What’s new in deployment

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#KNIMESummit2019
Demo
Deployment?

Making your work or its output available to others
Deployment?

Making your work or its output available to others

- Machines
- People
Deployment?

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
What’s new?

Container Input/Output (Table)
Container Input/Output (JSON)
Specifying the input table spec
How do I call the service?
Input spec in Swagger UI

```
{
  "molecule_input-250": {
    "table-spec": [
      {
        "compound_id": "string"
      },
      {
        "smiles": "Smiles"
      }
    ],
    "table-data": [
      "ChEMBL_36_A_1",
      "CN(C)\c1ccc(C2\cCc3(C)\cCc1)\cC\cCc3=CC\cCc1\cC\cC\cCc3\cC\cC\cCc1\cC30CC4=CC(=O)CCC4=CC23\cCc1"
    ],
    "ChEMBL_36_A_2",
    "CC\cC1cn(CCN)c(C)\c1O\c1ccc(C\cM)\cCc1"
  }
}
```
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
What’s new?

- Tile View
- Nested wrapped metanodes
- CSS Editor
- Visual layout editor
What’s new?

Hierarchical Cluster Assigner
Heatmap
What’s new?

Tile View
Nested wrapped metanodes
CSS Editor
Visual layout editor
Deployment?

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

• Machines

• People
  – Business users
  – Casual users
  – Data scientists