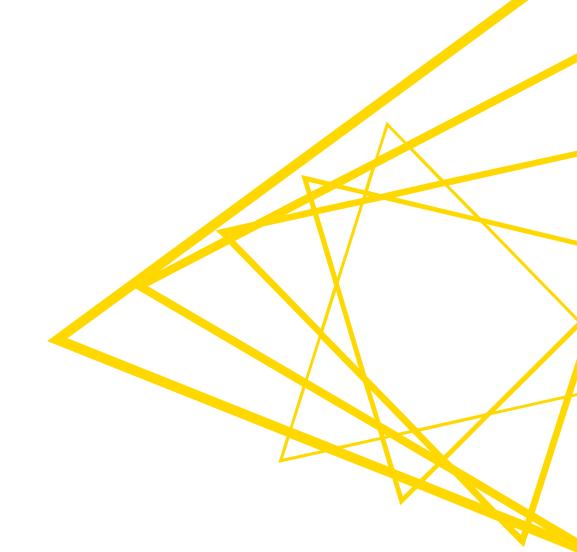


What's new in deployment

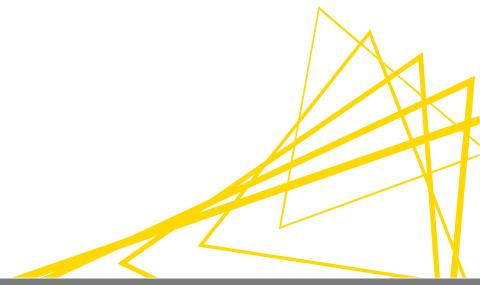
Greg Landrum (for the KNIME team)

20 March 2019





Demo



Making your work or its output available to others

Making your work or its output available to others

Machines

People

Making your work or its output available to others

Machines

- People
 - Business Users (customers, stakeholders, management, etc)
 - Casual Users
 - Data Scientists

Making the output of your work available to others

- Machines
 - Updated databases
 - Triggered web services
 - Files

- People (business users, casual users, data scientists)
 - Reports (PDF, etc)
 - Files

Making your work available to others

- Machines
 - Web services

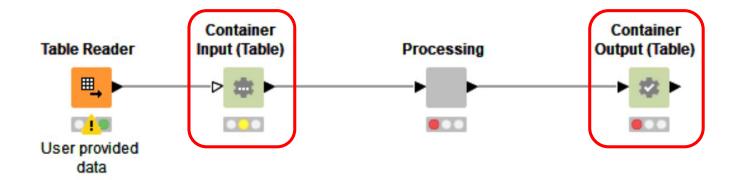
- People (business users, casual users, data scientists)
 - Sharing workflows, wrapped metanodes
 - Creating web applications
 - Guided Analytics, Guided Automation

Deploying for machines: creating web services

 Step 1: Copy/deploy properly prepared workflow to KNIME Server

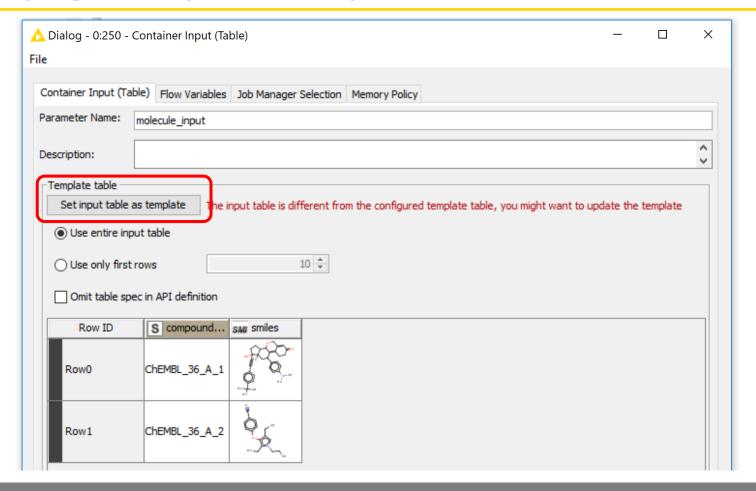
Deploying for machines: creating web services

- Step 1: Copy/deploy properly prepared workflow to KNIME Server
- That's it

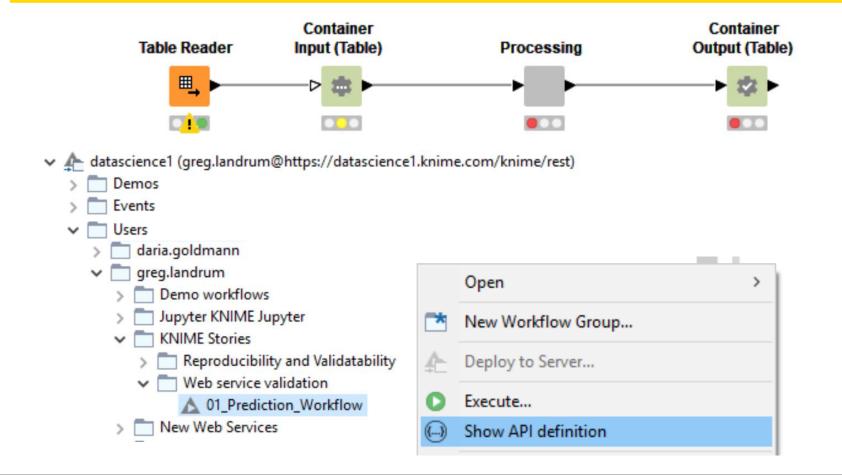


Container Input/Output (Table)
Container Input/Output (JSON)

Specifying the input table spec



How do I call the service?





Input spec in Swagger UI

```
Request body
                                                                       application/json
Inline input parameters for the job
Example Value | Schema
   "molecule_input-250": {
     "table-spec": [
          "compound_id": "string"
          "smiles": "Smiles"
     "table-data": [
          "ChEMBL_36_A_1",
          "CN(C)clccc(C2CC3(C)C(CCC3(0)C#Cc3ccc(C(C)(C)C)cc3)C30CC4=CC(=0)CCC4=C23)cc1"
          "ChEMBL_36_A_2",
          "CCc1cn(CCN)c(CC)c10c1ccc(C#N)cc1"
```

Managed Scoring Service

- Globally deploy KNIME "models" as web services without having to worry about servers / infrastructure / etc.
- Automatically scales to handle load
- A KNIME-managed service

 Work in progress; talk to Jim, Jason, or Jon for more details













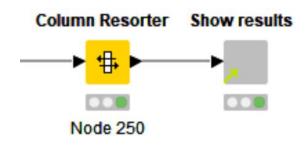
Deploying for people

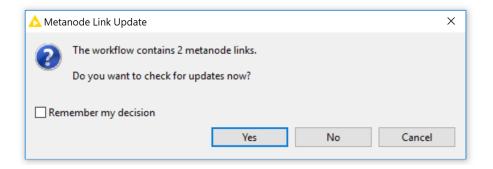
- For KNIME Analytics Platform users (casual users, data scientists)
- For everyone else (business users)

Sharing workflows/wrapped metanodes with the KNIME Server

- Share workflows
- Share wrapped metanodes encapsulating useful/tricky functionality by

Can be automatically updated when opening the workflow

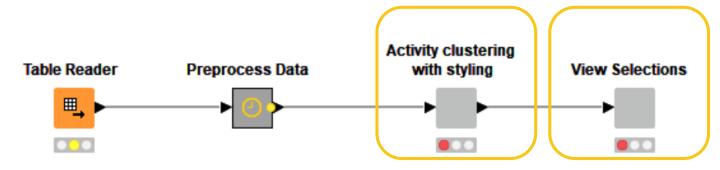




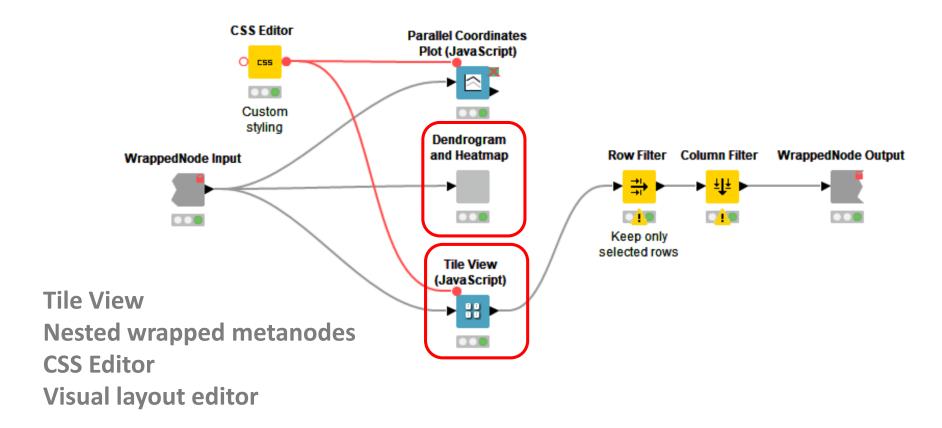
Creating web applications with the KNIME Server

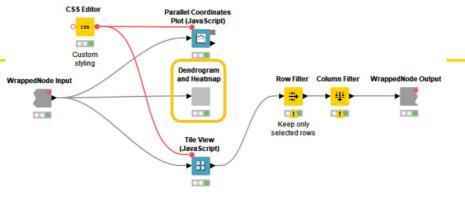
Using the WebPortal

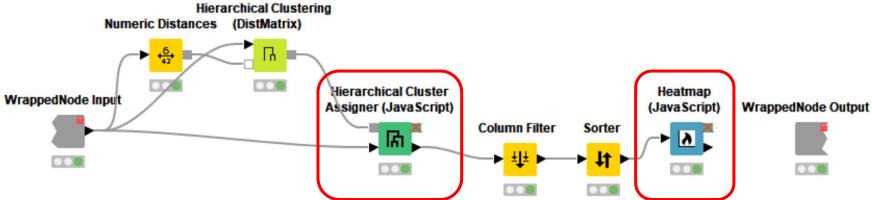
- Copy workflows to server
- Wrapped metanodes become web pages







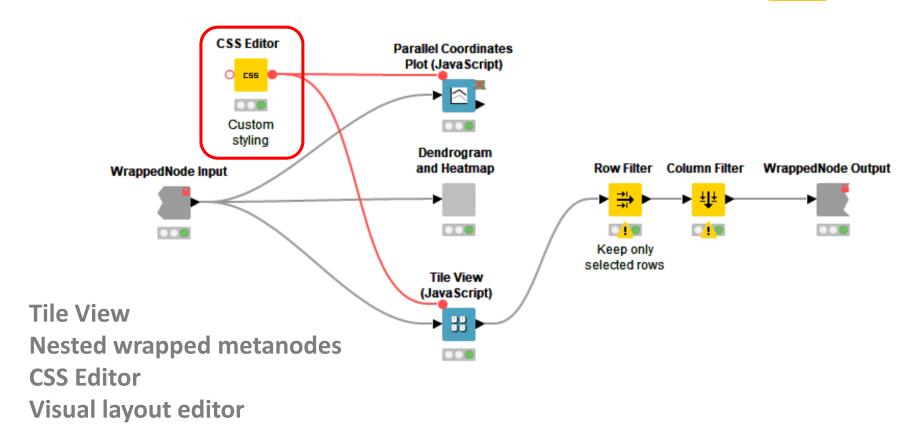




Hierarchical Cluster Assigner Heatmap





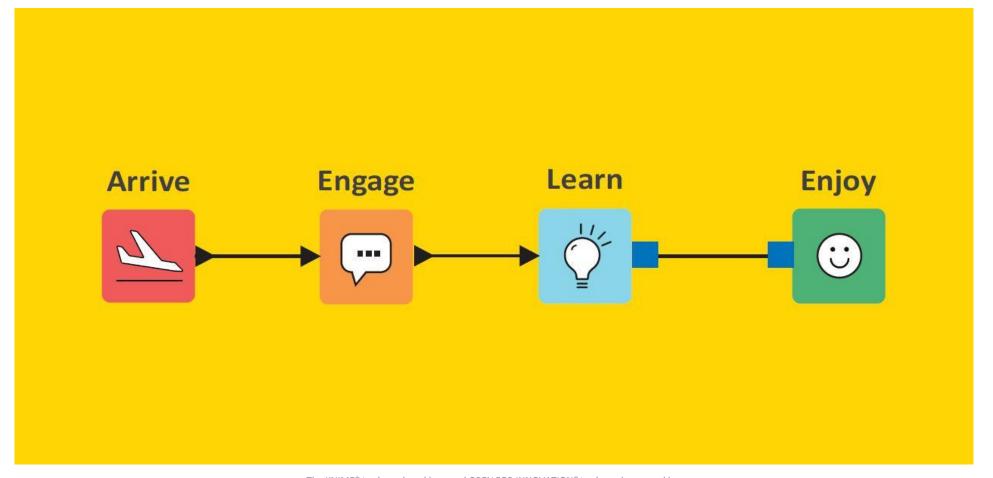


Making your work or its output available to others with the KNIME Server

Machines

- People
 - Business users
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 - Data scientists





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