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# FCR Server Quattor installation

NOTE: This description is not including the creation of necessary DB tables, but only the installation of the server node

See also: FCR Production service

## Quattor templates

FCR has configuration

- inside the httpd server
- specific to FCR software

in addition, sensitive data about the DB connection comes from Sindes.

Correspondingly FCR has templates

- `pro_declaration_component_fcr.tpl` : declaration component for the CDB structure being used by FCR
- `pro_software_component_fcr.tpl` : software dependencies
  - ◆ NCM component pre-dependencies
    - ◇ `sindes`, `httpd`
    - ◆ perl packages (`log4perl`, `DBD`, `Apache-Session`, etc.) needed by FCR
    - ◆ Oracle instantclient RPMs
- `pro_component_httpd_defaults_fcr.tpl` : httpd configuration
- `pro_component_fcr_defaults.tpl` : FCR configuration file
  - ◆ This template also includes necessary cron jobs to generate the `exclude.ldif` file in every 10 minutes both for the Production and the PPS instance

## httpd

The httpd configuration is a bit special for FCR, as

- normally the FCR Production and PPS instance are located on the same machine distinguished by 2 aliases
- FCR has an interface to be accessed using HTTPS connection, while the result ldif file must be accessible by HTTP so BDII's could automatically download it

Therefore, it's (at least) 4 virtual hosts, that appear in the httpd configuration:

- FCR Production portal (HTTPS -- port 8443)
- FCR PPS portal (HTTPS -- port 8443)
- Production exclude ldif file (HTTP -- port 8083)
- PPS exclude ldif file (HTTP -- port 8083)

During the transition period situation is "even worse", as all of these also appear to be configured on the relevant standard ports.

## Sindes

Database connection details should not be directly stored in Quattor CDB, which is at least CERN-wide readable. For such purposes Sindes should be used. The Sindes component for FCR has a file in the following

structure to deliver on the node :

```
oracle_home=  
tns_admin=  
dbname=  
dbuser=  
dbpw=  
dbuseruser=  
dbuserpw=
```

The related `sindes`-script only copies this file to its destination:

```
cp fcr/fcr-db /opt/lcg/FCR/conf/fcr-db.header
```

## FCR NCM component

Since FCR needs `httpd` config changes together with sensitive information used for server configuration, the component has pre-dependencies on the

- `sindes`
- `httpd`

NCM components.

The NCM component configures the FCR configuration file (located at `/opt/lcg/FCR/conf`) using file `fcr-db.header` created by the FCR `Sindes` component.

Also, the FCR component has a "hack" implemented to install the FCR PPS instance. The FCR RPM only supports one single installation per server, so the NCM component also copies the whole `/opt/lcg/FCR` directory to `/opt/lcg/FCR-PPS` directory, and does the necessary changes on the config file so the portal would handle PPS sites.

-- Main.jnovak - 12 Sep 2007

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