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# Installing pilot factory

## Preparation

APF needs batch system to run pilots. Usually it's HTCondor, it can be installed from condor repository:

```
# yum-config-manager --add-repo  
http://research.cs.wisc.edu/htcondor/yum/repo.d/htcondor-stable-rhel6.repo
```

```
# yum clean all
```

```
# yum update
```

```
# yum install condor
```

## Installation

APF can be obtained from RACF repository. Repository should be added:

```
# wget http://dev.racf.bnl.gov/yum/grid/production/rhel/6.5/x86_64/racf-grid-release-latest.noarch.rpm
```

```
# rpm -iv racf-grid-release-latest.noarch.rpm
```

After that, APF can be installed:

```
yum install panda-autopyfactory
```

## Proxy

Proxies are used to prove identity and should be created from the certificate. Proxy role must be `pilot`. Proxies can be automatically renewed by proxymanager if it was configured to do so.

## Queues

PanDA queue can be defined in two ways: local and global. Local definition is needed if we are planning to use our PanDA server for running our own jobs. Global definition allows our PanDA server to accept jobs from other members of PanDA community.

## Local configuration

Several configuration files are required for APF to work. They can be obtained by copying example ones supplemented with APF installation and updating their parameters. Most parameters are described in these example files.

```
# cd /etc/apf
```

```
# cp factory.conf-example factory.conf
```

```
# cp queues.conf-example queues.conf
```

Note: in queues.conf, bracketed queue name (like `[ANALY_RRC-KI-HPC]`) can be used to monitor pilot activity via <http://apfmon.lancs.ac.uk/> site.

```
# cp proxy.conf-example proxy.conf
```

Also, ports 20000-30000 should be opened in iptables (and maybe some other places).

## Global configuration

To be continued...

-- RuslanMashinistov - 2014-12-03

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This topic: PanDA > PanDAAPFInstallation

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