



Copied file inherit parent directory's Unix permission

https://kb-stage.netapp.com/on-prem/ontap/da/NAS/NAS-KBs/Copied_file_inherit_parent_directory_s_...

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Applies to

NFSv4

Issue

- Copied file inherit the parent directory's Unix permission
- Volume security style: Unix
- Unix mode bits: 777
- This behavior only happens from specific NFS client
- This behavior only happens when NFSv4 is used for mounting.
- In a normal copy operation, the client carries **Attr mask:Mode** as well when sending SETATTR request to storage system

Client umask: 000

```
[root@centos-6 home]# ls -l
-rw-rw-rw-. 1 nobody nobody 0 May  1 17:29 ff1
[root@centos-6 home]#
[root@centos-6 home]# cp ff1 ff3
[root@centos-6 home]#
[root@centos-6 home]# ls -l
-rw-rw-rw-. 1 nobody nobody 0 May  1 17:29 ff1
-rw-rw-rw-. 1 nobody nobody 0 May  1 17:46 ff3
```

```
39          2023-05-01 17:46:00.956723          client_IP
  727        storage_IP  2049          NFS          V4 Call (Reply In 40)
SETATTR FH: 0x934f8420
```

Opcode: PUTFH (22)

```
FileHandle
length: 32
[hash (CRC-32): 0x934f8420]
[Name: ff3]
[Full Name: ff3]
FileHandle:
01010000000000000000000000000000a0050000103bc406e08f3a8000000000000000000
```

Opcode: SETATTR (34)

```
StateID
[StateID Hash: 0xaf9]
StateID seqid: 0
StateID Other: 000000000000000000000000
[StateID Other hash: 0x7bd5c66f]
Attr mask: 0x00410002 (Mode, Time_Access_Set, Time_Modify_Set)
reco_attr: Mode (33)
mode: 0666, Name: Unknown, Read permission for owner, Write
permission for owner, Read permission for group, Write permission for
group, Read permission for others, Write permission for others
.... 000. .... = Name: Unknown (0)
.... 0... .... = Set user id on exec: No
.... .0.. .... = Set group id on exec: No
.... ..0. .... = Save swapped text even
after use: No
.... ..1. .... = Read permission for owner:
Yes
.... ..1... .... = Write permission for owner:
Yes
.... ..0.. .... = Execute permission for
owner: No
.... ..1. .... = Read permission for group:
Yes
.... ..1. .... = Write permission for group:
Yes
```

```

.....0... = Execute permission for
group: No
.....1.. = Read permission for others:
Yes
.....1. = Write permission for
others: Yes
.....0 = Execute permission for
others: No
reco_attr: Time_Access_Set (48)
set_it: SET_TO_SERVER_TIME4 (0)
reco_attr: Time_Modify_Set (54)
set_it: SET_TO_SERVER_TIME4 (0)

```

```

40          2023-05-01 17:46:00.957332          storage_IP  2049
client_IP          727          NFS          V4 Reply (Call In 39)
SETATTR

```

Opcode: GETATTR (9)

```

reco_attr: Mode (33)
mode: 0666, Name: Unknown, Read permission for owner, Write
permission for owner, Read permission for group, Write permission for
group, Read permission for others, Write permission for others
.....000. .... = Name: Unknown (0)
.....0... .... = Set user id on exec: No
.....0.. .... = Set group id on exec: No
.....0. .... = Save swapped text even
after use: No
.....1 .... = Read permission for owner:
Yes
.....1... .... = Write permission for owner:
Yes
.....0.. .... = Execute permission for
owner: No
.....1. .... = Read permission for group:
Yes
.....1 .... = Write permission for group:
Yes
.....0... = Execute permission for
group: No
.....1.. = Read permission for others:
Yes
.....1. = Write permission for
others: Yes
.....0 = Execute permission for
others: No

```



```

reco_attr: Mode (33)
mode: 0777, Name: Unknown, Read permission for owner, Write permission for
owner, Execute permission for owner, Read permission for group, Write
permission for group, Execute permission for group, Read permission for
others, Write permissi
.... 000. .... = Name: Unknown (0)
.... 0... .... = Set user id on exec: No
.... .0.. .... = Set group id on exec: No
.... ..0. .... = Save swapped text even after
use: No
.... ...1 .... = Read permission for owner: Yes
.... ...1... .... = Write permission for owner: Yes
.... ...1.. .... = Execute permission for owner:
Yes
.... ...1. .... = Read permission for group: Yes
.... ...1 .... = Write permission for group: Yes
.... ...1... .... = Execute permission for group:
Yes
.... ...1.. = Read permission for others: Yes
.... ...1. = Write permission for others: Yes
.... ...1 = Execute permission for others:
Yes

```