

Arvados - Bug #10186

[Crunch2] Support dispatching to multiple SLURM partitions

10/04/2016 06:20 PM - Tom Morris

Status:	Resolved	Start date:	10/06/2016
Priority:	Normal	Due date:	
Assigned To:	Peter Amstutz	% Done:	100%
Category:		Estimated time:	0.00 hour
Target version:	2016-10-12 sprint		
Description			
Subtasks:			
Task # 10199: crunch-dispatch-slurm gets partition from runtime constraints			Resolved
Task # 10198: Add partition to RuntimeConstraints hint in arvados-cwl-runner			Resolved
Task # 10201: Review 10186-crunch2-slurm-partition			Resolved

Associated revisions

Revision 9f35a3cf - 10/11/2016 05:30 PM - Peter Amstutz

Merge branch '10186-crunch2-slurm-partition' closes #10186

History

#1 - 10/04/2016 06:30 PM - Tom Morris

- Target version set to 2016-10-12 sprint
- Story points set to 1.0

Define new run time constraint called "Partition".

Add support to arvados dispatch slurm map to sbatch argument.

#2 - 10/06/2016 04:18 PM - Peter Amstutz

- Assigned To set to Peter Amstutz

#3 - 10/06/2016 08:16 PM - Peter Amstutz

- Status changed from New to In Progress

#4 - 10/07/2016 02:56 PM - Lucas Di Pentima

The title for this ticket talks about "multiple partitions" but the code only refers to partition in singular.

Reading sbatch documentation, it seems that passing a comma separated string can be used to dispatch to multiple partitions, but at least for me it's not clear because of the constraints and variable naming.

If the objective is really to dispatch to multiple partitions, can the runtime constraint be defined as an array of strings that get translated to the appropriate comma separated string?

#5 - 10/07/2016 03:15 PM - Peter Amstutz

Lucas Di Pentima wrote:

The title for this ticket talks about "multiple partitions" but the code only refers to partition in singular.

Reading squeue documentation, it seems that passing a comma separated string can be used to dispatch to multiple partitions, but at least for me it's not clear because of the constraints and variable naming.

If the objective is really to dispatch to multiple partitions, can the runtime constraint be defined as an array of strings that get translated to the appropriate comma separated string?

The intent was "select a partition among multiple partitions" instead of being restricted to either the default partition or a single explicitly configured partition in SbatchArguments. However, you're right, the more general version of this feature should allow listing multiple partitions.

I realize that this branch is also missing a documentation update. Will work on it.

#6 - 10/07/2016 06:58 PM - Peter Amstutz

Now @ [a5ce43cd7493e17fe1bb5f67451957b283881228](#)

"partition" takes array of strings. Documentation is updated.

Test job: <https://ci.curoverse.com/job/developer-run-tests/>

#7 - 10/07/2016 07:37 PM - Lucas Di Pentima

LGTM, please merge.

#8 - 10/11/2016 05:35 PM - Peter Amstutz

- *Status changed from In Progress to Resolved*

Applied in changeset arvados|commit:9f35a3cf10e5d261d83556d5b33f242966101f02.