

Arvados - Story #9132

[Crunch2] crunch-run uses official docker client library

05/03/2016 05:23 PM - Peter Amstutz

Status:	Resolved	Start date:	03/08/2017
Priority:	Normal	Due date:	
Assigned To:	Peter Amstutz	% Done:	100%
Category:		Estimated time:	0.00 hour
Target version:	2017-04-12 sprint		
Description			
Current crunch-run is using curoverse/dockerclient, but this is not actively maintained and lacks support for attaching stdin. The supported Go API for Docker is Docker's own client code https://github.com/docker/docker/tree/master/client			
This should be a straight-across port to equivalent functionality.			
Subtasks:			
Task # 11192: Review 9132-dockerclient			Resolved
Task # 11367: Need to pass CWL tests			Resolved
Task # 11224: Update API usage			Resolved
Related issues:			
Blocks Arvados - Feature #8465: [Crunch2] Support stdin/stderr redirection		Resolved	04/07/2017

Associated revisions

Revision b9236fbe - 03/31/2017 02:41 PM - Peter Amstutz

Merge branch '9132-dockerclient' closes #9132

History

#1 - 05/03/2016 05:25 PM - Peter Amstutz

- Description updated

#2 - 09/20/2016 06:48 PM - Tom Morris

- Target version set to Arvados Future Sprints

#3 - 02/21/2017 06:13 PM - Peter Amstutz

- Description updated

#4 - 02/21/2017 06:15 PM - Peter Amstutz

- Subject changed from [Crunch2] crunch-run uses docker/engine-api instead of dockerclient to [Crunch2] crunch-run uses official docker client library

#5 - 02/21/2017 06:17 PM - Peter Amstutz

- Description updated

#6 - 02/21/2017 07:29 PM - Tom Morris

- Target version changed from Arvados Future Sprints to 2017-03-15 sprint

#7 - 03/01/2017 08:36 PM - Peter Amstutz

- Assigned To set to Peter Amstutz

#8 - 03/07/2017 06:55 PM - Peter Amstutz

- Status changed from New to In Progress

#9 - 03/15/2017 07:07 PM - Peter Amstutz

- Target version changed from 2017-03-15 sprint to 2017-03-29 sprint

#10 - 03/15/2017 07:31 PM - Peter Amstutz

- Assigned To changed from Peter Amstutz to Radhika Chippada

#11 - 03/15/2017 07:35 PM - Peter Amstutz

Please take over 9132-dockerclient

- Replace API calls to equivalent ones, see <https://godoc.org/github.com/docker/docker/client>
- Update stubs used by tests
- Once it compiles & tests pass, run integration tests using arvbox and "arvados-cwl-runner --api=containers"

#12 - 03/23/2017 06:48 PM - Radhika Chippada

Branch 9132-dockerclient @ [374dff075f0d2961b3843d952ccca9f55d972e9a](https://github.com/374dff075f0d2961b3843d952ccca9f55d972e9a)

- Uses new docker client API.
- What ContainerStartOptions should we use?
- The ContainerWait method returns an int64 and hence I replaced the waitDocker chan as such.
- The test "TestStopOnSignal" is failing sometimes when the whole crunch-run test set is executed with the error "cannot allocate memory" locally, but it appears that it is an issue with development env and passing consistently in jenkins

Thanks.

#13 - 03/23/2017 08:58 PM - Tom Clegg

Radhika Chippada wrote:

- What ContainerStartOptions should we use?

Empty LGTM. The options seem to be for checkpoint suspend/resume -- sounds interesting, but we're not using it.

- The ContainerWait method returns an int64 and hence I replaced the waitDocker chan as such.

nit: could change the "finish" field and the "exitCode" arguments too, then the int64() cast wouldn't be needed.

- The test "TestStopOnSignal" is failing sometimes when the whole crunch-run test set is executed with the error "cannot allocate memory" locally, but it appears that it is an issue with development env and passing consistently in jenkins

Tried run-tests.sh --repeat 20, no problems.

LGTM, thanks!

#14 - 03/28/2017 08:29 PM - Peter Amstutz

I'm running stuff and getting an exit code of "2" when it should be "0". I think maybe the return code from ContainerWait is not being interpreted properly?

#15 - 03/29/2017 12:57 AM - Radhika Chippada

I think maybe the return code from ContainerWait is not being interpreted properly

We are just returning what is returned by ContainerWait and so we don't have any interpretation happening.

However, according to <https://docs.docker.com/engine/reference/run/#exit-status>, which takes me to <http://tldp.org/LDP/abs/html/exitcodes.html>, it could be that we are not configuring the client correctly.

This stackflow page led me to the above links: <http://stackoverflow.com/questions/31297616/what-is-the-authoritative-list-of-docker-run-exit-codes>

#16 - 03/29/2017 03:11 PM - Peter Amstutz

Yea, that might be the legitimate exit code. But the CWL test should pass, and it isn't, so it needs further investigation.

#17 - 03/29/2017 07:06 PM - Radhika Chippada

- Assigned To changed from Radhika Chippada to Peter Amstutz

Assigning to Peter to debug / fix any issues with docket client invocations. Thanks.

#18 - 03/29/2017 07:08 PM - Peter Amstutz

- Target version changed from 2017-03-29 sprint to 2017-04-12 sprint

#19 - 03/31/2017 02:45 PM - Peter Amstutz

- Status changed from In Progress to Resolved

- % Done changed from 0 to 100

Applied in changeset arvados|commit:b9236fbe81426446e1b541a45e219bbe513fe8d0.