How to install Syncthing on ClearOS

2021-07-20: WikiSuite will now support all major Linux distros. Thus, the information below is no longer updated. It may still be valid, or not. It will be eventually removed from this site, so anything relevant should be moved to the appropriate site. For anything related to ClearOS, please search among the following: ClearOS site, code base, Developer docs, Wiki or forum.

Please contact us if you would like to help out.

Syncthing is a file synchronization tool. This app is "Syncthing for the server".

Status as of 2017-11-24: The app is complete. The next step is to ask both ClearOS and Syncthing communities to test extensively.

To install Syncthing within the WikiSuite environment, follow the next steps.

```bash
yum --enablerepo=clearos-contribs-testing,clearos-updates-testing install app-syncthing
```

To update

```bash
yum --enablerepo=clearos-contribs-testing,clearos-updates-testing upgrade app-syncthing
```

Note: Syncthing doesn't run as root and, thus, you need to create at least one user that has access.

Then, visit https://example.org:81/app/syncthing to configure

- Start / stop
- Configure access (three options)
- Configure firewall -> https://docs.syncthing.net/users/firewall.html
- You can configure your other devices to synchronize with this new device in this server as usual. See: https://docs.syncthing.net/intro/getting-started.html#configuring.

Each authorized user can then manage his or her Syncthing instance at: https://example.org:81/syncthing/ (the trailing / is necessary).
If Syncthing is protected with Two Factor Authentication, users first need to log in to https://example.org:81/ before accessing https://example.org:81/syncthing/.

Screenshot
Features

- Multi-user: Syncthing has the concept of devices and not users. But ClearOS's Syncthing user plugin now controls whether an individual user can configure her or his own Syncthing instance.
- Optional support with the Dynamic Firewall for additional security (like two factor authentication).

Notes

- ClearOS manages the authentication to the Syncthing app (which is a good thing because it can offer additional protections like Multi-Factor Authentication). However, it means that you can't log in to Syncthing with user B if you are already logged in to ClearOS with user A. If you do, you'll get a message: "You are already logged in!"

Limitations

- After adding a new user in syncthing_plugin group, you need to click the button Renew Webconfig to restart and regenerate webconfig config files with the new user.
- Syncthing cannot self-upgrade because all daemons (should) be running as non-privileged users, and an upgrade can only be done as root which we do not want running for security reasons. We will have to push upgrades out via RPM/contribs repo as needed. It is quite easy. Thus, you'll see some warnings like "Automatic upgrade: open /usr/bin/syncthing746215824: permission denied".
- Even if a user's permission to use Syncthing is removed, it can take a day for Syncthing to remove the "running" label.

Related pages

- Syncthing
- Syncthing development
- Syncthing in WikiSuite
- TRIM and Syncthing for automated offsite backups

Related links

- https://github.com/WikiSuite/syncthing
- https://github.com/WikiSuite/app-syncthing
- https://github.com/WikiSuite/app-syncthing-plugin
- https://github.com/syncthing/syncthing/issues/3473
- https://github.com/syncthing/syncthing/issues/2721
- https://forum.syncthing.net/t/im-handing-out-build-boxes/763
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**alias**

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