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# Lsyncd

Install required libraries:

```
apt-get install lsyncd
echo 'fs.inotify.max_user_watches=400000' > /etc/sysctl.d/99-lsyncd.conf
sysctl -p /etc/sysctl.d/99-lsyncd.conf
```

Create the sync directories on both servers:

```
mkdir /home/moodle
mkdir /home/moodledata
chmod 775 /home/moodle
chmod 775 /home/moodledata
```

Create the user:

```
useradd lsyncd
mkdir /home/lsyncd
chown lsyncd:lsyncd /home/lsyncd
usermod -aG www-data lsyncd
```

On server1:

```
su - lsyncd
ssh-keygen
```

On server2:

```
su - lsyncd
mkdir /home/lsyncd/.ssh
chmod 700 /home/lsyncd/.ssh
touch /home/lsyncd/.ssh/authorized_keys
chmod 600 /home/lsyncd/.ssh/authorized_keys
```

Copy key from server1 /home/lsyncd/.ssh/id\_rsa.pub to server2 /home/lsyncd/.ssh/authorized\_keys.

Create Lsyncd configuration on server1:

```
touch /etc/lsyncd.conf
touch /etc/lsyncd.exclude
chown lsyncd:lsyncd /etc/lsyncd.conf
chown lsyncd:lsyncd /etc/lsyncd.exclude
touch /var/log/lsyncd.log
touch /var/log/lsyncd-status.log
chown lsyncd:lsyncd /var/log/lsyncd.log
chown lsyncd:lsyncd /var/log/lsyncd-status.log
```

Content of /etc/lsyncd.conf:

```
settings {
    logfile = "/var/log/lsyncd.log",
    statusFile = "/var/log/lsyncd-status.log",
    statusInterval = 20,
    maxProcesses = 1
}

sync {
    default.rsyncssh,
    source="/home/moodle",
    host="lsyncd@192.168.122.135",
    excludeFrom="/etc/lsyncd.exclude",
    targetdir="/home/moodle",
    rsync = {
        archive = true,
        compress = false,
        whole_file = false
    },
    ssh = {
        port = 22
    }
}
```

Create a systemd unit to start automatically with the following name `/etc/systemd/system/lsyncd-moodle.service`

```
[Unit]
Description=Live Syncing (Mirror) Daemon
After=network.target

[Service]
User=lsyncd
Group=lsyncd
Restart=always
Type=simple
Nice=19
ExecStart=/usr/bin/lsyncd -nodaemon -pidfile /run/lsyncd.pid
/etc/lsyncd.conf
ExecReload=/bin/kill -HUP $MAINPID
PIDFile=/run/lsyncd.pid

[Install]
WantedBy=multi-user.target
```

Reload systemd and enable lsyncd-moodle:

```
systemctl daemon-reload
systemctl enable lsyncd-moodle
systemctl start lsyncd-moodle
```

## References

- <https://download.moodle.org/download.php/stable404/moodle-4.4.1.tgz>
- <https://developers.redhat.com/blog/2018/11/02/how-to-manually-copy-ssh-keys-rhel>
- <https://github.com/lsyncd/lsyncd#readme>
- [https://docs.rockylinux.org/guides/backup/mirroring\\_lsyncd/](https://docs.rockylinux.org/guides/backup/mirroring_lsyncd/)

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