

ZZ Infrastructure documentation

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See <https://zz.pages.zz.de/infra-handbook> for the HTML based documentation.
The PDF version can be downloaded here <http://zz.pages.zz.de/infra-handbook/infra-handbook.pdf>

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paperless

- Scanner config
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Installpath: flo@brick:~/projects/paperless



TODO - Needs to move to `/scratch/local` to have more space

docker-compose

```
ssh flo@brick
cd ~/projects/paperless
docker-compose down
docker-compose up -d
```

this will take a couple of minutes to start.

CIFS Samba service

On brick - Samba Share. User is `n7100e`. Password in gopass at `zzinfra/brick/user/n7100e`. The directory shared is `/scratch/local/doc/paperless/consume` which itself is also mounted into the paperless container to automatically ingest documents.

```
[scan]
comment = Scan results
path = /scratch/local/doc/paperless/consume
writeable = yes
create mask = 0700
directory mask = 0700
valid users = n7100e,flo
write list = n7100e,flo
guest ok = no
```

The Scanner had initially issues with SMBv1 and NTLMv1 which had to be enabled in Samba

```
[global]
client min protocol = NT1
server min protocol = NT1
ntlm auth = yes
```

UUCP services

pax.zz.de offers UUCP (Unix to Unix copy) links via SSL and also mail delivery via these links.

How to configure a UUCP client

For Debian based systems install the package `uucp` and `openssl`.

port file

First you need to tell UUCP on what command to call if it wants to call the "other side" of the UUCP link. To do this add the following lines to your `/etc/uucp/port` file.

```
port SSL
    type pipe
    command /usr/bin/openssl s_client -comp -quiet -host \H -port 4031
```

nodename

Then you need to set your own uucp nodename which is typically not the FQDN hostname (e.g. with domain) of your system.

Edit the file `/etc/uucp/config` and look for the statement `nodename` and set it accordingly:

```
nodename vax01
```

sys file

Then you need to add systems to call - typically the upstream you got. For this edit the file `/etc/uucp/sys` and add the following block:

```
system pax
    call-login *
    call-password *
    time any
    address pax.zz.de
    port SSL
    protocol t
```

This block tells UUCP there is a system `pax`, which is reachable via the PORT SSL at the address `pax.zz.de` and on the connection it should speak the `t` protocol and it may call the system at any time.

call file

Then you need to add the given password to `/etc/uucp/call`:

```
pax      vax01      PaSsWoRd
```

this tells to use `PaSsWoRd` when calling `pax` as `vax01`.

Testing the link

After done all this you may check if the connection is working by calling

```
uucico -X2 -x2 -S pax
```

and then have a look at the logfile at `/var/log/uucp/Log` which should show

```
uucico pax - (2024-08-05 10:10:01.15 1574233) Calling system pax (port SSL)
uucico pax - (2024-08-05 10:10:01.30 1574233) Login successful
uucico pax - (2024-08-05 10:10:01.35 1574233) Handshake successful (protocol 't')
uucico pax - (2024-08-05 10:10:03.38 1574233) Call complete (2 seconds 0 bytes 0 bps)
```

Postfix

Now the only thing left is to configure your mail transport agent to deliver mails via UUCP to system pax.

For postfix you need to set at least `myhostname`, `mydestination`, `myorigin` to your correct hostname given to you and add these 2 lines to your postfix config and restart postfix.

```
default_transport = uucp
relayhost = pax
```

As an optional feature you may disable the inbound SMTP service as its not needed. To do so edit `/etc/postfix/master.cf` and comment the line saying

```
#smtp      inet  n       -       y       -       -       smtpd
```



There are multiple lines with smtp at the beginning, see the end with smtpd

If you want uucp not only to call if run manually, or run by cron you may tell postfix to trigger the uucp call immediatly when a mail is being queued. To do so lookup the entry for uucp in `/etc/postfix/master.cf` and remove the `-r` which inhibits `uux` to immediatly call `uucico` to call the remote system.

```
uucp      unix  -      n      n      -      -      pipe
flags=Fqhu user=uucp argv=uux -r -n -z -a$sender - $nexthop!rmail ($recipient)
```