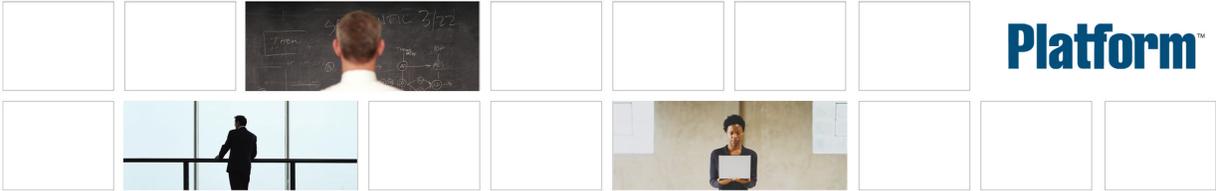

Migrate Platform LSF Version 7 to Update 6 on Windows

Platform LSF
Version 7.0 Update 6
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Contents

Migrate Your Windows Cluster to LSF 7 Update 6	5
What is migration?	5
How to migrate your cluster	5
Start the new cluster	8

Migrate Your Windows Cluster to LSF 7 Update 6

This document describes how to migrate a Windows cluster to LSF 7 Update 6 from LSF 7 or LSF 7 Updates 1-5. If you have LSF 6.x, you must first migrate your Windows cluster to Platform LSF version 7 (information is provided in a separate document).

What is migration?

A direct upgrade of a cluster to LSF 7 Update 6 is not supported. Migration lets you transfer both workload and configuration from the original cluster after you have installed a new LSF 7 Update 6 cluster.

It is important to follow the procedure exactly, or the new cluster may not work properly afterwards. Do not remove or rename any files or directories from the original cluster unless a procedure tells you to do so.

How to migrate your cluster

The original (pre-LSF 7 Update 6) cluster is working properly.

Complete the following steps to migrate your cluster.

1. Back up existing configuration files and work directories
2. Uninstall the existing cluster
3. Install LSF 7 Update 6
4. Copy and edit LSF configuration and work files
5. Copy EGO configuration and work files
6. Copy GUI configuration files
7. Start the new cluster

Back up existing configuration files and work directories

You must back up files and directories only if your existing cluster does not use a shared directory. The shared directory is indicated by *share_dir* in the following procedure.

1. Does your existing cluster use the *share_dir* directory to store configuration files and work directories?
 - If *no*, go to step 2.
 - If *yes*, you do not need to back up files or directories. Your existing configuration and work files are *not* be removed when you uninstall the older version of LSF 7.

Your existing directory structure should be as follows:

LSF_ENVDIR (for Update 2 only): *share_dir*\conf

LSF_ENVDIR (other): *share_dir*\lsf\conf

LSB_CONFDIR (for Update 2 only): *share_dir*\conf\lsbatch

LSB_CONFDIR (other): *share_dir*\lsf\conf\lsbatch

LSB_SHAREDIR (for Update 2 only): *share_dir*\work\

LSB_SHAREDIRE (other): *share_dir\lsf\work*

EGO_CONFDIR (for Update 2 only): *share_dir\conf\ego\cluster_name\kernel*

EGO_CONFDIR (other): *share_dir\kernel\conf*

EGO_WORKDIR (for Update 2 only): *share_dir\work\cluster_name\ego*

EGO_WORKDIR (other): *share_dir\kernel\work*

share_dir\gui\conf

2. If your existing cluster configuration files are not in the *share_dir* directory, then back up directories from your existing cluster.

If you have Update 2, back up whole conf and work directories:

- C: \LSF_7.0\conf
- C: \LSF_7.0\work

If you have another version of LSF, back up the following:

- a) LSF_ENVDIRE

For example, C: \LSF_7.0\conf\

- b) LSB_CONFDIR

For example, C: \LSF_7.0\conf\lsbatch

- c) LSB_SHAREDIRE

For example, C: \LSF_7.0\work

- d) EGO_CONFDIR

For example, C: \LSF_7.0\ego\kernel\conf

- e) EGO_WORKDIR

For example, C: \LSF_7.0\ego\kernel\work

- f) LSF_TOP\ego\gui\conf

For example, C: \LSF_7.0\ego\gui\conf

Uninstall the existing cluster

If your existing cluster does not use the *share_dir* directory, you must back up existing configuration files and work directories before you uninstall the cluster.

1. Uninstall the current cluster (LSF 7 or LSF 7 Update 1-5).
2. Reboot the master hosts.
3. Remove the old installation directories within LSF_TOP.

Install LSF 7 Update 6

1. Download and install LSF 7 Update 6 using the same cluster name and cluster administrator that you have for your existing cluster.

Copy and edit LSF configuration and work files

Note:

LSF 7 Updates 3, 4, 5, and 6 no longer use the `ego.cluster` and `ego.shared` files. Therefore, if you are updating from LSF Update 3, 4, or 5 to LSF Update 6, you do not need to do the following for the `ego.cluster` and `ego.shared` files.

In this procedure, `_old` refers to configuration file paths for the existing cluster, and `_new` refers to configuration file paths for the new cluster.

1. If upgrading from anything older than Update 3, migrate the old `ego.cluster` file to the new `lsf.cluster` file.
 - a) Open the old `ego.cluster` file from `EGO_CONFDIR_old`
 - b) Open the new `lsf.cluster` file from `LSF_ENVDIR_new`
 - c) Migrate the following sections from the old `ego.cluster` file to the new `lsf.cluster` file:
 - Hosts section
 - Parameters section
 - Resource Map
2. Migrate values from the old `lsf.conf` file to the new `lsf.conf` file:
 - a) Open the old `lsf.conf` file from `LSF_ENVDIR_old`
 - b) Open the new `lsf.conf` file from `LSF_ENVDIR_new`
 - c) Migrate the values from the old file to the new one.

Remember:

The new `lsf.conf` file contains the correct configuration path values for the LSF 7 Update 6 directory structure changes.

3. If upgrading from anything older than Update 3, copy the old `ego.shared` file as `lsf.shared` to the new cluster.

```
cp -f EGO_CONFDIR_old\ego.shared LSF_ENVDIR_new\lsf.shared
```

4. Copy the old `passwd.lsfuser` file to the new cluster.

```
cp -f LSF_ENVDIR_old\passwd.lsfuser LSF_ENVDIR_new\passwd.lsfuser
```

5. Copy all old LSF batch configuration files to the new cluster.

```
cp -f LSB_CONFDIR_old\cluster_name\configdir* LSB_CONFDIR_new\cluster_name\configdir\
```

6. Copy all old LSF batch work files to the new cluster.

```
cp -rf LSB_SHAREDIR_old\cluster_name* LSB_SHAREDIR_new\cluster_name\
```

Copy EGO configuration and work files

1. Does your existing cluster define an EGO consumer tree, an EGO resource group or EGO users?
 - If *no*, go to step 2.
 - If *yes*, copy all old EGO XML configuration files to the new cluster, and then go to step 2.

```
cp -f EGO_CONFDIR_old*.xml EGO_CONFDIR_new
```
2. Copy the old EGO password file to the new cluster:

```
cp -f EGO_CONFDIR_old\passwd.ego EGO_CONFDIR_new\passwd.ego
```

3. Copy the old EGO work directory to the new cluster:

```
cp -rf EGO_WORKDIR_old* EGO_WORKDIR_new
```

Copy GUI configuration files

If you have Update 2, copy the existing GUI configuration directory to the new location:

```
cp -f share_dir_old\config\gui\cluster_name\conf* share_dir_new\config\gui\cluster_name\conf\
```

For other versions of LSF, copy all GUI configuration files as shown in the following examples.

1.

```
cp -f share_dir_old\gui\conf\wsm.conf share_dir_new\config\gui\cluster_name\conf\
```
2.

```
cp -f share_dir_old\gui\conf\pmcconf* share_dir_new\config\gui\cluster_name\conf\pmcconf\
```
3.

```
cp -f share_dir_old\gui\conf\useracl* share_dir_new\config\gui\cluster_name\conf\useracl\
```
4.

```
cp -f share_dir_old\gui\conf\userconf* share_dir_new\config\gui\cluster_name\conf\userconf\
```
5.

```
cp -f share_dir_old\gui\conf\server.xml share_dir_new\config\gui\cluster_name\conf\server.xml
```

Start the new cluster

1. Start the new LSF 7 Update 6 cluster.

```
lsfstartup
```

2. Activate all queues to start jobs remaining from the original cluster.

To activate all LSF queues, run:

```
badmin qact all
```

3. Submit all new work to the new cluster.