

## CephFS - Bug #49301

### mon/MonCap: `fs authorize` generates unparseable cap for file system name containing '-'

02/15/2021 11:02 PM - Patrick Donnelly

<b>Status:</b> Resolved	<b>% Done:</b> 0%
<b>Priority:</b> Urgent	
<b>Assignee:</b> Ramana Raja	
<b>Category:</b>	
<b>Target version:</b> v17.0.0	
<b>Source:</b> Development	<b>ceph-qa-suite:</b>
<b>Tags:</b>	<b>Component(FS):</b> MDSMonitor
<b>Backport:</b> pacific	<b>Labels (FS):</b> task(easy)
<b>Regression:</b> No	<b>Pull request ID:</b> 39680
<b>Severity:</b> 3 - minor	<b>Crash signature (v1):</b>
<b>Reviewed:</b>	<b>Crash signature (v2):</b>
<b>Affected Versions:</b>	
<b>Description</b>	
<pre>pdonnell@vossi04 ~/ceph/build\$ bin/ceph fs volume create cephfs-ec</pre> <p>Volume created successfully (no MDS daemons created)</p> <pre>pdonnell@vossi04 ~/ceph/build\$ bin/ceph fs authorize cephfs-ec client.foo3 / rwp</pre> <p>Error EINVAL: mds capability parse failed, stopped at '-ec' of 'allow rwp fsname=cephfs-ec'</p>	
I checked the parser and I'm not sure why it fails. This will require a little digging. Clearly it works for the file system name parsing for vxattr parsing: <a href="https://github.com/ceph/ceph/pull/35063">https://github.com/ceph/ceph/pull/35063</a>	
<b>Related issues:</b>	
Copied to CephFS - Backport #49564: pacific: mon/MonCap: `fs authorize` gener...	<b>Resolved</b>

## History

### #1 - 02/23/2021 05:01 AM - Ramana Raja

- Status changed from New to In Progress

making the following changes fixed the issue,

```
diff --git a/src/mds/MDSAuthCaps.cc b/src/mds/MDSAuthCaps.cc
index 34d4febbc8c..dbf96ff3032 100644
--- a/src/mds/MDSAuthCaps.cc
+++ b/src/mds/MDSAuthCaps.cc
@@ -63,7 +63,7 @@ struct MDSCapParser : qi::grammar<Iterator, MDSAuthCaps()>
     lexeme[lit("'") >> *(char_ - '\\') >> '\\'];
     unquoted_path %= +char_("a-zA-Z0-9_./-");
     network_str %= +char_("/.:a-zA-Z0-9_["");
-    fs_name_str %= +char_("a-zA-Z0-9_."");
+    fs_name_str %= +char_("a-zA-Z0-9_.-");

     // match := [path=<path>] [uid=<uid>] [gids=<gid>[,<gid>...]]
     // TODO: allow fsname, and root_squash to be specified with uid, and gidlist
diff --git a/src/mon/MonCap.cc b/src/mon/MonCap.cc
index 2dceb531138..dc5bbe8084c 100644
--- a/src/mon/MonCap.cc
+++ b/src/mon/MonCap.cc
@@ -540,7 +540,7 @@ struct MonCapParser : qi::grammar<Iterator, MonCap()>
     unquoted_word %= +char_("a-zA-Z0-9_./-");
     str %= quoted_string | unquoted_word;
```

```
network_str %= +char_("/.:a-zA-Z0-9-9]");
- fs_name_str %= +char_("a-zA-Z0-9-9.");
+ fs_name_str %= +char_("a-zA-Z0-9-9.-");

spaces = +(lit(' ') | lit('\n') | lit('\t'));
```

**#2 - 02/25/2021 06:37 PM - Ramana Raja**

- Pull request ID set to 39680

**#3 - 03/01/2021 08:09 PM - Patrick Donnelly**

- Status changed from In Progress to Pending Backport

**#4 - 03/01/2021 08:10 PM - Backport Bot**

- Copied to Backport #49564: *pacific: mon/MonCap: `fs authorize` generates unparseable cap for file system name containing '-' added*

**#5 - 03/27/2021 06:38 PM - Nathan Cutler**

- Status changed from Pending Backport to Resolved

While running with --resolve-parent, the script "backport-create-issue" noticed that all backports of this issue are in status "Resolved" or "Rejected".