# Unable to see UUID/label using blkid and lsblk commands

Solution Verified - Updated October 13 2017 at 11:26 AM - English ▼ ()

#### **Environment**

Red Hat Enterprise Linux 7

#### Issue

- Unable to see UUID/label using blkid and lsblk --fs
- Command shows no output. For example, /dev/sdd is known to contain a filesystem, but when using the blkid or lsblk --fs commands as shown or when passing the device name to the blkid command, no output is given for the device.

```
[root@localhost ~]# blkid
/dev/sda1: UUID="1d388f9d-13c5-46c5-8596-3dddaa5311fd" TYPE="xfs"
/dev/sda2: UUID="Mb2UbN-431B-L4qv-bES3-zPPr-YX11-1HLhvc" TYPE="LVM2_member"
/dev/sdb: UUID="201c080c-2916-42f1-8e35-0e62fb43a692" TYPE="xfs"
/dev/mapper/rhel-swap: UUID="253c0a80-8653-4b9d-8ba1-8802a971796b" TYPE="swap"
/dev/sde: UUID="2836381a-4894-42c8-9d1d-0d6cea8fe1f7" TYPE="xfs"
/dev/mapper/rhel-root: UUID="c716fc3e-d977-452f-9507-21a2181b0304" TYPE="xfs"

[root@localhost ~]# blkid /dev/sdd
[root@localhost ~]# lsblk --fs /dev/sdd
NAME FSTYPE LABEL UUID MOUNTPOINT
sdd
```

## Resolution

If ambivalent results (multiple filesystem magic numbers or superblocks) are found for a particular device by the blkid or lsblk --fs commands, nothing will be reported for that device. Remove all extra filesystem superblock markers and magic numbers using the wipefs tool.

### **Root Cause**

- Ambivalent results currently are not producing the correct return code. The following bug has been opened to attempt to correct the issue, and provide a more descriptive failure rather than a silent one.
  - Bug 1501953 blkid shows wrong return code on failure with ambivalent results (https://bugzilla.redhat.com/show\_bug.cgi?id=1501953)

## **Diagnostic Steps**

• Having duplicate filesystem labels or magic numbers on a device causes the blkid or lsblk --fs commands to display no output. Further information can be gathered by probing the device with the blkid -p command.

```
[root@localhost ~]# blkid -p /dev/sdd
/dev/sdd: ambivalent result (probably more filesystems on the device, use wipefs(8) to see more details)
```

• Following the instructions to use the wipefs command we see that there are two filesystems present on the disk. In this case, one magic number located at the front of the disk and the other (ZFS) located at the end of the device.

• By removing the ZFS label, the blkid and lsblk --fs commands are able to report the XFS UUID and label again.

In some cases, it may be neccessary to run wipefs more than once to remove all extra superblock markers from the disk. For example, in this case, 7 ZFS labels were removed in order to make the XFS details visible again.

Product(s) Red Hat Enterprise Linux (/taxonomy/products/red-hat-enterprise-linux) Component util-linux (/components/util-linux)

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