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# Migrating Platform LSF Version 7 to Platform LSF Version 8 on Windows

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# Migrate Your Windows Cluster to LSF 8

This document describes how to migrate a Windows cluster to LSF 8 from LSF 7 or LSF 7 Updates 1-6. 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 8 is not supported. Migration lets you transfer both workload and configuration from the original cluster after you have installed a new LSF 8 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 8) 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 8
4. Copy and edit LSF configuration and work files
5. Copy EGO configuration and work files
6. Start the new cluster

## Back up existing configuration files and work directories

You must back up files and directories. 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*, back up directories in the *share\_dir* directory.

Your existing directory structure should be as follows:

LSF\_ENVDIR (for LSF 7 Update 2 through 6): *share\_dir*\conf

LSF\_ENVDIR (other): *share\_dir*\lsf\conf

LSB\_CONFDIR (for LSF 7 Update 2 through 6): *share\_dir*\conf\lsbat ch

LSB\_CONFDIR (other): *share\_dir*\lsf\conf\lsbat ch

LSB\_SHAREDIRE (for LSF 7 Update 2 through 6): *share\_dir*\work\

LSB\_SHAREDIRE (other): *share\_dir*\lsf\work\

EGO\_CONFDIR (for LSF 7 Update 2 through 6): *share\_dir\conf\ego\cluster\_name\kernel*

EGO\_CONFDIR (other): *share\_dir\kernel\conf\*

EGO\_WORKDIR (for LSF 7 Update 2 through 6): *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, 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

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 1-6).
2. Reboot the master hosts.
3. Remove the old installation directories within LSF\_TOP.

## Install Platform LSF 8

1. Download and install LSF 8 using the same cluster name and cluster administrator that you have for your existing cluster.

# Copy and edit Platform LSF configuration and work files

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## Note:

LSF 7 Updates 3 and higher and LSF 8 no longer use the `ego.cluster` and `ego.shared` files. Therefore, if you are updating from LSF Update 3 or higher to LSF 8, you do not need to do the following for the `ego.cluster` and `ego.shared` files.

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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.

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## Remember:

The new `lsf.conf` file contains the correct configuration path values for the LSF 8 directory structure changes.

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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_oldpasswd.ego EGO_CONFDIR_newpasswd.ego
```

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

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

## Start the new cluster

1. Start the new LSF 8 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.