

fs - Feature #13231

kclient: support SELinux

09/24/2015 07:19 PM - Huamin Chen

Status:	Duplicate	Start date:	09/24/2015
Priority:	High	Due date:	
Assignee:		% Done:	0%
Category:		Estimated time:	0.00 hour
Target version:	v14.0.0	Affected Versions:	
Source:	other	Component(FS):	kceph
Tags:		Labels (FS):	task(medium)
Backport:		Pull request ID:	
Reviewed:			

Description

I cannot set selinux labbels on ceph mount.

Environment:

```
[root@host16-rack08 ~]# modinfo ceph
filename: /lib/modules/3.10.0-229.7.2.el7.x86_64/kernel/fs/ceph/ceph.ko
license: GPL
description: Ceph filesystem for Linux
author: Patience Warnick <patience@newdream.net>
author: Yehuda Sadeh <yehuda@hq.newdream.net>
author: Sage Weil <sage@newdream.net>
alias: fs-ceph
rhelversion: 7.1
srcversion: 2086D500AFAF47B7260E08A
depends: libceph
intree: Y
vermagic: 3.10.0-229.7.2.el7.x86_64 SMP mod_unload modversions
signer: Red Hat Enterprise Linux kernel signing key
sig_key: 27:3C:C8:38:6D:A0:EE:8F:0E:C6:C6:F4:20:E2:4D:7B:AF:35:A9:78
sig_hashalgo: sha256
```

Here is my cephfs mountpoint:

```
[root@host16-rack08 ~]# mount |grep ceph
10.1.4.118:6789:/ on
/var/lib/openshift/openshift.local.volumes/pods/2a79c5b9-62da-11e5-b8c5-b8ca3a627d6c/volumes/kubernetes.io~cephfs/cephfs type
ceph (rw,relatime,name=kube,secret=<hidden>,nodcache)
```

Applying selinux label just failed:

```
[root@host16-rack08 ~]# setfattr -n security.selinux -v system_u:object_r:svirt_sandbox_file_t:s0
/var/lib/openshift/openshift.local.volumes/pods/2a79c5b9-62da-11e5-b8c5-b8ca3a627d6c/volumes/kubernetes.io~cephfs/cephfs
setfattr:
/var/lib/openshift/openshift.local.volumes/pods/2a79c5b9-62da-11e5-b8c5-b8ca3a627d6c/volumes/kubernetes.io~cephfs/cephfs:
Operation not supported
```

Yet if I use a fake security label, it passed:

```
[root@host16-rack08 ~]# setfattr -n security.foo -v system_u:object_r:svirt_sandbox_file_t:s0
/var/lib/openshift/openshift.local.volumes/pods/2a79c5b9-62da-11e5-b8c5-b8ca3a627d6c/volumes/kubernetes.io~cephfs/cephfs
[root@host16-rack08 ~]# getfattr -d
/var/lib/openshift/openshift.local.volumes/pods/2a79c5b9-62da-11e5-b8c5-b8ca3a627d6c/volumes/kubernetes.io~cephfs/cephfs -m
-getfattr: Removing leading '/' from absolute path names
```

1. file:

```
var/lib/openshift/openshift.local.volumes/pods/2a79c5b9-62da-11e5-b8c5-b8ca3a627d6c/volumes/kubernetes.io~cephfs/cephfs
ceph.dir.entries="4"
ceph.dir.files="4"
ceph.dir.rbytes="0"
```

```
ceph.dir.rctime="0.090"  
ceph.dir.retries="1"  
ceph.dir.rfiles="0"  
ceph.dir.rsubdirs="1"  
ceph.dir.subdirs="0"  
security.foo="system_u:object_r:svirt_sandbox_file_t:s0"
```

Related issues:

Duplicates fs - Feature #5486: kclient: make it work with selinux

In Progress

History**#1 - 09/24/2015 07:43 PM - Greg Farnum**

See [#5486](#), [#1878](#), and others in the tracker — I think CephFS is ready for support now, but SELinux needs to get modified itself in order to accept us as a filesystem?

#2 - 09/24/2015 08:03 PM - Huamin Chen

Greg, from the first 2nd test, ceph fs was able to set xattr (thanks to [#1878](#)). But ceph failed to set security.security in my 1st setfattr test.

#3 - 09/24/2015 08:12 PM - Huamin Chen

IMHO, it might be the missing hooks like security_inode_init_security() calls.

#4 - 06/18/2018 05:48 PM - Patrick Donnelly

- *Tracker changed from Bug to Feature*
- *Project changed from Linux kernel client to fs*
- *Subject changed from ceph fs doesn't support selinux to kclient: support SELinux*
- *Priority changed from Normal to High*
- *Target version set to v14.0.0*
- *Component(FS) kceph added*
- *Labels (FS) task(medium) added*

#5 - 06/27/2018 08:37 PM - Patrick Donnelly

- *Status changed from New to Duplicate*

#6 - 06/27/2018 08:37 PM - Patrick Donnelly

- *Duplicates Feature #5486: kclient: make it work with selinux added*