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## NFS mount of NTFS volume using root user hangs

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[Table of contents](#)

### Applies to

- ONTAP 9
- NTFS security style volume
- NFS client

### Issue

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```
cluster1::> vserver export-policy check-access -vserver vs1 -client-ip 10.238.2.34
```

Path	Policy	Owner	Policy Owner Type	Rule Index	Access
/	default	vs1_root	volume	1	read
/dir1	default	vs1_root	volume	1	read
/dir1/dir2	default	vs1_root	volume	1	read
/dir1/dir2/flex1	data	vol4	volume	10	read-write

4 entries were displayed.

## Cause

In order for a Unix/Linux client to access an NTFS (Windows) volume, the Unix user performing the mount must be mapped to a Windows user that successfully authenticates and has NTFS file system permissions.

## Solution

### 1. Check existing name mapping rules

```
cluster1::> vserver name-mapping show
```

Vserver: vs1  
Direction: win-unix

Position	Hostname	IP Address/Mask	Pattern	Replacement
1	google.com	-	EXAMPLE\\administrato	nobody
2	-	10.238.2.34/32	EXAMPLE\\(.+)	\\_1

### 2. Create a name mapping rule for root user

```
cluster1::> vserver name-mapping create -vserver vs1 -direction unix-win -p
```

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is user

```
cluster1::> set advanced
cluster1::*> vserver services access-check name-mapping show -vserver vs1 -
```

#### 4. Confirm that the Unix user 'root' authenticates to a Windows user

```
cluster1::*> vserver services access-check authentication show-creds -node
(vserver services access-check authentication show-creds)
```

```
UNIX UID: 0 <> Windows User: CIFSQA\Administrator (User)
```

```
GID: root
```

```
Supplementary GIDs: <None>
```

##### Windows Membership:

```
CIFSQA\Schema Admins (Domain group)
```

```
CIFSQA\Enterprise Admins (Domain group)
```

```
CIFSQA\Domain Admins (Domain group)
```

```
CIFSQA\Domain Users (Domain group)
```

```
CIFSQA\Group Policy Creator Owners (Domain group)
```

```
BUILTIN\Administrators (Alias)
```

```
BUILTIN\Users (Alias)
```

```
User is also a member of Everyone, Authenticated Users, and Network Users
```

##### Privileges (0x2b7):

```
SeBackupPrivilege
```

```
SeRestorePrivilege
```

```
SeTakeOwnershipPrivilege
```

## Additional Information

You can check NTFS permissions in Window or running the following command:

```
cluster1::> vserver security file-directory show -vserver vs1 -path /vol4
(vserver security file-directory show)
```

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vserver: vs1  
Path: /vol4

```
File Inode Number: 64
Security Style: ntfs
Effective Style: ntfs
DOS Attributes: 10
DOS Attributes in Text: ----D---
Expanded Dos Attributes: -
Unix User Id: 0
Unix Group Id: 0
Unix Mode Bits: 777
Unix Mode Bits in Text: rwxrwxrwx
ACLs: NTFS Security Descriptor
Control:0x8004
Owner:BUILTIN\Administrators
Group:BUILTIN\Administrators
DACL - ACEs
ALLOW-Everyone-0x1f01ff
ALLOW-Everyone-0x10000000-OI|CI|IO
ALLOW-CIFSQA\Administrator-0x1f01ff-OI
```



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- SCV or Veeam restore fails randomly when mounting the cloned datastore
- How to limit NFS access to the SVM root volume

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