

## Arvados - Story #8999

### [node manager] Upgrade to libcloud 2.0

04/15/2016 01:57 PM - Peter Amstutz

<b>Status:</b>	Closed	<b>Start date:</b>	
<b>Priority:</b>	Normal	<b>Due date:</b>	
<b>Assigned To:</b>	Lucas Di Pentima	<b>% Done:</b>	0%
<b>Category:</b>		<b>Estimated time:</b>	0.00 hour
<b>Target version:</b>	2017-09-27 Sprint		
<b>Description</b>			
The pending libcloud 2.0.0 release has all our work relating to Azure ARM (including cloud environments) merged. We should test to see if node manager works with libcloud 2.0.0 so we can depend the upstream packaged version instead of our own fork.			
<b>Related issues:</b>			
Related to Arvados - Bug #12055: [node manager] ec2 set tags on create		<b>Resolved</b>	<b>08/16/2017</b>
Blocked by Arvados - Story #11545: Create a CWL stress test for node manager		<b>Resolved</b>	<b>04/25/2017</b>

### History

#### #1 - 05/05/2016 04:42 PM - Brett Smith

- Target version set to Arvados Future Sprints

#### #2 - 12/07/2016 10:01 PM - Tom Morris

Azure ARM support was introduced in libcloud 1.4 which was released at the end of November 2016. We should probably let it settle for a bit to make sure there are no issues with the release before contemplating updating.

We are currently using a 0.18 derivative from summer 2015.

There is a small set of upgrade notes available at [http://libcloud.readthedocs.io/en/latest/upgrade\\_notes.html](http://libcloud.readthedocs.io/en/latest/upgrade_notes.html)

### Libcloud 1.0.0

- Per-region provider constants and related driver classes which have been deprecated in Libcloud 0.14.0 have now been fully removed.

Those provider drivers have moved to the single provider constant + region constructor argument in Libcloud 0.14.0.

### Libcloud 0.20.0

- New optional ttl argument has been added to libcloud.dns.base.Record class constructor before the existing extra argument.

If you have previously manually instantiated this class and didn't use keyword arguments, you need to update your code to correctly pass arguments to the constructor (you are encouraged to use keyword arguments to avoid such issues in the future).

- All NodeState, StorageVolumeState, VolumeSnapshotState and Provider attributes are now strings instead of integers.

If you are using the tostring and fromstring methods of NodeState, you are fine. If you are using NodeState.RUNNING and the like, you are also fine.

However, if you have previously depended on these being integers, you need to update your code to depend on strings. You should consider starting using the tostring and fromstring methods as the output of these functions will not change in future versions, while the implementation might.

### Libcloud 0.19.0

- The base signature of NodeDriver.create\_volume has changed. The snapshot argument is now expected to be a VolumeSnapshot instead of a string. The older signature was never correct for built-in drivers, but custom drivers may break. (GCE accepted strings, names or None and still does. Other drivers did not implement creating volumes from snapshots at all until now.)
- VolumeSnapshots now have a created attribute that is a datetime field showing the creation datetime of the snapshot. The field in VolumeSnapshot.extra containing the original string is maintained, so this is a backwards-compatible change.
- The OpenStack compute driver methods ex\_create\_snapshot and ex\_delete\_snapshot are now deprecated by the standard methods create\_volume\_snapshot and destroy\_volume\_snapshot. You should update your code.
- The compute base driver now considers the name argument to create\_volume\_snapshot to be optional. All official implementations of this methods already considered it optional. You should update any custom drivers if they rely on the name being mandatory.

**#3 - 01/04/2017 07:15 PM - Peter Amstutz**

- Subject changed from [node manager] Test & upgrade to latest libcloud when libcloud merges azure\_arm support to [node manager] Upgrade to libcloud 1.4+

**#4 - 01/17/2017 07:22 PM - Tom Morris**

- Target version changed from Arvados Future Sprints to 2017-02-01 sprint

**#5 - 01/18/2017 08:22 PM - Tom Morris**

- Target version changed from 2017-02-01 sprint to Arvados Future Sprints

**#6 - 04/25/2017 01:58 PM - Peter Amstutz**

- Subject changed from [node manager] Upgrade to libcloud 1.4+ to [node manager] Upgrade to libcloud 2.0

- Description updated

**#7 - 04/25/2017 06:51 PM - Tom Morris**

- Story points set to 2.0

**#8 - 08/02/2017 05:38 AM - Tom Morris**

- Target version changed from Arvados Future Sprints to 2017-08-16 sprint

**#9 - 08/02/2017 07:35 PM - Tom Morris**

- Target version changed from 2017-08-16 sprint to 2017-08-30 Sprint

**#10 - 08/16/2017 07:35 PM - Tom Morris**

- Target version changed from 2017-08-30 Sprint to 2017-09-13 Sprint

**#11 - 08/30/2017 07:45 PM - Tom Morris**

- Assigned To set to Lucas Di Pentima

**#12 - 09/04/2017 04:37 PM - Lucas Di Pentima**

- Status changed from New to In Progress

**#13 - 09/04/2017 04:39 PM - Lucas Di Pentima**

This is resolved by our updates on [#12055](#). Right now we're using our 2.2.1.dev1 fork while waiting for libcloud to release a version that includes our fixes regarding tag-on-create feature on AWS compute nodes (<https://github.com/apache/libcloud/pull/1100>)

**#14 - 09/14/2017 07:55 PM - Lucas Di Pentima**

- Target version changed from 2017-09-13 Sprint to 2017-09-27 Sprint

**#15 - 09/14/2017 08:13 PM - Lucas Di Pentima**

- Status changed from In Progress to New

**#16 - 09/14/2017 08:53 PM - Tom Morris**

- Status changed from New to Closed