

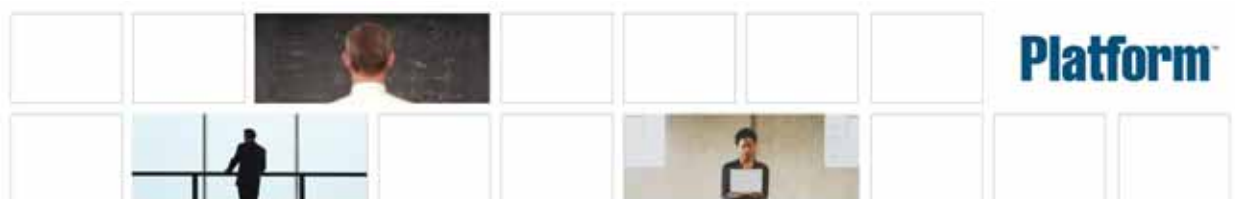
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# Migrating Platform™ LSF™ Version 7 to Update 3 on Windows

Version 7 Update 3  
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## Migrate Your Windows Cluster to LSF 7 Update 3

This document describes how to migrate a Windows cluster to LSF 7 Update 3 from LSF 7, LSF 7 Update 1, or LSF 7 Update 2. If you have LSF 6.x, see "Migrating Your Windows Cluster to Platform LSF Version 7".

### What is migration?

A direct upgrade of a cluster to LSF 7 Update 3 is not supported. Migration lets you transfer both workload and configuration from the original cluster after you have installed a new LSF 7 Update 3 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

**Prerequisites:** The original (pre-LSF 7 Update 3) cluster is working properly.

Complete the following steps to migrate your cluster.

- 1 [Back up existing configuration files and work directories](#) on page 2
- 2 [Uninstall the existing cluster](#) on page 3
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### 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 (you have *not* run the command `egoconfig mghost`). If you ran the command `egoconfig mghost` when you installed your existing cluster, then your existing cluster uses the 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 will *not* be removed when you uninstall the older version of LSF 7.

Your existing directory structure should be as follows:

LSF\_ENVDIR (Update 2): `share_dir\conf`

LSF\_ENVDIR (other): *share\_dir\lsf\conf*  
 LSB\_CONFDIR (Update 2): *share\_dir\conf\lsbatch*  
 LSB\_CONFDIR (other): *share\_dir\lsf\conf\lsbatch*  
 LSB\_SHAREDIR (Update 2): *share\_dir\work\*  
 LSB\_SHAREDIR (other): *share\_dir\lsf\work\*  
 EGO\_CONFDIR (Update 2): *share\_dir\conf\ego\cluster\_name\kernel*  
 EGO\_CONFDIR (other): *share\_dir\kernel\conf\*  
 EGO\_WORKDIR (Update 2): *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 (you never ran the command `egoconfig mghost`), 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\_ENVDIR  
For example, C:\LSF\_7.0\conf\
- b LSB\_CONFDIR  
For example, C:\LSF\_7.0\conf\lsbatch
- c LSB\_SHAREDIR  
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

**Prerequisites:** If your existing cluster *does not* use the *share\_dir* directory, perform the procedure [Back up existing configuration files and work directories](#) on page 2 *before* you uninstall the cluster.

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

## Install LSF 7 Update 3

- 1 Download and install LSF 7 Update 3 using the same cluster name and cluster administrator that you have for your existing cluster.

## Prepare to migrate the old cluster to the new cluster

- 1 Does your old cluster use the *share\_dir* directory?
  - ❖ If *no*, go to the procedure [Copy and edit LSF configuration and work files](#).
  - ❖ If *yes*, you must move the new cluster configuration files to *share\_dir* before you begin the migration.

For example, run

```
egoconfig mghost share_dir domain\clusteradmin passwd
```

For more information about how to configure your cluster to use a shared directory, see *Installing Platform LSF on Windows*.

## Copy and edit LSF configuration and work files

**NOTE:** LSF 7 Update 3 no longer uses 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 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 3 directory structure changes.

- 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

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- 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\conf\gui\cluster_name\conf\*
share_dir_new\conf\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\conf\gui\cluster_name\conf\
```
- 2 

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

```
cp -f share_dir_old\gui\conf\userac\*
share_dir_new\conf\gui\cluster_name\conf\userac\
```
- 4 

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

Start the new cluster

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

---

## Start the new cluster

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- 1 Start the new LSF 7 Update 3 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.
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