

# CMSSW on PCN Self-supported Workstations

## Install CVMFS

```
rpm -Uvh https://dl.fedoraproject.org/pub/epel/epel-release-latest-7.noarch.rpm
```

```
yum install yum-plugin-priorities
```

```
rpm -Uvh https://repo.grid.iu.edu/osg/3.3/osg-3.3-el7-release-latest.rpm
```

```
yum install osg-oasis
```

edit /etc/fuse.conf and add:

```
user_allow_other
```

```
service autofs restart
```

Add user to /etc/passwd

```
cvmfs:x:986:981:CernVM-FS service account:/var/lib/cvmfs:/sbin/nologin
```

Edit /etc/cvmfs/default.local

```
CVMFS_REPOSITORIES="`echo $((echo oasis.opensciencegrid.org;echo cms.cern.
ch;ls /cvmfs)|sort -u)|tr ' ' ,`"
CVMFS_CACHE_BASE=/var/cache/cvmfsCVMFS_QUOTA_LIMIT=40000
CVMFS_HTTP_PROXY="http://squid1.rcac.purdue.edu:3128|http://squid2.rcac.
purdue.edu:3128|http://squid3.rcac.purdue.edu:3128|DIRECT"
```

Edit /etc/cvmfs/config.d/cms.cern.ch.conf

```
export CMS_LOCAL_SITE=T2_US_Purdue
```

Test:

```
cvmfs_config reload
```

```
cvmfs_config probe
```

If automounter is running on your workstation CMSSW is installed in:

```
/project/cmsphys/cmssoft
```

Otherwise perform the following commands as root:

```
mkdir /project/cmsphys
mount -t nfs -o proto=udp,vers=3,rw,rsize=8192,wsiz=8192 kepler:/net
/kepler/project0/cmsphys /project/cmsphys
```

```
setenv VO_CMS_SW_DIR /project/cmsphys/cmssoft
source $VO_CMS_SW_DIR/cmsset_default.csh
source /project/cmsphys/osg-client/setup.csh
source $VO_CMS_SW_DIR/CRAB/crab.csh
```

```
setenv SCRAM_ARCH slc5_amd64_gcc434
scram list
```