

ALICE Xrootd deployment and configuration tools

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Installation recipe

Up to date (if not/missing info/wrong info, please send an email):
<http://alien.web.cern.ch/content/documentation/howto/site/xrootdbyrpms>

Configuration

1. Install software requirements (alicexrdplugins will pull the dependencies)
2. Set up env vars XRDCONFDIR and XRDRUNDIR (or defaults will be used)
3. Deploy the xrd.sh script and configuration : bash <(curl -fsSLk https://raw.githubusercontent.com/adriansev/alicexrd/master/deploy_alicexrd)
4. In XRDCONFDIR edit the system.cnf_CHANGE_ME to system.cnf

System.cnf : customize all CHANGE_ME variables :)
SE_NAME, LOCAL_ROOT, OSS_CACHE
All others are detected automatically from MonaLisa.

Selection of xrd.sh + template conf files

```
1. bash <(curl -fsSLk  
https://raw.githubusercontent.com/adriansev/alicexrd/master/deploy_alicexrd  
) OPT_TAG/BRANCH/HASH
```

Main options :

Standard/stable : master, 1.2

WIP 1 : single_cfg

WIP 2 : noapmon

3 directions of development :

- 1.Bug fix and small improvements (master)
- 2.Usage of a single configuration file for all type of servers
- 3.Removal of forked perl process (apmon) and requirements of MLSensor installation

Goal : usage with provisioning tools

Requirements :

- ➔ Standard software deployment (rpms)
- ➔ Easy config file to be provisioned on servers
- ➔ Clear service separation (xrootd/monitoring)

Monitoring status options and future developments

Removal of apmon part from xrd.sh management script

Monitoring based on MLSensor : complete monitoring agent

Easy deployment of MLSensor :

bash <(curl -fsSLk

https://raw.githubusercontent.com/adriansev/alicexrd/master/deploy_ml_sensor) ALICE::NAME_OF_STORAGE

Developments :

- Go to rpm based distribution
- Script for configuration of service
- Move the current management script to pure sysinit/systemd files