

Bind Mounts for Backups

-x, --one-file-system

(rsync, tar, borgbackup, restic, ...)

```
$ sshfs files: src/mnt
```

```
[...]
```

```
$ sudo rsync -r --one-file-system src dest
```

```
rsync: readlink_stat("/home/gnoutchd/tmp/src/mnt")
```

```
failed: Permission denied (13)
```

```
rsync error: some files/attrs were not transferred  
(see previous errors) (code 23) at main.c(1196)
```

```
[sender=3.1.2]
```

```
$ echo $?
```

```
23
```

```
$
```

Bind mounts

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mkdir /var/spool/backup-view
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mkdir /var/spool/backup-view  
mount -o bind,ro,private \  
/ /var/spool/backup-view
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# /var/spool/backup-view/{proc,dev,sys}  
# are all empty!
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```
mount -o bind,ro,private \  
    /boot /var/spool/backup-view/boot
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mkdir /var/spool/backup-view
mount -o bind,ro,private \
    / /var/spool/backup-view
# /var/spool/backup-view/{proc,dev,sys}
# are all empty!
mount -o bind,ro,private \
    /boot /var/spool/backup-view/boot
rsync -a /var/spool/backup-view/ [...]
```