

ISOC : Backup ISOC Support Guide

This page last changed on Aug 20, 2009 by [tether](#).

Overview

Hardware Configuration

Software Configuration

Updates

The FOS software and T&C database content should be kept in sync with the production installation using the following procedures:

Installing FOS software updates

When new FOS RPM packages are installed in the production AFS area, the same RPM's need to be copied over to the backup-isoc system and installed there. This procedure is easier if you create an SSH key for your backup-isoc account and put it in your `~/.ssh/authorized_key2` file in your SLAC home directory.

- In a shell on `isoc-backup.stanford.edu`, `cd $ISOC_INSTALLROOT/var/isoc_rpm/RPMS`. We'll call this shell "B".
- In shell B, back up the current PROD package list file with the command `cp rhel4_gcc34-pkglist-PROD.lst rhel4_gcc34-pkglist-PROD.lst.YYYYMMDD`, where YYYYMMDD is the last-modified-time of the file.
- In a shell on a SLAC ISOC RHEL4 production node (e.g. `glastlnx06`), start a FOS PROD environment. Call this shell "P".
- In shell P, `echo $ISOC_INSTALLROOT/var/isoc_rpm/RPMS/`. As of 2009-04-08, this directory resolves to `/afs/slac.stanford.edu/g/glast/isoc/flightOps/volumes/vol1/rhel4_gcc34/install_20080321/var/isoc_rpm/RPMS/`.
- Back in shell B, execute the command `env RSYNC_RSH=ssh rsync -av glastlnx06:/afs/slac.stanford.edu/g/glast/isoc/flightOps/volumes/vol1/rhel4_gcc34/install_20080321/var/isoc_rpm/RPMS/ .`
- This command should copy over only those files that have changed in the primary installation, including the pkglist file.
- In shell B, diff the pkglist file against the previous version. For each updated package, execute the command `isoc install <rpmfile>` to apply the update.
- Restart the ISOC daemons to pick up the new software.

Installing T&C database updates

Again, this is easier if you have an SSH key set up from your isoc-backup account back to your SLAC account.

- Check out a copy of the T&C database maintenance software into your isoc-backup home directory and copy over the generated SQL:

```
svn co svn+ssh://blee@centaurusa.slac.stanford.edu/nfs/slac/g/glast/online/svnroot/distro/trunk/tnc-db
tnc-db
cd ~/tnc-db/sql3
env RSYNC_RSH=ssh rsync -av glastlnx06.slac.stanford.edu:~/path/to/tnc-db/sql3/
DB_YYYY_MM_DD_HH_MM_SS .
```

- Log into `lat-backup02` (the host where `/gnfs/home` is resident).

- Execute the generated load script to install the content into oracle, then review the logfile to ensure the load was successful.

```
cd DB_YYYY_MM_DD_HH_MM_SS
sqlplus /@isocbackup < load_NEWBUILD_NEWREL_OLDREL_YYYY_MM_DD_HH_MM_SS.sql 2>&1
>load.log
```

- After a successful load, lash the content

```
sqlplus /@isocbackup <../lash.sql
```

- Once the updated content is loaded and lashed, use the "FOS Software Updates" procedure to install the updated ISOC_ETC rpm that makes the new version the default.
- Restart the database-dependent daemons exploder, xplcache, rates, and trending-ds.