

## Arvados - Story #17246

### Single node salt install improvements

01/07/2021 03:21 PM - Peter Amstutz

<b>Status:</b> Resolved	<b>Start date:</b> 03/31/2021
<b>Priority:</b> Normal	<b>Due date:</b>
<b>Assigned To:</b> Javier Bértoli	<b>% Done:</b> 100%
<b>Category:</b>	<b>Estimated time:</b> 0.00 hour
<b>Target version:</b> 2021-04-28 bughunt sprint	
<b>Description</b> From discussion 7 January 2021 <ul style="list-style-type: none"><li>• Instead of arva2, choose a random cluster id or get one from the user</li><li>• Instead of using arva2.arv.local the provision script should use the host's FQDN or get the hostname from the user</li><li>• To avoid the need for virtual hosts, put workbench (1 or 2) on the https port and put other services on alternate ports</li><li>• Confirm that running the provision script on an basic EC2 instance results in an arvados install with a workbench that can be logged into &amp; can run stuff</li></ul>	
<b>Subtasks:</b> Task # 17509: review 17246-salt-install-improvements <b>Resolved</b>	
<b>Related issues:</b> Blocked by Arvados - Bug #17398: [crunch-dispatch-local] [crunch-run] error s... <b>Resolved</b> 02/18/2021 Blocks Arvados - Support #17320: Explain what additional configuration is need... <b>New</b>	

#### Associated revisions

##### Revision 677877d5 - 01/25/2021 10:11 AM - Javier Bértoli

feat(provision): allow to install individual roles

refs #17246

Arvados-DCO-1.1-Signed-off-by: Javier Bértoli <[jbertoli@curii.com](mailto:jbertoli@curii.com)>

##### Revision 102277e6 - 01/25/2021 10:11 AM - Javier Bértoli

feat(provision): manage setup params from local file

refs #17246

Arvados-DCO-1.1-Signed-off-by: Javier Bértoli <[jbertoli@curii.com](mailto:jbertoli@curii.com)>

##### Revision d8241cba - 01/26/2021 12:00 PM - Javier Bértoli

feat(provision): refactor to add other setup examples

refs #17246

Arvados-DCO-1.1-Signed-off-by: Javier Bértoli <[jbertoli@curii.com](mailto:jbertoli@curii.com)>

##### Revision 90980819 - 01/26/2021 02:31 PM - Javier Bértoli

feat(provision): refactor to add other setup examples

refs #17246

Arvados-DCO-1.1-Signed-off-by: Javier Bértoli <[jbertoli@curii.com](mailto:jbertoli@curii.com)>

##### Revision 2a662b83 - 01/26/2021 03:17 PM - Javier Bértoli

feat(provision): refactor to add other setup examples

refs #17246

Arvados-DCO-1.1-Signed-off-by: Javier Bértoli <[jbertoli@curii.com](mailto:jbertoli@curii.com)>

##### Revision 3aa47e60 - 01/27/2021 12:56 PM - Javier Bértoli

feat(provision): refactor to add other setup examples

refs #17246

Arvados-DCO-1.1-Signed-off-by: Javier Bértoli <[jbertoli@curii.com](mailto:jbertoli@curii.com)>

**Revision 45b514e1 - 01/27/2021 04:21 PM - Javier Bértoli**

feat(provision): check the cluster name provided is exactly 5 chars long

refs #17246

Arvados-DCO-1.1-Signed-off-by: Javier Bértoli <[jbertoli@curii.com](mailto:jbertoli@curii.com)>

**Revision b57db2bc - 02/04/2021 06:23 PM - Javier Bértoli**

feat(provision): allow to install individual roles

refs #17246

Arvados-DCO-1.1-Signed-off-by: Javier Bértoli <[jbertoli@curii.com](mailto:jbertoli@curii.com)>

**Revision 2b935043 - 02/04/2021 06:23 PM - Javier Bértoli**

feat(provision): manage setup params from local file

refs #17246

Arvados-DCO-1.1-Signed-off-by: Javier Bértoli <[jbertoli@curii.com](mailto:jbertoli@curii.com)>

**Revision 33160dea - 02/04/2021 06:23 PM - Javier Bértoli**

feat(provision): refactor to add other setup examples

refs #17246

Arvados-DCO-1.1-Signed-off-by: Javier Bértoli <[jbertoli@curii.com](mailto:jbertoli@curii.com)>

**Revision 6c058acc - 02/04/2021 06:23 PM - Javier Bértoli**

feat(provision): refactor to add other setup examples

refs #17246

Arvados-DCO-1.1-Signed-off-by: Javier Bértoli <[jbertoli@curii.com](mailto:jbertoli@curii.com)>

**Revision c590159b - 02/04/2021 06:23 PM - Javier Bértoli**

feat(provision): check the cluster name provided is exactly 5 chars long

refs #17246

Arvados-DCO-1.1-Signed-off-by: Javier Bértoli <[jbertoli@curii.com](mailto:jbertoli@curii.com)>

**Revision ffd332a1 - 02/08/2021 02:54 PM - Javier Bértoli**

feat(provision): refactor to manage different infrastructure configurations

refs #17246

Arvados-DCO-1.1-Signed-off-by: Javier Bértoli <[jbertoli@curii.com](mailto:jbertoli@curii.com)>

**Revision d6ec1985 - 02/08/2021 10:37 PM - Javier Bértoli**

fix(provision): refactor single host architectures

Allow to use a single-host/single-hostname or single-host/multiple-hostnames setup

refs #17246

Arvados-DCO-1.1-Signed-off-by: Javier Bértoli <[jbertoli@curii.com](mailto:jbertoli@curii.com)>

**Revision a396085e - 02/09/2021 11:01 AM - Javier Bértoli**

fix(provision): add missing postgres dependency for arvados-api-server

refs #17246 & #17352

Arvados-DCO-1.1-Signed-off-by: Javier Bértoli <[jbertoli@curii.com](mailto:jbertoli@curii.com)>

**Revision d0218fb8 - 02/09/2021 11:05 AM - Javier Bértoli**

fix(provision): check salt-call is installed

refs #17246

Arvados-DCO-1.1-Signed-off-by: Javier Bértoli <[jbertoli@curii.com](mailto:jbertoli@curii.com)>

**Revision 8579c7a8 - 02/09/2021 12:35 PM - Javier Bértoli**

fix(provision): remove deprecated parameter

refs #17246

Arvados-DCO-1.1-Signed-off-by: Javier Bértoli <[jbertoli@curii.com](mailto:jbertoli@curii.com)>

**Revision f44a0323 - 02/09/2021 02:31 PM - Javier Bértoli**

fix(provision): add only specific pillars for each role

refs #17246

Arvados-DCO-1.1-Signed-off-by: Javier Bértoli <[jbertoli@curii.com](mailto:jbertoli@curii.com)>

**Revision 9d52d145 - 02/09/2021 02:53 PM - Javier Bértoli**

fix(provision): make the salt-call binary check compatible with sh

refs #17246

Arvados-DCO-1.1-Signed-off-by: Javier Bértoli <[jbertoli@curii.com](mailto:jbertoli@curii.com)>

**Revision 86d1e1b0 - 02/09/2021 03:08 PM - Javier Bértoli**

fix(provision): add missing roles sections

refs #17246

Arvados-DCO-1.1-Signed-off-by: Javier Bértoli <[jbertoli@curii.com](mailto:jbertoli@curii.com)>

**Revision dda76502 - 02/11/2021 02:38 PM - Javier Bértoli**

refactor(provision): naming consistency

refs #17246

Arvados-DCO-1.1-Signed-off-by: Javier Bértoli <[jbertoli@curii.com](mailto:jbertoli@curii.com)>

**Revision 9074ec89 - 02/16/2021 01:51 PM - Javier Bértoli**

feat(provision): allow to install individual roles

refs #17246

Arvados-DCO-1.1-Signed-off-by: Javier Bértoli <[jbertoli@curii.com](mailto:jbertoli@curii.com)>

**Revision c0bfa951 - 02/16/2021 01:51 PM - Javier Bértoli**

feat(provision): manage setup params from local file

refs #17246

Arvados-DCO-1.1-Signed-off-by: Javier Bértoli <[jbertoli@curii.com](mailto:jbertoli@curii.com)>

**Revision a8ccabb1 - 02/16/2021 01:51 PM - Javier Bértoli**

feat(provision): refactor to add other setup examples

refs #17246

Arvados-DCO-1.1-Signed-off-by: Javier Bértoli <[jbertoli@curii.com](mailto:jbertoli@curii.com)>

**Revision f023eb51 - 02/16/2021 01:51 PM - Javier Bértoli**

feat(provision): refactor to add other setup examples

refs #17246

Arvados-DCO-1.1-Signed-off-by: Javier Bértoli <[jbertoli@curii.com](mailto:jbertoli@curii.com)>

**Revision 55d74d65 - 02/16/2021 01:51 PM - Javier Bértoli**

feat(provision): check the cluster name provided is exactly 5 chars long

refs #17246

Arvados-DCO-1.1-Signed-off-by: Javier Bértoli <[jbertoli@curii.com](mailto:jbertoli@curii.com)>

**Revision 8195246d - 02/16/2021 01:51 PM - Javier Bértoli**

feat(provision): refactor to manage different infrastructure configurations

refs #17246

Arvados-DCO-1.1-Signed-off-by: Javier Bértoli <[jbertoli@curii.com](mailto:jbertoli@curii.com)>

**Revision d10dcb43 - 02/16/2021 01:51 PM - Javier Bértoli**

fix(provision): refactor single host architectures

Allow to use a single-host/single-hostname or single-host/multiple-hostnames setup  
refs #17246  
Arvados-DCO-1.1-Signed-off-by: Javier Bértoli <[jbertoli@curii.com](mailto:jbertoli@curii.com)>

**Revision efd412f4 - 02/16/2021 01:51 PM - Javier Bértoli**

fix(provision): add missing postgres dependency for arvados-api-server

refs #17246 & #17352  
Arvados-DCO-1.1-Signed-off-by: Javier Bértoli <[jbertoli@curii.com](mailto:jbertoli@curii.com)>

**Revision de02a06e - 02/16/2021 01:51 PM - Javier Bértoli**

fix(provision): check salt-call is installed

refs #17246  
Arvados-DCO-1.1-Signed-off-by: Javier Bértoli <[jbertoli@curii.com](mailto:jbertoli@curii.com)>

**Revision 9aa498ee - 02/16/2021 01:51 PM - Javier Bértoli**

fix(provision): remove deprecated parameter

refs #17246  
Arvados-DCO-1.1-Signed-off-by: Javier Bértoli <[jbertoli@curii.com](mailto:jbertoli@curii.com)>

**Revision 67151930 - 02/16/2021 01:51 PM - Javier Bértoli**

fix(provision): add only specific pillars for each role

refs #17246  
Arvados-DCO-1.1-Signed-off-by: Javier Bértoli <[jbertoli@curii.com](mailto:jbertoli@curii.com)>

**Revision 7a35170a - 02/16/2021 01:51 PM - Javier Bértoli**

fix(provision): make the salt-call binary check compatible with sh

refs #17246  
Arvados-DCO-1.1-Signed-off-by: Javier Bértoli <[jbertoli@curii.com](mailto:jbertoli@curii.com)>

**Revision 963b5ff6 - 02/16/2021 01:51 PM - Javier Bértoli**

fix(provision): add missing roles sections

refs #17246  
Arvados-DCO-1.1-Signed-off-by: Javier Bértoli <[jbertoli@curii.com](mailto:jbertoli@curii.com)>

**Revision 60a59df7 - 02/16/2021 01:51 PM - Javier Bértoli**

refactor(provision): naming consistency

refs #17246  
Arvados-DCO-1.1-Signed-off-by: Javier Bértoli <[jbertoli@curii.com](mailto:jbertoli@curii.com)>

**Revision 1b9d2df0 - 02/16/2021 02:21 PM - Javier Bértoli**

fix(provision): force user to properly set cluster & domain parameters

refs #17246  
Arvados-DCO-1.1-Signed-off-by: Javier Bértoli <[jbertoli@curii.com](mailto:jbertoli@curii.com)>

**Revision 1a0cdc10 - 03/08/2021 10:59 AM - Javier Bértoli**

fix(provision): force user to properly set cluster & domain parameters

Also improved single host installation options (single, multiple hostnames)

refs #17246  
Arvados-DCO-1.1-Signed-off-by: Javier Bértoli <[jbertoli@curii.com](mailto:jbertoli@curii.com)>

**Revision 332a26eb - 03/22/2021 03:56 PM - Javier Bértoli**

fix(provision): improve single host installation and documentation

Also improved single host installation options (single, multiple hostnames)

refs #17246  
Arvados-DCO-1.1-Signed-off-by: Javier Bértoli <[jbertoli@curii.com](mailto:jbertoli@curii.com)>

**Revision 9191a9a5 - 03/22/2021 04:39 PM - Javier Bértoli**

fix(provision): add multi hosts installation examples

refs #17246  
Arvados-DCO-1.1-Signed-off-by: Javier Bértoli <[jbertoli@curii.com](mailto:jbertoli@curii.com)>

**Revision e7d59680 - 03/24/2021 06:25 PM - Javier Bértoli**

docs(provision): add salt usage with roles in multi-host

refs #17246  
Arvados-DCO-1.1-Signed-off-by: Javier Bértoli <[jbertoli@curii.com](mailto:jbertoli@curii.com)>

**Revision 609d60c0 - 03/30/2021 09:55 PM - Javier Bértoli**

docs(provision): add salt usage with roles in multi-host

refs #17246  
Arvados-DCO-1.1-Signed-off-by: Javier Bértoli <[jbertoli@curii.com](mailto:jbertoli@curii.com)>

**Revision 6587faf6 - 03/31/2021 01:23 PM - Javier Bértoli**

docs(provision): add salt usage with roles in multi-host

refs #17246  
Arvados-DCO-1.1-Signed-off-by: Javier Bértoli <[jbertoli@curii.com](mailto:jbertoli@curii.com)>

**Revision f82bd0f6 - 04/13/2021 06:07 PM - Javier Bértoli**

docs(provision): add salt usage with roles in multi-host

refs #17246  
Arvados-DCO-1.1-Signed-off-by: Javier Bértoli <[jbertoli@curii.com](mailto:jbertoli@curii.com)>

**Revision dde8a2e6 - 04/13/2021 06:08 PM - Javier Bértoli**

docs(provision): add salt usage with roles in multi-host

refs #17246  
Arvados-DCO-1.1-Signed-off-by: Javier Bértoli <[jbertoli@curii.com](mailto:jbertoli@curii.com)>

**Revision 675a683d - 04/13/2021 07:23 PM - Javier Bértoli**

fix(provision): use nginx-formula PR branch until changes are merged

refs #17246  
Arvados-DCO-1.1-Signed-off-by: Javier Bértoli <[jbertoli@curii.com](mailto:jbertoli@curii.com)>

**Revision f5ed56bf - 04/13/2021 09:19 PM - Javier Bértoli**

feat(provision): add local.params example for multi-host

refs #17246  
Arvados-DCO-1.1-Signed-off-by: Javier Bértoli <[jbertoli@curii.com](mailto:jbertoli@curii.com)>

**Revision 9f1a7c27 - 04/13/2021 09:20 PM - Javier Bértoli**

fix(provision): temp fix for nginx formula issue with snippets

refs #17246  
Arvados-DCO-1.1-Signed-off-by: Javier Bértoli <[jbertoli@curii.com](mailto:jbertoli@curii.com)>

**Revision 77da50d7 - 04/16/2021 06:36 PM - Javier Bértoli**

fix(provision): use uniform database parameters across examples

refs #17246  
Arvados-DCO-1.1-Signed-off-by: Javier Bértoli <[jbertoli@curii.com](mailto:jbertoli@curii.com)>

**Revision 5fe88fae - 04/16/2021 06:37 PM - Javier Bértoli**

chore(provision): set postgresql cidr in single host examples

refs #17246

Arvados-DCO-1.1-Signed-off-by: Javier Bértoli <[jbertoli@curii.com](mailto:jbertoli@curii.com)>

**Revision c281c353 - 04/16/2021 06:58 PM - Javier Bértoli**

fix(provision): run hosts/snakeoil states before nginx so it does not fail on missing deps

refs #17246

Arvados-DCO-1.1-Signed-off-by: Javier Bértoli <[jbertoli@curii.com](mailto:jbertoli@curii.com)>

**Revision 4c4af3ff - 04/16/2021 10:09 PM - Javier Bértoli**

refactor(provision): use uniform database parameters across examples

refs #17246

Arvados-DCO-1.1-Signed-off-by: Javier Bértoli <[jbertoli@curii.com](mailto:jbertoli@curii.com)>

**Revision cf249360 - 04/16/2021 10:09 PM - Javier Bértoli**

chore(provision): ignore some files in git

refs #17246

Arvados-DCO-1.1-Signed-off-by: Javier Bértoli <[jbertoli@curii.com](mailto:jbertoli@curii.com)>

**Revision f47b71a4 - 04/16/2021 10:11 PM - Javier Bértoli**

refactor(provision): delete parameters moved to config files

refs #17246

Arvados-DCO-1.1-Signed-off-by: Javier Bértoli <[jbertoli@curii.com](mailto:jbertoli@curii.com)>

**Revision 13e45cca - 04/16/2021 10:11 PM - Javier Bértoli**

feat(provision): add some checks before run

refs #17246

Arvados-DCO-1.1-Signed-off-by: Javier Bértoli <[jbertoli@curii.com](mailto:jbertoli@curii.com)>

**Revision 89507291 - 04/16/2021 10:11 PM - Javier Bértoli**

docs(provision): explain options in config examples

refs #17246

Arvados-DCO-1.1-Signed-off-by: Javier Bértoli <[jbertoli@curii.com](mailto:jbertoli@curii.com)>

**Revision cd391a3b - 04/16/2021 10:11 PM - Javier Bértoli**

chore(provision): enable both examples in vagrant

refs #17246

Arvados-DCO-1.1-Signed-off-by: Javier Bértoli <[jbertoli@curii.com](mailto:jbertoli@curii.com)>

**Revision 317c18d0 - 04/16/2021 10:11 PM - Javier Bértoli**

refactor(provision): add host entries in single host multiple hostnames

We could use the example states in the formula, but added them here for the sake of completeness

refs #17246

Arvados-DCO-1.1-Signed-off-by: Javier Bértoli <[jbertoli@curii.com](mailto:jbertoli@curii.com)>

**Revision 8a5388bb - 04/16/2021 10:11 PM - Javier Bértoli**

docs(provision): improve the documentation in the examples

refs #17246

Arvados-DCO-1.1-Signed-off-by: Javier Bértoli <[jbertoli@curii.com](mailto:jbertoli@curii.com)>

**Revision 1e67d66f - 04/16/2021 10:11 PM - Javier Bértoli**

refactor(provision): add snakeoil certs in single host multiple hostnames

We could use the example states in the formula, but added them here for the sake of completeness

refs #17246

Arvados-DCO-1.1-Signed-off-by: Javier Bértoli <[jbertoli@curii.com](mailto:jbertoli@curii.com)>

**Revision ea846236 - 04/19/2021 01:00 PM - Javier Bértoli**

docs(provision): improve the documentation in the examples

refs #17246

Arvados-DCO-1.1-Signed-off-by: Javier Bértoli <[jbertoli@curii.com](mailto:jbertoli@curii.com)>

**Revision 86c7588a - 04/19/2021 05:53 PM - Javier Bértoli**

fix(provision): default to using the master branch of arvados-formula

refs #17246

Arvados-DCO-1.1-Signed-off-by: Javier Bértoli <[jbertoli@curii.com](mailto:jbertoli@curii.com)>

**Revision 329b8285 - 04/19/2021 06:52 PM - Javier Bértoli**

feat(provision): pin arvados version to latest stable

refs #17246

Arvados-DCO-1.1-Signed-off-by: Javier Bértoli <[jbertoli@curii.com](mailto:jbertoli@curii.com)>

**Revision e3e255e8 - 04/20/2021 06:31 PM - Javier Bértoli**

feat(provision): pin arvados version to latest stable

refs #17246

Arvados-DCO-1.1-Signed-off-by: Javier Bértoli <[jbertoli@curii.com](mailto:jbertoli@curii.com)>

**Revision 42fff421 - 04/20/2021 06:35 PM - Javier Bértoli**

Merge branch '17246-salt-install-improvements'

closes #17246

Arvados-DCO-1.1-Signed-off-by: Javier Bértoli <[jbertoli@curii.com](mailto:jbertoli@curii.com)>

## History

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**#1 - 01/07/2021 03:21 PM - Peter Amstutz**

- Status changed from New to In Progress

**#2 - 01/07/2021 03:40 PM - Peter Amstutz**

- Description updated

**#3 - 01/07/2021 04:07 PM - Peter Amstutz**

- Description updated

**#4 - 01/07/2021 04:08 PM - Peter Amstutz**

- Description updated

**#5 - 01/20/2021 04:42 PM - Peter Amstutz**

- Target version changed from 2021-01-20 Sprint to 2021-02-03 Sprint

**#6 - 02/03/2021 04:47 PM - Peter Amstutz**

- Description updated

**#7 - 02/03/2021 04:47 PM - Peter Amstutz**

- Target version changed from 2021-02-03 Sprint to 2021-02-17 sprint

**#8 - 02/15/2021 06:54 PM - Javier Bértoli**

- % Done changed from 0 to 80

Uploaded code, commit dda765028@arvados, branch 17246-salt-install-improvements.

The script expects the user to create a local.params file where these parameters can be set.

Added support to specify individual 'arvados roles' to deploy to a node, allowing to use this script to do a multi-hosts deploy.

**#9 - 02/17/2021 03:38 PM - Javier Bértoli**

- Blocked by Bug #17398: [crunch-dispatch-local] [crunch-run] error starting gateway server: missing port in address added

**#10 - 02/17/2021 03:39 PM - Javier Bértoli**

- Blocks Support #17320: Explain what additional configuration is needed for provision.sh to go to production added

**#11 - 02/18/2021 04:52 PM - Peter Amstutz**

- Target version changed from 2021-02-17 sprint to 2021-03-03 sprint

**#12 - 03/03/2021 06:20 PM - Peter Amstutz**

- Target version changed from 2021-03-03 sprint to 2021-03-17 sprint

**#13 - 03/17/2021 02:49 PM - Javier Bértoli**

- Target version changed from 2021-03-17 sprint to 2021-03-31 sprint

**#14 - 03/24/2021 06:29 PM - Javier Bértoli**

Updated code and documentation for multi-host installation (commit e7d596806@arvados, branch 17246-salt-install-improvements)

**#15 - 03/31/2021 02:35 PM - Javier Bértoli**

- % Done changed from 80 to 100

- Target version changed from 2021-03-31 sprint to 2021-04-14 sprint

- Status changed from In Progress to Resolved

Single node install works correctly, expecting review.

**#16 - 03/31/2021 02:36 PM - Javier Bértoli**

- Status changed from Resolved to In Progress

**#17 - 04/01/2021 07:37 PM - Lucas Di Pentima**

Reviewing [6587faf](#) - branch 17246-salt-install-improvements

Tried to follow the instructions for a single host / single hostname install by creating a new debian 10 VM.

- In file doc/install/salt.html.textile.liquid there's a mention of arvados-formula URL from the arvados repo, but in the README.md file still points to the saltstack-formulas repo.
- There's a typo at doc/install/salt-single-host.html.textile.liquid line 40: 'asigning'
- Instructions say to run the provision.sh script without any param, but I found that I needed to add -c local.params for it to run. At least I think the script should error out when the CONFIG\_FILE var is empty string instead of just trying to run source "
- Eventually I got the following error:

```
...
[INFO ] Fetching file from saltenv 'base', ** done ** 'arvados/dispatcher/service/file.sls'
[INFO ] Fetching file from saltenv 'base', ** done ** 'arvados/dispatcher/service/running.sls'
local:
  Data failed to compile:
-----
  No matching sls found for 'nginx.passenger' in env 'base'
+ '[' xyes = xyes ']'
+ echo 'Removing .psql file'
Removing .psql file
+ rm /root/.psqlrc
+ '[' x = xyes ']'
+ echo 'Copying the Arvados CA certificate to the installer dir, so you can import it'
Copying the Arvados CA certificate to the installer dir, so you can import it
+ '[' x = xyes ']'
+ cp /etc/ssl/certs/arvados-snakeoil-ca.pem /home/lucas/arvados/tools/salt-install/lucas.arvados.local-arvados
-snakeoil-ca.pem
cp: cannot stat '/etc/ssl/certs/arvados-snakeoil-ca.pem': No such file or directory
+ '[' x = xyes ']'
```



**#18 - 04/13/2021 06:10 PM - Javier Bértoli**

commit dde8a2e6a, branch 17246-salt-install-improvements

**#19 - 04/14/2021 03:49 PM - Peter Amstutz**

- *Target version changed from 2021-04-14 sprint to 2021-04-28 bughunt sprint*

**#20 - 04/20/2021 06:34 PM - Lucas Di Pentima**

17246-salt-install-improvements LGTM, thanks!

**#21 - 04/20/2021 06:38 PM - Javier Bértoli**

- *Status changed from In Progress to Resolved*

Merged

**#22 - 05/13/2021 03:09 PM - Peter Amstutz**

- *Release set to 38*