Working with BioVeL Portal

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http://www.taverna.org.uk/

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Running your workflow in BioVeL

• Go to http://portal.biovel.eu
• Login or set up a user account
  • If you are not part of any of the listed projects or Institutions please select “Training” and “Others”
  • You will not be able to run workflows until approved.
Running your workflow in BioVeL

• In this short tutorial we will work with the BioVeL portal

• We will upload the Species_Occurrence workflow which we created in the “Using BiodiversityCatalogue” tutorial and run it in the portal
  • Available from http://www.myexperiment.org/workflows/4484.html
Upload the workflow

• Click on the Workflows tab

• Then click Upload a workflow
Upload the workflow

• You can upload a workflow from your local drive
• Select a suitable category such as “Other”
• Tick “Allow data sweeps” if you want to be able run the same workflow over multiple data values
Upload the workflow

- Workflows are associated with a project
- Select “Training” and then click “Associate with this Workflow”
- If you joined the portal, in a project different to “Training” please use that one instead.
Upload the workflow

- You can leave the Sharing as private
- Then click “Next”
Upload the workflow

- We can now categorize the inputs and outputs, and specify the type their value has
- Set sciName’s type to “Plain text document” and locatedOccurrences to XML document
- Click “Save Changes”
Workflow information

• You can see the information about the workflow is now visible in the portal
Running a workflow

• Now we can run our uploaded workflow in the portal

• Click on “Run workflow”
Running a workflow - 2

• You can now enter values for the inputs
• For the first run, use the example value
• Click “Start Run”
Running a workflow - 3

- And the workflow should run...
- When finished you will see the results in the browser page
Running a workflow - 4

- You can download all the results in a zip file

- Or download an individual result
Creating a sweep

• Go back to the workflow

• Click **Run data sweep**
Sweep data

• For each workflow input, you can choose to iterate over it (change its value over the sweep) – otherwise you will give a fixed value for all iterations

• We are sweeping over sciName so leave it ticked

• For each iteration specify the input values
  • To create a new iteration click Add Iteration
Starting the sweep

• You can use any species names
• Create two additional iterations
• Use
  • Limulus polyphemus
  • Kogia breviceps
  • Marmota marmot
  as the three sciName values
• Warning: Make sure there is no space or newline after the values
• Warning: Don’t press Add Iteration after entering the values of the last sweep or it will create an additional blank sweep

• Click Start sweep
Running sweeps

• You will see the state of the sweep iterations
  • perhaps queued then
  • Running then
  • Finished
Viewing sweep results

- When a sweep iteration has finished you can click on the Run and view it (as we did before)
- You can view results from the Sweep page by clicking on (View) in the Sweep results table
- You can also pick which values to download
Portal summary

• You now know how to upload a workflow to the portal
• Describe the ports of the workflow
• Perform a single workflow run
• Use the workflow to sweep over data values