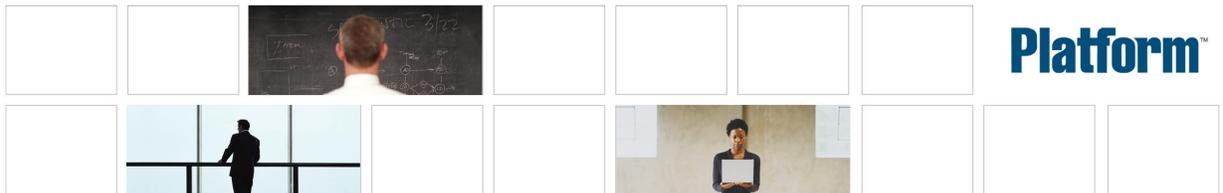

Migrate Platform LSF Version 7 Update 6 on UNIX or Linux

Platform LSF
Version 7.0 Update 6
Release date: August 2009
Last modified: August 17, 2009



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Migrate your LSF cluster to LSF 7 Update 6

LSF directory structure change

The installed directory structure changed in LSF Version 7 Update 2. The LSF directory structure differs from the directory structure of previous releases of LSF Version 7. The LSF directories have been consolidated to resemble the LSF 6.x directory structure, where configuration, work, and logging directories for EGO, Web GUI, and reporting components are located under the standard LSF directories `LSF_TOP/conf`, `LSF_TOP/work`, and `LSF_TOP/log` for easier administration and upgrade.

These directories can be located on their own file systems and have the following access permissions:

- `LSF_TOP/conf` is writable by the LSF administrator, master host, and master candidate hosts
- `LSF_TOP/log` is writable by all hosts in the cluster
- `LSF_TOP/work` is writable by the master host and master candidate hosts, and is accessible to slave hosts

How to use this document

For Update 6 only, to update your existing LSF Version 7 or LSF Version 7 Update 1 cluster, you must follow the steps in this document to manually copy some of your existing configuration files to other directories.

Note:

These upgrade steps only apply to LSF Version 7 and LSF Version 7 Update 1. For LSF versions prior to Version 7 or later than LSF Version 7 Update 1, you can upgrade your cluster by following the steps in *Upgrading Platform LSF on UNIX and Linux*.

Get ready to migrate

1. Get an LSF Version 7 license and create a license file (`license.dat`).

Get ready to install

1. Log on to the LSF file server host as root.
2. FTP to `ftp.platform.com` and get the following files from the `/distrib/7.0/platform_lsf_update6/` directory on `ftp.platform.com`:
 - LSF installation script tar file: `lsf7update6_lsfinstall.tar.Z`
 - HPC Portal tar file: `lsf7update6_lsfinstall.tar.Z`
 - LSF Knowledge Center: `lsf7update6_documentation.tar.Z`
 - LSF distribution tar files for all host types you need.

Download and read the LSF Version 7 Release Notes for detailed steps for downloading LSF distribution tar files.

3. Put the distribution tar files in the same directory that contains the `lsf7update6_lsfinstall.tar.Z` file.
4. Uncompress and extract `lsf7update6_lsfinstall.tar.Z`:

```
# zcat lsf7Update6_lsfinstall.tar.Z | tar xvf -
```

Important:

DO NOT extract the distribution tar files.

5. If you are replacing the Platform Management Console (PMC) with the HPC Portal, remove the PMC directories and records.
 - a) Remove the following directories under *LSF_TOP*.
 - jre
 - gui
 - perf
 - log/gui
 - log/perf
 - work/*clustername*/perf
 - work/*clustername*/gui
 - conf/gui
 - conf/perf
 - doc
 - b) Remove the PMC record from the database.

```
rm -rf patch/patchdb/PackageInfo_PMC*
```
 - c) Delete the PMC line in the file `patch/patchdb/Package.db`:

```
#Product Name; Product Version; EP Version; Platform; Package Info File Name  
#PMC; 7.0; 6; linux-x86_64; PackageInfo_PMC7.0.6_linux-x86_64.db
```
6. Define the required installation parameters in `install.config`. You should specify the same values as those defined for your existing cluster.
 - For *LSF_TOP*, specify a different directory than the one used for your existing cluster. This prevents your existing configuration files from being overwritten when you install LSF Version 7 Update 6.
 - EGO is enabled by default in `install.config`. Your existing LSF Version 7 cluster uses EGO functionality for daemon control and reporting. To maintain the functionality of your existing cluster, do not change the default value of the parameter `ENABLE_EGO`.
 - LSF Version 7 Update 6 does not use the parameter `EGO_TOP`.

Run lsfinstall

1. Change to `lsf7Update6_lsfinstall/`.
2. Read `lsf7Update6_lsfinstall/install.config` and decide which installation variables you need to set.
3. Edit `lsf7Update6_lsfinstall/install.config` to set the installation variables you need.
4. Follow the instructions in `lsf_unix_install.pdf` to run:

```
./lsfinstall -f install.config
```

Important:

You must run `lsfinstall` as root.

Copy and edit LSF configuration files

In the following procedure, the phrase *lsf_top_old* refers to the LSF_TOP directory for the original cluster, and the phrase *lsf_top_new* refers to the LSF_TOP directory for the newer cluster.

1. Deactivate all queues to make sure that no new jobs are dispatched during the update:
badadmin qinact all
2. Back up your existing LSF_CONFDIR, LSB_CONFDIR, and LSB_SHAREDIRE according to the procedures at your site.
3. Shut down the older version of the LSF Version 7 cluster:
lsfshutdown
4. Migrate the LSF lsbatch files directory:
cp -rfp \$LSB_CONFDIR_old/* \$LSB_CONFDIR_new/
5. Migrate the LSF work directory:
cp -rfp lsf_top_old/work lsf_top_new
6. Does your existing cluster use default values for all parameters defined in `lsf.conf`?
 - If *yes*, you do not have to edit `lsf.conf`. Go to step 7.
 - If *no*, you must edit `lsf.conf` and change the values of the parameters to match those defined for your existing cluster. Go to step 6.
7. You can update `lsf.conf` in one of two ways:
 - Copy the old `lsf.conf` file from `lsf_top_old/conf` to `lsf_top_new/conf` and add the parameters LSF_ENABLE_EGO and EGO_WORKDIR. For a description of LSF_ENABLE_EGO, see the *Platform LSF Configuration Reference*. For a description of EGO_WORKDIR, see the *EGO Reference*.
 - Edit the new `lsf.conf` file in `lsf_top_new/conf` to match the values defined in your old `lsf.conf` file.

Note:

All required LIM parameters are now defined *only* in `lsf.conf`. Corresponding LIM parameters no longer appear in `ego.conf`.

8. If you want to change any parameter values in the cluster file, edit the file `lsf.cluster.cluster_name`. LSF Version 7 Update 6 no longer uses `ego.cluster.cluster_name`.

Copy and edit EGO configuration files

In the following procedure, the phrase *ego_top* refers to the EGO_TOP directory for the existing cluster, the phrase *lsf_top_new* refers to the LSF_TOP directory for the new cluster, and the phrase *lsf_cluster_name* refers to the name of your cluster.

1. Migrate the user file:
cp -rfp ego_top/kernel/conf/user.xml
lsf_top_new/conf/ego/lsf_cluster_name/kernel/user.xml
2. Migrate the consumer trees file:
cp -rfp ego_top/kernel/conf/ConsumerTrees.xml

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```
lsf_top_new/conf/lego/lsf_cluster_name/kernel/ConsumerTrees.xml
```

3. Migrate the resource groups file:

```
cp -rfp ego_top/kernel/conf/ResourceGroups.xml
```

```
lsf_top_new/conf/lego/lsf_cluster_name/kernel/ResourceGroups.xml
```

4. Migrate the EGO working files:

```
cp -rfp ego_top/kernel/work/vemkd
```

```
lsf_top_new/work/lsf_cluster_name/lego/
```

```
cp -rfp ego_top/kernel/work/data
```

```
lsf_top_new/work/lsf_cluster_name/lego/
```

5. If you have enabled the dynamic host feature for your cluster, migrate the host cache files:

```
cp -rfp ego_top/kernel/work/lim
```

```
lsf_top_new/work/lsf_cluster_name/lego
```

Start the cluster

1. Log on to the LSF master host as root, and set your LSF environment:

- For `csch` or `tcsh`:

```
% source LSF_TOP/conf/cshrc.lsf
```
- For `sh`, `ksh`, or `bash`:

```
$ . LSF_TOP/conf/profile.lsf
```

2. Start the LSF 7 Update 6 cluster:

```
lsfstartup
```

If EGO is enabled for your cluster (default), the reporting and HPC Portal services start automatically.

3. Check to see that the cluster is working properly.

Run hostsetup to set up LSF hosts

Run the LSF Version 7 Update 6 `hostsetup` command on each host to reset LSF runlevel changes (`rc`).

1. Follow the steps in `lsf7update6_lsfinstall/lsf_getting_started.html` to set up your LSF hosts (`hostsetup`).

- a) Log on to each LSF server host as root. Start with the LSF master host.
- b) Run `hostsetup` on each LSF server host.

For example:

```
cd /usr/share/lsf/7.0/install
```

```
./hostsetup --top="/usr/share/lsf/"
```

For complete `hostsetup` usage, enter `hostsetup -h`.

2. Set your LSF environment:

- For `csch` or `tcsh`: **source LSF_TOP/conf/cshrc.lsf**

- For sh, ksh, or bash: **LSF_TOP/conf/profile.lsf**
3. Follow the steps in [lsf7Update6_lsfinstall/lsf_quick_admin.html](#) to update your license.