rgw - Bug #45911

Cannot address buckets in different tenant

06/05/2020 10:10 PM - Chris Durham

Status:	Triaged		**% Done:**	0%
Priority:	Normal		**Spent time:**	0.00 hour
Assignee:				
Category:				
Target version:	v15.2.3			
Source:	Community (user)		**Reviewed:**	
Tags:			**Affected Versions:**	v15.0.0, v15.2.1, v15.2.2
Backport:			**ceph-qa-suite:**	
Regression:	No		**Pull request ID:**	
Severity:	2 - major		**Crash signature:**	

Description

Using release 15.2.2 on CentOS 8.1

At: https://docs.ceph.com/docs/mimic/radosgw/multitenancy/

There is a suggestion on some code that to address s3 buckets in a different tenant (your AWS creds are for a user in tenant t1, but the bucket you want to address is in tenant t2) you should use a ':' to separate the two, i.e. tenant2:bucketname.

This does not work. UJisng the AWS CLI (boto3), when doing

aws s3 ls s3://tenant2:bucketname

I get an error:

Invalid bucket name "tenant2:bucketname": Bucket name must match the regex "^[a-zA-Z0-9.\-_]{1,255}$" or be an ARN matching the regex "^arn:(aws).*:s3:[a-z\-0-9]+:[0-9]{12}:accesspoint[/:][a-zA-Z0-9\-]{1,63}$"

(Again this is CentOS 8.1):

In /usr/share/awscli/python/site-packages/botocore/handlers.py, there is a line:

VALID_BUCKET = re.compile(r'^[a-zA-Z0-9.\-_]{1,255}$')

If I change this regex appropriately to include a ':', then I can address the bucket with both the awscli as well as with boto3 code directly.

It should be noted that in the document I mentioned above, the code shown is boto code, NOT boto3. Apparently with boto as opposed to boto3 there is not a problem.

Without patching the regex as I show, there does not **appear** to be a way to address buckets in other tenants using python boto3 code which includes the awscli.

AWS and the Ceph team need to coordinate a proper fix

History

#1 - 06/05/2020 11:25 PM - Matt Benjamin

- Status changed from New to Triaged

Hi Chris,

This is a known issue, but as it's entirely in boto, we're not sure right now how to proceed. We've filed issues against upstream boto.

Matt

#2 - 06/06/2020 05:31 PM - Pritha Srivastava

Hi Chris,

Bucket name validation can be supressed in boto3 using the following also:

s3client.meta.events.unregister('before-parameter-build.s3', validate_bucket_name)

Thanks,
Pritha

#3 - 06/08/2020 03:11 PM - Chris Durham

Pritha Srivastava wrote:

> Hi Chris,
>
> Bucket name validation can be supressed in boto3 using the following also:
>
> s3client.meta.events.unregister('before-parameter-build.s3', validate_bucket_name)
>
> Thanks,
> Pritha

That's great for boto3 code, but as far as I know, there is no config or environment variable I can use to do that for the cli without making the change I showed above, correct?

#4 - 06/11/2020 02:16 PM - Casey Bodley

Using : to separate bucket and tenant is just broken by design since it doesn't work with dns names.