

Arvados - Story #9767

[Crunch2][Workbench] Extend pipeline template chooser to browse CWL workflows

08/09/2016 06:14 PM - Tom Morris

Status:	Resolved	Start date:	08/24/2016
Priority:	Normal	Due date:	
Assigned To:	Radhika Chippada	% Done:	100%
Category:		Estimated time:	0.00 hour
Target version:	2016-08-31 sprint		
Description			
<ul style="list-style-type: none">• In dashboard, when the "Run a pipeline" button is clicked, show pipeline_templates and workflows in the chooser popup.<ul style="list-style-type: none">◦ Do we want to rename this button as "Run a process"?• When this button is pressed and a workflow is selected:<ul style="list-style-type: none">◦ Show the workflow details in the preview panel.◦ When one of the workflows is selected and the "Select inputs" button is pressed: create a ContainerRequest with the data from the workflow and take the user to the container_request show page.			
Subtasks:			
Task # 9847: Add a URL to workflow in the container_request#show page			Resolved
Task # 9880: Review branch 9767-workflow-link-in-container-request			Resolved
Task # 9811: Review branch 9767-workflows-in-chooser			Resolved

Associated revisions

Revision 1062d902 - 08/25/2016 03:46 PM - Radhika Chippada

refs #9767

Merge branch '9767-workflows-in-chooser'

Revision a87fd176 - 08/30/2016 08:59 PM - Radhika Chippada

closes #9767

Merge branch '9767-workflow-link-in-container-request'

History

#1 - 08/09/2016 06:24 PM - Tom Morris

- Story points set to 2.0

#2 - 08/16/2016 06:13 PM - Tom Clegg

- Subject changed from [Crunch2][Workbench] Extend pipeline template display to browse CWL workflows to [Crunch2][Workbench] Extend pipeline template chooser to browse CWL workflows

#3 - 08/16/2016 06:18 PM - Tom Morris

- Target version set to Arvados Future Sprints

#4 - 08/17/2016 01:09 AM - Radhika Chippada

- Description updated

#5 - 08/17/2016 01:23 AM - Tom Morris

- Tracker changed from Bug to Story

#6 - 08/17/2016 01:24 AM - Radhika Chippada

- Description updated

- Is the workflow yaml from the selected Workflow object going to contain all the necessary information to fill in the required fields of a container_request, namely, command, container_image, output_path, and cwd?

- Also, what values should be used for the runtime_constraints of the newly created ContainerRequest?
- Do we need to expand the container_request schema to preserve / remember the selected Workflow uuid in the container_request?
 - Do we need to expand the container_request show page to display a link to the Workflow (similar to a pipeline_instance display)?

#7 - 08/17/2016 07:24 PM - Tom Morris

- Story points changed from 2.0 to 3.0

#8 - 08/17/2016 07:24 PM - Tom Morris

- Target version changed from Arvados Future Sprints to 2016-08-31 sprint

#9 - 08/17/2016 07:55 PM - Peter Amstutz

The newly created container request should set up the following mounts:

```

    "mounts": {
      "/var/lib/cwl/workflow.json": {
        "kind": "json",
        "content": {"class": "Workflow", ...},
      },
      "/var/lib/cwl/cwl.input.json": {
        "kind": "json",
        "content": {}
      }
    }

```

(note: edited "/var/lib/cwl/jobs/cwl.input.json" -> "/var/lib/cwl/cwl.input.json")

#10 - 08/17/2016 07:58 PM - Tom Clegg

Sounds good to me.

#11 - 08/17/2016 08:01 PM - Radhika Chippada

- Assigned To set to Radhika Chippada

#12 - 08/17/2016 08:21 PM - Peter Amstutz

```

{
  "command": ["arvados-cwl-runner", "--local", "--api=containers", "/var/lib/cwl/workflow.json", "/var/lib/cwl/cwl.input.json"],
  "output_path": "/var/spool/cwl",
  "cwd": "/var/spool/cwl",
  "priority": 1,
  "state": "Uncommitted",
  "container_image": "arvados/jobs",
  "mounts": {
    "/var/lib/cwl/workflow.json": {
      "kind": "json",
      "content": {"class": "Workflow", ...},
    },
    "/var/lib/cwl/cwl.input.json": {
      "kind": "json",
      "content": {}
    },
  },
  "stdout": {
    "kind": "file",
    "path": "/var/spool/cwl/cwl.output.json"
  },
  "/var/spool/cwl": {
    "kind": "collection",
    "writable": True
  }
},
"runtime_constraints": {
  "vcpus": 1,
  "ram": 256000000,
  "API": True
}
}

```

#13 - 08/17/2016 08:30 PM - Peter Amstutz

The above container request is based on the one already in use by arvados-cwl-runner --submit so it should work.

#14 - 08/18/2016 04:01 PM - Radhika Chippada

- Status changed from New to In Progress

#15 - 08/18/2016 04:03 PM - Radhika Chippada

- Description updated

#16 - 08/23/2016 04:16 PM - Radhika Chippada

Please clarify the workflow.json mount point's content attribute. What key name should I use to pass the workflow json? Thanks.

```
"mounts": {
  "/var/lib/cwl/workflow.json": {
    "kind": "json",
    "content": {"class": "Workflow", ...},
  },
}
```

#17 - 08/23/2016 04:19 PM - Peter Amstutz

Radhika Chippada wrote:

Please clarify the workflow.json mount point's content attribute. What key name should I use to pass the workflow json? Thanks.

The content of the "workflow" field from the "workflow" record should be assigned to the "content" field under "/var/lib/cwl/workflow.json".

#18 - 08/24/2016 11:46 AM - Radhika Chippada

Branch 9767-workflows-in-chooser is ready for review at [c837f9d95](#)

I manually added workflow yaml to [4xphq-7fd4e-2fkoj19vfnbc6j1](#), and created the container_request [4xphq-xvhdp-emh6i3cmt038ssa](#) via the dashboard. (And I am able to see the inputs I added in the yaml in [#9043](#) branch updates)

#19 - 08/24/2016 05:35 PM - Peter Amstutz

In work_units_controller.rb:51

```
wf_json = JSON.dump(YAML::load(workflow.workflow))
```

The mounts field is a structured/serialized field, so this should be:

```
wf_json = YAML::load(workflow.workflow)
```

For the chooser title, instead of "Choose a pipeline or process to run" suggest this say "Choose a pipeline or workflow to run".

In the chooser, I'm not sure showing the raw text of the workflow is very useful. Perhaps remove the workflow text, and if there is no description, perhaps render "No description provided" so that the box isn't empty?

#20 - 08/24/2016 05:38 PM - Tom Clegg

Don't forget to add safe_yaml, if Workbench is parsing user-supplied YAML.

#21 - 08/24/2016 06:30 PM - Peter Amstutz

The container requests page should have a link back to the workflow object, similar to the way the pipeline instance page has a link to the pipeline template.

Suggest setting a default container request name based on the name of the workflow. Something like "%s container" or "%s run" (where %s = the workflow name).

#22 - 08/24/2016 06:58 PM - Radhika Chippada

```
wf_json = JSON.dump(YAML::load(workflow.workflow)) ... wf_json = YAML::load(workflow.workflow)
```

Updated

For the chooser title, instead of "Choose a pipeline or process to run" suggest this say "Choose a pipeline or workflow to run".

Done

In the chooser, I'm not sure showing the raw text of the workflow is very useful. Perhaps remove the workflow text, and if there is no description, perhaps render "No description provided" so that the box isn't empty?

Removed the workflow display from preview pane

Tom said: Don't forget to add `safe_yaml`, if Workbench is parsing user-supplied YAML.

Added `safe_yaml` gem and updated the `load_config` similar to API `load_config`

The container requests page should have a link back to the workflow object, similar to the way the pipeline instance page has a link to the pipeline template.

Will do this in a separate branch. Created task [#9847](#)

Suggest setting a default container request name based on the name of the workflow. Something like "%s container" or "%s run" (where %s = the workflow name).

Added this

#23 - 08/25/2016 01:35 PM - Peter Amstutz

The "Run a pipeline..." on project pages should also be updated to display workflows in the chooser dialog.

#24 - 08/25/2016 03:01 PM - Radhika Chippada

Good catch. Commit [a485bcb2](#) addresses this. Thanks.

#25 - 08/25/2016 03:42 PM - Peter Amstutz

[a485bcb](#) LGTM, thanks.

#26 - 08/30/2016 02:53 PM - Radhika Chippada

Branch 9767-workflow-link-in-container-request at [ac36412](#) adds a link to workflow in the `container_request#show` page.

#27 - 08/30/2016 08:23 PM - Peter Amstutz

9767-workflow-link-in-container-request @ commit:a720aab7961883fe3541dc68ed7ad0d5f91edbee LGTM

#28 - 08/30/2016 09:15 PM - Radhika Chippada

- Status changed from *In Progress* to *Resolved*

- % Done changed from 67 to 100

Applied in changeset `arvados|commit:a87fd176c3248699cbaaa45b815c8a34b3f5f11b`.