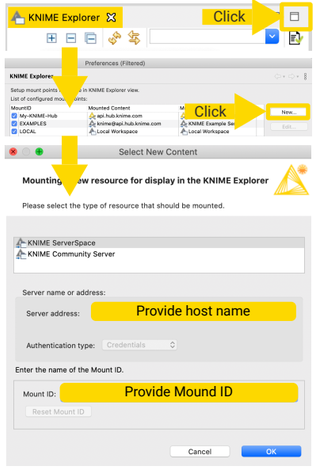
Cheat Sheet: Working with KNIME Server: How to...

Open for Innovation
KNIME

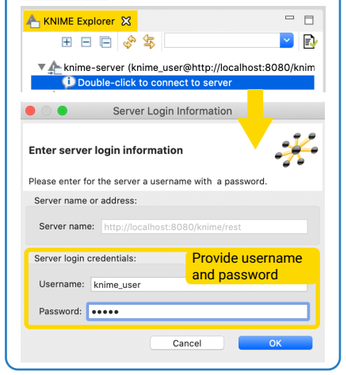
...connect to KNIME Server from KNIME Analytics Platform?

Step 1: Set up a connection (only the first time)



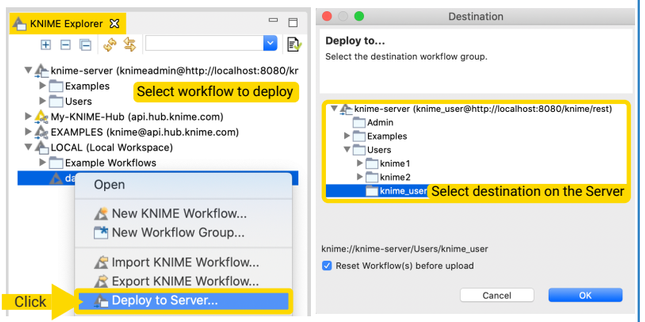
Tip: Your KNIME Server admin knows the host name

Step 2: Sign in



COLLABORATION

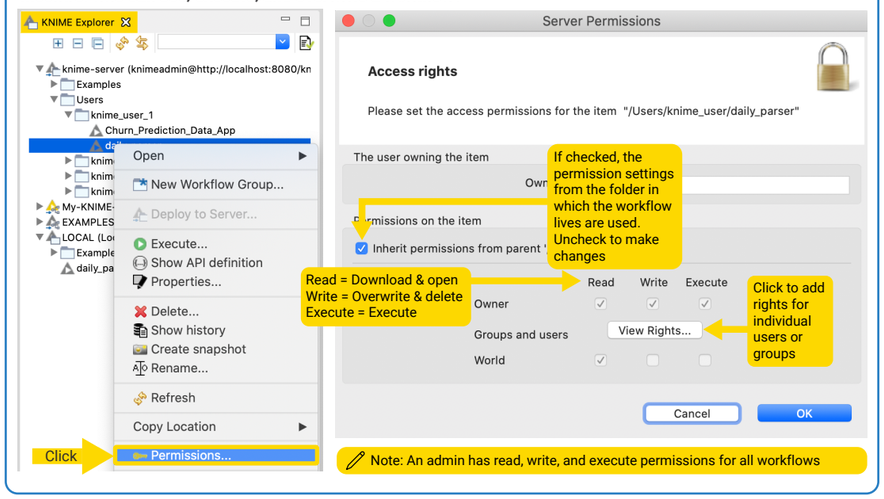
...upload a workflow to KNIME Server?



Tip: Another option is to copy & paste the workflow to the Server

Important: Reset the workflow before using copy & paste

...control who can see, execute, and overwrite a workflow?



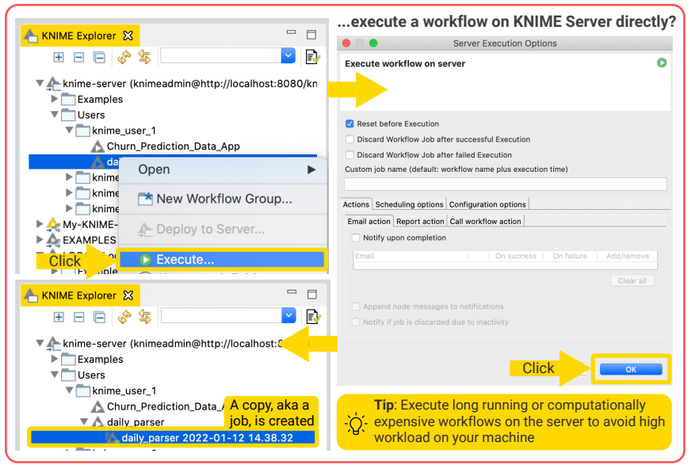
Note: An admin has read, write, and execute permissions for all workflows

Checklist: Is your workflow Server-ready?

- ☐ Do all reader nodes use non-local file paths?
- ☐ Do all writer nodes use non-local file paths?
- ☐ Is your workflow documented so that your colleagues can understand it?
- ☐ Did you reset your workflow before or while uploading it?
- ☐ Does your workflow close all DB Connections?
- ☐ Do you pass all your credentials via credentials configuration / widget nodes?

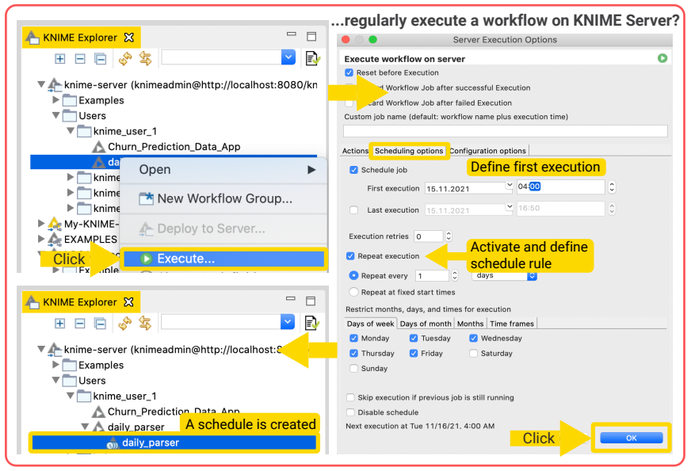
AUTOMATION

...execute a workflow on KNIME Server directly?



Tip: Execute long running or computationally expensive workflows on the server to avoid high workload on your machine

...regularly execute a workflow on KNIME Server?



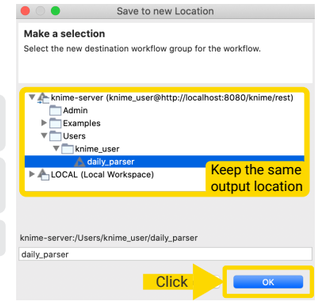
...change/ update a workflow on KNIME Server?

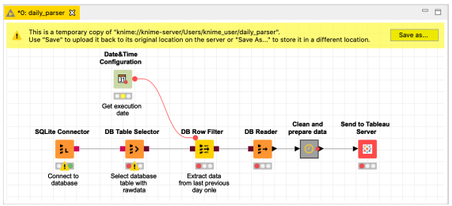
Step 1: Search for your workflow/job in the KNIME Explorer

Step 2: Double-click the workflow to open local copy

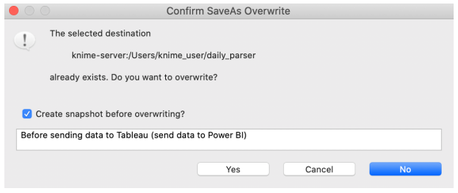
Step 3: Change / Update the workflow

Step 4: Click on "Save As..."





Step 5: Save the previous version as Snapshot. Add a comment describing the precious version.

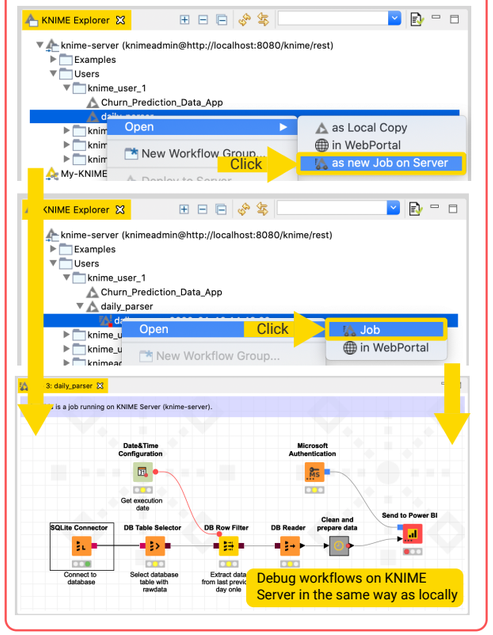


Tip: You can also create a snapshot of a workflow by right-clicking it and selecting "Create snapshot"

...change / debug a workflow or job on KNIME Server?

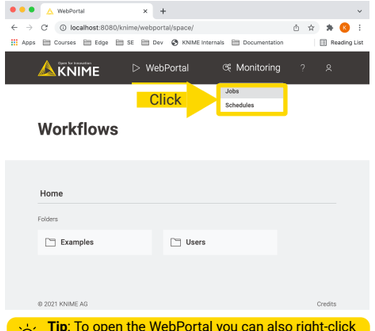
Step 1: Install the extension "KNIME Remote Workflow Editor"

Step 2: Search for your workflow/job in the KNIME Explorer



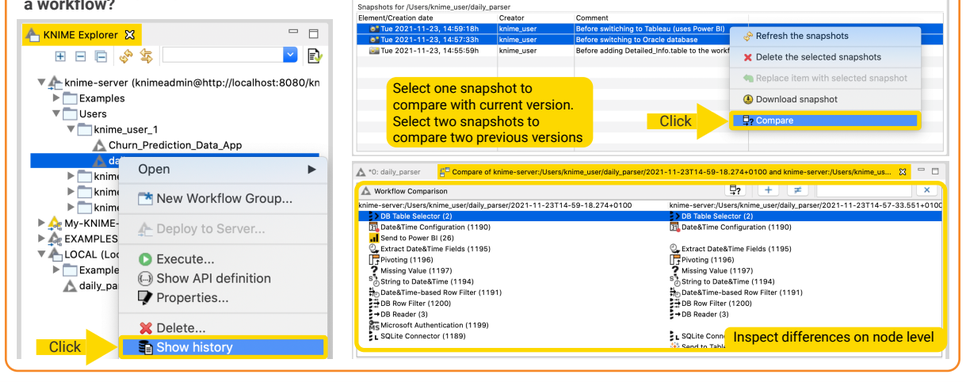
MANAGEMENT

...see all jobs/schedules on KNIME Server?



Tip: To open the WebPortal you can also right-click a workflow and select "Open" => "In WebPortal"

...see and compare previous versions of a workflow?



DEPLOYMENT

...build and share a data app / a workflow that can be executed and shared via a Web Browser?

Step 1: Build the workflow with default values
Step 2: Define the values / selections / tables / visualization a user wants to change / see
Step 3: Think about when a user's input in the workflow is necessary, add a widget node before, and use the output to control the workflow
Step 4: Define which input options and views should be on one page
Step 5: Define which parts of a page should be updated after a user input and implement that via a Refresh Button Widget node or the Re-execution tab of a widget node (optional)
Step 6: Create for each page of your data app one component with the widget and view nodes that should be included in the view, plus intermediate nodes
Step 7: Define the layout for each component
Step 8: Upload the workflow to KNIME Server and open it on the KNIME WebPortal via right click "Open" => "In WebPortal"
Step 9: Test your workflow on the WebPortal
Step 10: Share the link to the workflow with your colleagues

...manage and monitor KNIME Server via REST?

Login to the KNIME WebPortal, click the "?" in the header and open the KNIME Server REST API documentation to get an overview of the REST endpoint and their usage.

...build and deploy a REST Service?

Step 1: Define the input for your REST Service via a Container Input node
Step 2: Define the output for you REST Service via a Container Output node
Step 3: Upload your workflow to KNIME Server
Step 4: Right-click your workflow and select "Show API definition" to try out your REST Service and to copy the URL for other applications

Resources

E-Books: KNIME Advanced Luck covers advanced features & more. Practicing Data Science is a collection of data science case studies from past projects. Both available at knime.com/knimepress

KNIME Blog: Engaging topics, challenges, industry news, & knowledge nuggets at knime.com/blog

E-Learning Courses: Take our free online self-paced courses to learn about the different steps in a data science project (with exercises & solutions to test your knowledge) at knime.com/knime-self-paced-courses

KNIME Hub: Browse and share workflows, nodes, and components. Add ratings, or comments to other workflows at hub.knime.com

KNIME Forum: Join our global community & engage in conversations at forum.knime.com

KNIME Server: For team-based collaboration, automation, management, & deployment check out KNIME Server at knime.com/knime-server

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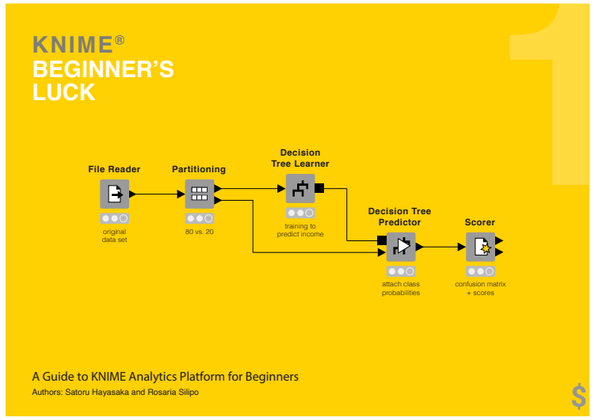

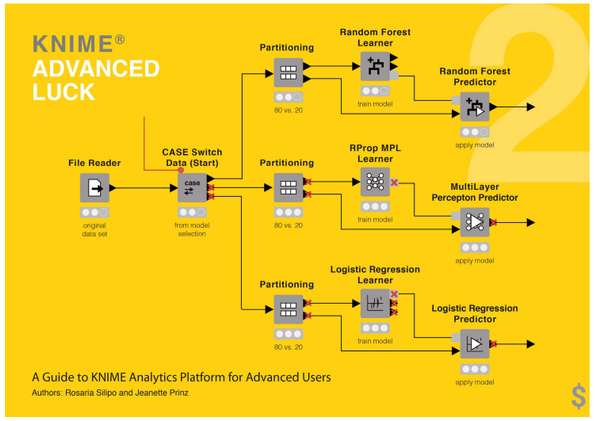

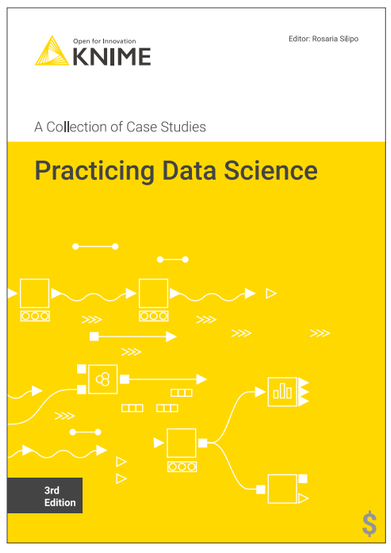

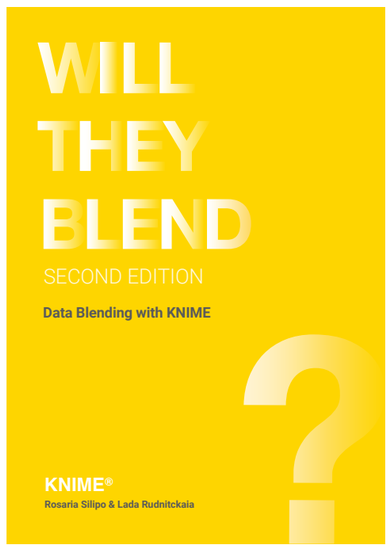

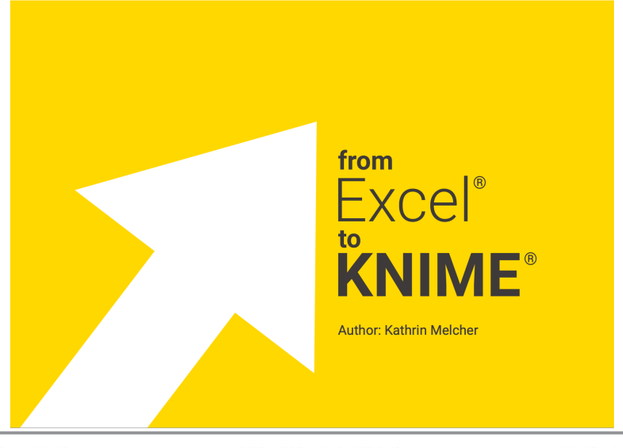

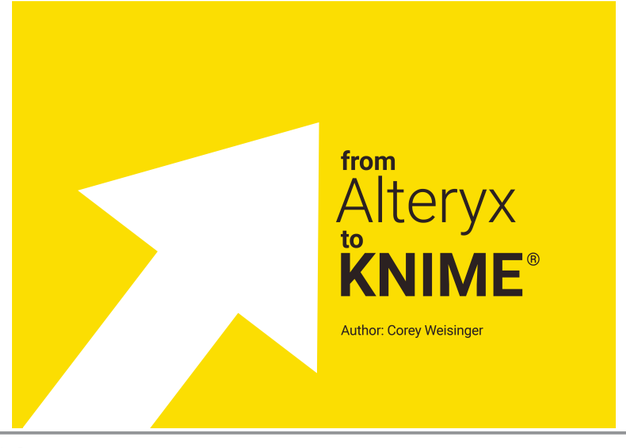

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