

# RSync

RSync copies files and can sync between servers

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# Backing up

RSync copies files and can sync between servers

Use RSync in [[Cronjob]]

Archive Backups with [[tar]]

TEST WITH: `--dry-run`

```
rsync -aAXv --delete --exclude={/home/danicus/.cache/*} /home /mounted/backup
```

a= archive= its a few other tags as well

A= keeps permissions

X= keeps the next level of permissions

v= verbose

-- delete= deletes any files inside the file this will be copying to

--exclude= excludes `file/this/\*, andfile/that/\*`

/home= location of files you want to back up

/mounted= the backup drive location

see [[RSync#\*NOTE "/"\*]]

##### Multiple directories to one end location

##### use seperate command lines and run them seperately.

```
sudo rsync -aAXv --delete /etc /mounted/backup/wallserver/  
sudo rsync -aAXv --delete /home /mounted/backup/wallserver/  
sudo rsync -aAXv --delete /root /mounted/backup/wallserver/  
sudo rsync -aAXv --delete /var /mounted/backup/wallserver/  
sudo rsync -aAXv --delete /usr/local/bin /mounted/backup/wallserver/  
sudo rsync -aAXv --delete /usr/local/sbin /mounted/backup/wallserver/  
sudo rsync -aAXv --delete /srv /mounted/backup/wallserver/  
sudo rsync -aAXv --delete /opt /mounted/backup/wallserver/  
sudo rsync -aAXv --delete /mounted/main /mounted/backup/wallserver/
```

##### Multiple directories to one end location FROM an Remote Source

```
rsync -e ssh root@remote.com:/path/to/file :/path/to/second/file/ /local/directory/
```

>##### Permissions denied (this my not work)

If you are denied because of `PermitRootLogin no`, create a new user

>

> Make a new user for rsync to use then add that name to the /etc/sudoers file so that, that user can execute the rsync command without a password

> In the /etc/sudoers file add:

```
> `rsyncuser ALL= NOPASSWD:/usr/bin/rsync`
```

>

> Then, we use `**rsync-path**` to make `_rsync_` works with the sudo.

```
> `--rsync-path="sudo rsync"`
```

```
> `rsync -aAXv --rsync-path="sudo rsync" --delete`
```

# How to restore backup with RSync

<https://askubuntu.com/questions/1011136/how-to-restore-backup-with-rsync>

asically just reverse the order for the backup.

-tag it `rsync -aXv`

Then start from backup directory and end with destination directory

```
sudo rsync -aXv --delete /mounted/backups/cpbackups/ /mounted/main/directory/location/
```

+from Backup= /mounted/backups/cpbackups

+To Destination= /mounted/main/directory/location?

\*NOTE "/"\*

The "/" means something!

At the end of the directory, if you do not include the "/" Rsync will make a directory inside the directory you specify, then will include the files in from there.

If you DO include the "/", it will drop the files/directories in, directly at the directory that you specify.

Example:

```
sudo rsync -aXv --delete
```

((1)) /mounted/backups/cpbackups

((2)) /mounted/main/directory/location?

Without "/"

((1)) File name will be "cpbackups" and will make a directory named "cpbackups" and put it in

((2)).

With "/"

Will take files from INSIDE ((1)) and put them INSIDE the ((2)) directory.

**\*\*Change the flags\*\***

```
rsync -aHAXvP /home_folder_path /backup_folder_path
```