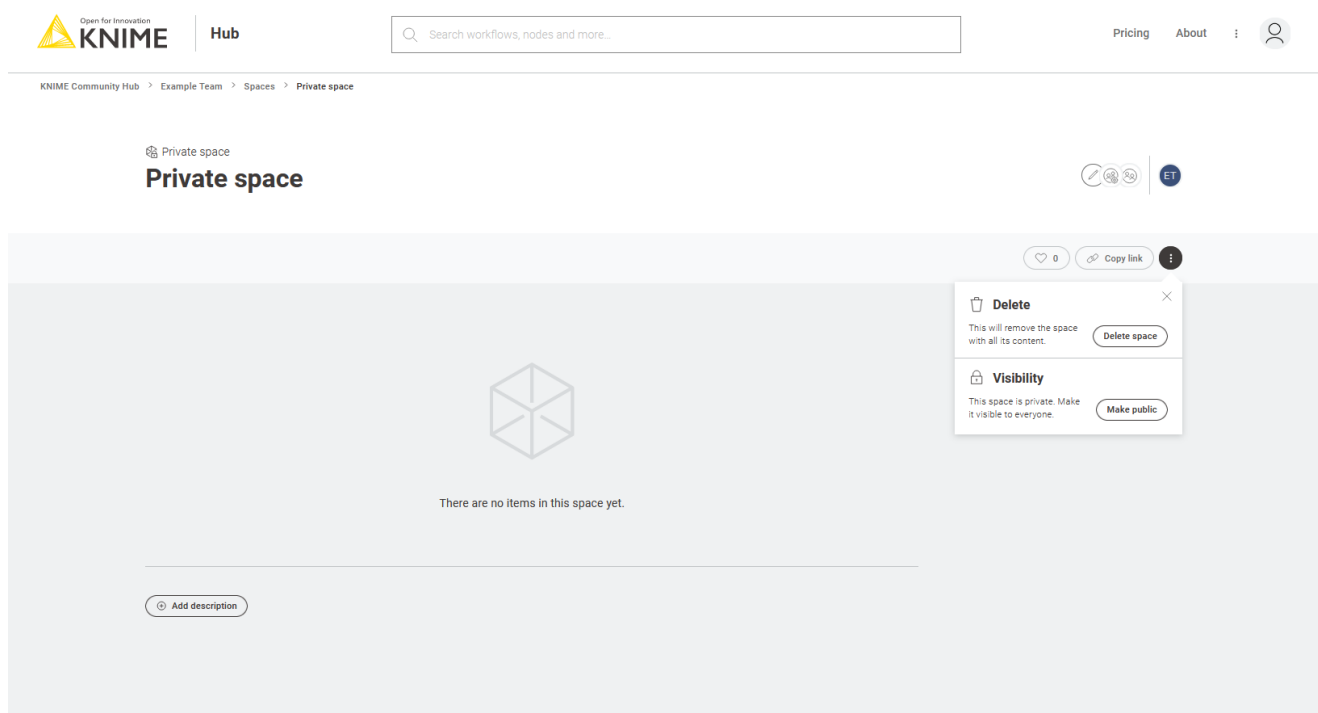


Figure 1. Change visibility or delete an existing team owned space

Manage space access

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

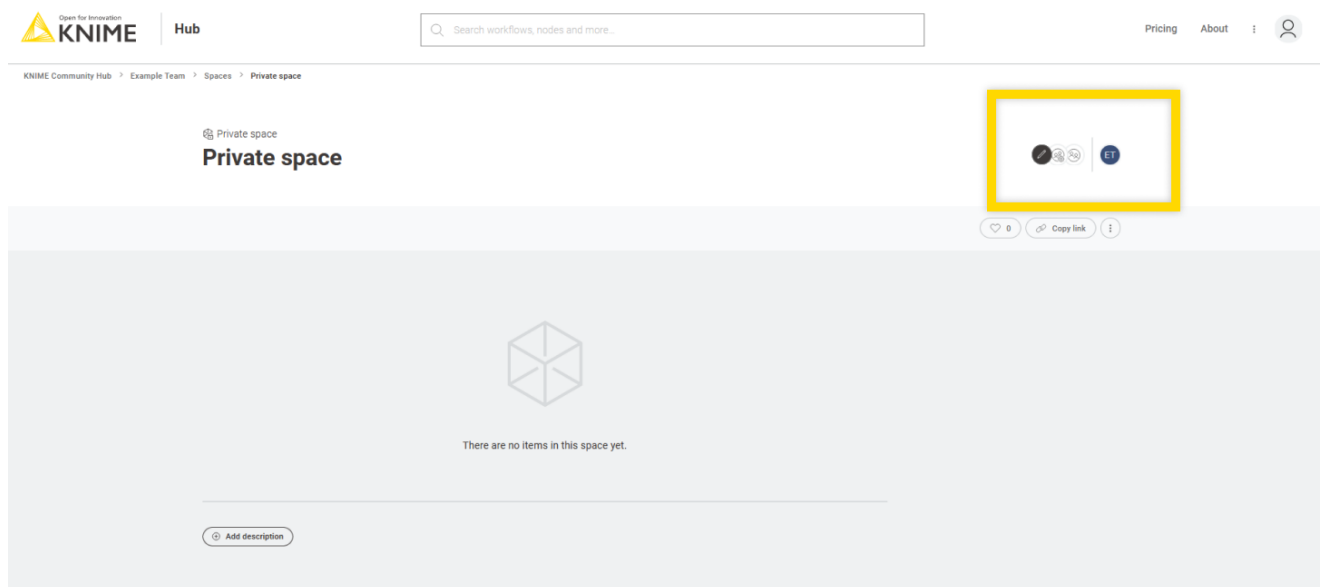


Figure 2. Open the Manage space access side panel

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.

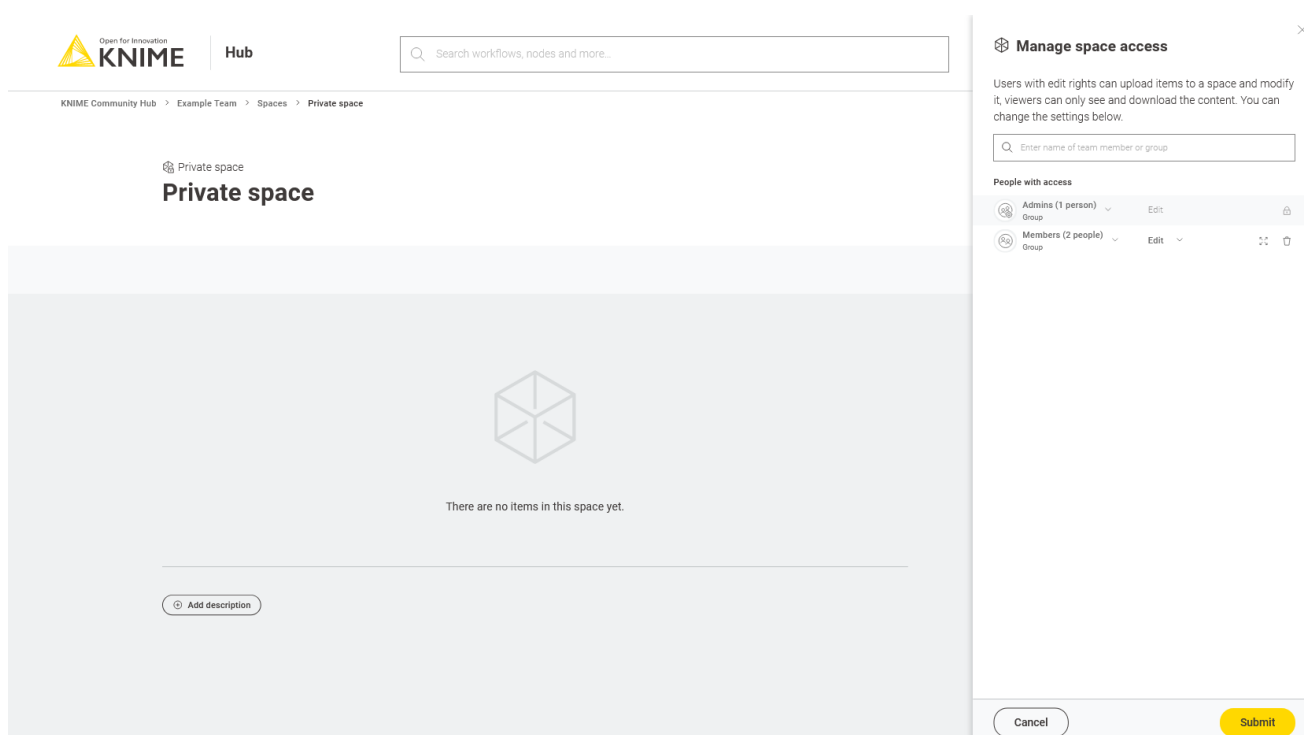


Figure 3. Manage the access to a space

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.

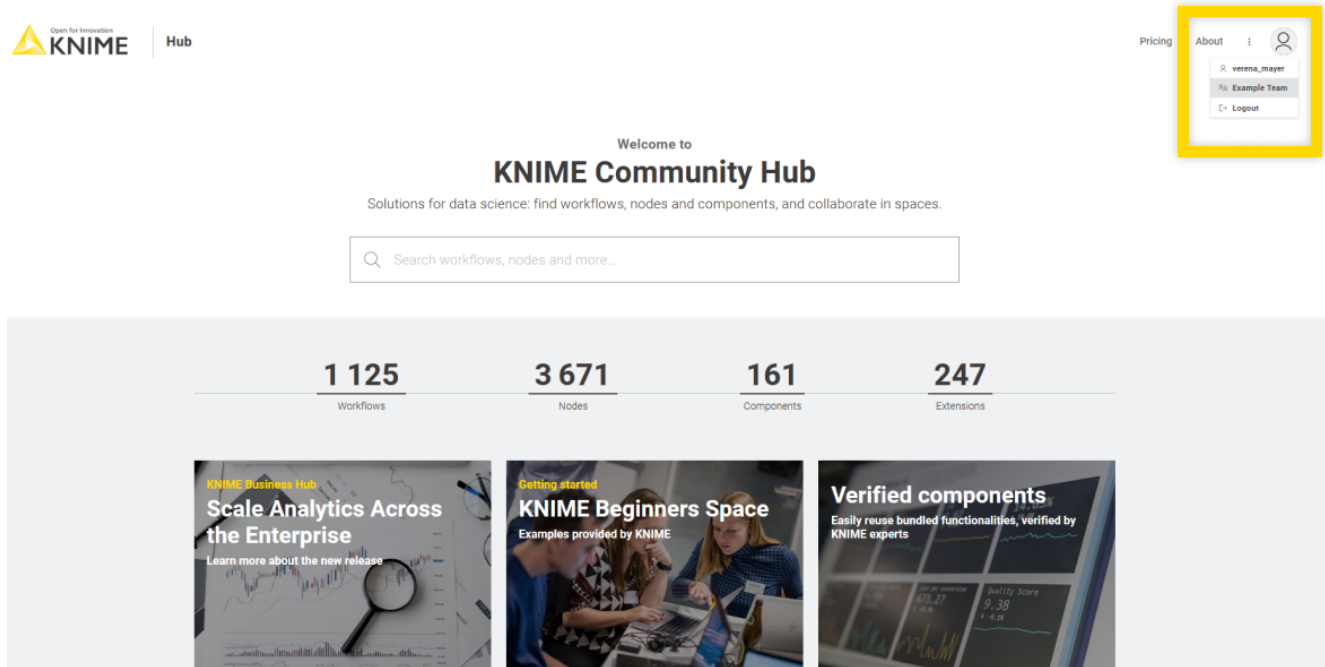


Figure 4. Select a team to go to the team's profile page

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.

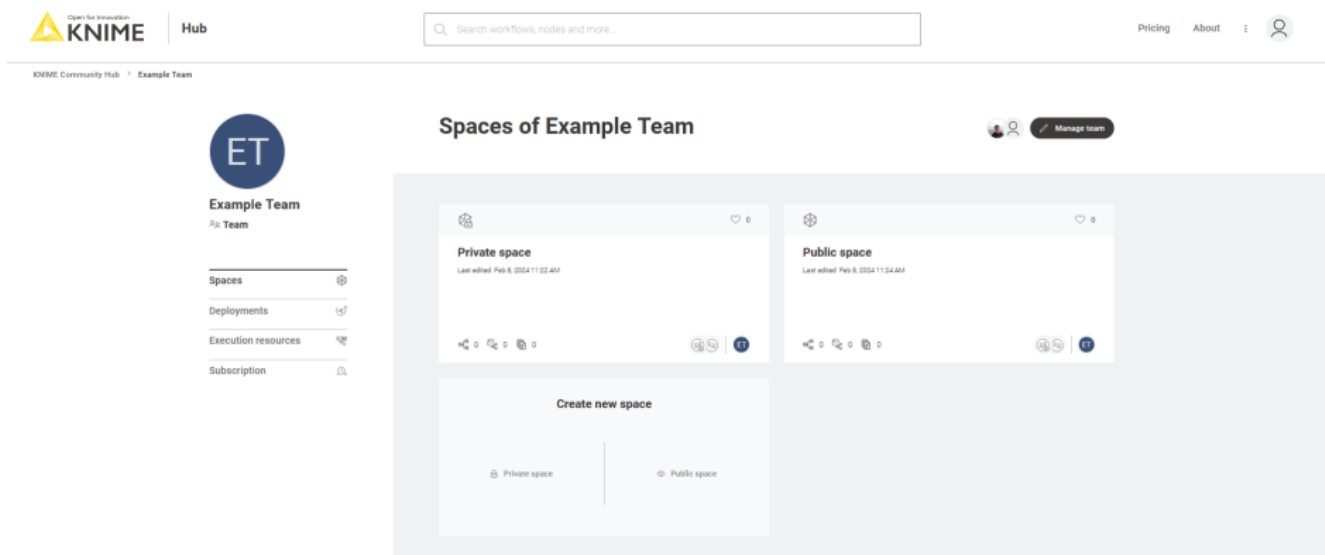


Figure 5. The team's profile page

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

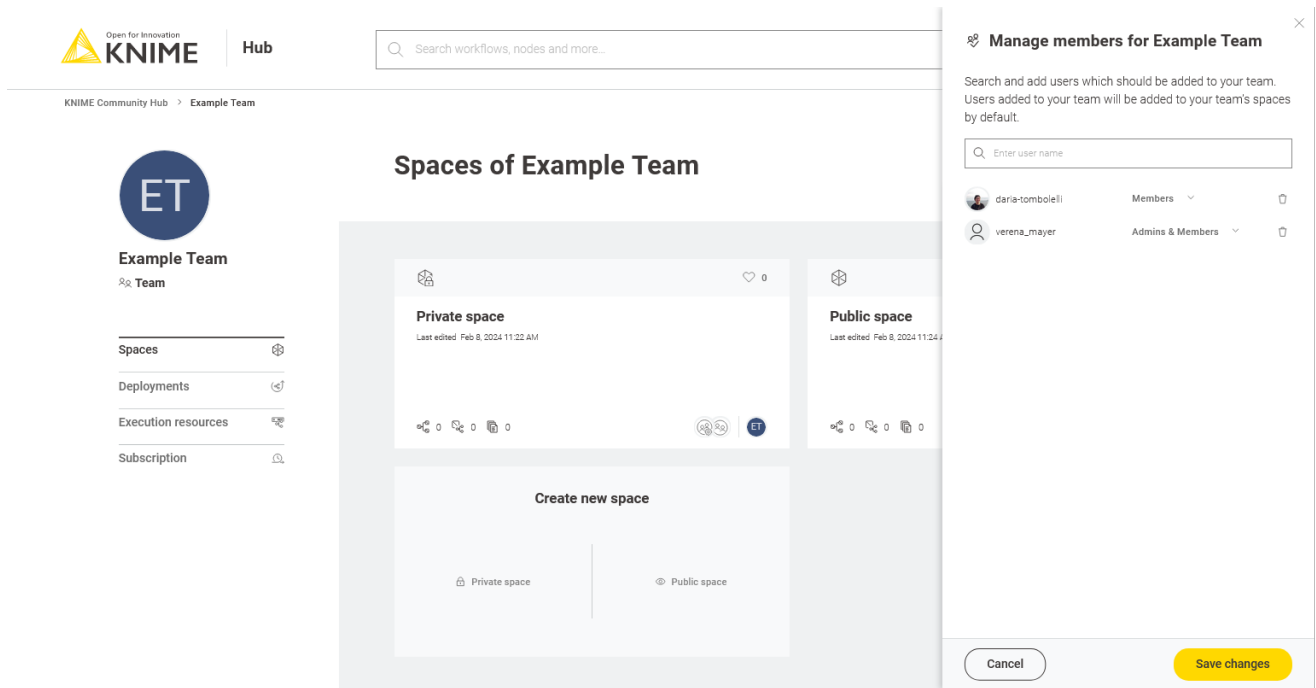


Figure 6. Manage team members

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.

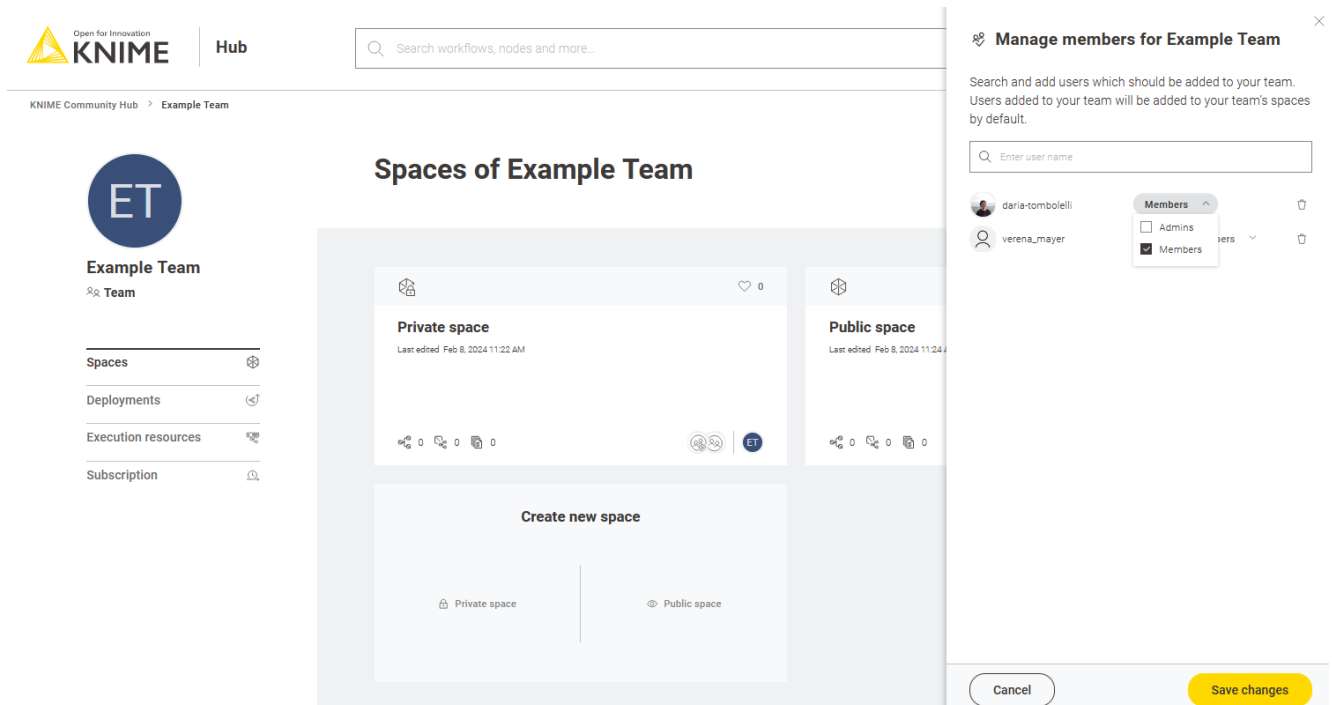


Figure 7. Manage team members roles

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.



For the user to show up in the search bar, the user needs to have logged in at least once to the KNIME Hub.

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.

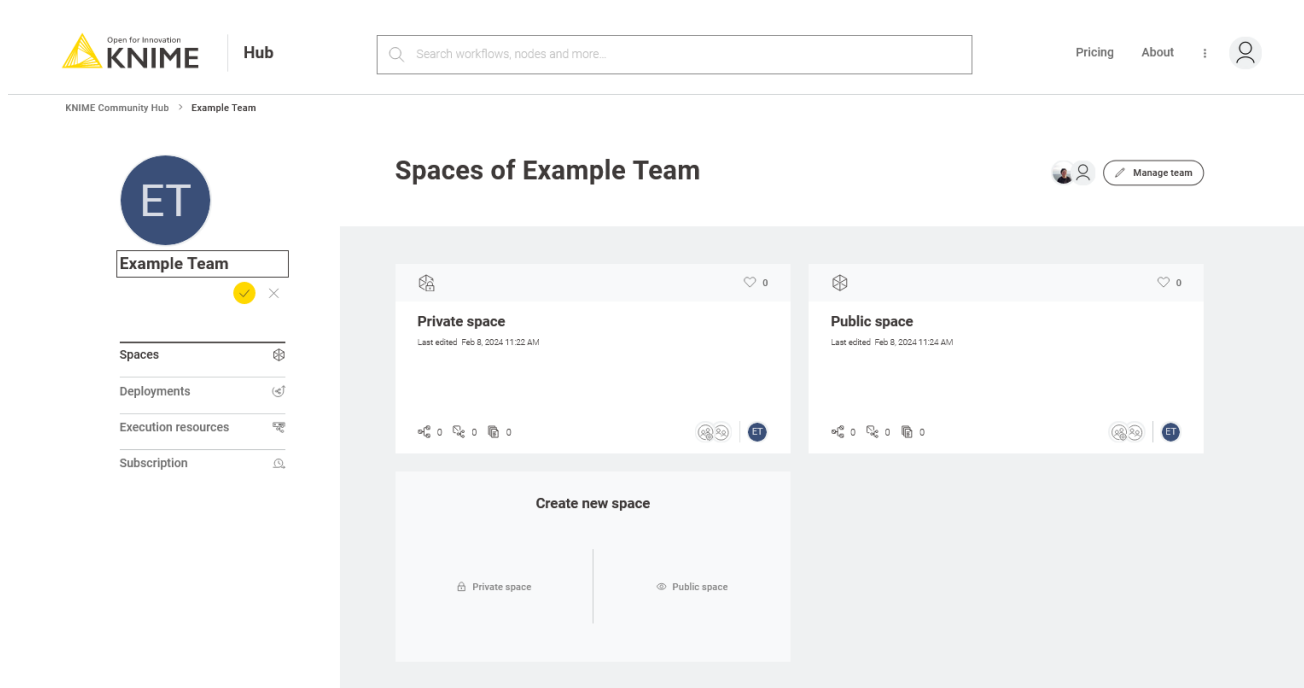


Figure 8. Change name of the team

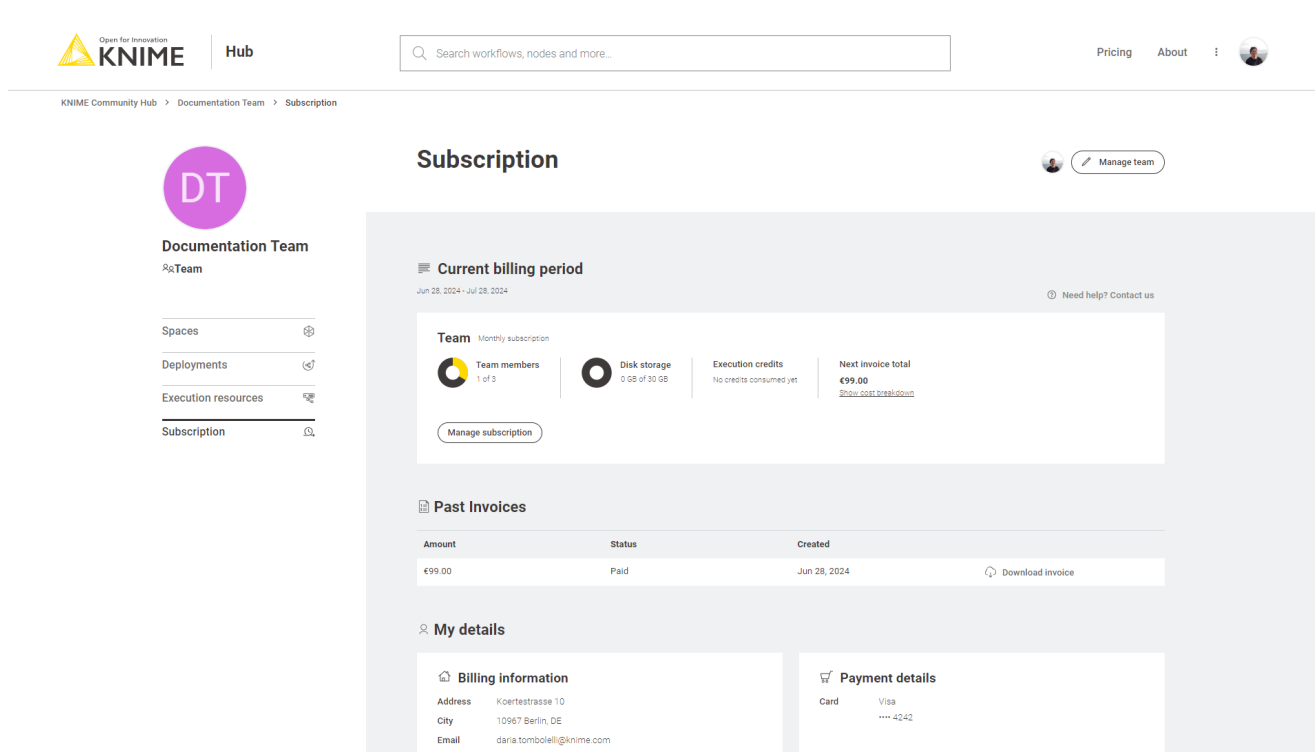
Insert the new name, and click the  button to confirm.

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.



The screenshot shows the 'Subscription' page for the 'Documentation Team' (DT). The page layout includes a top navigation bar with the KNIME logo, 'Hub', a search bar, and links for 'Pricing', 'About', and a user profile. A breadcrumb trail indicates the path: 'KNIME Community Hub > Documentation Team > Subscription'. On the left, a side menu lists 'Spaces', 'Deployments', 'Execution resources', and 'Subscription' (which is highlighted). The main content area is titled 'Subscription' and features a 'Current billing period' section for 'Jun 28, 2024 - Jul 28, 2024'. Below this, a 'Team' summary card shows 'Monthly subscription', 'Team members: 1 of 3', 'Disk storage: 0 GB of 30 GB', 'Execution credits: No credits consumed yet', and 'Next invoice total: €99.00'. A 'Manage subscription' button is present. The 'Past Invoices' section displays a table with one invoice: Amount €99.00, Status Paid, Created Jun 28, 2024, and a 'Download invoice' link. The 'My details' section is divided into 'Billing information' (Address: Koerttestrasse 10, City: 10967 Berlin, DE, Email: daria.tombolai@knime.com) and 'Payment details' (Card: Visa, **** 4242).

Figure 9. 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.

Connect to KNIME Community Hub and upload workflows

As a member of a team on KNIME Community Hub you will be able to upload items, for example workflows or components, to the spaces of your team.

This will allow you and all the other members of the team to have access to the items, version them so that you can collaborate on projects.

To do this the process is the same as for simple KNIME Community Hub users, that are not part of a team, as explained in the [KNIME Community Hub User Guide](#).

In the following sections you will find the fundamental steps that you need to do in order to connect, upload and version your workflows on the KNIME Community Hub.



The following steps assume that you have already [created an account](#) on KNIME Community Hub and that you are a member of a team.

Upload items to KNIME Hub

You can upload items to KNIME Hub:

- From the [web UI](#) of KNIME Community Hub, if the items are saved on your local computer.
- From a local [KNIME Analytics Platform](#), if the items are on your KNIME Analytics Platform local space.

Upload from KNIME Community Hub web UI

Go to [KNIME Community Hub](#), sign in with your username and password, then navigate to the space where you want to upload your workflow (.knwf file) or file to. Click the *Upload* button and select the file you want to upload to the space from your local filesystem.

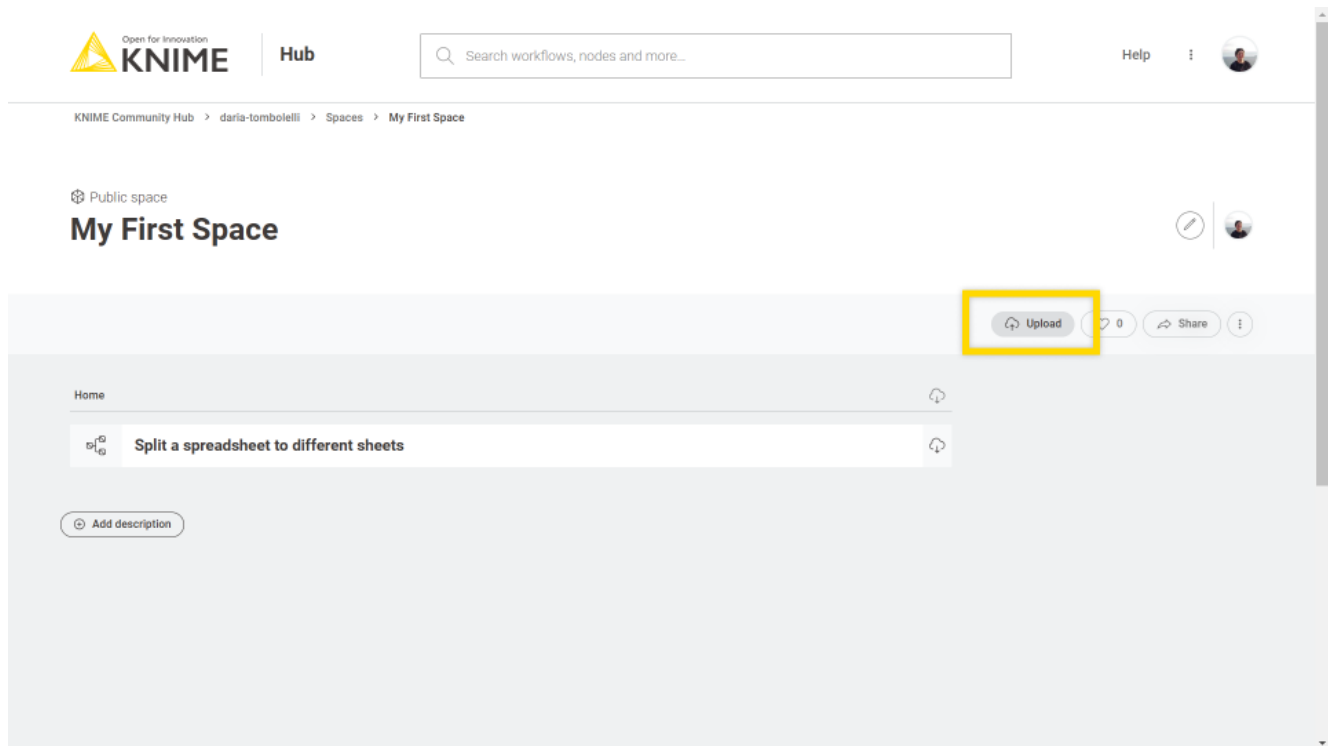


Figure 10. Upload a local item to KNIME Hub via web UI

Upload from KNIME Analytics Platform

- **Connect to the KNIME Community Hub from KNIME Analytics Platform:** The first step is to connect to your KNIME Community 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.

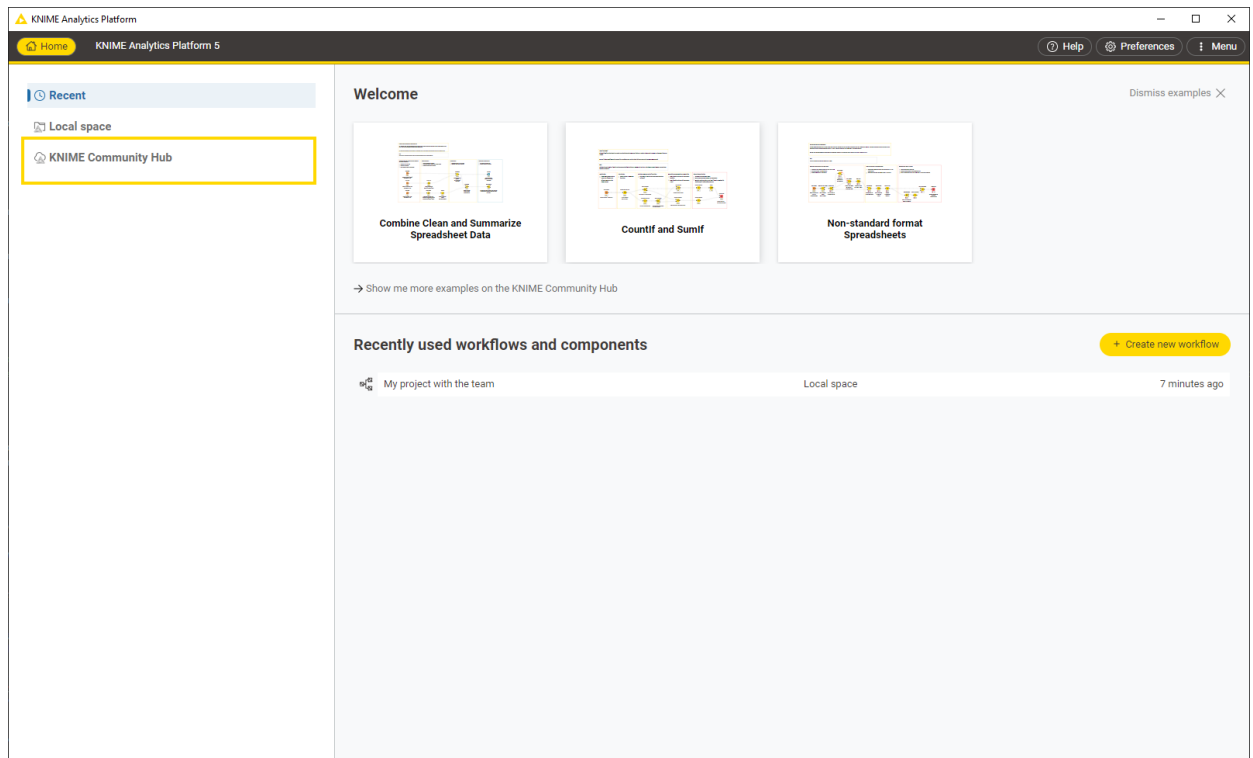


Figure 11. Connect to KNIME Hub from KNIME Analytics Platform

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 and the spaces of your team.

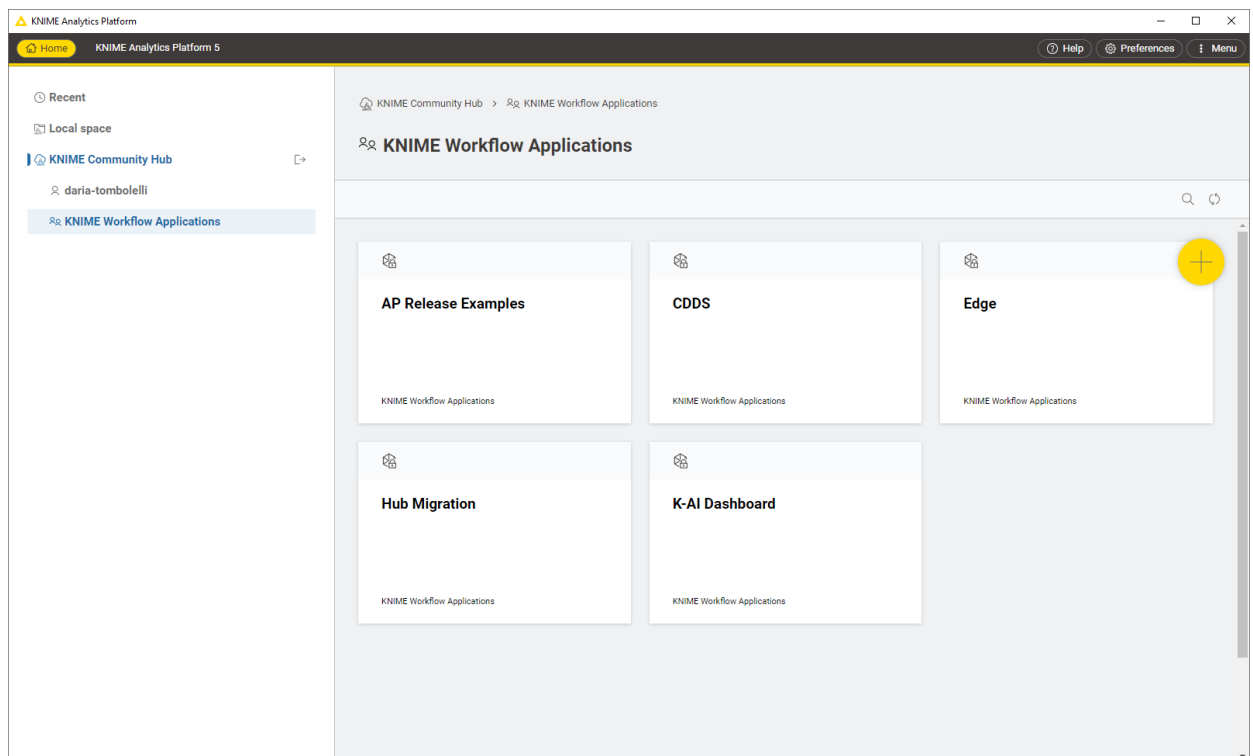


Figure 12. A user connected to KNIME Hub from KNIME Analytics Platform

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.
- 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.

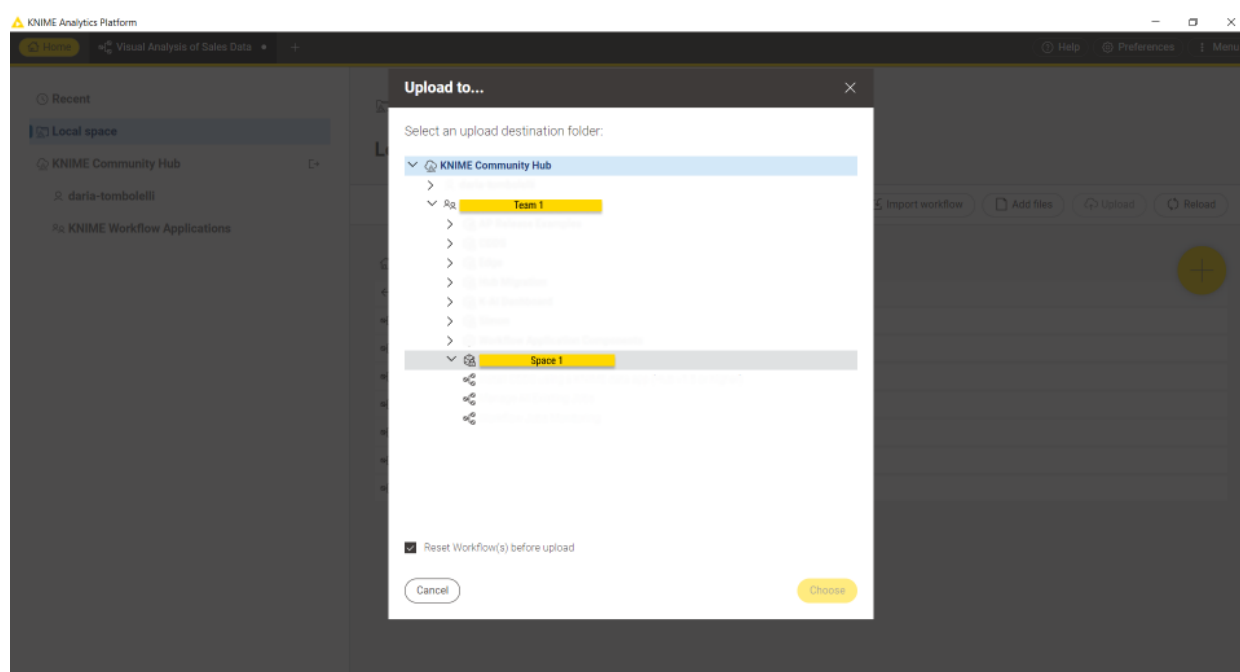


Figure 13. Upload a local item to your KNIME Community Hub team



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**.

The screenshot displays the KNIME Hub interface for a workflow titled "Sentiment Analysis (Classification) of Documents". The workflow is currently in a "Draft" state, with the latest edit timestamped as "Feb 1, 2024 11:44 AM". A yellow box highlights the "Versions" button in the top right corner of the workflow area. To the right, the "Versions history" panel is open, showing a "Draft" version with the same timestamp and a "Create version" button. The workflow itself is a "Topic Detection Analysis - Movie Reviews" workflow, which includes steps for "Data Reading", "Pre-processing", "Topic Detection", and "Grouping". The workflow diagram shows a "CSV Reader" node connected to a "Document Creation and document pre-processing" node, which then connects to a "Topic Extractor (Parallel LDA)" node, and finally to a "GroupBy" node. A "Try this:" box provides instructions for configuring the "Topic Extractor (Parallel LDA)" node.

Figure 14. 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 a "CSV Reader" node, a "Document Creation and document pre-processing" node, a "Topic Extractor (Parallel LDA)" node, and a "GroupBy" node. A versions history panel on the right lists two versions: "v2" (Testing 2) and "v1" (Testing). The "v1" version is highlighted with a yellow box, and a tooltip shows options: "Show this version", "Restore this version", and "Delete this version".

Figure 15. 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*.

KNIME Community Hub > verena_mayer > Spaces > My private Sandbox > Topic Detection Based on Movie Reviews

Workflow: 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.

version 2

CSV Reader

Transformation of strings to documents

Document Creation and document pre-processing

Topic Extractor (Parallel LDA)

4 words for 8 topics

GroupBy

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 extract in the document

Conc terms for topics

Overview
Used extensions & nodes
Legal

Versions history

- v2
Testing 2
Created on Feb 1, 2024 2:51 PM - Version 3
- v1
Testing
Created on Feb 1, 2024 2:01 PM - Version 1

Show this version
Restore this version
Delete this version

Figure 16. Restore the workflow as a draft

The version will be restored as a draft.

Delete a version



The possibility to delete created versions is available only for the team admins, for workflows that are uploaded to a team space.

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

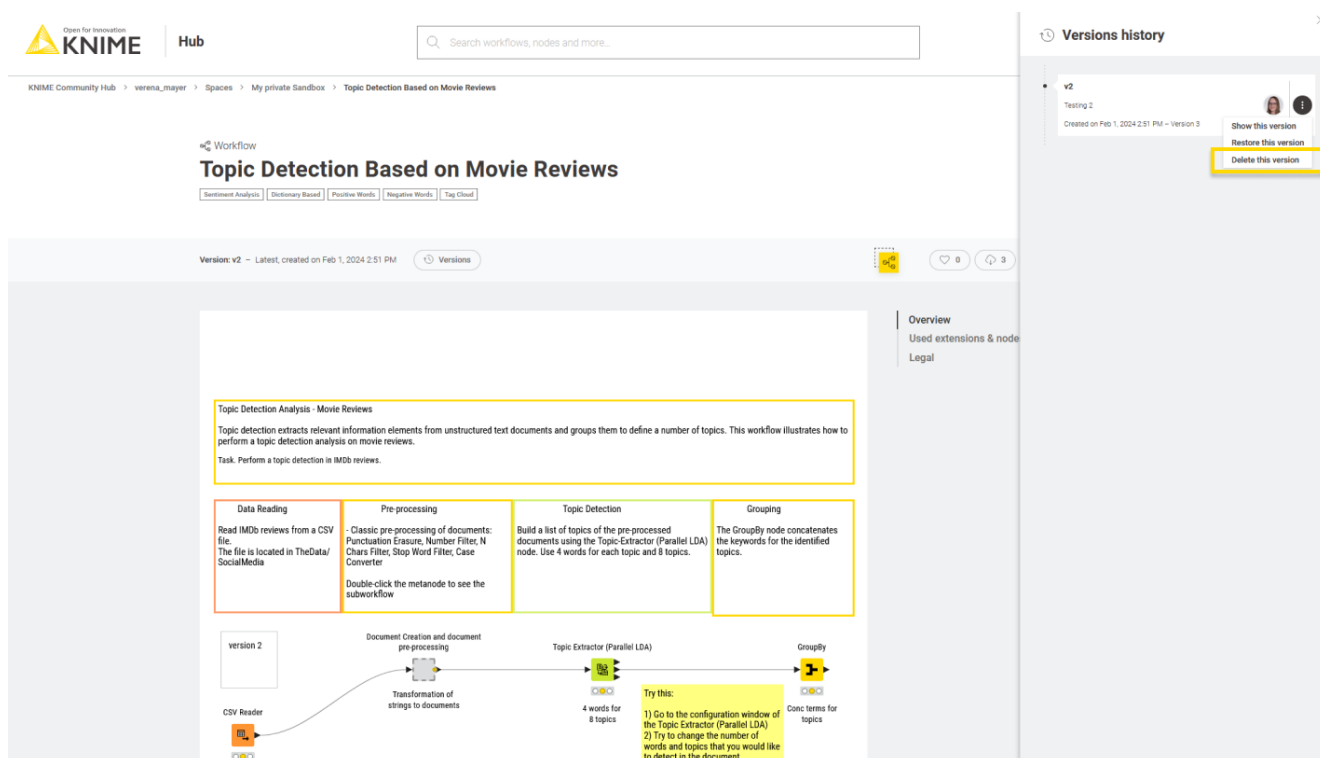


Figure 17. Delete a version

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**.

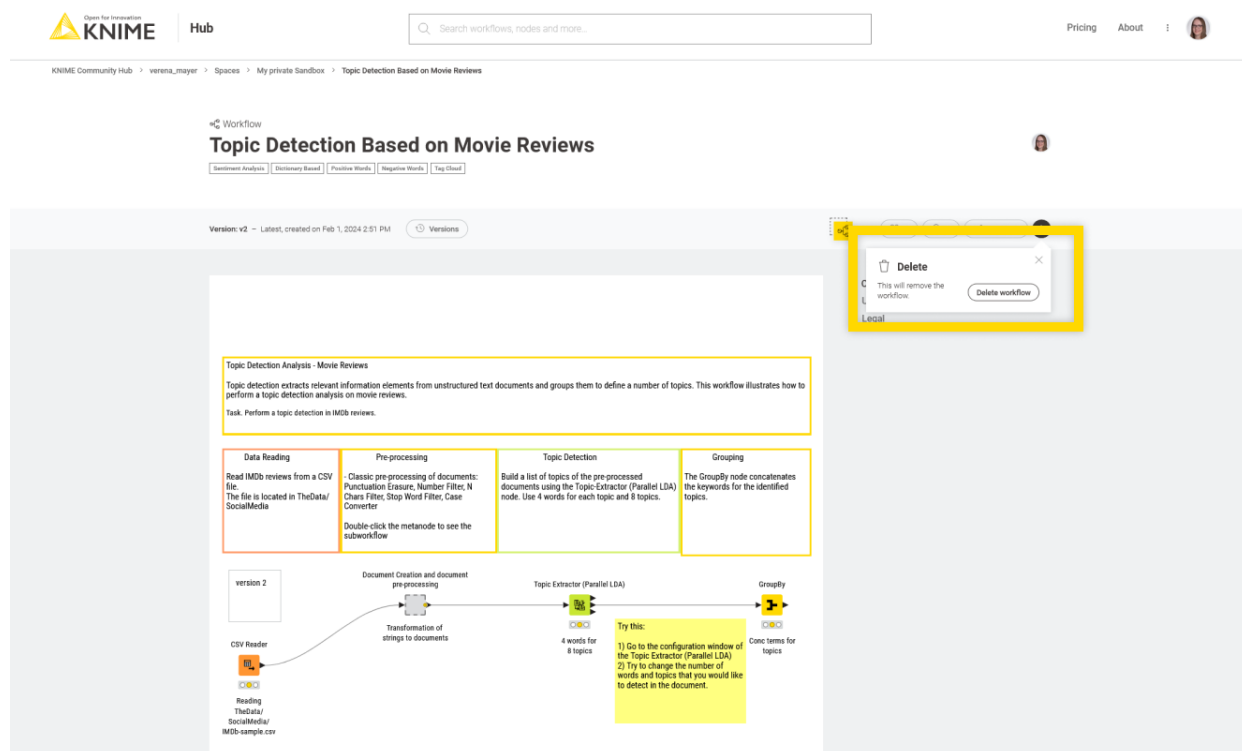


Figure 18. Delete a workflow from KNIME Hub

Application passwords

Application passwords can be used to provide authentication to KNIME Hub API, for example when using a KNIME Hub Authenticator node. To create a new application password you can go to your profile page and select *Settings* → *Application passwords* from the menu on the left.

Click *Create application password* and a side panel will show.

Here you can give a name in order to keep track of the application password purpose. Then click *Apply*. The ID and the password will be shown only once. You can copy them and use it as username and password in the base authentication when you want to execute a deployed REST service.

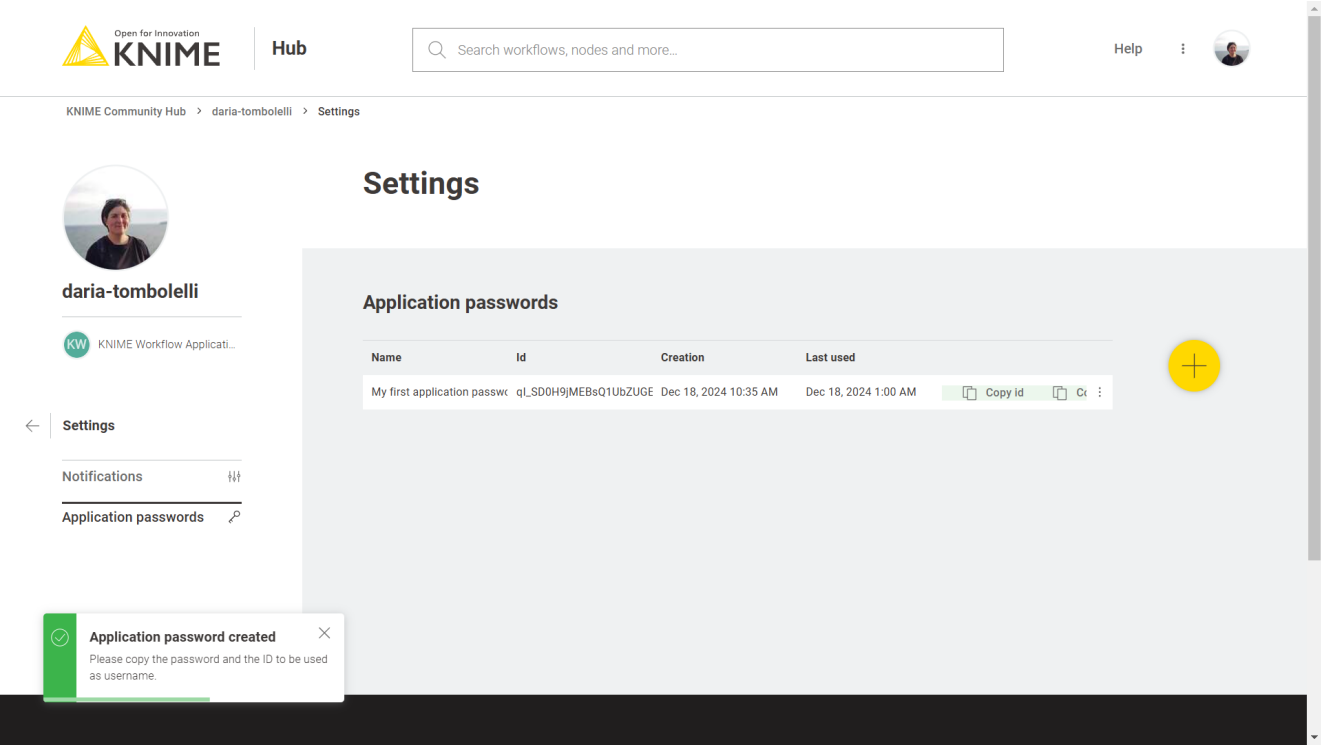


Figure 19. Application passwords

From this page you can also click the  icon and click *Delete* from the menu that opens, in order to delete a specific application password.

Execution of workflows

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.

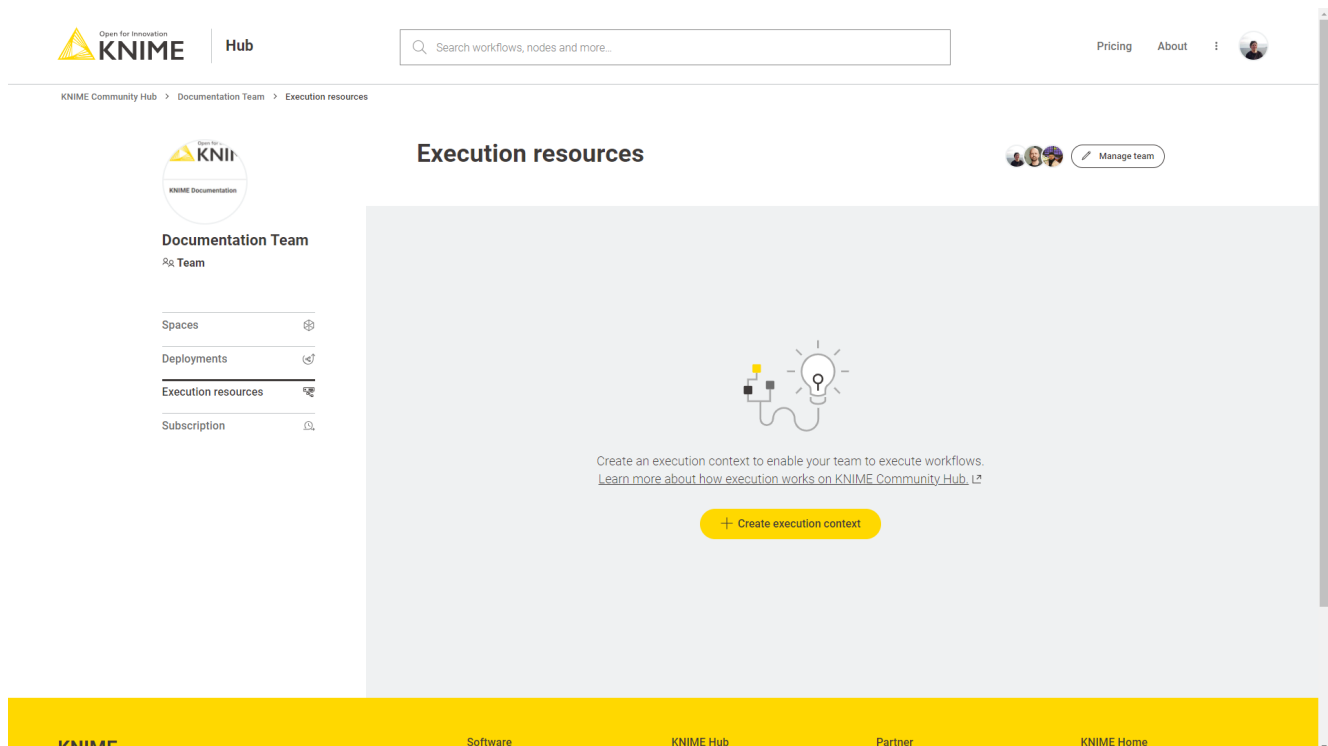


Figure 20. Start by creating an execution context

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

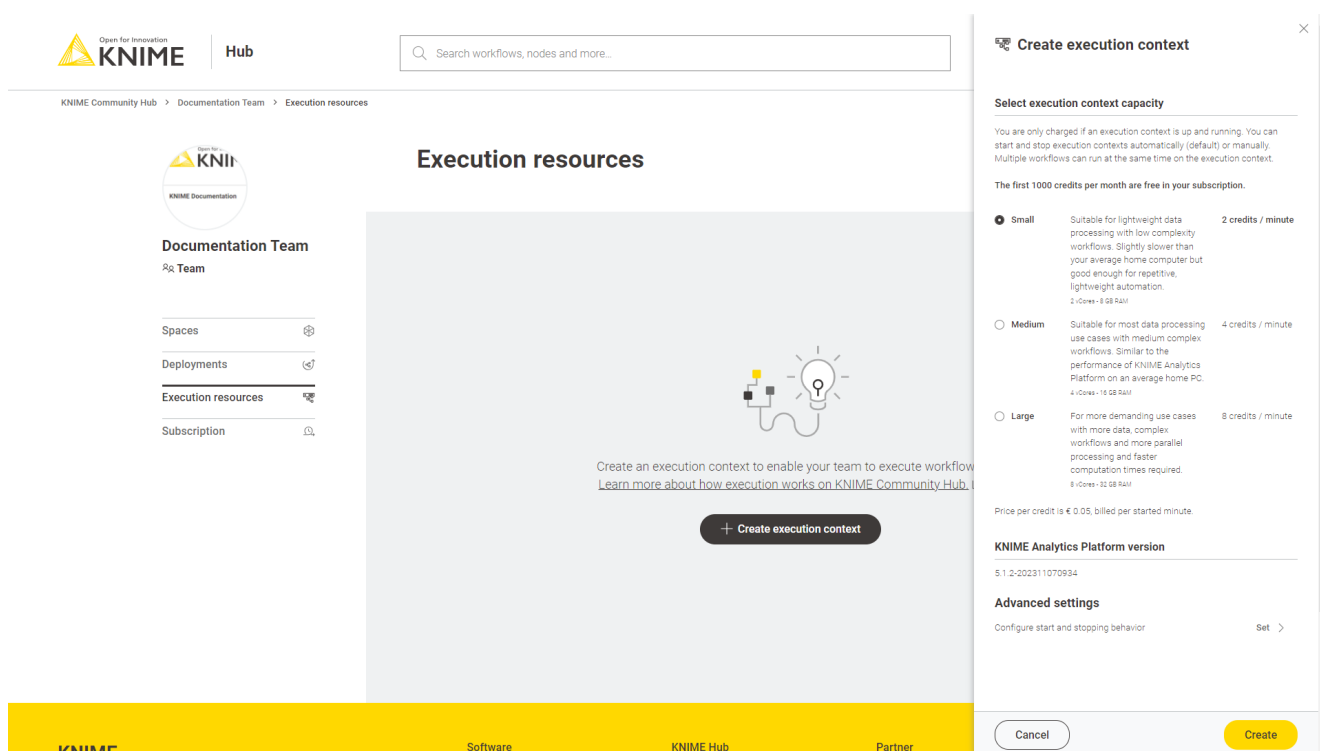


Figure 21. Create an execution context for your team

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 or an **executed workflow is being inspected**. The execution

context will then stop automatically once all the workflows executions are finished and no **executed workflow is being inspected**.

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](#).

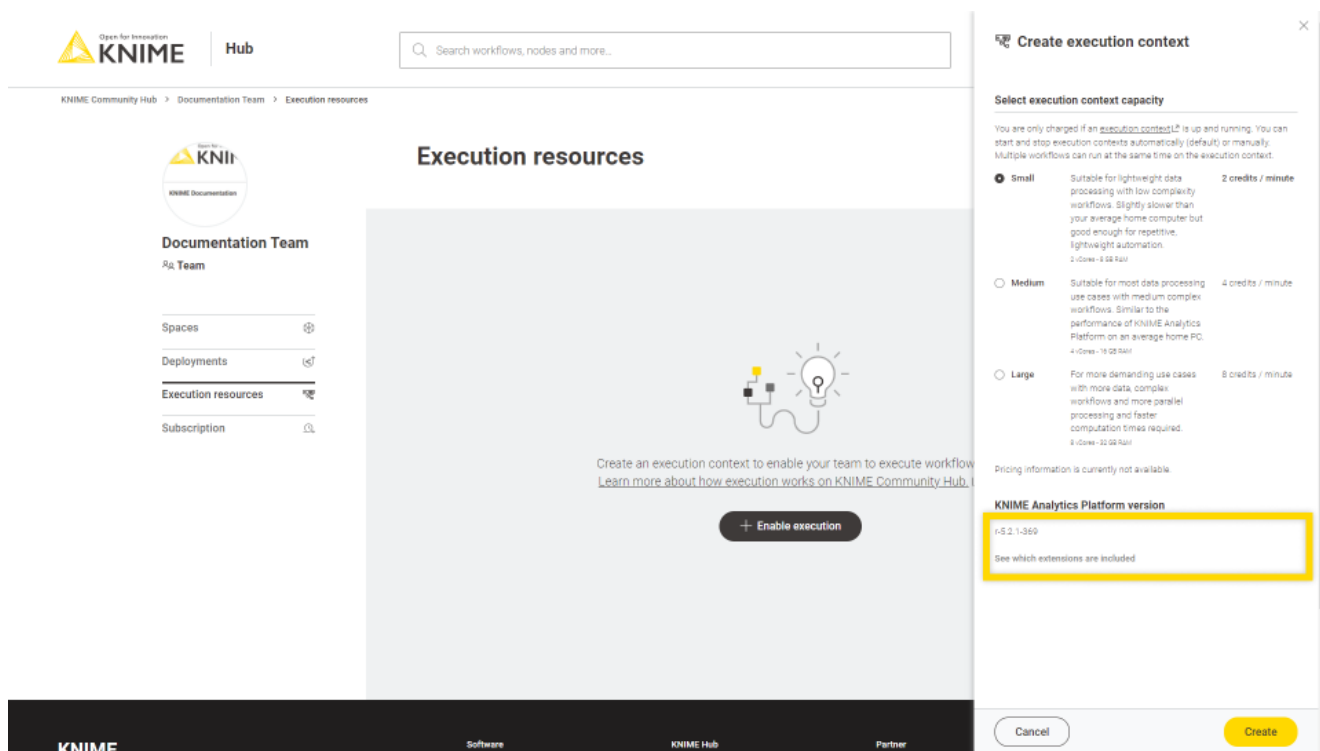


Figure 22. The executor version provided by us

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.

Subscription

Current billing period
Feb 14, 2024 - Mar 14, 2024

Team Monthly subscription		Next invoice total
Team members 1 of 4	Disk storage limit 40 GB	€150.30 Hide cost breakdown
Execution credits 6 consumed		
Cost breakdown		
Team plan (3 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

[Manage subscription](#) [End your subscription now](#)

My details

Billing information

Address Koertrasse 10

City 10967 Berlin, DE

Email daria.fombolelli@knime.com

Payment details

Card XXXX XXXX XXXX 4242

[Edit](#)

Figure 23. 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.

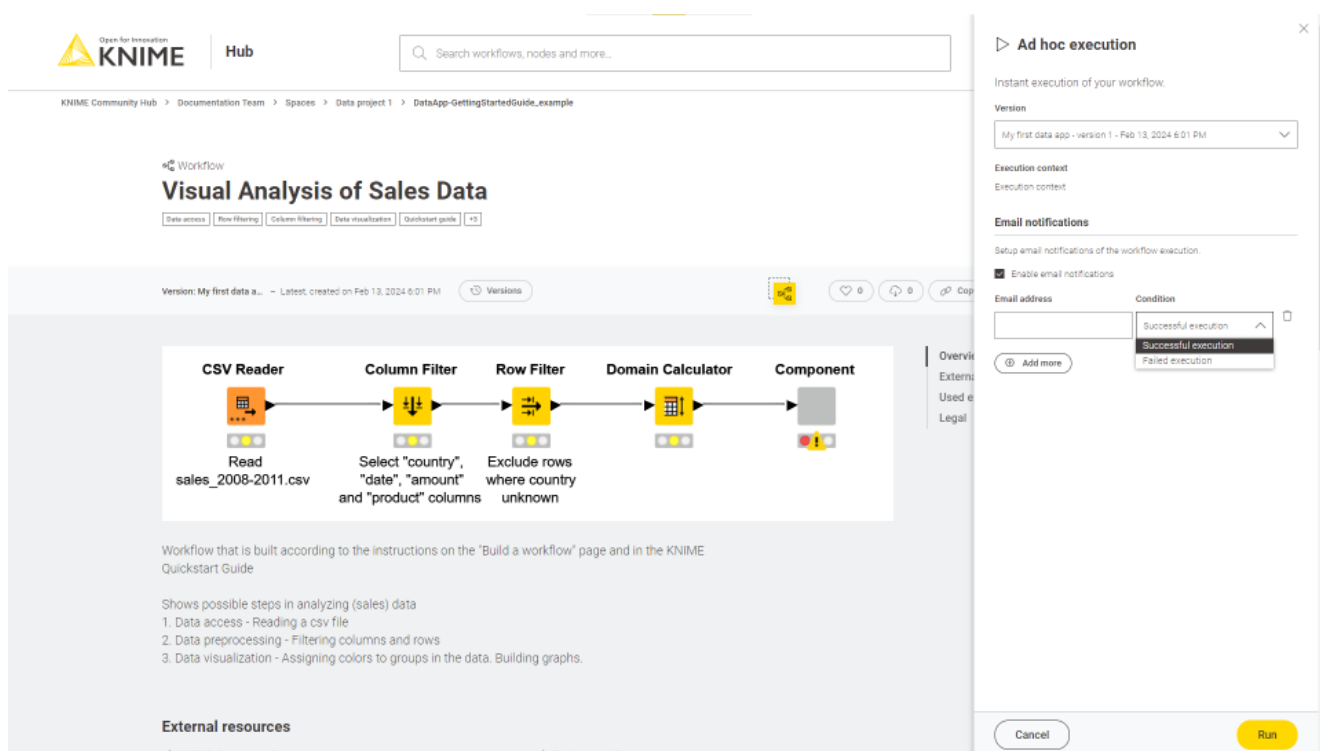


Figure 24. The ad hoc execution side panel

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.

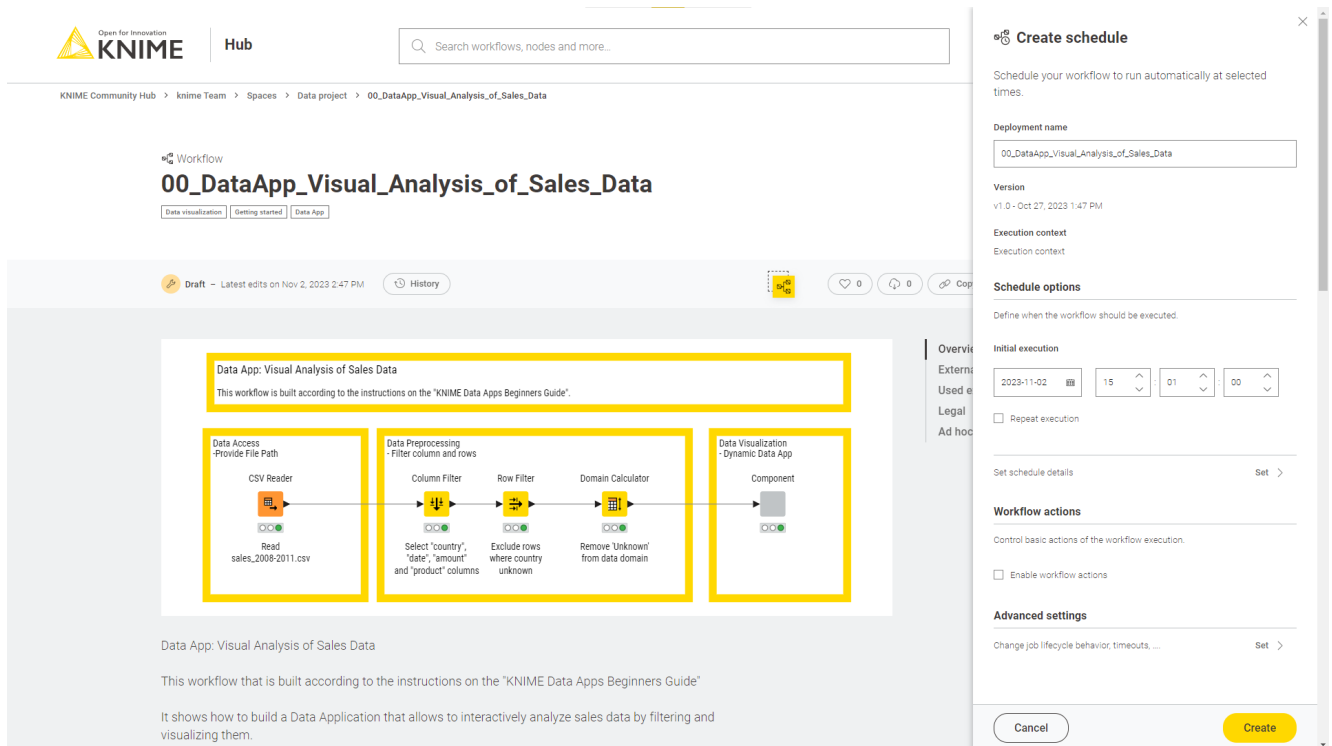


Figure 25. The create schedule side panel

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

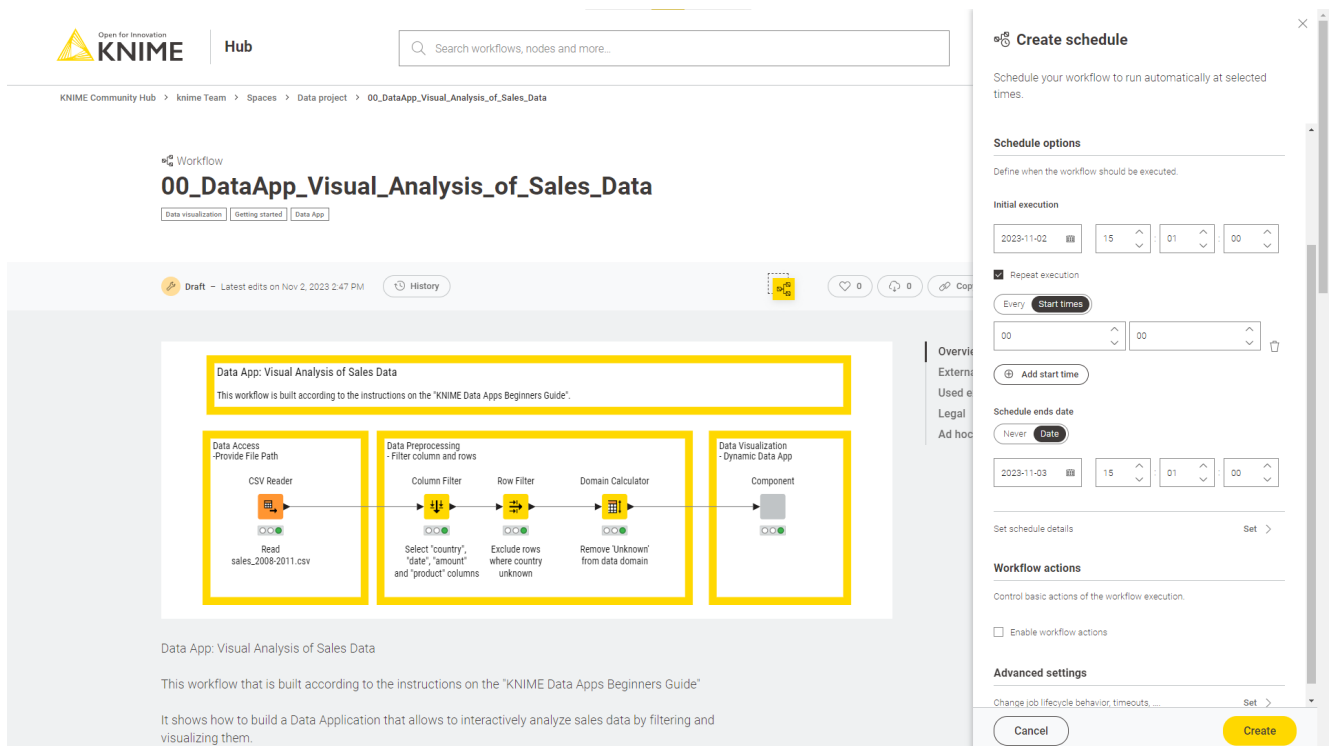


Figure 26. The create schedule side panel: schedule options section.

i

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 Data App interface for '00_DataApp_Visual_Analysis_of_Sales_Data'. The main workflow is outlined in yellow and consists of the following steps:

- Data Access - Provide File Path:** CSV Reader (Read sales_2008-2011.csv)
- Data Preprocessing - Filter column and rows:** Column Filter (Select 'country', 'date', 'amount' and 'product' columns), Row Filter (Exclude rows where country unknown), Domain Calculator (Remove 'Unknown' from data domain)
- Data Visualization - Dynamic Data App:** Component

The 'Create schedule' side panel is open on the right, showing the 'Recurring on' section. It includes a 'Days of the week' selector (M, T, W, T, F, S, S), a calendar for selecting days, and a 'Months' selector (Jan, Feb, Mar, Apr, May, Jun, Jul, Aug, Sep, Oct, Nov, Dec). The 'Execution retries' section is also visible, with a dropdown set to 0 and checkboxes for 'Reset before execution', 'Skip execution if previous job is still running', and 'Disable schedule'.

Figure 27. 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*.



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

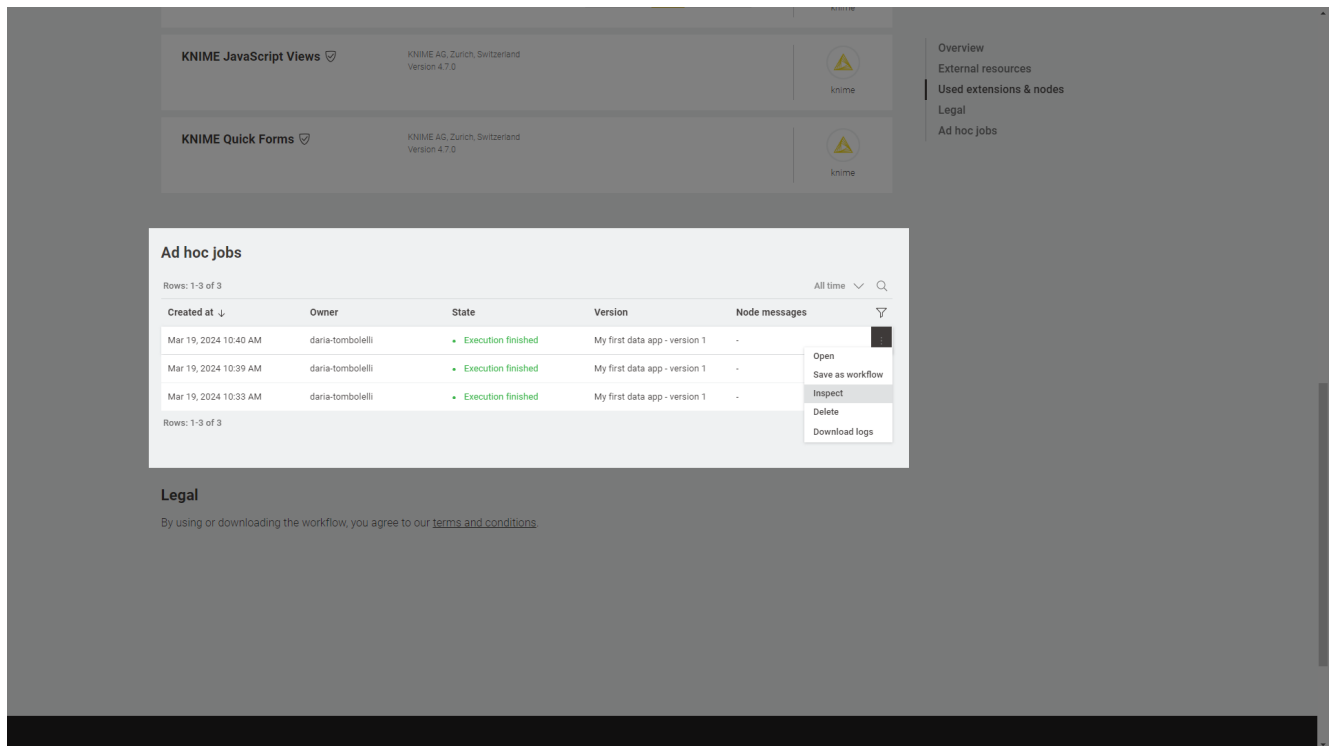


Figure 28. Select *Inspect* from the menu to check the status of the execution

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.

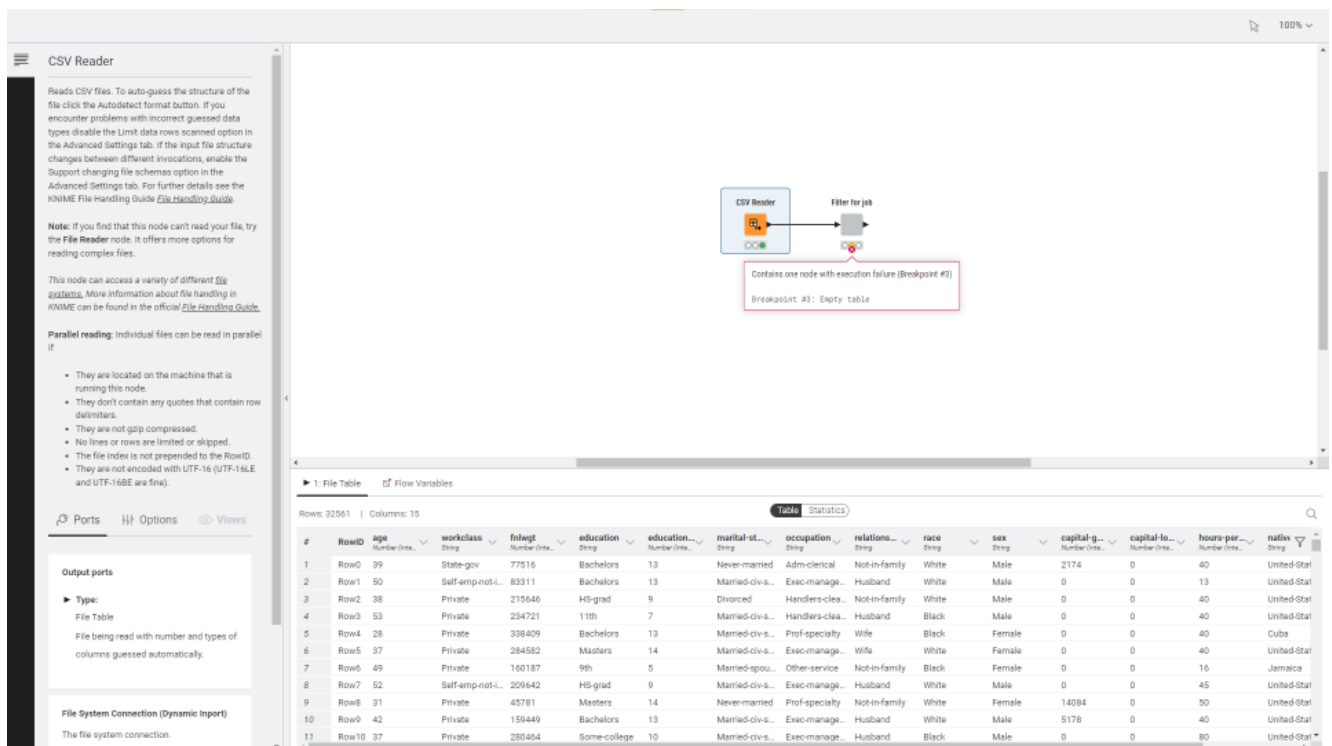


Figure 29. Inspect node messages and data at the output port of a node

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

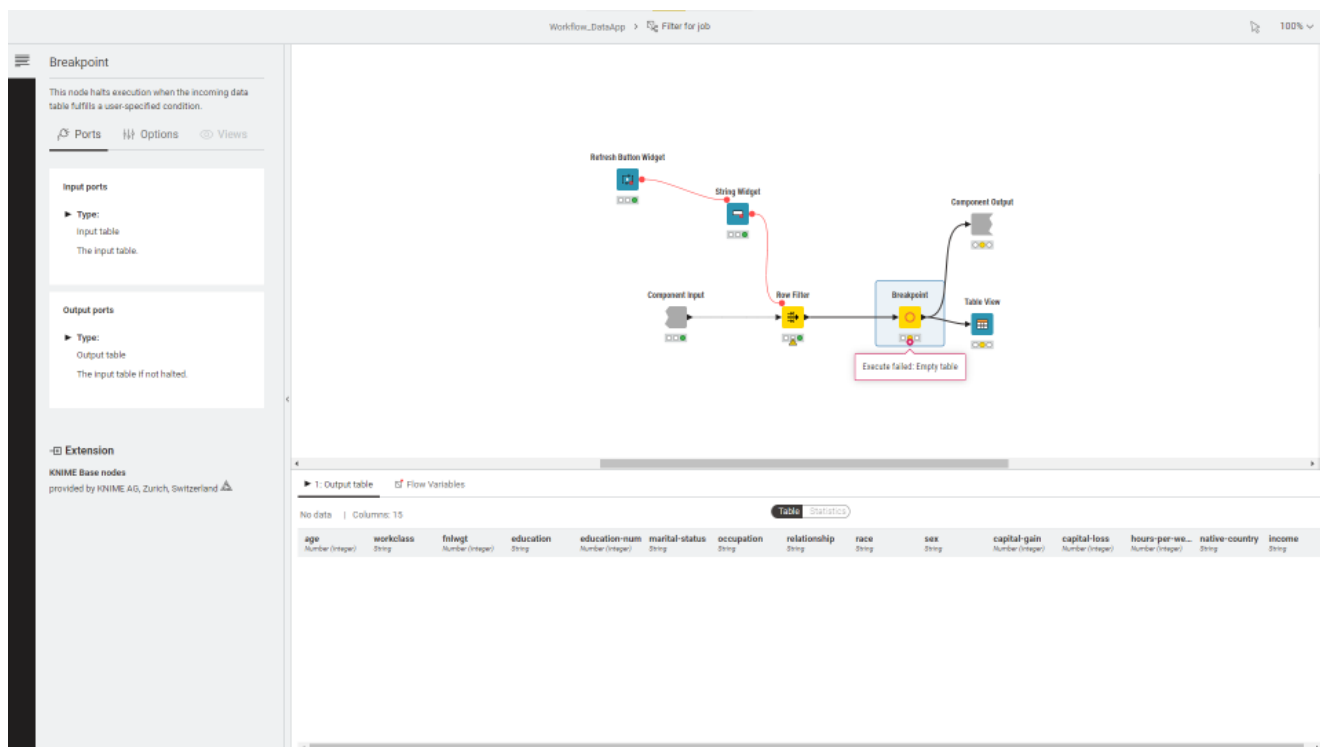


Figure 30. Navigate inside components and metanodes to inspect the incapsulated nodes

Extensions available for execution on KNIME Community Hub

All the extensions in the following list are available to run workflows on KNIME Community Hub.

- KNIME Expressions
- 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 BigQuery
- 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 Timeseries (Labs)
- 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
- KNIME Giskard Extension
- KNIME Presidio Extension
- RDKit Nodes Feature
- Vernalis KNIME Nodes
- Slack integration
- Continental Nodes for KNIME
- Lhasa public plugin



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

Access data from different sources

This section provides information on how to build your workflows to connect to different data sources and which kind of authentication method is recommended for a particular data source, to then run the workflows ad hoc or schedule them on a Team plan on KNIME Community Hub.

Access data from Google Cloud

Refer to the [KNIME Google Cloud Integration User Guide](#) to know how to create an API Key and to learn more about the general usage of the Google Authenticator node.

To access data from Google Cloud the first step when building your workflow is to use a Google Authenticator node. One of the possibilities is then to use the API Key authentication method. When using the API Key authentication method in the Google Authenticator node, the API key file will need to be stored somewhere where it is accessible to the node in order for the execution to be successful.

For example, if your folder structure on the KNIME Community Hub (KCH) looks something like the one below, meaning that your API Key file is stored in the following path:

```
<space> -> <folder> -> <api-key.fileformat>
```

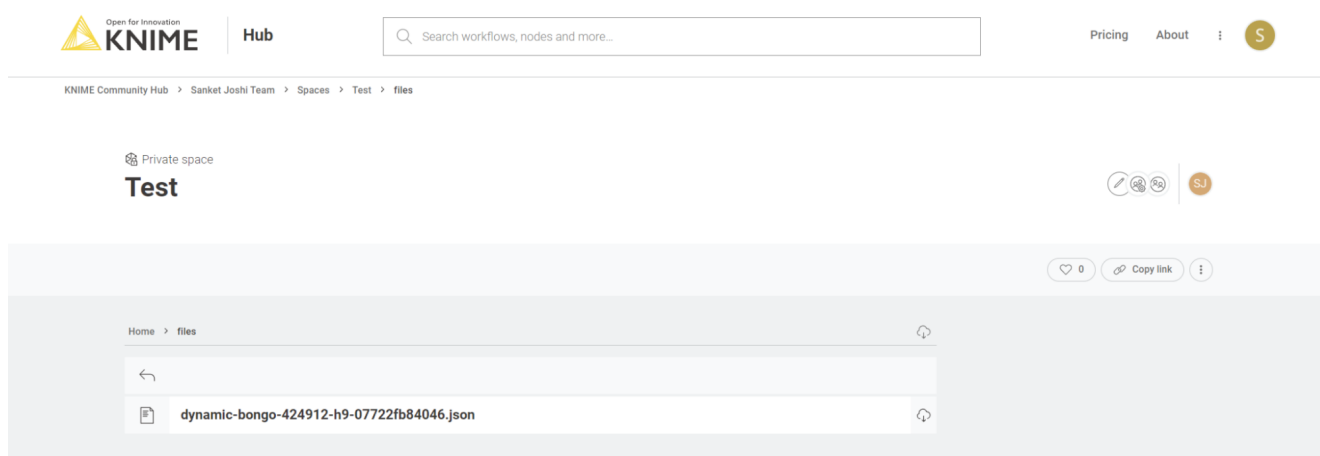
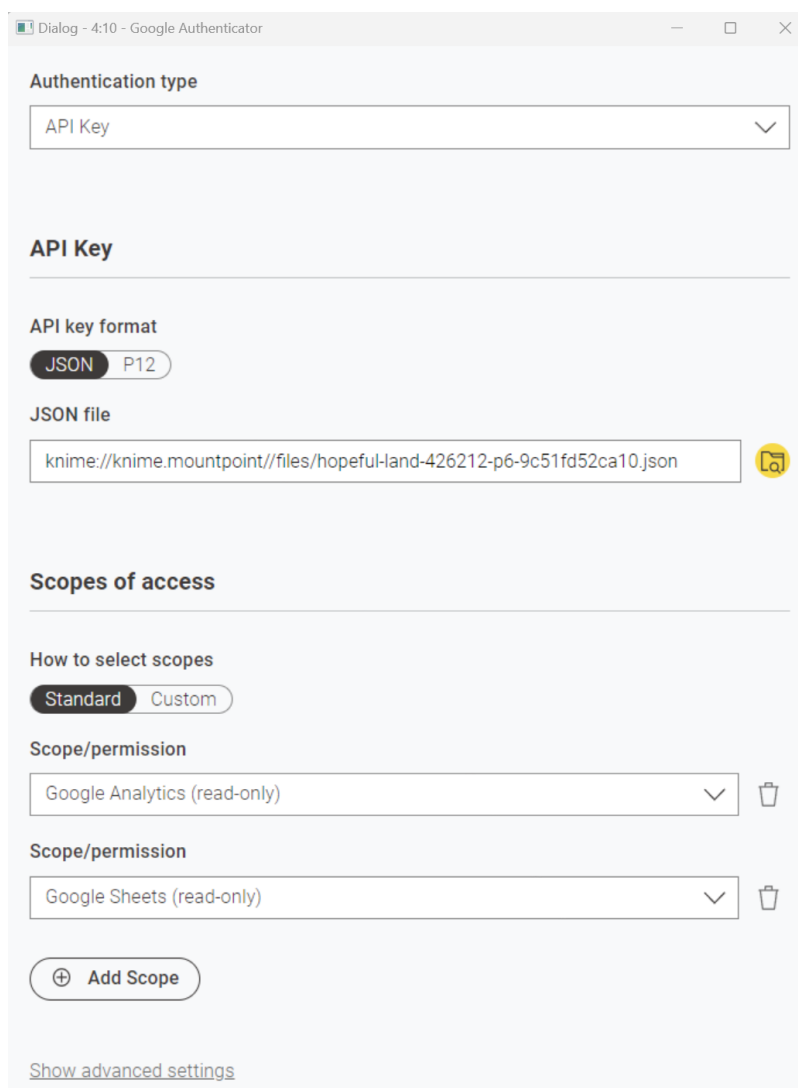


Figure 31. Example folder structure for API Key file storage

then, you can access the API key using either one of the following paths in the Google Authenticator node configuration dialog.

- **Mountpoint relative:**

```
knime://knime.mountpoint//<folder>/<api-key.fileformat>
```

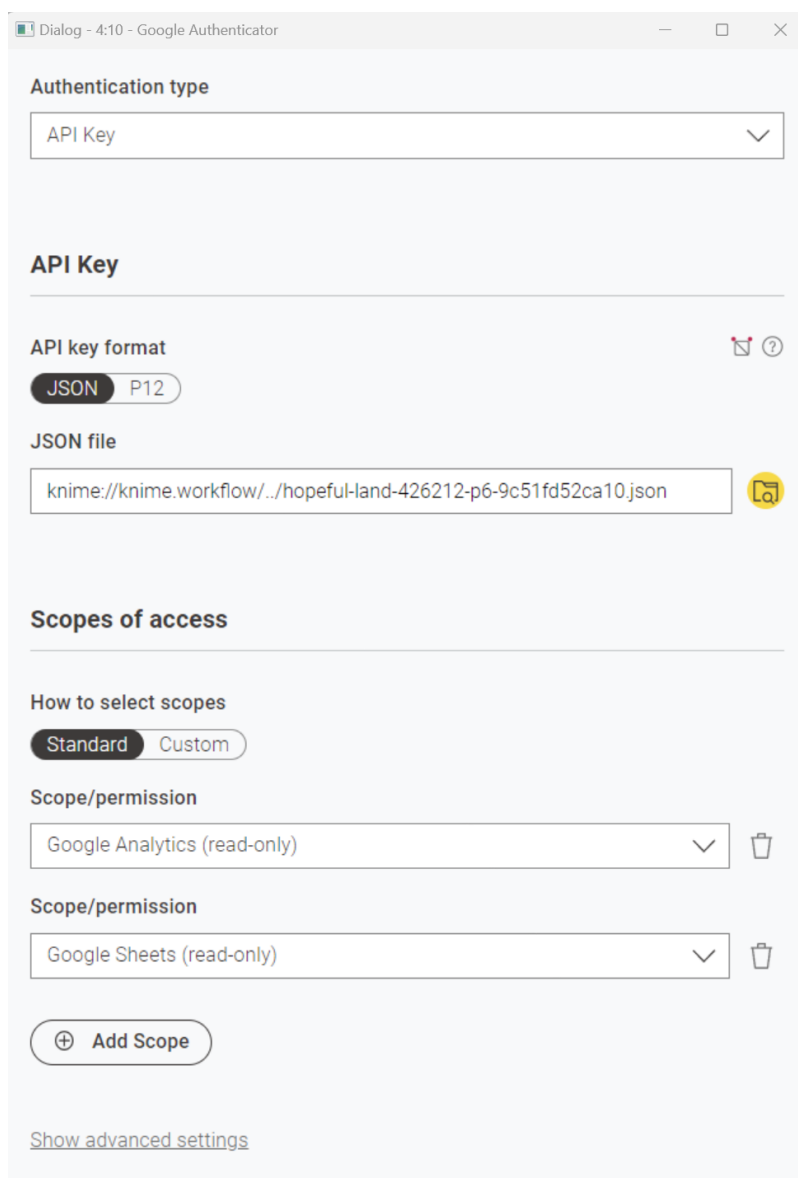


The screenshot shows a 'Dialog - 4:10 - Google Authenticator' window. It has a title bar with standard window controls. The main content is divided into sections: 'Authentication type' with a dropdown menu set to 'API Key'; 'API Key' section with 'API key format' buttons for 'JSON' (selected) and 'P12'; 'JSON file' with a text input field containing 'knime://knime.mountpoint/files/hopeful-land-426212-p6-9c51fd52ca10.json' and a file icon button; 'Scopes of access' section with 'How to select scopes' buttons for 'Standard' (selected) and 'Custom'; two 'Scope/permission' dropdown menus, both set to 'Google Analytics (read-only)' and 'Google Sheets (read-only)' respectively, each with a trash icon; an 'Add Scope' button with a plus icon; and a 'Show advanced settings' link at the bottom.

Figure 32. Configuration dialog of Google Authenticator for mountpoint relative path

- **Workflow relative:**

```
knime://knime.workflow/../../<api-key.fileformat>
```



The screenshot shows a 'Dialog - 4:10 - Google Authenticator' window. It has a title bar with standard window controls. The main content is divided into sections: 'Authentication type' with a dropdown menu set to 'API Key'; 'API Key' section with 'API key format' buttons for 'JSON' (selected) and 'P12'; 'JSON file' with a text input field containing the path 'knime://knime.workflow/ ../hopeful-land-426212-p6-9c51fd52ca10.json' and a file icon; 'Scopes of access' section with 'How to select scopes' buttons for 'Standard' (selected) and 'Custom'; a list of 'Scope/permission' items including 'Google Analytics (read-only)' and 'Google Sheets (read-only)', each with a dropdown and a trash icon; an 'Add Scope' button with a plus icon; and a 'Show advanced settings' link at the bottom.

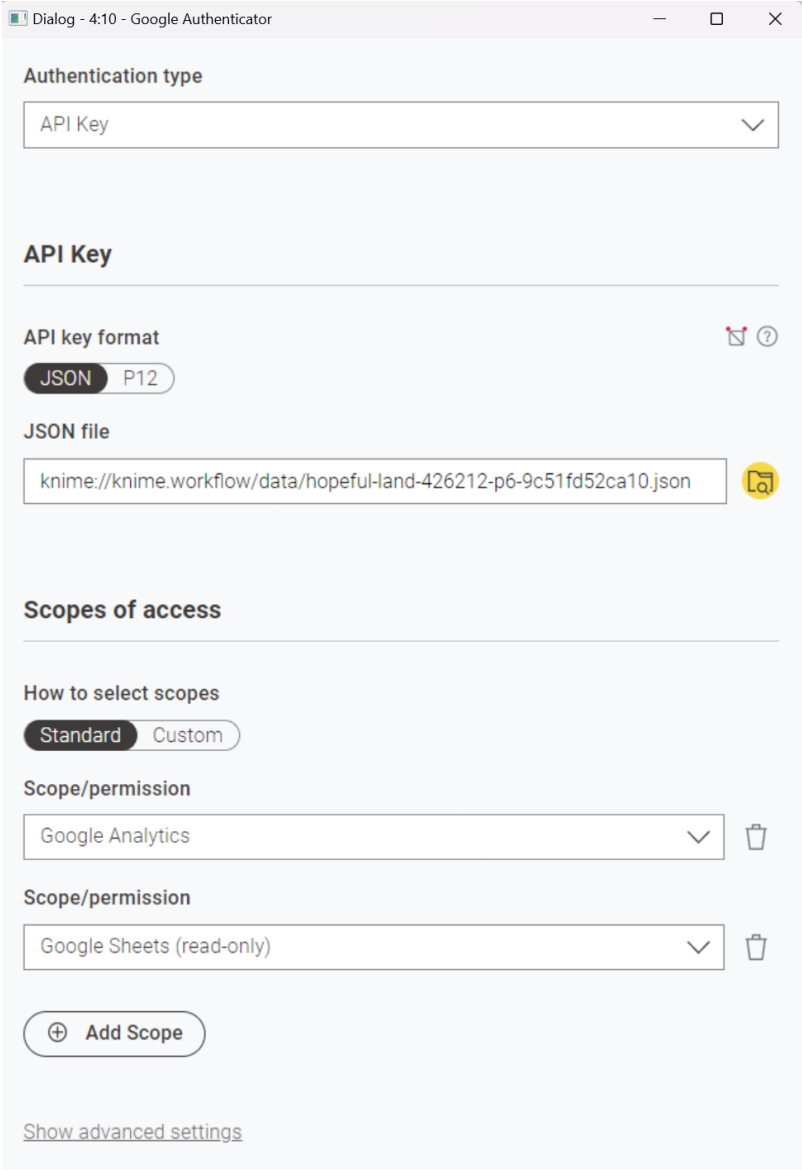
Figure 33. Configuration dialog of Google Authenticator for workflow relative path

- **Workflow Data Area:**

```
knime://knime.workflow/data/<api-key.fileformat>
```

To use this path, you need to make sure you have stored the JSON or p12 file in the workflow's **Data** folder.

If the folder does not exist, create one, store the file inside, and then upload the workflow to the KNIME Community Hub.



Dialog - 4:10 - Google Authenticator

Authentication type

API Key

API Key

API key format

JSON P12

JSON file

knime://knime.workflow/data/hopeful-land-426212-p6-9c51fd52ca10.json

Scopes of access

How to select scopes

Standard Custom

Scope/permission

Google Analytics

Scope/permission

Google Sheets (read-only)

+ Add Scope

[Show advanced settings](#)

Figure 34. Configuration dialog of Google Authenticator for workflow data area path

Access data from Google BigQuery

In order to have access to data on Google BigQuery, the first step is to authenticate with Google, using the Google Authenticator node as described above. Then you can connect to Google BigQuery using the [Google BigQuery Connector](#) node.

However, due to license restrictions, you first need to install version 1.5.4 of the Google Big Query JDBC driver, which you can download [here](#). Further details about how to configure the driver, its limitations and support can be found in the [Google documentation](#).

Once you have downloaded the driver, extract it into a directory and register it in your KNIME Analytics Platform as described [here](#).

Your driver registration dialog should look like this, where <path-to-

folder\SimbaJDBCDriverforGoogleBigQuery42_1.5.4.1008 is the directory that contains all the JAR files.

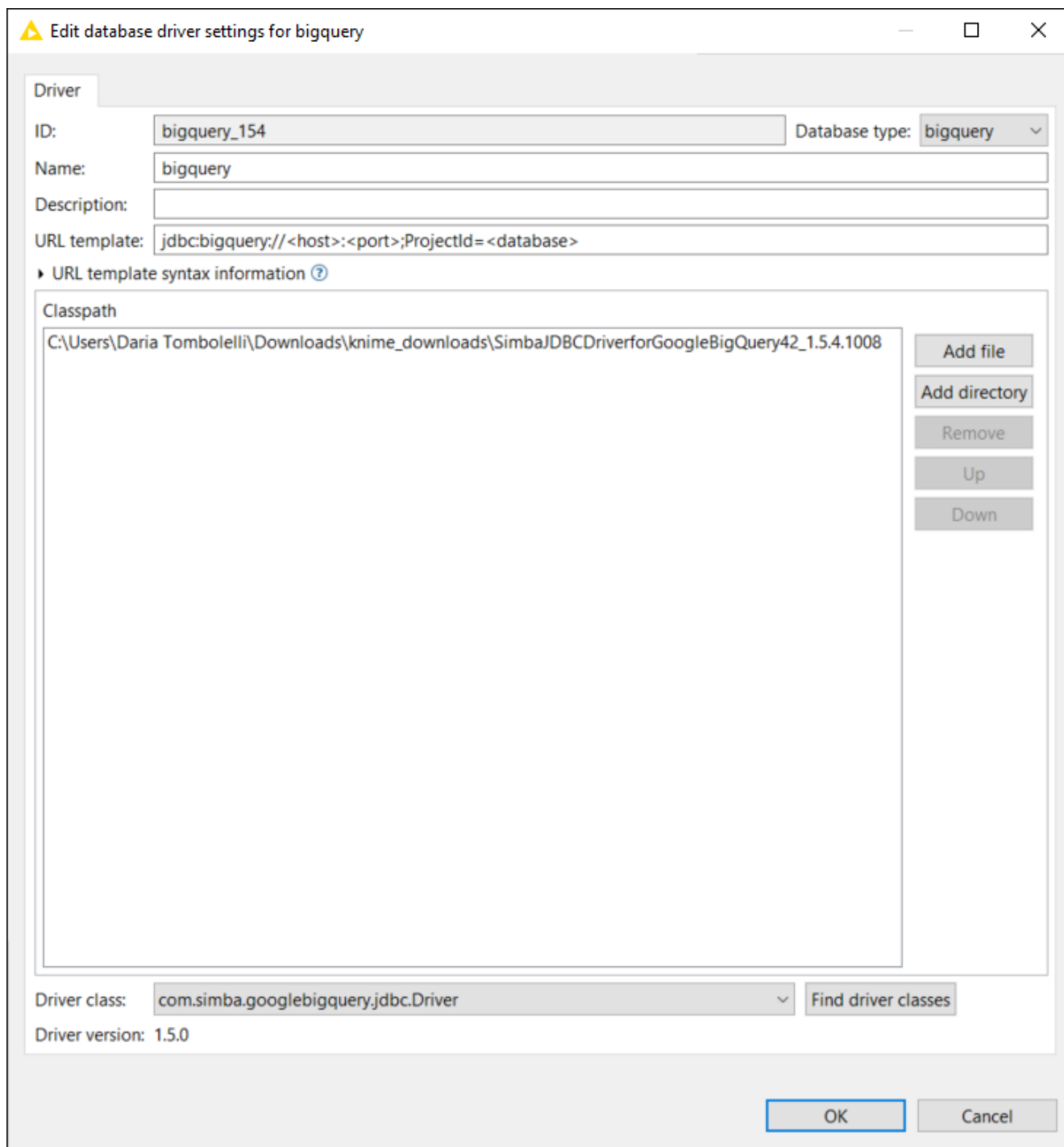


Figure 35. Configuration dialog to register a new database driver

Then you can configure the Google BigQuery Connector node. Make sure to select the option *Use latest driver version available as Database Driver* in the Google BigQuery Connector node. In this way the node will use the latest driver version available locally or on the KNIME Community Hub disregard of where the node is executed.

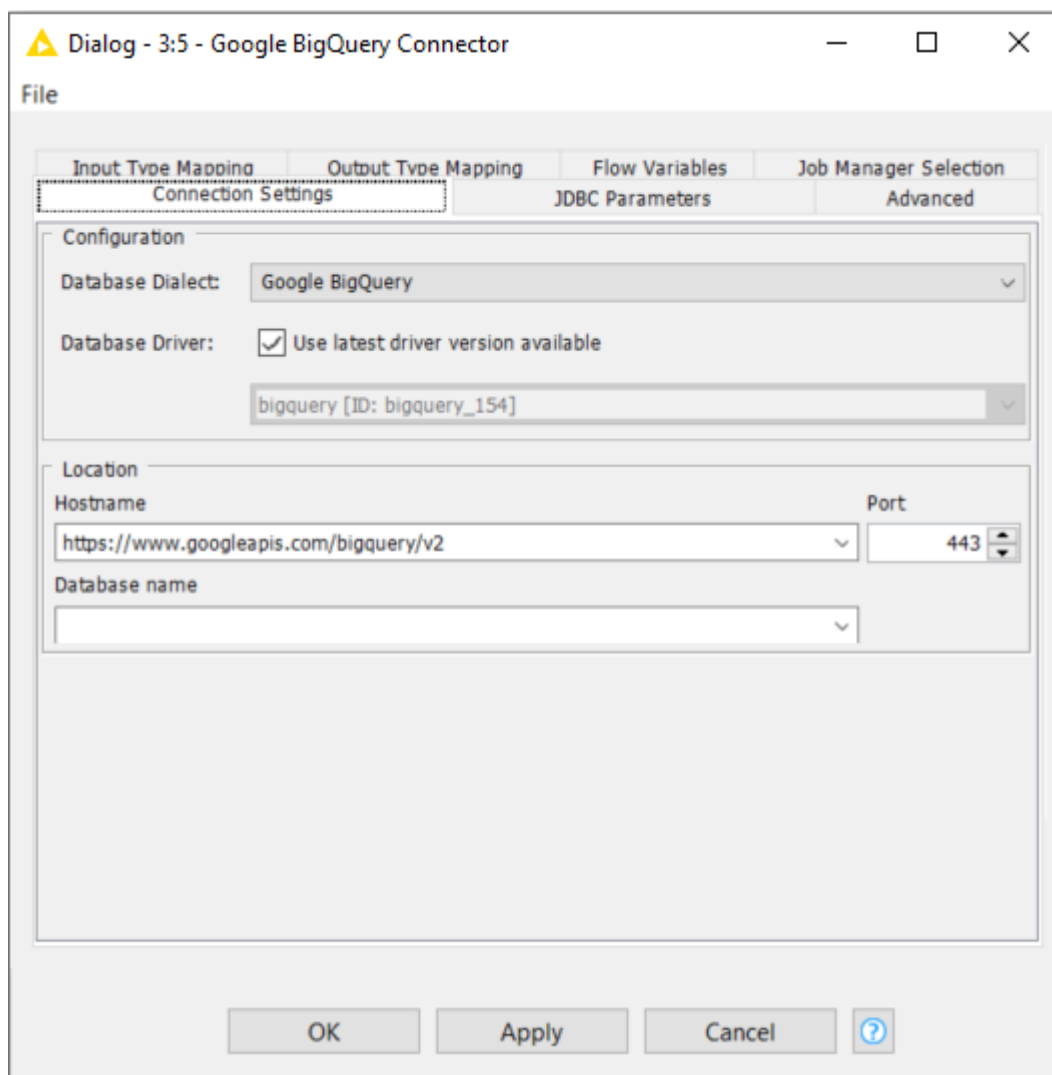


Figure 36. Configuration dialog of the Google BigQuery Connector node

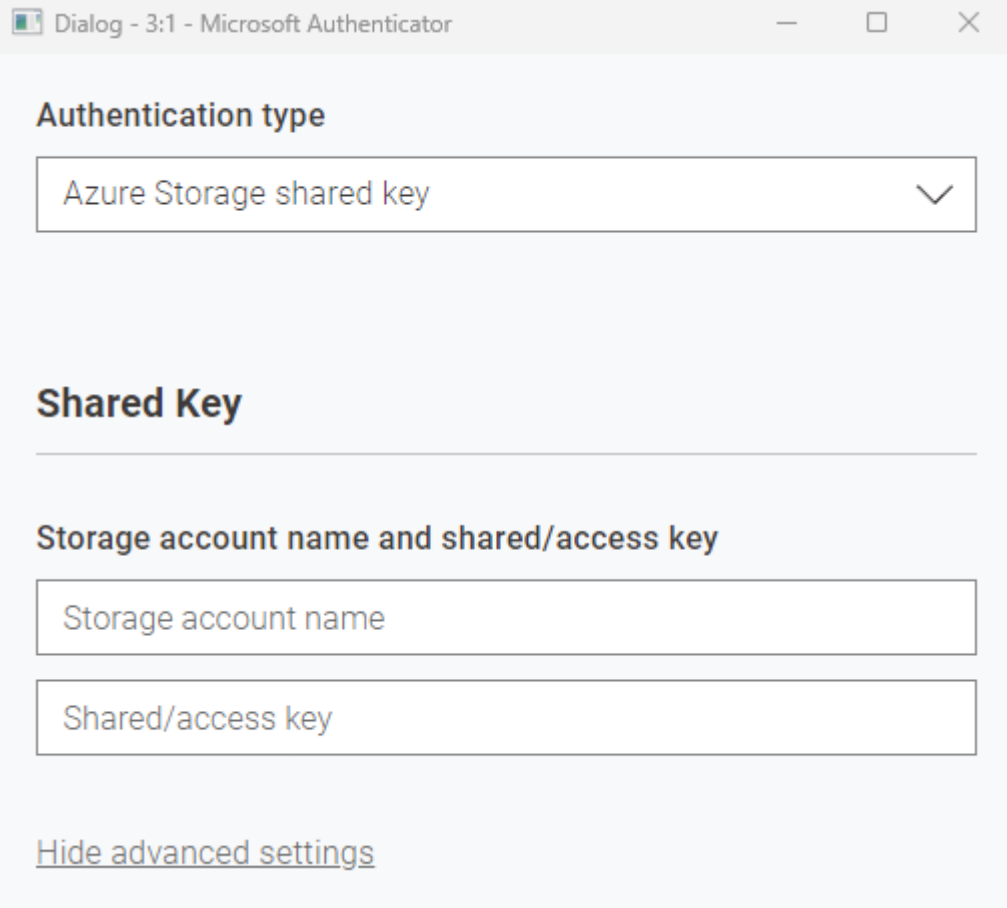
Access data from Azure

Refer to the [KNIME Azure Integration User Guide](#) for setting up the Azure integration with KNIME.

To access data from Azure, the first step when building your workflow is to use a [Microsoft Authenticator](#) node.

When configuring the node, select **Azure Storage Shared Key** as authentication type.

Enter the **Storage Account Name** and **Shared/Access key** and connect to Azure.



The image shows a Windows-style dialog box titled "Dialog - 3:1 - Microsoft Authenticator". It contains the following elements:

- Authentication type**: A dropdown menu currently showing "Azure Storage shared key" with a downward arrow icon.
- Shared Key**: A section header followed by a horizontal line.
- Storage account name and shared/access key**: A section header followed by two text input fields:
 - The first field is labeled "Storage account name".
 - The second field is labeled "Shared/access key".
- Hide advanced settings**: A link at the bottom left of the dialog.

Figure 37. Configuration dialog of Microsoft Authenticator node

The credentials could be stored inside the node, which is not recommended, or passed to the node using the **Credentials Configuration** node. This will allow the team admin to pass the credentials while deploying the workflow, as shown in the below snapshot.



 **Create schedule**

Schedule your workflow to run automatically at selected times.

Schedule options

Define when the workflow should be executed.

Initial execution



  :  

☐ Repeat execution

Set schedule details Set >

Email notifications

Setup email notifications of the workflow execution.

☐ Enable email notifications

Configuration options

Control the parametrization of the workflow execution.

Label

Advanced settings

Change job lifecycle behavior, timeouts, Set >

Cancel

Create

Figure 38. Create a schedule deployment using credentials

Once authenticated, use **Azure Data Lake Storage Gen2 Connector** or **Azure Blob Storage Connector** nodes and select the working directory from where you want to access the data.

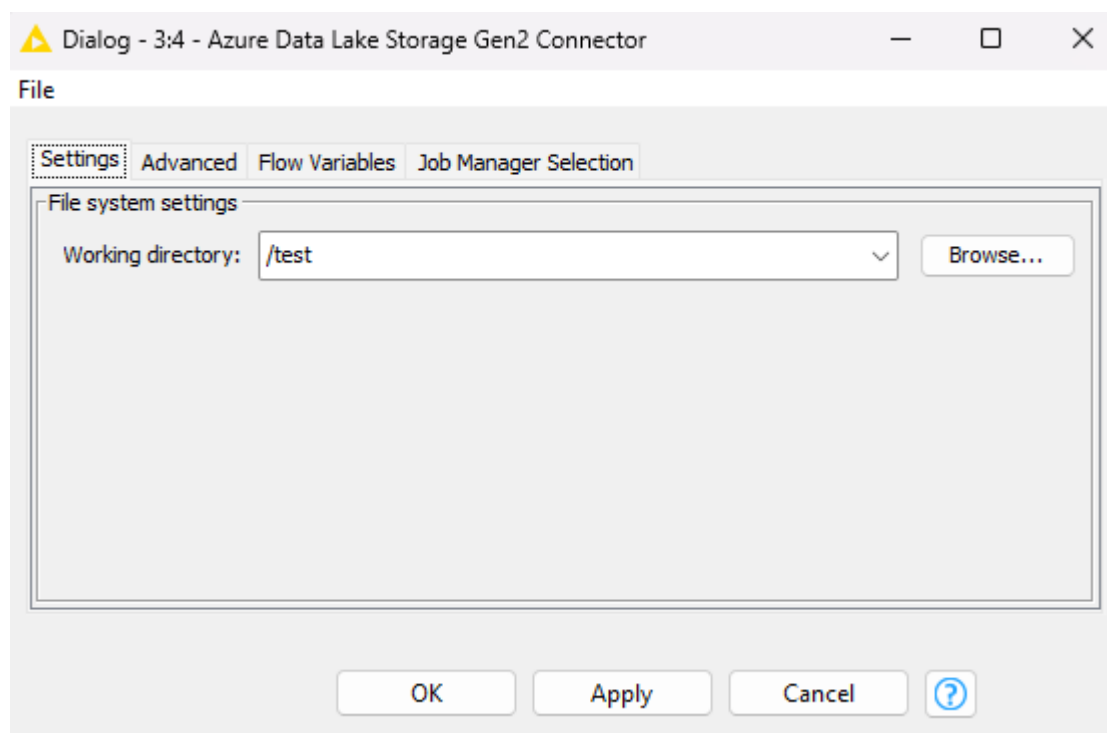


Figure 39. Configuration dialog of Azure Data Lake Storage Gen2 Connector node

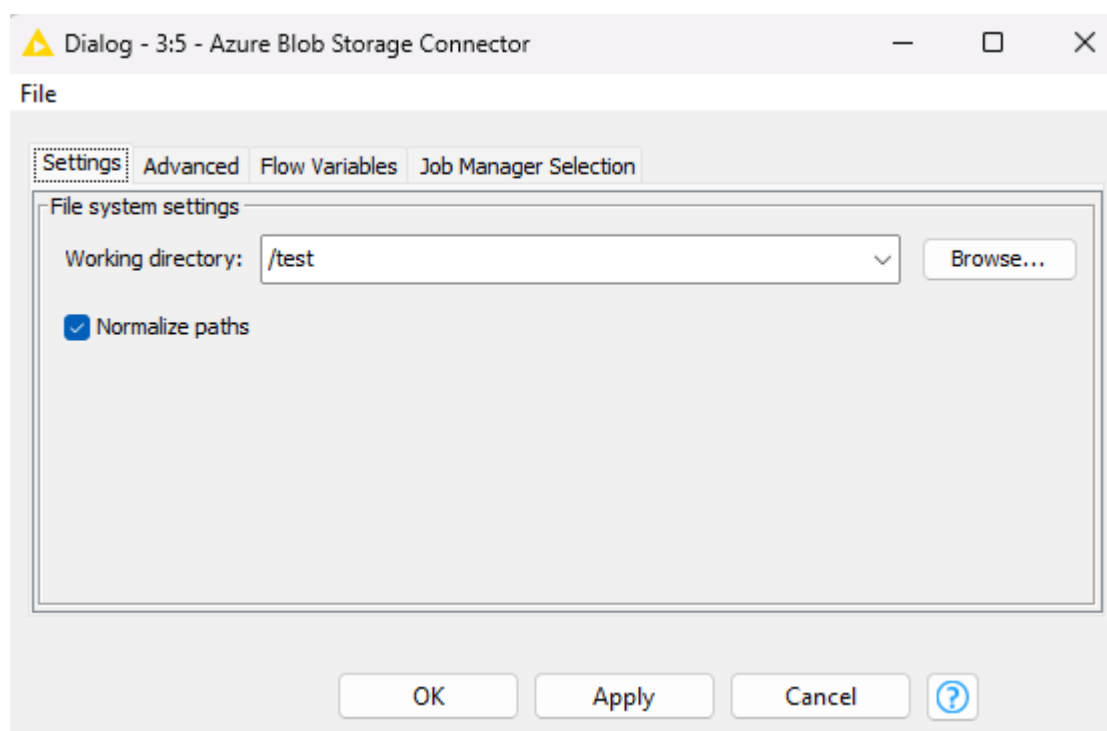


Figure 40. Configuration dialog of Azure Blob Storage Connector node

Enter the file name in the respective file reader node and read the file.

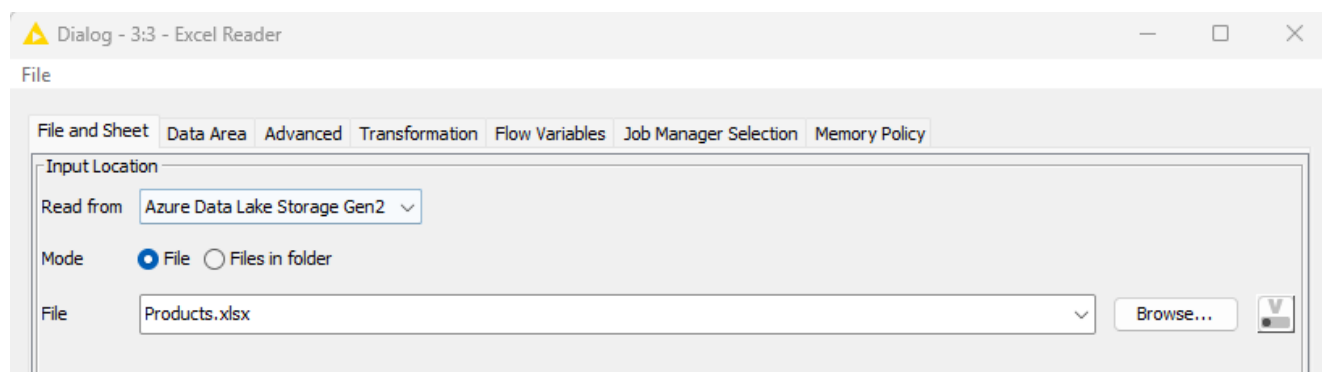


Figure 41. Configuration dialog of the File Reader node

Access data from Snowflake

Refer to the [KNIME Snowflake Extension Guide](#) for setting up Snowflake with KNIME.

To access data from Snowflake, the first step when building your workflow is to use a [Snowflake Connector](#) node.

The credentials could be stored inside the node, which is not recommended, or passed to the node using the [Credentials Configuration](#) node. This will allow the team admin to pass the credentials while deploying the workflow.



 **Create schedule**

Schedule your workflow to run automatically at selected times.

Schedule options

Define when the workflow should be executed.

Initial execution

2024-07-03



11




:

00




☐ Repeat execution

Set schedule details Set >

Email notifications

Setup email notifications of the workflow execution.

☐ Enable email notifications

Configuration options

Control the parametrization of the workflow execution.

Label

Username

Password

Advanced settings

Change job lifecycle behavior, timeouts, Set >

Cancel

Create

Figure 42. Create a schedule deployment using credentials

Access data from Amazon Athena

In order to have access to data on Amazon Athena, the first step is to authenticate with Amazon, using the [Amazon Authenticator](#). Then you can connect to Amazon Athena using

the [Amazon Athena Connector](#) node.

However, due to license restrictions, you first need to install version 2.1.1 of the Amazon Athena JDBC driver, which you can download [here](#). Further details about how to configure the driver, its limitations and support can be found in the [Amazon Athena documentation](#).

Once you have downloaded the driver, extract it into a directory and register it in your KNIME Analytics Platform as described [here](#).

Your driver registration dialog should look like this, where `<path-to-file>\AthenaJDBC42-2.1.1.1001.jar` is the JAR file you downloaded.

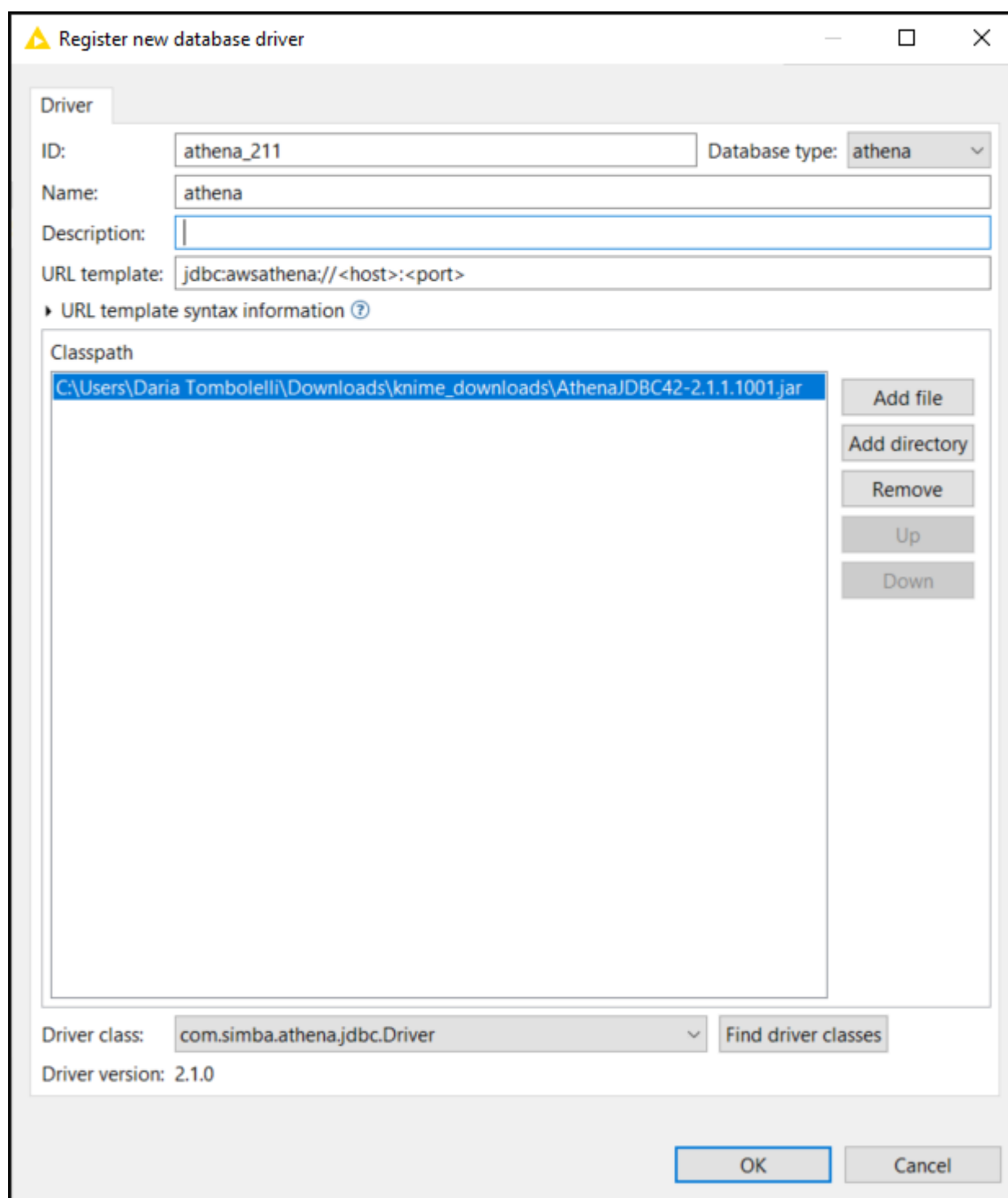


Figure 43. Configuration dialog to register a new database driver

Then you can configure the Amazon Athena Connector node. Make sure to select the option *Use latest driver version available as Database Driver* in the Amazon Athena Connector node. In this way the node will use the latest driver version available locally or on the KNIME Community Hub disregard of where the node is executed.

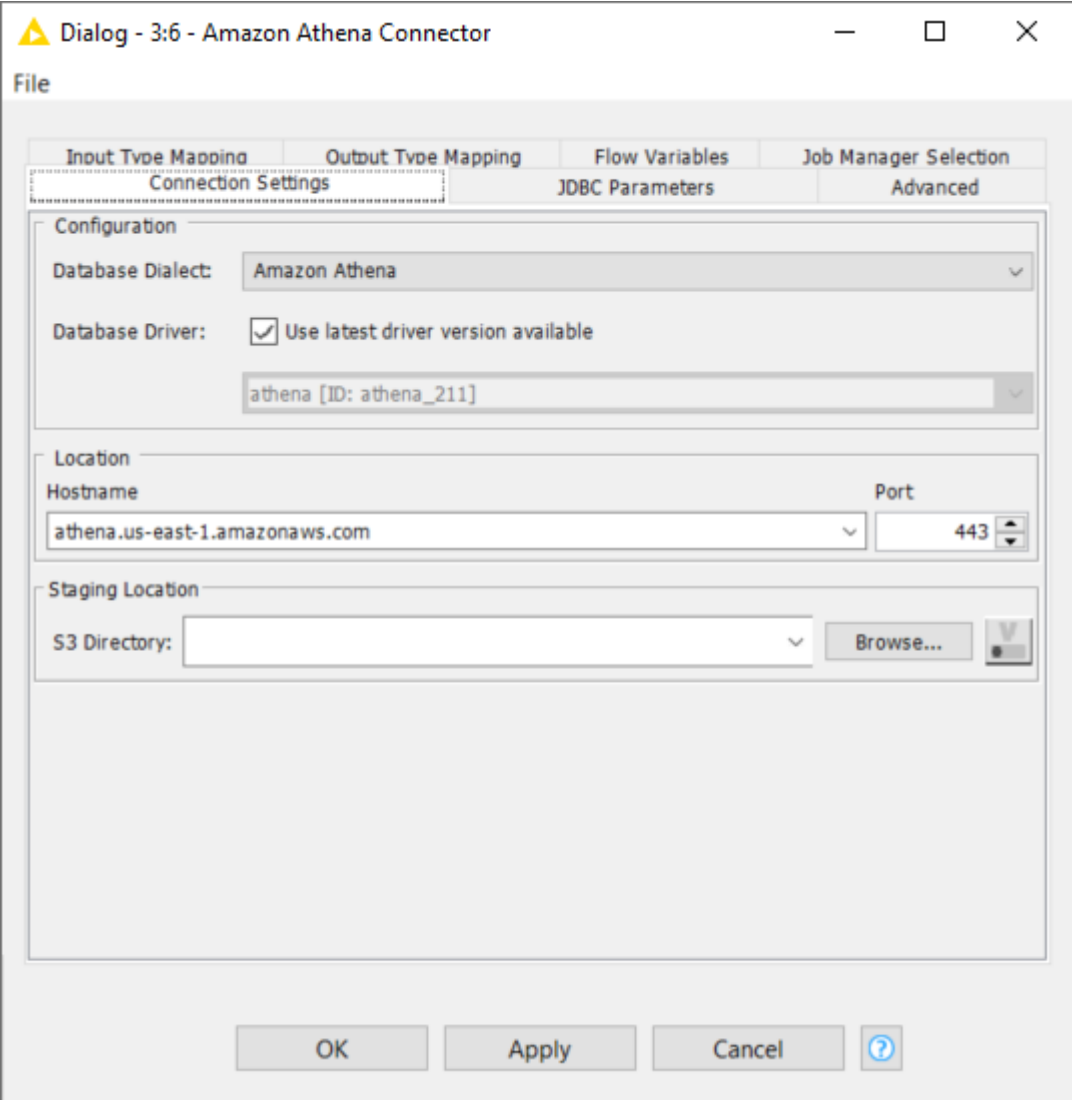


Figure 44. Configuration dialog of the Amazon Athena Connector node

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