

ZFS: Verify/change properties of a zfs filesystem

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ZFS: Verify/change properties of a zfs filesystem

```
# Tested on RHEL 6 & 7

ZPOOL=c_pool
ZFSFS=zfs01

# Check the properties of the filesystem

zfs get all $ZPOOL/$ZFSFS
```

NAME	PROPERTY	VALUE	SOURCE
c_pool/zfs01	type	filesystem	-
c_pool/zfs01	creation	Wed Sep 2 12:36 2015	-
c_pool/zfs01	used	349M	-
c_pool/zfs01	available	675M	-
c_pool/zfs01	referenced	349M	-
c_pool/zfs01	compressratio	28.18x	-
c_pool/zfs01	mounted	yes	-
c_pool/zfs01	quota	1G	local
c_pool/zfs01	reservation	none	default
c_pool/zfs01	recordsize	128K	default
c_pool/zfs01	mountpoint	/zfs01	local
c_pool/zfs01	sharenfs	on	local
c_pool/zfs01	checksum	on	default
c_pool/zfs01	compression	on	local
c_pool/zfs01	atime	on	default
c_pool/zfs01	devices	on	default

```

c_pool/zfs01  exec           on           default
c_pool/zfs01  setuid          on           default
c_pool/zfs01  readonly       off          default
c_pool/zfs01  zoned          off          default
c_pool/zfs01  snapdir        hidden       default
c_pool/zfs01  aclinherit     restricted   default
c_pool/zfs01  canmount       on           default
c_pool/zfs01  xattr          on           default
c_pool/zfs01  copies         1           default
c_pool/zfs01  version        5           -
c_pool/zfs01  utf8only       off          -
c_pool/zfs01  normalization  none        -
c_pool/zfs01  casesensitivity sensitive     -
c_pool/zfs01  vscan          off          default
c_pool/zfs01  nbmand         off          default
c_pool/zfs01  sharesmb       off          default
c_pool/zfs01  refquota       none        default
c_pool/zfs01  refreservation none        default
c_pool/zfs01  primarycache  all         default
c_pool/zfs01  secondarycache all         default
c_pool/zfs01  usedbysnapshots 0           -
c_pool/zfs01  usedbydataset  349M       -
c_pool/zfs01  usedbychildren 0           -
c_pool/zfs01  usedbyrefreservation 0           -
c_pool/zfs01  logbias        latency     default
c_pool/zfs01  dedup          off          default
c_pool/zfs01  mlslabel       none        default
c_pool/zfs01  sync           standard    default
c_pool/zfs01  refcompressratio 28.18x     -

```

```
# Get one the properties (in this case, see if F.S. is NFS shareable)
```

```
zfs get sharenfs $ZPOOL/$ZFSFS
```

```

NAME          PROPERTY  VALUE    SOURCE
c_pool/zfs01  sharenfs  on       local

```

```
zfs get all $ZPOOL/$ZFSFS | grep sharenfs
    c_pool/zfs01  sharenfs          on          local

# Change one of the properties (in this case, we make the F.S. not
shareable)

zfs set sharenfs=off $ZPOOL/$ZFSFS

# Regarding the "sharenfs" property, we can make all zfs filesystems
that have the property
# "on", automatically being exported. It persists over a reboot. We
can run individual
# "zfs share" commands for specific filesystems (for this to work,
obviously, nfs service
# must be started):
#
# zfs set sharenfs=on $ZPOOL/$ZFSFS
#
# zfs share -a      # or "zfs share $ZPOOL/$ZFSFS"
#
# showmount -e
#   Export list for <myserver>:
#   /zfs01 *

# Change F.S. mount point (obviously to carry out this operation F.S.
shouldn't be in use)

MNTPT=newmntpt

zfs set mountpoint=/$MNTPT $ZPOOL/$ZFSFS
```

```
zfs list | grep $ZPOOL/$ZFSFS
  c_pool/zfs01    349M    675M    349M  /newmnpt

zfs mount $ZPOOL/$ZFSFS    # alternatively run "zfs mount -a"

df -h /$MNTPT
Filesystem          Size  Used Avail Use% Mounted on
c_pool/zfs01       1.0G  350M  675M  35% /newmnpt
```

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