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간혹 하이퍼바이저가 NonOperational 상태에 빠지고 Up이 되지 않는 경우가 발생할때가 있는데 vdsd.log에 아래와 같은 Permission denied 메시지가 출력된다.

```
2019-03-06 13:35:06,342+0000 INFO (jsonrpc/0) [storage.StoragePool]
updating pool 95f329c1-3361-420a-b04e-d4c81a84adda backend from type
NoneType instance 0x7f889a421dc0 to type StoragePoolMemoryBackend instance
0x7f884c0f4838 (sp:157)
2019-03-06 13:35:06,342+0000 INFO (jsonrpc/0) [storage.StoragePool] Connect
host #2 to the storage pool 95f329c1-3361-420a-b04e-d4c81a84adda with master
domain: 3b47449f-e149-4867-a027-3f5deaebade5 (ver = 1) (sp:688)
2019-03-06 13:35:06,790+0000 INFO (jsonrpc/0) [vdsm.api] FINISH
connectStoragePool error=[Errno 13] Permission denied: '/dev/3b47449f-
e149-4867-a027-3f5deaebade5/metadata' from=::ffff:10.12.69.248,58394,
flow_id=78dfc5cd, task_id=6b2419ab-eceb-43b7-99b9-d8b96a0764c8 (api:52)
2019-03-06 13:35:06,791+0000 ERROR (jsonrpc/0) [storage.TaskManager.Task]
(Task='6b2419ab-eceb-43b7-99b9-d8b96a0764c8') Unexpected error (task:875)
Traceback (most recent call last):
  File "/usr/lib/python2.7/site-packages/vdsm/storage/task.py", line 882, in
_run
    return fn(*args, **kwargs)
  File "<string>", line 2, in connectStoragePool
  File "/usr/lib/python2.7/site-packages/vdsm/common/api.py", line 50, in
method
    ret = func(*args, **kwargs)
  File "/usr/lib/python2.7/site-packages/vdsm/storage/hsm.py", line 1034, in
connectStoragePool
    spUUID, hostID, msdUUID, masterVersion, domainsMap)
  File "/usr/lib/python2.7/site-packages/vdsm/storage/hsm.py", line 1096, in
_connectStoragePool
    res = pool.connect(hostID, msdUUID, masterVersion)
  File "/usr/lib/python2.7/site-packages/vdsm/storage/sp.py", line 700, in
connect
    self.__rebuild(msdUUID=msdUUID, masterVersion=masterVersion)
  File "/usr/lib/python2.7/site-packages/vdsm/storage/sp.py", line 1274, in
__rebuild
    self.setMasterDomain(msdUUID, masterVersion)
  File "/usr/lib/python2.7/site-packages/vdsm/storage/sp.py", line 1491, in
setMasterDomain
    domain = sdCache.produce(msdUUID)
  File "/usr/lib/python2.7/site-packages/vdsm/storage/sdc.py", line 110, in
produce
    domain.getRealDomain()
  File "/usr/lib/python2.7/site-packages/vdsm/storage/sdc.py", line 51, in
getRealDomain
    return self._cache._realProduce(self._sdUUID)
  File "/usr/lib/python2.7/site-packages/vdsm/storage/sdc.py", line 134, in
```

```
_realProduce
    domain = self._findDomain(sdUUID)
    File "/usr/lib/python2.7/site-packages/vdsm/storage/sdc.py", line 151, in
_findDomain
    return findMethod(sdUUID)
    File "/usr/lib/python2.7/site-packages/vdsm/storage/blockSD.py", line
1652, in findDomain
    return BlockStorageDomain(BlockStorageDomain.findDomainPath(sdUUID))
    File "/usr/lib/python2.7/site-packages/vdsm/storage/blockSD.py", line 962,
in __init__
    manifest = self.manifestClass(sdUUID)
    File "/usr/lib/python2.7/site-packages/vdsm/storage/blockSD.py", line 430,
in __init__
    metadata = selectMetadata(sdUUID)
    File "/usr/lib/python2.7/site-packages/vdsm/storage/blockSD.py", line 399,
in selectMetadata
    if len(mdProvider) > 0:
    File "/usr/lib/python2.7/site-packages/vdsm/storage/persistent.py", line
67, in __len__
    return len(self.keys())
    File "/usr/lib/python2.7/site-packages/vdsm/storage/persistent.py", line
112, in keys
    return list(self.__iter__())
    File "/usr/lib/python2.7/site-packages/vdsm/storage/persistent.py", line
109, in __iter__
    self._dict.__iter__()
    File "/usr/lib/python2.7/site-packages/vdsm/storage/persistent.py", line
227, in __iter__
    with self._accessWrapper():
    File "/usr/lib64/python2.7/contextlib.py", line 17, in __enter__
    return self.gen.next()
    File "/usr/lib/python2.7/site-packages/vdsm/storage/persistent.py", line
154, in _accessWrapper
    self.refresh()
    File "/usr/lib/python2.7/site-packages/vdsm/storage/persistent.py", line
232, in refresh
    lines = self._metaRW.readlines()
    File "/usr/lib/python2.7/site-packages/vdsm/storage/blockSD.py", line 340,
in readlines
    refresh=self._needs_refresh())
    File "/usr/lib/python2.7/site-packages/vdsm/storage/blockSD.py", line 376,
in _needs_refresh
    lv_size = fsutils.size(self.metavol)
    File "/usr/lib/python2.7/site-packages/vdsm/storage/fsutils.py", line 30,
in size
    with io.open(filename, "rb") as f:
IOError: [Errno 13] Permission denied: '/dev/3b47449f-e149-4867-
a027-3f5deaebade5/metadata'
2019-03-06 13:35:06,791+0000 INFO (jsonrpc/0) [storage.TaskManager.Task]
(Task='6b2419ab-eceb-43b7-99b9-d8b96a0764c8') aborting: Task is aborted:
u"[Errno 13] Permission denied: '/dev/3b47449f-e149-4867-
```

```

a027-3f5deaebade5/metadata'" - code 100 (task:1181)
2019-03-06 13:35:06,791+0000 ERROR (jsonrpc/0) [storage.Dispatcher] FINISH
connectStoragePool error=[Errno 13] Permission denied: '/dev/3b47449f-
e149-4867-a027-3f5deaebade5/metadata' (dispatcher:87)
Traceback (most recent call last):
  File "/usr/lib/python2.7/site-packages/vdsm/storage/dispatcher.py", line
74, in wrapper
    result = ctask.prepare(func, *args, **kwargs)
  File "/usr/lib/python2.7/site-packages/vdsm/storage/task.py", line 108, in
wrapper
    return m(self, *a, **kw)
  File "/usr/lib/python2.7/site-packages/vdsm/storage/task.py", line 1189,
in prepare
    raise self.error
IOError: [Errno 13] Permission denied: '/dev/3b47449f-e149-4867-
a027-3f5deaebade5/metadata'
2019-03-06 13:35:06,791+0000 INFO (jsonrpc/0) [jsonrpc.JsonRpcServer] RPC
call StoragePool.connect failed (error 302) in 0.45 seconds (__init__:312)

```

IOError: [Errno 13] Permission denied: '/dev/3b47449f-e149-4867-a027-3f5deaebade5/metadata' 부분을 보면 알겠지만 이 내용은 말 그대로 스토리지 메타데이터 저장소에 접근을 할 수 없어서 하이퍼바이저가 NonOperational상태로 빠지게 되는것이다. 원인은 대부분 device장치의 소유권/권한 문제인경우가 대부분이다.

원래 해당 metadata나 기타 다른 디렉터리의 권한이 `vdsm.qemu` 또는 `vdsm.sanlock`등의 소유권이 설정되어있어야 정상인데 가끔 문제가 되는 시스템은 해당 디렉토리 소유권한이 `root.root` 등으로 잘못 되어있는경우에 이런 오류가 발생한다. `selinux`권한과 관련있는경우가 대부분이다.

해결방법은 `selinux`의 태깅을 새롭게 라벨링해주는것이다.

```

$ touch /.autorelabel
$ reboot

```

리부팅하면 `selinux tagging`을 새롭게 설정해주고 부팅된 후 해당 장치/디렉토리의 권한을 다시 확인해 보면 된다.

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