

# 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
sdcc	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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