

Team Plan on KNIME Community Hub Guide

KNIME AG, Zurich, Switzerland Version 1.14 (last updated on)

Table of Contents

Team plan	1
Create a team	1
Team owned spaces	2
Manage space access	3
Manage team members	5
Change team name	7
Change team profile icon	8
Manage team subscription	8
Connect to KNIME Community Hub and upload workflows	10
Upload items to KNIME Hub	10
Version items	13
Move items	
Delete items	
Application passwords	
Execution of workflows	20
Manage execution contexts	22
Monitor execution contexts consumption	22
Execute a workflow	23
Parameterization of workflows with Configuration nodes	24
Schedule a workflow execution	
Deploy a workflow as a data app	29
Jobs	32
Extensions available for execution on KNIME Community Hub	35
Data Apps Portal	39
Access data from different sources	40
Access data from Google Cloud	40
Access data from Google BigQuery	43
Access data from Azure	45
Access data from Snowflake	49
Access data from Amazon Athena	50
Advanced settings	54
IP whitelisting	54

Team plan

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

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

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

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

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

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

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

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

Create a team

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

1

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

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

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

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

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

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

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

Team owned spaces

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

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

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

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

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

Figure 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 $\ensuremath{\mathscr{P}}$ icon.

	Q Search workflows, nodes and more	Pricing About : Q
KNIME Community Hub \rightarrow Example Team \rightarrow Spaces \rightarrow Private space		
Private space Private space		
		Image: Copy link
	There are no items in this space yet.	
(@ Add description)		

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

	Q Search workflows, nodes and more	\circledast Manage space access
KNIME Community Hub → Example Team → Spaces → Private space		Users with edit rights can upload items to a space and modify it, viewers can only see and download the content. You can change the settings below.
		Q Enter name of team member or group
Brivate space Private space		People with access
Finale space		Admins (1 person) V Edit &
Add description	There are no items in this space yet.	Members (2 people) ν Edit ν : [*]
		Cancel

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.

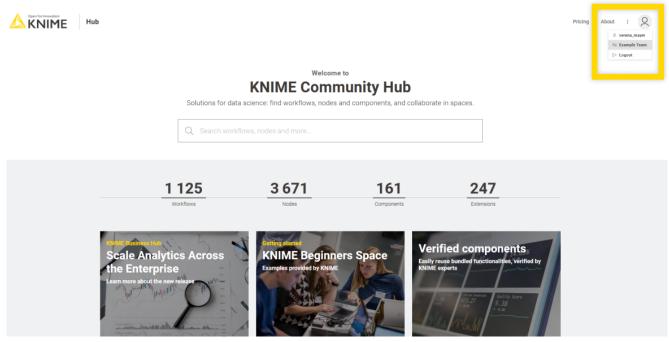


Figure 4. Select a team to go to the team's profile page

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.

	Q Search workflows, nodes and more				Pricing About : Q
KKRE Community Hub 2 Example Team	Spaces of Example 1	eam		🙆 🔍 🥢 Menage Idean	
Example Team	¢3	♡ 0	•	♡ 0	
Spaces 🛞 Deployments (5'	Private space Last edited Feb 8, 2004 11 32 AVI		Public space		
Execution resources 🧠 Subscription 🔊	କ⊈ ତ ହିଛୁ ତ	69 0	≪°0 © 0 ® 0	69 0	
	Create new spac	•			
	🙆 Private space	© Public space			

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.

Copen for Innovation Hub	Q Search workflows, nodes and more	彩 Manage members for Example Team Search and add users which should be added to your team.			
KNIME Community Hub > Example Team	Spaces of Example	Team			will be added to your team's spaces
				verena_mayer	Admins & Members 🗸 🖞
Example Team ୬ର Team	¢2	♡ 0	\$		
Spaces 🛞 Deployments 🥑	Private space		Public space		
Execution resources	୶ୃତେ ଦିଃ ଓ 🕼 ତ	689 🗉	କ୍ଟେ ହିଁଠ ଛିଠ		
Subscription <u>O</u> .	Create new sp.	ace © Public space			
				Cancel	Save changes

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.

KNIME F	lub	Q Search workflows, nodes and more			Search and add users whic	ers for Example Team
KNIME Community Hub > Example Teat	73	Spaces of Exampl	e Team		Users added to your team by default. Q Enter user name Image: daria-tombolelli Image: daria-tombolelli Image: verena_mayer Image: daria-tombolelli	Members
Example Team	8	Private space Lass edited Field 2002 11122 AM ∞ 0 <a>> 0	© • ⊛⊛ ⊡	Public space Last edited Feb 8, 2024 11 24 J ページログロットの目前の目前の目前の目前の目前の目前の目前の目前の目前の目前の目前の目前の目前の		Members C
Subscription	0.	Create new	space ⊕ Public space		Cancel	Save changes

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.

i

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 \Box 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.

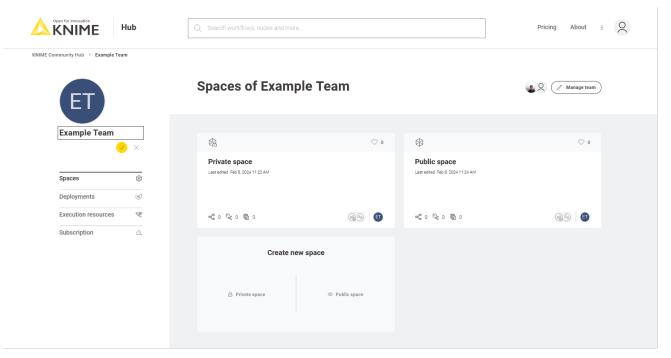


Figure 8. Change name of the team

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.

Copen for Innovation Hub		Q Search workflows, nodes and mo	re		Pricing A	bout : 💽
KNIME Community Hub \rightarrow Documentation Team \rightarrow	Subscription					
DT		Subscription			Manage team	
Documentation T	eam					
^{ନ୍} ୟTeam		Current billing period			③ Need help? Contact us	
Spaces Deployments Execution resources Subscription	ଞ ଔ ଙ୍କ ଯ	Team Moretly subscription	Disk storage 0 G8 of 30 G8 No credits confurmed;	Next invoice total et C99.00 Enter dott breskdown		
		Past Invoices				I
		Amount	Status	Created		
		€99.00	Paid	Jun 28, 2024	Download invoice	
		m imes My details				
		Billing information Address Koertestrasse 10 City 10967 Berlin, DE Email daria tombolelli@knime.	sam	Gard Visa 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

connfirm 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 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.

	Q Search workflows, nodes and more	Help I 🤹
KNIME Community Hub > daria-tombolelli > Spaces	> My First Space	
Public space My First Space		\oslash
		(Q) Upload (2 0 (A Share) [
Home		Φ
$\operatorname{ed}_{G}^{G}$ Split a spreadsheet to different s	heets	Φ
Add description		

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.

▲ KNIME Analytics Platform					- 🗆 ×
Home KNIME Analytics Platform 5				() Help	@ Preferences : Menu
© Recent	Welcome				Dismiss examples $ imes$
다 Local space	Combine Clean and Summarize Spreadsheet Data	Countif and Sumf	ZZZZZZZZZZZZZZZZZZZZZZZZZZZZZZZZZZZZZ		
	Recently used workflows and	components			+ Create new workflow
	$\mathfrak{M}^{\mathfrak{g}_2}_{\mathfrak{g}_2}$ My project with the team		Local space		7 minutes ago

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.

A KNIME Analytics Platform				– 🗆 ×
Home KNIME Analytics Platform 5			() Help () Pi	references : Menu
ⓒ Recent 닭 Local space 오 KNIME Community Hub 다	ଲ୍ଲ KNIME Community Hub > ୧ନ୍ KNIME Workflow App ୧ନ KNIME Workflow Application			
ິ daria-tombolelli				Q ()
^ହ KNIME Workflow Applications				Â
	1	¢6	¢a	
	AP Release Examples	CDDS	Edge	
	KNIME Workflow Applications	KNIME Workflow Applications	KNIME Workflow Applications	
	1	¢a		
	Hub Migration	K-AI Dashboard		
	KNIME Workflow Applications	KNIME Workflow Applications		
				•

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.

KNIME Analytics Platform				– 🗖 X
⊙ Recent	Up	load to	×	
🔄 Local space	Sel	ect an upload destination folder:		
KINIME Community Hub A daria-tombolelli A KINIME Workflow Applications		(KIIME Community Hub		L Import workflow
		Reset Workflow(s) before upload	Choose	

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

i

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*.

		Q Search workfl	lows, nodes and more				Versions history		×
KNIME Community Hub > verena_mayer > Spa	aces > My private Sandbox > Topi	c Detection Based on Movie Reviews					Draft Letest edits on Feb 1, 2024 11:44 AM	Create version	
:	& Workflow Sentiment Ana Berlineet Analysis Dictionary Based Pool		ition) of Documents	3		• N	to version created yet		
	Draft - Latest edits on Feb 1, 202 Topic Detection Analysis - Movie Topic detection extracts relevant in liustrates how to perform a topic di	P Reviews formation elements from unstructured text do	ocuments and groups them to define a number of top	ics. This workflow	Verview Used extensions & nodes Legal				
	CSV file.	Pre-processing	Topic Detection Build a list of topics of the pre-processed documents using the Topic Extractor (Parallel LOA) node. Use 4 words for each topic and 8	Grouping The GroupBy node concatenates the keywords for the identified topics.					
		Converter Double-click the metanode to see the subworkflow Document Creation and document pre-processing	topics. Topic Extractor (Parallel LDA)	GroupBy					
	Reang Reang Socialiteday MDb-sample.csv	Transformation of strings to documents	4 woods for 8 bipses Try these: 20 J Co to the cont of the Topic Start 20 J Topic Start 20	ctor (Parallel the number of ; that you would					

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.

	Hub	Q Search workf	ows, nodes and more			U	Versions history	×
KNIIME Community Hub > verena_m	wger > Spaces > My private Sandbox > «Ge Workflow Topic Detectic [Sentiment Analysis] [Pre	on Based on Mov	ie Reviews			•	V2 Tresting 2 Created on File 1, 5054 251 FM - Version 3 V1 Tresting Created on File 1, 5024 201 FM - Version 1	Constant of the second of
	Version: v2 - Latest, created on Feb 1	, 2024 2:51 PM 🕚 Versions			9 <mark>6</mark> 🗇 0 (\$ 3			
	Topic Detection Analysis - Movie	Reviews			Overview Used extensions & node Legal			
	Topic detection extracts relevant perform a topic detection analysi Task. Perform a topic detection in IM	s on movie reviews.	documents and groups them to define a number of t	opics. This workflow illustrates how to				
	Data Reading Read IMDb reviews from a CSV file. The file is located in TheData/ SocialMedia	Pre-processing - Classic pre-processing of documents: Punctuation Frasure, 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.				
	CBV Reder	Document Crastion and document pre-processing	the Topic Extract 2) Try to change	s that you would like				

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

	Q. Search workfl	lows, nodes and more				U	Versions history	×
	n Based on Mov	ie Reviews				•	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	
Tentimer Analysis Dictionary Read Triat Warsion: v2 - Latest, created on Feb 1,					<mark>og</mark> ♡ 0 (⊕ 3)		Urealed on Free 1, 2024 201 PM = Version 1	Show this version Restore this version Delete this version
					Overview Used extensions & node Legal			
Topic Detection Analysis - Movie F Topic detection extracts redevant perform a topic detection analysis Task. Perform a topic detection in MC	nformation elements from unstructured text on movie reviews.	documents and groups them to def	ine a number of top	cs. This workflow illustrates how to				
file. The file is located in TheData/ SocialMedia	Pre-processing - Classic pre-processing of documents: proclusation Erazue, 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-pr documents using the Topic-Extra node. Use 4 words for each topic	ctor (Parallel LDA)	Grouping The GroupBy node concatenates the keywords for the identified topics.				
version 2 CSV Reader	Document Creation and document pre-processing	4 words for 8 topics	DA) Try this: 1) Go to the config the Topic Extractor 2) Try to change th words and topics ti	(Parallel LDA) e number of				

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*.

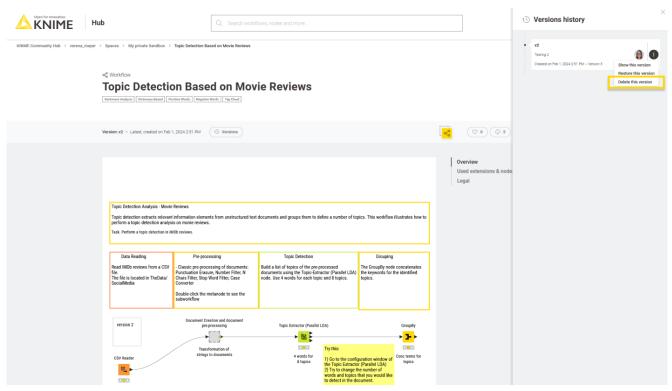


Figure 17. Delete a version

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

i

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*.

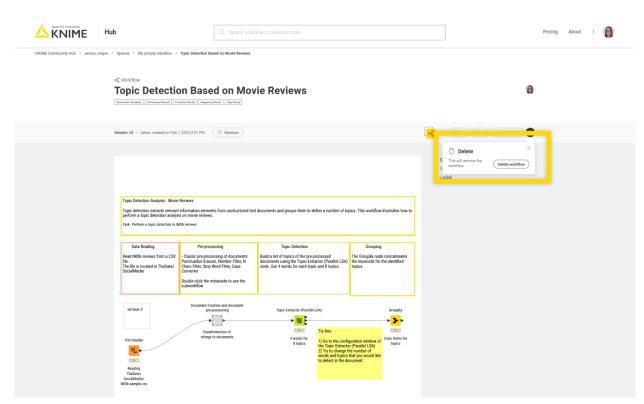


Figure 18. Delete a workflow from KNIME Hub

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* \rightarrow *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.

		Hub	Q Search w	vorkflows, nodes and mo	re			Help	:	
	KNIME Community Hub > daria-to	ombolelli > Settings								
		9	Settings							
	daria-tombolelli	4	Application passv	words						
	KW KNIME Workflow Applicati		Name	Id	Creation	Last used			4	
			My first application passwo	qI_SD0H9jMEBsQ1UbZUGE	Dec 18, 2024 10:35 AM	Dec 18, 2024 1:00 AM	Copy id 📋 Ca 🗄		-	
\leftarrow	Settings									
	Notifications 🕴									
	Application passwords \swarrow									
_										
6										
	Please copy the password and th as username.	he ID to be used								

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.

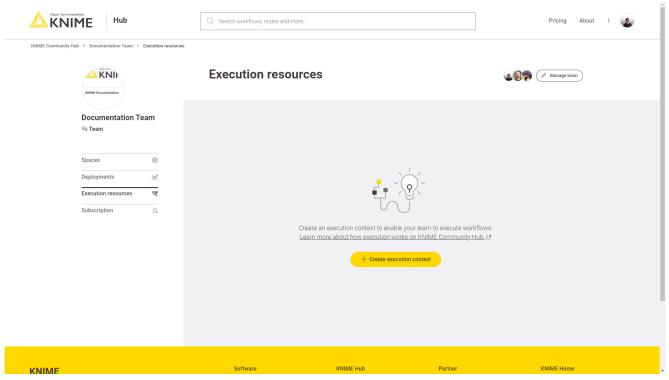


Figure 20. Start by creating an execution context

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

	Q Search	a workflows, nodes and more		ate execution context	
KNIME Community Hub > Documentation Team > 8	Execution resources		Select exe	cution context capacity	
Res to	Exec	ution resources	start and sto Multiple wor The first 100	charged if an execution context is up and p execution contexts automatically (defa (flows can run at the same time on the ex 10 credits per month are free in your sub:	ult) or manually. ecution context. scription.
Documentation Te १२ Team	am		Small	Suitable for lightweight data processing with low complexity workflows: Slighty slower than your average home computer but good enough for repetitive, lightweight automation. 2 vGres-8 GR RAM	2 credits / minute
Spaces Deployments	® (3		○ Medium	Suitable for most data processing use cases with medium complex workflows. Similar to the performance of KNIME Analytics Platform on an average home PC.	4 credits / minute
Execution resources	بر	Create an execution context to enable Learn more about how execution wor		a votes - is be skill For more demanding use cases with more data, complex workflows and more parallel processing and faster computation times required. 8 votes - 32 GB RAM	8 credits / minute
		+ Create execut	tion context	dit is € 0.05, billed per started minute. alytics Platform version	
				070934 d settings art and stopping behavior	Set >
					Create

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

1

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.

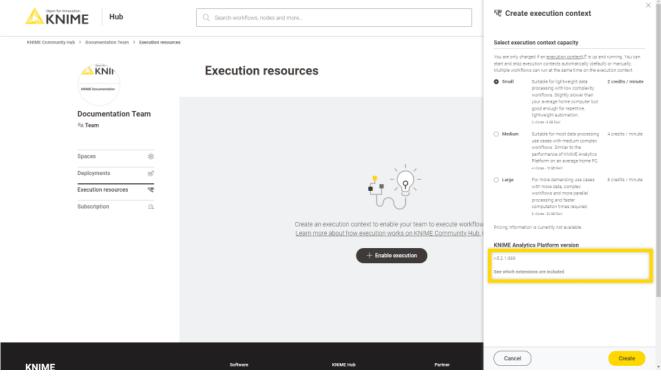


Figure 22. The executor version provided by us

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.

		Q. Search workflows, nodes and more		Pricing About :
KNIME Community Hub > Documentation Team >	Subscription	Subscription		🔬 🖉 Manage team
Documentation To	am	E Current billing period		
Spaces Deployments Execution resources Subscription	ि (उ ??? 	Team Matchly subscription Image: Team members Disk storage limit Execution credits 1 of d 40 db Scomumed Cost breakdown Team lies (3 uses and 20 05 of data storage) 10 db additional later Hadditional later Boosted Haditional later Boosted Boosted	Next Invoice total C150.30 Hide cost treakfoun C 000 C 200 C 300 C 300 C 150.30	
		(Manage subscription) (S End your subscription now)		
		Billing Information Address Koertestrasse 10 City 1097 Serin OE Email dana tomboleligknime.com	단 Payment details Card XXXXXXXXXX 4242	

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.

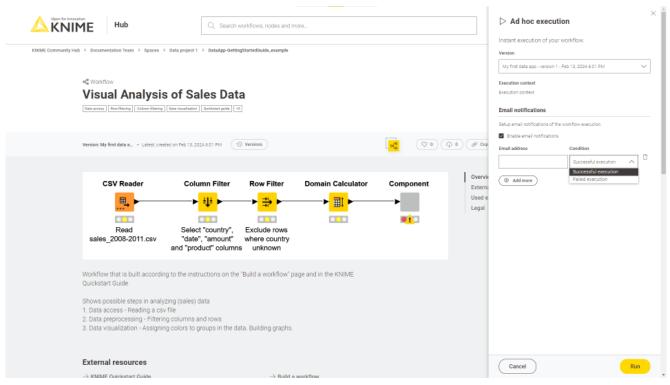


Figure 24. The ad hoc execution side panel

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.

Parameterization of workflows with Configuration nodes

When you execute a workflow on KNIME Hub you can also provide parameters to the workflow using Configuration nodes.

When building the workflow, add a Configuration node in the root of the workflow—meaning the Configuration node should not be nested in a component.

This allows you to perform a number of operations that can be:

• Pre-configured with certain parameters. This can be done by choosing the default value in the configuration dialog of this type of nodes.

	A Dialog - 3:1 - String Configu	aration — 🗆 🗙				
	File					
	Control Flow Variables Job N	fanager Selection				
String Configuration	Label:	Insert value here				
	Description:	Enter Description				
Example page	Parameter/Variable Name:	string-input				
	Editor type:	Single-line				
		⊖ Multi-line				
	Editor width:	40 🗘				
	Editor height:	s 🗘				
	Regular Expression:	v				
	Validation Error Message:					
	Common Regular Expressions:	✓ Assign				
	Default Value:	Default pre-configured value				
	OK App	Dly Cancel				

Figure 25. Configuration node

• Configured by the user at the time of execution or when creating a deployment. This can be done from the panel that opens when you click *Run* on the workflow page or when you create a deployment.

Open for inservicin Hub Q Search workflows, nodes and more	Create ad hoc execution Instant execution of your workflow.
KNIME Dev Business Hub > Documentation team > Spaces > Data project > test_configuration_nodes2	Version Latest
*© Workflow test_configuration_nodes2	Execution context © Doos EC 513 • Stopper - Starts up on demand
	Email notifications
Droft - Latest edits on Feb 24, 2025 312 FM SVersions	Setup email notifications of the workflow execution.
String Configuration	Configuration options Control the parametization of the workflow execution. Insert value here Default pre-configured value
	Cancel

Figure 26. Workflow parameters set in the execution side panel

Schedule a workflow execution

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

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

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

	Hub	Q Search workflows, nodes	and more				® © Create schedule
KNIME Community Hub > knir	me Team > Spaces > Data project >	00_DataApp_Visual_Analysis_of_Sales_Data				_	Schedule your workflow to run automatically at selected times.
							Deployment name
el <mark>a</mark> Wo	orkflow						00_DataApp_Visual_Analysis_of_Sales_Data
00	_DataApp_Visua	al_Analysis_of_Sa	les_Data				Version
	sualization Getting started Data App	•					v1.0 - Oct 27, 2023 1:47 PM
							Execution context
				,			Execution context
D D	Draft - Latest edits on Nov 2, 2023 2:47 PM	1 (1) History		<mark>, अल</mark> ि	$\bigcirc 0 \bigcirc 0$	@ Cop	Schedule options
							Define when the workflow should be executed.
						Overvie	Initial execution
	Data App: Visual Analysis of Sal	les Data				Externa	
		les Data instructions on the "KNIME Data Apps Beginners Guid	de".			Used e	
			de".			Used e Legal	2023-11-02 Repeat execution
			de".	Data Visualization - Oynamic Data App		Used e	
	This workflow is built according to the i	instructions on the "KNIME Data Apps Beginners Guid	de". Domain Calculator	Data Visualization - Dynamic Data App Component		Used e Legal	
	This workflow is built according to the i Data Access -Provide File Path	Instructions on the "KNIME Data Apps Beginners Gui Data Preprocessing - Filter column and rows Column Filter Row Filter	Domain Calculator	- Dynamic Data App		Used e Legal	Repeat execution Set schedule details
	This workflow is built according to the i Data Access -Provide File Path CSV Reader	instructions on the "KNIME Data Apps Beginners Gui Data Preprocessing - Filter column and rows		- Dynamic Data App		Used e Legal	Repeat execution Set schedule details Workflow actions
	This workflow is built according to the i Data Access Provide File Path CSV Reader	Instructions on the "KNIME Data Apps Beginners Guid Data Preprocessing - Filter column and rows Column Filter Row Filter	Domain Calculator → <mark> Ⅲ</mark> →	- Dynamic Data App Component		Used e Legal	Repeat execution Set schedule details
	This workflow is built according to the i Data Access Provide File Path CSV Reader Read	Instructions on the "KNIME Data Apps Beginners Guid Data Preprocessing - Filter column and rows Column Filter Row Filter 	Domain Calculator	- Dynamic Data App Component		Used e Legal	Repeat execution Set schedule details Workflow actions
	This workflow is built according to the i Data Access Provide File Path CSV Reader Read	Instructions on the "NNME Data Apps Beginners Guid Data Preprocessing - Filter column and rows Column Filter Row Filter 	Domain Calculator	- Dynamic Data App Component		Used e Legal	Repeat execution Set schedule details Set Workflow actions Control basic actions of the workflow execution.
Data	This workflow is built according to the i Data Access Provide File Path CSV Reader Read	Instructions on the "KNME Data Apps Beginners Guid Data Preprocessing - Filer column and rows Column Filter Row Filter 	Domain Calculator	- Dynamic Data App Component		Used e Legal	Repeat execution Set schedule details Set Workflow actions Control basic actions of the workflow execution. Enable workflow actions
	This workflow is built according to the i Provide File Path CSV Reader Read sales_2008-2011.csv App: Visual Analysis of Sales Da	Instructions on the "KNME Data Apps Beginners Guid Data Preprocessing - Filer column and rows Column Filter Row Filter 	Domain Calculator	- Dynamic Data App Component		Used e Legal	Repeat execution Set schedule details Set Workflow actions Control basic actions of the workflow execution. Enable workflow actions Advanced settings

Figure 27. 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.

	Hub	Q Search workflows, nodes and more		${}^{\mathfrak{g}_0^{\mathfrak{g}}}$ Create schedule
KNIME Community Hub > knime	• Team > Spaces > Data project > 0	0_DataApp_Visual_Analysis_of_Sales_Data		Schedule your workflow to run automatically at selected times.
		l_Analysis_of_Sales_Data		Schedule options Define when the workflow should be executed. Initial execution 2023-11-02 Initial execution
🥟 Dra	ft - Latest edits on Nov 2, 2023 2.47 PM Data App: Visual Analysis of Sales	Itistory Data		Image: Copy of the securition Every Clast times Overviti Externs (*) Add start time
	This workflow is built according to the ins	Data Preprocessing - Filter column and rows Column Filter Row Filter Domain Calculator + + + + + + + + + + + + + + + + + + +	Otra Visualization - Dynamic Data App Component	Used é Legal Schedule ends date Ad hoc Date 2022-11-03 III 15 ; 01 ; 00 ; Set schedule details Set >
	Read sales_2008-2011.csv	Select "country", Euclude ows Remove Unknown 'diete', 'amount' where country from deta domain and 'product' columns unknown		Workflow actions Ontrol basic actions of the workflow execution. Deable workflow actions
This wo		the instructions on the "KNIME Data Apps Beginners Gu		Advanced settings Change job lifecycle behavior, timeouts,
	is how to build a Data Applicatio ting them.	n that allows to interactively analyze sales data by filterin	ng and	Cancel

Figure 28. The create schedule side panel: schedule options section.

To see all the deployments created for a workflow navigate to the workflow page and select *Deployments* from the right side menu. To see all the 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:

#6 Workflow OD_DataApp_Visual Data visualization @eming stained Data App @ Data Visualization @eming stained Data App Workflow @eming stained Data Visualization @eming stained Data App @ Data Data Visualization @ Data Uses Data Visualization Uses Data Visualization Uses Data Visualization Data Visualization	al_Analysis_of_Sales_Data		(♡ 0) (\$\$ 0) (\$\$ Cop	← Back to "Create schedule" Recurring on Days of the week M ✓ T ✓ W ✓ T ✓ F ✓ S S Invert selection of days of the week
Data Access Provide File Path CSV Reader Est Read sales_2009-2011.csv	Instructions on the "KNIME Data Apps Beginners Guide".	Deta Visualization - Dynamic Data App Component	Overvi Extern Used e Legal Ad hoc	1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 29 21 22 23 24 25 26 27 28 22 30 31 Last day of the month Last day of the month Invert selection of days Jan Apr May Jan Jad Jag Sap Oct Nov Dec Invert selection of months Execution retries
, i i i i i i i i i i i i i i i i i i i	ta to the instructions on the "KNIME Data Apps Beginners G tion that allows to interactively analyze sales data by filter			Rest before execution Skip execution if previous job is still running Disable schedule

Figure 29. 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 configuration options

1

This section will show dynamically when adding Configuration nodes in the root of the workflow.

See the Parameterization of workflows with Configuration nodes section for more information on how to add configuration nodes to your workflow.

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 settings:

- 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.

Deploy a workflow as a data app

Deploying a workflow as a data app allows you to share the data application with other users, who can interact with the workflow through a user interface.

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

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

	Hub	Q Search workflows	, nodes and more		💷 Create data app
KNIME Community Hub > Documen	tation Team > Spaces >	New space > Data App - 6 Ki	PIs for any CEO		Create a data app to interact with the workflow via a user interface.
≪ ^{tworkflow} Data App - 6 K	PIs for any	CEO			Deployment name Share deployment data app Version
Version: v1 - Latest, created on Mar 1-					v1 - Mar 14, 2025 1:48 PM Execution context Execution context 5.43 • Stopped - Starts up on demand
				7 <mark>8</mark>	Category Management report
		s for any CEO: Dat			Description This workflow reads tables containing historical data of 6 KPIs and
	At the end, the links to the references are disp 1) Connection to the SQLite database containing the historical data of the KPIs, i.e., the years 2021, 2022 and 2023	2) Reading of the (6) tables containing the KPIs measures (or features to compute them) from the SQLine database	3) Dashboard to display the KPIs and selecting the year		visualizes them in an interactive data app, allowing for selecting the year (2021, 2022, and 2023). At the end, the links to the references are displayed for documentation.
	SQLite Connector	Reading KPIs	Dashboard		Email notifications Setup email notifications of the workflow execution.
This workflow reads tables c	ntaining historical da	a of 6 KPIs and visuali	zes them in an interactive	ę	Enable email notifications

Figure 30. The create data app side panel

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

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.

You will also be able to select a *Category* and a *Description*. Categories added here will be used to group the data apps in the *Data Apps Portal*. Also descriptions added here will be visible in the corresponding deployment's tile in the *Data Apps Portal*.

Set configuration options

i

This section will show dynamically when adding Configuration nodes in the root of the workflow.

See the Parameterization of workflows with Configuration nodes section for more information on how to add configuration nodes to your workflow.

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.

Run a data app deployment

Once you have created a data app deployment to see the list of *Deployments* you can go on the specific workflow page.

Click the \pm icon on the row corresponding to the deployment you want to execute, and click *Run*.

Manage access to data apps

You can change who has access to data apps.

- 1. In the *Deployments section* on the workflow page, click the : icon.
- 2. Select Manage access from the menu.
- 3. This opens a side panel where you can type the name of the user you want to share the data app with and select the access level you want to give to the team members and team admins.

As a default, the data app deployment is shared with all the members of your team:

- **Team admins**: have *Manage* access to the data app deployment. This means they can change the access settings, delete the deployment, and run the deployment.
- **Team members**: have *Run & Inspect* access to the data app deployment. This means they can run the deployment and inspect the results, but cannot change the access settings or delete the deployment.
- Users that are not members of your team: You can also share the data app with users that are not members of your team. To do this, type the name of the user in the search

bar and click *Apply*. These users will have *Run only* access to the data app deployment. This means they can run the deployment, but cannot change the access settings or delete the deployment. The access level of the users that are not part of the team cannot be changed.

When sharing a data app deployment, this will be available to the user in the *Data Apps Portal*.

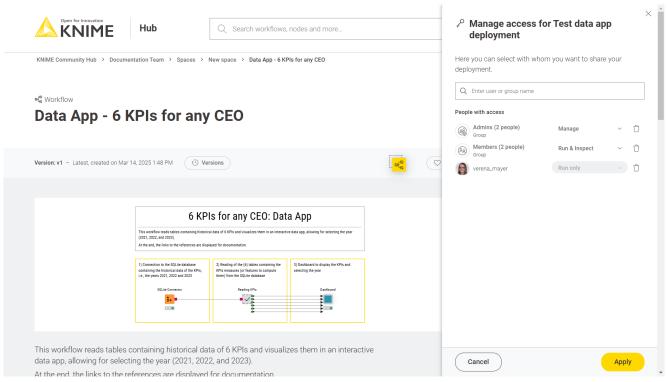


Figure 31. Manage access to a deployment of the type data app

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

1

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

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

KNIME JavaScript Vie		KNIME AG, Zurich, Switzerland Version 4.7.0			knime		Overview External resources Used extensions & nodes Legal		
KNIME Quick Forms	3	KNIME AG, Zurich, Switzerland Version 4.7.0			knime		Ad hoc jobs		
Ad hoc jobs					All time 🗸	0			
Created at \downarrow	Owner	State	Version	Node messages		T T			
Mar 19, 2024 10:40 AM	daria-tombolelli	Execution finished	My first data app - version 1	•					
Mar 19, 2024 10:39 AM	daria-tombolelli	Execution finished	My first data app - version 1		Open Save as workf	flow			
Mar 19, 2024 10:33 AM	daria-tombolelli	Execution finished	My first data app - version 1		Inspect	- 8			
Rows: 1-3 of 3					Delete Download log	js			
Legal									
By using or downloading the	workflow, you agree t	o our <u>terms and conditions</u> .							

Figure 32. 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.

																	13	100%
CSV Reader	Â																	
Reads CSV files. To auto-guess the structure of the																		
file click the Autodetect format button. If you																		
encounter problems with incorrect guessed data types disable the Limit data rows scanned option in																		
the Advanced Settings tab. If the input file structure																		
changes between different invocations, enable the																		
Support changing file schemas option in the Advanced Settings tab. For further details see the																		
KNIME File Handling Guide File Handling Guide									CSV Reader	Filte	er for job							
Note: If you find that this node can't read your file, try									B ,									
the File Reader node. It offers more options for																		
reading complex files.									000		<u>*</u>							
This node can access a variety of different file									Contain	is one node with ex	ecution failure (Brea	kpoint #3)						
gystems, More information about file handling in									Braska	icint #3: Empty	Tabla							
KNIME can be found in the official File Handling Guide									breaky	iobic #3. Dipty	Leone							
Parallel reading: Individual files can be read in paralle																		
ir																		
They are located on the machine that is																		
running this node.																		
 They don't contain any quotes that contain row 	v <																	
 They don't contain any quotes that contain row delimiters. 	v <																	
 They don't contain any quotes that contain row 	, «																	
They don't contain any quotes that contain row delimitans. They are not gzip compressed. No lines or rows are limited or skipped. The file index is not prepended to the RowID.	L	4												_				
They don't contain any quotes that contain row delimiters. They are not gzip compressed. No lines or rows are limited or skipped.	L		le Table	5 Flow Varia	bles								_	_				
They don't contain any quotes that contain row delivatives. They are not gaip compressed. No lines or may are limited or skipped. The file index is not prepended to the RowID. They are not encoded with UTF-16 (UTF-164.E and UTF-168.E are fine).	L	► 1: Fi			ibles					Table Statistics				_				
They don't contain any quotes that contain row delimiters. They are not gaip compressed. No lines or rows are limited or slipped. The file index is not prepended to the RowID. They are not encoded with UTF-16 (LTF-16LE	L	► 1: Fi	2561	Columns: 15	workclass	fniwgt 🗸	education 👾	education	marital-st	occupation	relations.	race	× 54		, capital-g ,	capital-lo	hours-per	native
They don't contain any quotes that contain row delivatives. They are not gaip compressed. No lines or may are limited or skipped. The file index is not prepended to the RowID. They are not encoded with UTF-16 (UTF-164.E and UTF-168.E are fine).	L	► 1: Fi	RowiD	Columns: 15 age Number (inte. ~	$_{\rm String}^{\rm workclass} \lor$	Mumber (inte	String V	Number (Inte.,	marital-st	occupation	relations V	String	59	ing	Number (inte	Mumber (Inte.	Number (inte	
They don't contain any quotes that contain row delivatives. They are not gaip compressed. No lines or may are limited or skipped. The file index is not prepended to the RowID. They are not encoded with UTF-16 (UTF-164.E and UTF-168.E are fine).	L	► 1: Fi	RowiD	Columns: 15 age Mumber (inte ~ 39	workclass _{String} ~ State-gov	Number (Inte., 77516	String Bachelors	Number (Inte., 13	marital-st	occupation String Adm-clerical	relations V String Not-In-family	String White	58 M	ing ale	Number (inte 2174	Number (Inte	Number (Intell. 1) 40	United
They don't contain any quotes that contain now delivation. They are not gip compressed. No lines or more an limited or alkpoed. The file index is not prepended to the RowID. They are not annobid with UTF-166 LE and UTF-166 LE or fine). Z ^S Ports <u>Hi</u> Options <u>Views</u> Output parts	L	► 1: Fi	RowiD	Columns: 15 age Mumber (Inte ~ 39 50	workclass _{String} ~ State-gov	Mumber (inte	Bachelors Bachelors	Number (Inte.,	marital-st	occupation String Adm-clerical Exec-manage.	relations V Seeg Not-In-family Husband	String	35 M	ing	Number (inte	Mumber (Inte.	Number (inte	United- United-
They don't contain any quotes that contain now delivative. They are not gip compressed. No lines or mars are limited or skipped. The file index is not prepended to the RowID. They are not snooded with UTF-166 UTF-166.E and UTF-168.E are fine). Ports H) Options OV Views	L	► 1: Fi	RowiD Row0 Row1	Columns: 15 age Auriber (Inte V 39 50 38	workclass String V State-gov Self-emp-not-L.	Number (inte 77516 83311	String Bachelors	Number (Inte., 13	marital-st	occupation String Adm-clerical Exec-manage.	relations String Not-In-family Husband Not-In-family	String White White	M M M	ng sle sle	Number (inte 2174 0	Number (inte 0 0	Aurober (inte 40 13	United- United- United-
They don't contain any quotes that contain non- delivative. They are not gip compressed. No lives or rows are limited or skipped. The fie index is not prepended to the Rowth. They are not accoded with UTF-16 (UTF-16.E and UTF-16E) and UTF-16E. Dets HJ Options OV Views Output perts Type:	L	► 1: Fi	RowiD Row0 Row1 Row2	Columns: 15 Aunber (me V 39 50 38 53	workolass _{String} State-gov Self-emp-not-L. Private	Number (inte 77516 83311 215646	String Bachelors Bachelors HS-grad	Number (inte 13 13 9	marital-st	occupation String Adm-clerical Exec-manage. Handlers-clea. Handlers-clea.	relations V dring Not-in-family Husband Not-in-family Husband	String White White White	Star Star Star Star Star Star Star Star	ing ale alo ale	Number (inte 2174 0 0	Number (inte 0 0 0	Auriber (inte 40 13 40	United United United
They don't contain any quotes that contain row delivation. They are not gap compressed. They are not gap compressed. The file index is not prepended to the Rewind. The file index is not prepended to the Rewind. They are not encoded with UTF-16 (UTF-16.E and UTF-16E are fine). Ø' Ports H/ Options O Views Output parts File table	L	▶ 1: FI Rows: 3 # 1 2 3 4	RowiD Rowi Rowi Rowi Rowi Rowi	Columns: 15 age Monter (Inte	workclass _{Shing} State-gov Self-emp-not-L. Private Private	Mumber (inte 77516 83311 215646 234721	Bachelors Bachelors HS-grad 11th	Number (Inte., 13 13 9 7	marital-st Sering Never-married Married-civ-s Married-civ-s Married-civ-s	occupation String Adm-clerical Exec-manage. Handlers-clea. Handlers-clea.	relations dring Not-in-family Husband Not-in-family Husband Wife	String White White Black	Starting Sta	ng ale ale ale ale	Muriber (inte 2174 0 0 0	Number (Inte., * 0 0 0 0	Number (inte * 40 13 40 40	United- United- United- United- Cuba
They don't contain any quotes that contain now delivative. They use not gip compressed. They use not gip compressed. The file index is not prepended to the Rewill. They use not encoded with UTF-16 (UTF-16 E and UTF-16 E and UTF-16 E and UTF-16 E and UTF-16 E. AGY Ports H} Options OV Views Output ports Type: File Table File being read with number and types of	L	▶ 1: FI Rows: 3 # 1 2 3 4	RowiD Rowi Rowi Rowi Rowi Rowi Rowi Rowi	Columns: 15 age Aurober (ress	workolass dning State-gov Self-emp-not-L. Private Private Private	Mumber (Intel. 77516 83311 215646 234721 338409	String Bachelors Bachelors HS-grad 11th Bachelors	Number (inte * 13 13 9 7 13	marital-st	occupation String Adm-clerical Exec-managa. Handlers-clea. Prof-specialty	relations dring Not-In-family Husband Not-In-family Husband Wife Wife	String White White Black Black	M M M M Fr Fr	ng ale ale ale ale ale male	Muriber (me 2174 0 0 0 0 0	Number (Inte 0 0 0 0 0 0	Number (inte) 40 13 40 40 40	United United United United Cuba United
They don't contain any quotes that contain now delivative. They use not gip compressed. They use not gip compressed. The file index is not prepended to the Rewill. They use not encoded with UTF-16 (UTF-16 E and UTF-16 E and UTF-16 E and UTF-16 E and UTF-16 E. AGY Ports H} Options OV Views Output ports Type: File Table File being read with number and types of	L	▶ 1: Fi Rows: 3 # 1 2 3 4 5 6	Rowid Rowid Rowid Rowid Rowid Rowid Rowid Rowid Rowid Rowid Rowid Rowid	Columns: 15 age Aurober (http:/// 39 50 53 53 53 53 53 53 53 53 53 53	werkolass Shing State-gov Self-emp-not-L. Private Private Private Private	Mumber (me 77516 83311 215646 234721 338409 284582	Bachelors Bachelors HS-grad 11th Bachelors Masters	Number (http:// 13 13 9 7 13 13 14 5 9	marital-st	occupation String Adm-clerical Exec-managa Handlers-clea Handlers-clea Prof-specialty Exec-managa	relations Shiny Not-In-family Husband Not-In-family Husband Wife Wifa Not-In-family	String White White Black Black Black White	Star M M M M Fe Fe Fe	ing ale ale ale ale male male	Murriser (inte 2174 0 0 0 0 0 0	Munder (inte 0 0 0 0 0 0 0	Number (inte 40 13 40 40 40 40 40	United- United- United- United- Cuba United- Jamak
They don't contain any quotes that contain now delivation. They are not gap compressed. They are not gap compressed. The file index is not prepended to the Rewind. The file index is not prepended to the Rewind. They are not encoded with UTF-16 (UTF-16 LE and UTF-16 E are fine). Joy Ports Hit Options Output ports File Table File bring read with number and types of columns guessed automatically.	L	▶ 1: Fi Rows: 3 # 1 2 3 4 5 5 5 7 8 9	Rowib Rowi Rowi Rowi Rowi Rowi Rowi Rowi Rowi	Columns: 15 age Aurber(http:/// 39 50 53 53 28 53 53 53 53 53 53 53 53 53 53	weekolass deng State-gov Self-amp-not-i Private Private Private Self-amp-not-i Private	Aurobie (Hes., 77516 83311 215646 234721 338409 284582 160187 209642 45781	Bachelors Bachelors HS-grad 11th Bachelors Masters 9th HS-grad Masters	Mumber (inte	marital-st	occupation Shing Admiclerical Execimanaga. Handlers-clea. Prof-specially Execimanaga. Other-service Execimanaga.	relations	String White White Black Black White Black White White White	M M M M M M M M M M M M M M M M M M M	ing ale ale ale male male ale ale ale male	Mumber (hite 2174 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	Number (inte * 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	Mumber (new,	United-3 United-3 United-4 United-4 United-4 United-3 United-4 United-4
They don't contain any quotes that contain now delivative. They use not gip compressed. They use not gip compressed. The file index is not prepended to the Rewill. They use not encoded with UTF-16 (UTF-16 E and UTF-16 E and UTF-16 E and UTF-16 E and UTF-16 E. AGY Ports H} Options OV Views Output ports Type: File Table File being read with number and types of	L	▶ 1: Fi Rows: 3 # 1 2 3 4 5 6	Rowid Rowid Rowid Rowid Rowid Rowid Rowid Rowid Rowid Rowid Rowid Rowid	Columns: 15 age Aurober/orea	workclass Shing State-gov Self-emp-not-L. Private Private Private Self-emp-not-L.	Mumbie (Hes.) 77516 83311 215646 234721 338409 284582 160187 209642	Bachelors Bachelors HS-grad 11th Bachelors Masters 9th HS-grad	Mumber (inte) 13 13 9 7 13 14 5 0 14 13 14 13 14 13 14 13 14 13 13 14 13 14 13 13 13 14 13 14 13 14 13 14 15 15 16 16 17 17 18 18 19 19 19 19 19 19 19 19 19 19	marital-st	occupation Shing Admiclerical Execimanage. Handlers-clea. Prof-specially Execimanage. Other-service Execimanage.	relations ~ Swey Not-In-family Husband Not-In-family Husband Wife Wifa Not-In-family Husband Not-In-family Husband	String White White Black Black Black Black White Black White	M M M M M M M M M M M M M M M M M M M	ing ale ale ale male male male ale	Number (nite 2174 0 0 0 0 0 0 0 0 0 0 0 0 0	Auriber (Inte	Number (inte 40 13 40 40 40 40 40 16 45	United- United- United- United-

Figure 33. Inspect node messages and data at the output port of a node

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

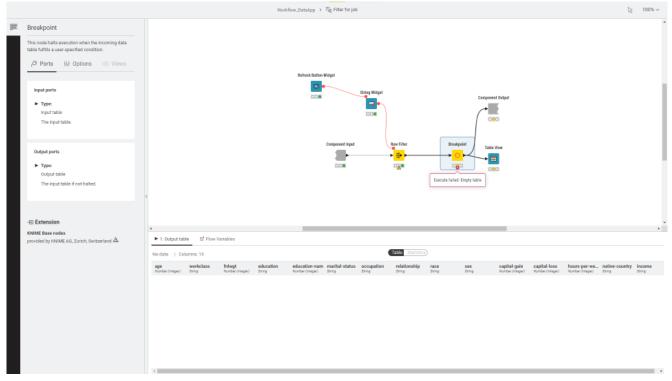


Figure 34. Navigate inside components and metanodes to inspect the incapsulated nodes

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 Embeded Framework (CEF) Browser
- KNIME Integrated Deployment
- KNIME Base Chemistry Types & Nodes
- KNIME Amazon Athena Connector
- KNIME Amazon DynamoDB Nodes
- KNIME Amazon Cloud Connectors
- KNIME Amazon Machine Learning Integration
- KNIME Amazon Redshift Connector And Tools
- KNIME Conda Integration
- KNIME Columnar Table Backend

- KNIME Streaming Execution (Beta)
- KNIME 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 H20 Machine Learning Integration
- KNIME H20 Machine Learning Integration MOJO Extension
- KNIME Extension for MOJO nodes on Spark
- KNIME H20 Sparkling Water Integration
- KNIME Itemset Mining
- KNIME Math Expression (JEP)
- KNIME Indexing and Searching
- KNIME MDF Integration
- KNIME Office 365 Connectors

- KNIME SharePoint List
- KNIME Open Street Map Integration
- KNIME SAS7BDAT Reader
- KNIME Excel Support
- KNIME Power BI Integration
- KNIME Tableau Integration
- KNIME Textprocessing
- KNIME Twitter Connectors
- KNIME External Tool Support (Labs)
- KNIME Google Connectors
- KNIME Google Cloud Storage Connection
- KNIME Javasnippet
- KNIME Plotly
- KNIME Quick Forms
- KNIME JavaScript Views
- KNIME JavaScript Views (Labs)
- KNIME JSON-Processing
- KNIME Extension for Apache Kafka (Preview)
- KNIME Machine Learning Interpretability Extension
- KNIME MongoDB Integration
- KNIME Neighborgram & ParUni
- KNIME Network Mining distance matrix support
- KNIME Network Mining
- KNIME Optimization extension
- KNIME Python Integration
- KNIME Interactive R Statistics Integration
- KNIME Report Designer (BIRT)
- KNIME Reporting
- KNIME REST Client Extension
- KNIME Salesforce Integration

- KNIME SAP Integration based on Theobald Xtract Universal
- KNIME Git Nodes
- KNIME Semantic Web
- KNIME Snowflake Integration
- KNIME Statistics Nodes
- KNIME Statistics Nodes (Labs)
- KNIME Timeseries nodes
- KNIME 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.

Data Apps Portal

To access the Data Apps Portal you can either go to https://apps.hub.knime.com and sign in with your KNIME Hub account or click on the Data Apps Portal link in the menu on your profile page in the KNIME Hub.

Every signed in user can access to this page to see all the data apps that have been shared with them, execute them at any time, interact with the workflow via a user interface, without the need to build a workflow or even know what happens under the hood.

To execute a data app click the corresponding tile. A new page will open in the browser showing the user interface of the data app.

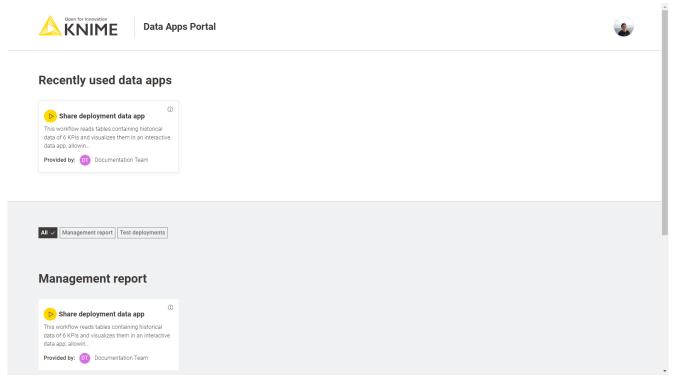


Figure 35. The Data Apps Portal

i

To share a data app deployment with someone follow the instructions in the Manage access to data apps section.

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> -> <</folder></space>	<pre>xapi-key.fileformat></pre>		
	Q Search workflows, nodes and more		Pricing About : S
KNIME Community Hub > Sanket Joshi Team > Spaces > Test	> files		<u>ି</u> ଙ୍କିତ <mark>୭</mark>
			♡ 0 Ø Copy link :
Home > files		φ	
dynamic-bongo-424912-h9-07	722fb84046.json	Φ	

Figure 36. 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>

Dialog - 4:10 - Google Authenticator				
Authentication type				
API Key				\sim
АРІ Кеу				
API key format				
JSON P12				
JSON file				
knime://knime.mountpoint//files/hopeful-land-426212-p6-9c51	fd52ca10.jsc	on		[]
Scopes of access				
-				
-				
How to select scopes Standard Custom				
How to select scopes Standard Custom				Ū
How to select scopes Standard Custom Scope/permission Google Analytics (read-only)				Ū
Scope/permission			× .	Ū
How to select scopes Standard Custom Scope/permission Google Analytics (read-only) Scope/permission			✓	Û

Figure 37. Configuration dialog of Google Authenticator for mountpoint relative path

Workflow relative:

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

] Dialog - 4:10 - Google Authenticator	- 0 X
Authentication type	
API Key	\sim
АРІ Кеу	
API key format	2 3
JSON P12	
JSON file	
knime://knime.workflow//hopeful-land-426212-p6-	9c51fd52ca10.json
Scopes of access	
How to select scopes Standard Custom	
How to select scopes Standard Custom	✓ Ů
Scope/permission	Ŭ
How to select scopes Standard Custom Scope/permission Google Analytics (read-only)	· Ŭ
How to select scopes Standard Custom Scope/permission Google Analytics (read-only) Scope/permission Scope/permission	Ŭ



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.

	– 🗆 X
Authentication type	
API Key	\sim
API Key	
API key format	0
JSON P12	
JSON file	
knime://knime.workflow/data/hopeful-land-42621	2-p6-9c51fd52ca10.json
Scopes of access	
How to select scopes	
How to select scopes Standard Custom	
Standard Custom	
Standard Custom	✓ Ü
Standard Custom Scope/permission Google Analytics	
Scope/permission	✓ Ü
Standard Custom Scope/permission Google Analytics Scope/permission	 ✓ ✓ ✓

Figure 39. 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.

river			
D:	bigquery_154 Data	abase type:	bigquery
ame:	bigquery		
escription:			
RL template:	jdbc:bigquery:// <host>:<port>;ProjectId=<database></database></port></host>		
URL templat	e syntax information 💿		
lasspath			
:\Users\Dari	a Tombolelli\Downloads\knime_downloads\SimbaJDBCDriverforGoogleBigQuery42_1.5.	.4.1008	Add file
			Add director
			Remove
		li	Up
			Down
iver class: iver version:		nd driver cla	asses

Figure 40. 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.

🛕 Dialog - 3:5 - Go	oogle BigQuery Co	nnector		_		×
File						
Input Type Mappin Connection	na Output Type on Settings	e Mapping Flow	v Variables I rameters		ger Selecti Advanced	ion
Configuration						
Database Dialect:	Google BigQuery					\sim
Database Driver:	Use latest drive	r version available				
	bigquery [ID: bigqu	ery_154]				\sim
Location Hostname				Po	rt	
https://www.googl	eapis.com/bigquery/v	2		~	443	÷
Database name						
				~		
[ОК	Apply	Cancel	0]	

Figure 41. 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.

Dialog - 3:1 - Microsoft Authenticator	—		\times
Authentication type			
Azure Storage shared key		`	\sim
Shared Key			
Shared Key			
Storage account name and shared/access key			
Storage account name and shared/access key Storage account name			

Figure 42. 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	
2024-07-03	
11 [^]	÷.
Repeat execution	
Set schedule details Set >	
Email notifications	
Setup email notifications of the workflow execution.	- 11
Enable email notifications	
Configuration options	
Control the parametrization of the workflow execution.	
Label	
Username	
Password	
Advanced settings	
Change job lifecycle behavior, timeouts, Set >	-
Cancel	

Figure 43. 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.

🛕 Dialog - 3:4 - Azure 🛛)ata Lake St	orage Gen2	Connector		_		×
File							
Settings Advanced Flo	w Variables	Job Manage	er Selection				
File system settings							
Working directory: /te	est			~		Browse	
1							
		ок	Apple	Cancel		2	
		UK	Apply	Cancel		D	

Figure 44. Configuration dialog of Azure Data Lake Storage Gen2 Connector node

📩 Dialog - 3:5 - Azure Blob Storage Connector –	- 🗆	×
File		
Settings Advanced Flow Variables Job Manager Selection		
File system settings		
Working directory: /test ~	Browse.	
✓ Normalize paths		
OK Apply Cancel		

Figure 45. Configuration dialog of Azure Blob Storage Connector node

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

	:3 - Excel Rea	der						—	
2									
ile and Shee	t Data Area	Advanced	Transformation	Flow Variables	Job Manager Selection	Memory Policy			
	on Azure Data La O File () File		Gen2 🗸						
	Products.xlsx						~	Browse.	 V

Figure 46. 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.

Solution of the second sec	×
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 0	J
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.	
Username	
Password	
Advanced settings	
Change job lifecycle behavior, timeouts, Set >	•
Cancel	

Figure 47. 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 48. Configuration dialog to register a new database drive
--	--

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.

athena_211

athena

📐 Register new database driver

Driver

Name:

Description:

ID:

Database type: athena

 \times

~

URL template:	jdbc:awsathena:// <host>:<port></port></host>		
 URL template 	syntax information 💿		
Classpath			
C:\Users\Daria	a Tombolelli\Downloads\knime_downloads\AthenaJDBC42-2.1	.1.1001.jar	Add file
			Add directory
			Remove
			Up
			Down
Driver class:	com.simba.athena.jdbc.Driver ~	Find driver cl	asses
Driver version:	2.1.0		
		OK	Cancel

-	nazon Athena Connector	- 0	×
le			
	nd Output Type Mapping Flow Variables on Settings JDBC Parameters	Job Manager Selectio Advanced	n
Configuration			
Database Dialect:	Amazon Athena		\sim
Database Driver:	Use latest driver version available		
	athena [ID: athena_211]		\sim
Location Hostname		Port	
athena.us-east-1.a	mazonaws.com	~ 443	-
Staging Location			
S3 Directory:		✓ Browse	V.
	OK Apply Cance	el 🕐	

Figure 49. Configuration dialog of the Amazon Athena Connector node

Advanced settings

IP whitelisting



Relying solely on IP whitelisting for security is insufficient and potentially risky.

KNIME Community Hub has a dedicated static IP address that execution contexts use: 3.66.133.75. Whitelisting this IP address ensures that your workflows can reach the remote data location.

As this IP address is **shared** between **all execution contexts** of every Team on Community Hub, IP whitelisting in itself as a secure connection is **not recommend** (as other teams on the Hub might also access your data).

It is **strongly advised** to use it in **combination** with other **security mechanisms**. For example: credential based authentication. In this case, rotating/changing the credentials periodically is recommended as a best practice.





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

The KNIME® trademark and logo and OPEN FOR INNOVATION® trademark are used by KNIME AG under license from KNIME GmbH, and are registered in the United States. KNIME® is also registered in Germany.