

ZPOOL: Grow a zpool by adding new device(s)

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ZPOOL: Grow a zpool by adding new device(s)

```
# Tested on RHEL 6 & 7

# Even if ZFS can use individual slices or partitions, it is
recommended to use whole disks.
```

```
# -----
-----
# Extending a concat zpool
# -----
-----
```

```
POOLNAME=c_pool
POOLMNTPT=/c_pool
DEVICE01=/dev/sdd
```

```
# Given following zpool:
```

```
zpool status $POOLNAME
  pool: c_pool
  state: ONLINE
  scan: none requested
config:
```

NAME	STATE	READ	WRITE	CKSUM
c_pool	ONLINE	0	0	0

```
sdb      ONLINE      0      0      0
sdc      ONLINE      0      0      0
```

```
errors: No known data errors
```

```
zpool list $POOLNAME
```

```
NAME      SIZE  ALLOC   FREE   CAP  DEDUP  HEALTH  ALTROOT
c_pool    19.9G  104K  19.9G   0%  1.00x  ONLINE  -
```

```
# Extend zpool
```

```
zpool add $POOLNAME $DEVICE01
```

```
# If you have an error like this one:
```

```
invalid vdev specification
```

```
use '-f' to override the following errors:
```

```
/dev/sdd does not contain an EFI label but it may contain
```

```
partition
```

```
information in the MBR.
```

```
# you should use '-f' option to create the pool - first ensure that  
disk(s) are the
```

```
# right one(s):
```

```
# zpool add -f $POOLNAME $DEVICE01
```

```
# Check
```

```
zpool status $POOLNAME
```

```
pool: c_pool
```

```
state: ONLINE
```

```
scan: none requested
```

config:

NAME	STATE	READ	WRITE	CKSUM	
c_pool	ONLINE	0	0	0	
sdb	ONLINE	0	0	0	
sdc	ONLINE	0	0	0	
sdd	ONLINE	0	0	0	<-----

errors: No known data errors

zpool list \$POOLNAME

NAME	SIZE	ALLOC	FREE	CAP	DEDUP	HEALTH	ALTROOT
c_pool	29.8G	166K	29.8G	0%	1.00x	ONLINE	-

Extending a mirrored zpool

POOLNAME=m_pool
SUBMIRR1=/dev/sdd
SUBMIRR2=/dev/sde

Given following zpool:

zpool status \$POOLNAME

pool: m_pool
state: ONLINE
scan: none requested
config:

NAME	STATE	READ	WRITE	CKSUM
------	-------	------	-------	-------

```
    m_pool      ONLINE      0      0      0
      mirror-0  ONLINE      0      0      0
        sdb     ONLINE      0      0      0
          sdc   ONLINE      0      0      0
```

errors: No known data errors

zpool list \$POOLNAME

```
NAME      SIZE  ALLOC  FREE  CAP  DEDUP  HEALTH  ALTROOT
m_pool    9.94G  100K  9.94G   0%  1.00x  ONLINE  -
```

Extend zpool

zpool add \$POOLNAME mirror \$SUBMIRR1 \$SUBMIRR2

If you have an error like this one:

invalid vdev specification

use '-f' to override the following errors:

/dev/sdd does not contain an EFI label but it may contain
partition

information in the MBR.

you should use '-f' option to create the pool - first ensure that
disk(s) are the

right one(s):

zpool add -f \$POOLNAME mirror \$SUBMIRR1 \$SUBMIRR2

Check

zpool status \$POOLNAME

```
pool: m_pool
state: ONLINE
```

```
scan: none requested
config:
```

NAME	STATE	READ	WRITE	CKSUM	
m_pool	ONLINE	0	0	0	
mirror-0	ONLINE	0	0	0	
sdb	ONLINE	0	0	0	
sdc	ONLINE	0	0	0	
mirror-1	ONLINE	0	0	0	
sdd	ONLINE	0	0	0	<-----
sde	ONLINE	0	0	0	<-----

```
errors: No known data errors
```

zpool list \$POOLNAME

NAME	SIZE	ALLOC	FREE	CAP	DEDUP	HEALTH	ALTROOT
m_pool	19.9G	104K	19.9G	0%	1.00x	ONLINE	-

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