-node\_modules (node version: 14.18.3)  
<https://drive.google.com/file/d/1UpA7bvWROSsgZDRedKnqq0MdxVj9vKWv/view?usp=sharing>

-publishing logic

. file uploading – 3rdparty/sabre/dav/lib/DAV/CorePlugin.php

.. handle small and large(chunk upload) files separately

handle\_small\_file(), handle\_big\_file()

.. move uploaded files

move\_file() function:

move files to /before/ folder using php rename() function

.. save info to file

write\_info() function:

save moved file info into a file that has the same name of the current user in the /filelists/ folder

. cron job (scanning files in after folder) – apps/files/lib/BackgroundJob/ScanCheckedFiles.php

.. find user to scan  
getUserToScan() function

.. get filelist of the scanned user

getFilelist() function:

filelist of the user is in the file that has the same name of the user in the /filelists/ folder

the function reads filelist from the file and write them to db and reset the file

.. scan /after/ folder

used php scandir() function

read filelist from db that is written from getFilelist() function and move files from /after/ folder

- error message

core/templates/exception.php

--- File Uploading

File uploading is handled by webdav plugin (3rdparty/sabre/).

PUT remote.php/dav/files/user/path/to/file

Basically, there are 2 types of file uploading.

- Upload small file

The file will be uploaded directly to the server (data/user/files/).

- Upload large file

The file will be uploaded via chunks to the temp folder (data/user/uploads) first.

The server will assemble the chunks and move the final file to the folder (data/user/files).

These operations are done in CorePlugin.php file (3rdparty/sabre/dav/lib/DAV/).

- Small file: in httpPut() function.

- Large file: in httpMove() function.

We catch files just before the server put files to the ‘files’ folder and move them to ‘before’ folder.

--- File Downloading

File downloading is handled by webdav plugin also.

GET remote.php/dav/files/user/path/to/file

--- File Deleting

File deleting is handled by webdav plugin and ‘Deleted files’ app (apps/files\_trashbin).

DELETE remote.php/dav/files/user/path/to/file

But the server moves file to trash first (data/user/files\_trashbin) and users can delete permanently or restore the file.

By default, these files remain in the trash bin for 30 days. To prevent a user from running out of disk space, the Deleted files app will not utilize more than 50% of the currently available free quota for deleted files. If the deleted files exceed this limit, the app deletes the oldest files until it gets below this limit.

--- File Sharing

File sharing is handled by ‘File sharing’ app (apps/files\_sharing/).

--- 2FA

This feature is handled by TwoFactorChallengeController.php (core/Controller).

After user type username and password, the server redirects to show 2fa challenge.

After user solve the challenge, the server redirects back to the nextcloud page.

--- Data Usage Limit

See lib/private/Files/Storage/Wrapper/Quota.php.