

Arvados - Feature #17668

[Documentation] Container shell access

05/12/2021 03:46 PM - Tom Clegg

Status: Resolved	Start date: 05/14/2021
Priority: Normal	Due date:
Assigned To: Ward Vandewege	% Done: 100%
Category:	Estimated time: 0.00 hour
Target version: 2021-05-26 sprint	
Description (moved from #17657) Need to document the ShellAccess feature. I know we don't have doc yet for arvados-client, but I think this feature should be documented separately. We should add a note about firewalling to the configuration reference, at a minimum. And something in the user guide on how to use the feature (under "debugging containers", perhaps). It would be nice to have a page in the architecture section, under "Computation with crunch" that describes how the feature works (the interaction between a-d-c and controller and crunch-run), why it is secure, and how to use it.	
Subtasks: Task # 17683: review 17668-doc-container-shell-access Resolved	
Related issues: Related to Arvados - Feature #17657: [container shell] support SSH port forwa... Resolved 05/10/2021 Blocks Arvados - Story #17512: Release Arvados 2.2 Resolved 05/03/2021	

Associated revisions

Revision 2d0fb353 - 05/17/2021 04:18 PM - Ward Vandewege

Merge branch '17668-doc-container-shell-access'

closes #17668

Arvados-DCO-1.1-Signed-off-by: Ward Vandewege <ward@curii.com>

Revision f0f77a85 - 05/17/2021 09:22 PM - Ward Vandewege

A few more doc tweaks.

refs #17668

Arvados-DCO-1.1-Signed-off-by: Ward Vandewege <ward@curii.com>

History

#1 - 05/12/2021 03:46 PM - Tom Clegg

- Description updated

#2 - 05/12/2021 03:46 PM - Tom Clegg

- Related to Feature #17657: [container shell] support SSH port forwarding added

#3 - 05/14/2021 02:02 PM - Ward Vandewege

- Target version set to 2021-05-26 sprint

- Assigned To set to Ward Vandewege

#4 - 05/14/2021 02:15 PM - Peter Amstutz

- Release set to 38

#5 - 05/14/2021 03:36 PM - Ward Vandewege

- Blocks Story #17512: Release Arvados 2.2 added

#6 - 05/14/2021 10:10 PM - Ward Vandewege

- Status changed from New to In Progress

Ready for review at [3751d9e286c214dbe8c0cf078b4919c94a7c3407](https://github.com/3751d9e286c214dbe8c0cf078b4919c94a7c3407) on branch 17668-doc-container-shell-access

#7 - 05/17/2021 01:41 PM - Tom Clegg

This is great, thanks.

On the install side:

When enabling, the change will only affect containers started from that point on.

Unless I'm forgetting something, this isn't true -- the config knob only determines whether controller will accept new connections, so you can enable/disable on the fly while containers are running. On that note, is it worth mentioning that restarting controller will unceremoniously kill any active connections?

On the user side:

"tool has a number of command line arguments" seems a bit odd since there's only one... and (related) it might be worth mentioning that everything after user@container is passed through to your OpenSSH client, so many other SSH features can also be used, like -g, -f, -N, -n...

Bikeshed: Perhaps using "echo hello | nc localhost 8888" would make it easier to show the difference between the "hello" that is typed and the "hello" that comes out at the other end?

#8 - 05/17/2021 03:26 PM - Ward Vandewege

Tom Clegg wrote:

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On the install side:

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Bikeshed: Perhaps using "echo hello | nc localhost 8888" would make it easier to show the difference between the "hello" that is typed and the "hello" that comes out at the other end?

Excellent points, thanks, updated in [6fa1fbd935fd665494ea87716aef901144d14479](https://github.com/6fa1fbd935fd665494ea87716aef901144d14479)

#9 - 05/17/2021 04:02 PM - Tom Clegg

LGTM, thanks!

#10 - 05/17/2021 04:36 PM - Ward Vandewege

- % Done changed from 0 to 100

- Status changed from In Progress to Resolved

Applied in changeset [arvados/2d0fb353b939cd2eaf0bb99afc369f30059723f7](https://github.com/arvados/2d0fb353b939cd2eaf0bb99afc369f30059723f7).

#11 - 05/17/2021 09:19 PM - Peter Amstutz

- Status changed from Resolved to Feedback

nits:

This means many other SSH features can be used, e.g. -g, -f -N, -n, ...

You're kind of giving the user homework to look up what those commands do. Either explain them or just leave it at "everything is passed through" because you demonstrate it with -L in the examples.

```
~$ ./arvados-client shell ce8i5-dz642-h1c10sa62d4i430 -L8888:localhost:80
```

These examples all start with ./ but the instructions are to install the arvados-client package which means it will be in \$PATH.

#12 - 05/17/2021 09:23 PM - Ward Vandewege

Peter Amstutz wrote:

nits:

[...]

You're kind of giving the user homework to look up what those commands do. Either explain them or just leave it at "everything is passed through" because you demonstrate it with -L in the examples.

[...]

These examples all start with ./ but the instructions are to install the arvados-client package which means it will be in \$PATH.

Okay, those changes have been made.

#13 - 05/18/2021 03:39 PM - Peter Amstutz

- *Status changed from Feedback to Resolved*