

Open Infrastructure - Task #7632

Setup rados / s3 storage on ceph

01/20/2020 11:35 AM - Nico Schottelius

Status:	Closed	Start date:	01/20/2020
Priority:	Immediate	Due date:	01/20/2020
Assignee:	ll nu	% Done:	0%
Category:		Estimated time:	0.00 hour
Target version:			
PM Check date:			
Description <ul style="list-style-type: none">• Including permissions• Document the setup• Document how to use it			

History

#1 - 01/21/2020 07:55 PM - ll nu

- Status changed from New to Seen

#2 - 01/21/2020 09:42 PM - Nico Schottelius

redmine@ungleich.ch writes:

#3 - 01/23/2020 01:41 PM - ll nu

using this manual the radosgw is configured at rgw.llnu.at

https://access.redhat.com/documentation/en-us/red_hat_ceph_storage/3/html/installation_guide_for_red_hat_enterprise_linux/manually-installing-ceph-object-gateway

We don't have ceph-deploy/redhat init scripts so some parts of the setup might be missing

It starts up, talks to the monitor (checked via tcpdump) however it doesnt start to listen at port :80 via civetweb as it was specified in the ceph.conf file:

```
[client.rgw.rgw]
host = rgw
#rgw socket path = /var/run/ceph/ceph.radosgw.gateway.fastcgi.sock
rgw frontends = "civetweb port=80"
log file = /var/log/ceph/ceph-rgw-gateway.log
rgw dns name = rgw.llnu.at
keyring = /var/lib/ceph/radosgw/ceph-rgw.rgw/keyring
```

#4 - 01/23/2020 05:30 PM - ll nu

Radosgw is running. The correct way to start is1:

```
/usr/bin/radosgw --cluster ceph --name client.rgw.`hostname -s` -setuser ceph --setgroup ceph
```

atm I'm tweaking the settings to setup ssl, and ipv6 support

1: (it wasnt writted anywhere but one must supply the --name argument, without it doesnt work, and it wont complain either --)

#5 - 01/23/2020 05:46 PM - ll nu

updated conf with ssl

```
[client.rgw.rgw]
host = rgw
#rgw socket path = /var/run/ceph/ceph.radosgw.gateway.fastcgi.sock
rgw socket path = /tmp/radosgw.sock
rgw frontends = beast ssl_port=443 ssl_certificate=/etc/letsencrypt/live/rgw.llnu.at/cert.pem
ssl_private_key=/etc/letsencrypt/live/rgw.llnu.at/privkey.pem
log file = /var/log/ceph/ceph-rgw-gateway.log
rgw dns name = rgw.llnu.at
keyring = /var/lib/ceph/radosgw/ceph-rgw.rgw/keyring
```

#6 - 01/23/2020 05:53 PM - Nico Schottelius

Note for production checking: what happens/is required to do if the certificate is replaced with a new one?

redmine@ungleich.ch writes:

#7 - 01/27/2020 04:58 PM - ll nu

thats a good question, first ill test the existing setup

wildcard cert setup:

```
certbot certonly --manual --preferred-challenges=dns --email llnu@protonmail.ch --server https://acme-v02.api.letsencrypt.org/direct
ory --agree-tos -d *.rgw.llnu.a
```

challenge:

Please deploy a DNS TXT record under the name
_acme-challenge.rgw.llnu.at with the following value:

added to bind:

```
_acme-challenge.rgw TXT "kEuJ7KknBtnGzUAVykfqfvlH6d0qwflF5FDY3SwNg7M"
```

added wildcard dns entries so all domains under .rgw.llnu.at will resolve to 1 ip

```
*.rgw AAAA 2a0a:e5c0:10:bee:0:ff:fe00:205
```

testing begins here:

add user:

```
radosgw-admin user create --uid="testuser" --display-name="First User"
```

list keys/infos about a user

```
radosgw-admin user info --uid=testuser
```

git to useful ceph test programs:

<https://github.com/ronaldddilley/ceph-s3-examples>

depreceated:

with python.boto, as described on <https://docs.ceph.com/docs/nautilus/install/install-ceph-gateway/>

to create a user:

```
radosgw-admin user create --uid="testuser" --display-name="First User"
```

note here the access/secret key

#8 - 02/24/2020 11:57 PM - ll nu

- Status changed from Seen to Closed

wiki is at [https://redmine.ungleich.ch/projects/datacenterlight/wiki/Setup_and_Maintain_ceph_\(s3\)_object_storage](https://redmine.ungleich.ch/projects/datacenterlight/wiki/Setup_and_Maintain_ceph_(s3)_object_storage)