Open Infrastructure - Task #6900

Task # 6869 (Rejected): Challenge OpenStack and OpenNebula with ucloud

Task # 6897 (Rejected): Create ucloud-image service

Allow creating an image from a file in ucloud-api and ucloud-cli

06/28/2019 02:28 PM - Nico Schottelius

Status:	Rejected		**Start date:**	06/28/2019
Priority:	Normal		**Due date:**	
Assignee:			**% Done:**	0%
Category:			**Estimated time:**	0.00 hour
Target version:				
PM Check date:				

Description

Objective

Users can upload files. Files can be used as images for VMs, if they are in the qcow2 format.

How it works

- Files are uploaded to a specific VM (likely files.datacenterlight.ch)
- Users can use the ucloud-cli to convert a file to an image

CLI

- ucloud image-create-from-file --uuid $UUID --name <name-of-the-image> --image-store <name> [--desc "optional description"] [--public]
  - if --public is passed, the image is public
  - do not implement --public before v2
  - for --public we need to clarify how is paying for the storage
  - Need to specify the name of the image store; OR we use the UUID (persisten!) of the image store
- ucloud image-set-permission [--public|--private]
  - makes image public or private
  - do not implement before v2

API

The API modifies entries in etcd as follows:

- Finds the file in etcd
  - if it does not exist -> error out
  - Only accept "sane" filenames (i.e. no .. and funky stuff)
- Creates an image entry below /v1/image/$UUID
  - maybe the same UUID as the file OR a random UUID - to be discussed in ucloud channel
  - JSON: set status on create to "TO_BE_CREATED", needs to include "owner" field

Cron job on files.datacenterlight.ch

- Scans all entries in /v1/image
- If there is a json with TO_BE_CREATED
  - Look for the filename below basepath/$owner/$filename
  - If it is not there, error out
- If image is found
  - Verify that it is qcow2 format (file or qemu-img)
  - Convert it to raw and import it into ceph
    - qemu-img convert ... | rbd import ...

-> ping @llnu for a test ceph cluster to try this out

Related issues:

History

#1 - 06/28/2019 08:16 PM - Ahmed Bilal

- Status changed from New to Seen

#2 - 06/29/2019 10:10 AM - Nico Schottelius

- Related to Task #6904: Implement ucloud-image-store management added

#3 - 06/29/2019 10:11 AM - Nico Schottelius

- Description updated

#4 - 07/02/2019 08:46 AM - Ahmed Bilal

Nico Schottelius wrote:

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Instead of **image-create-from-file** sub-command, the sub-command would be **create-image-from-file**

#5 - 07/03/2019 11:41 AM - Ahmed Bilal

- Status changed from Seen to In Progress

#6 - 07/03/2019 03:09 PM - Ahmed Bilal

- Status changed from In Progress to Feedback

#7 - 07/15/2019 04:32 PM - Ahmed Bilal

- Status changed from Feedback to In Progress

#8 - 12/01/2020 02:43 PM - Ahmed Bilal

- Assignee deleted (Ahmed Bilal)

#9 - 01/02/2024 02:03 PM - Nico Schottelius

- Status changed from In Progress to Rejected