IBM Spectrum LSF 10.1

Upgrading on Windows

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Upgrading your LSF cluster to the latest version on Windows

You can upgrade an existing LSF cluster to LSF 10.1.0 on Windows by backing up the original cluster, installing a new cluster, and then transferring workload and configuration from the original cluster to the new one.

Upgrade flow

A direct upgrade of an LSF Windows cluster to the most current LSF fix pack level is not supported. Instead, you transfer both workload and configuration from the back up versions of the original cluster to an newly installed LSF cluster. The upgrade flow is as follow:

1. Back up existing configuration files and work directories.
2. Uninstall the existing LSF cluster.
3. Install LSF 10.1 with the most current fix pack level.
4. Copy and edit LSF configuration and work files.
5. Copy EGO configuration and work files.
6. Start the new LSF cluster and use it going forward.

It is important to follow this procedure exactly, to avoid issues with the new cluster. Do not remove or rename any files or directories from the original cluster unless otherwise mentioned.

Backing up existing configuration files and work directories

About this task

You must back up files and directories. The shared directory is indicated by *share_dir* in the following procedure.

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.
     For example, your existing directories can have the following structure:

     LSF_ENVDIR: *share_dir*\conf

     LSB_CONFDIR: *share_dir*\conf\lsbatch

     LSB_SHAREDIR: *share_dir*\work\

     EGO_CONFDIR: *share_dir*\conf\ego*cluster_name*\kernel

     EGO_WORKDIR: *share_dir*\work*cluster_name*\ego

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

Uninstalling the existing cluster

Before you begin

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.

Procedure

1. Uninstall the current cluster.
2. Restart the Management hosts.
3. Remove the old installation directories within LSF_TOP.

Installing LSF with the most current fix pack level

Procedure

Download and install LSF with the most current fix pack level. Install with the same cluster name and cluster administrator that you have for your existing cluster.

Copying and editing LSF configuration and work files

About this task

Note: LSF 10.1.0 no longer uses the ego.cluster and ego.shared files. Therefore, if you are updating from LSF Update 3 or higher, you do not need to do the following steps 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.

Procedure

1. 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 new directory structure changes.
2. Copy the old passwd.lsfuser file to the new cluster.
   Copy `LSF_ENVDIR_old\passwd.lsfuser` to `LSF_ENVDIR_new\passwd.lsfuser`
3. Copy all old LSF batch configuration files to the new cluster.
   Copy `LSB_CONFDIR_old\cluster_name\configdir\*` to `LSB_CONFDIR_new\cluster_name\configdir\`
4. Copy all old LSF batch work files to the new cluster.
   Copy `LSB_SHAREDIR_old\cluster_name\*` to `LSB_SHAREDIR_new\cluster_name\`

Copying EGO configuration and work files

Procedure

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.
  Copy `EGO_CONFDIR_old\*.xml` to `EGO_CONFDIR_new\`

2. Copy the old EGO password file to the new cluster:
   Copy `EGO_CONFDIR_old\passwd.ego` to `EGO_CONFDIR_new\passwd.ego`

3. Copy the old EGO work directory to the new cluster:
   Copy `EGO_WORKDIR_old\*` to `EGO_WORKDIR_new\`

Starting the new cluster

Procedure

1. Start the new LSF cluster.
   ```
   lsfstartup
   ```

2. Activate all queues to start jobs that are remaining from the original cluster.
   To activate all LSF queues, run:

   ```
   badmin qact all
   ```

3. Submit all new work to the new cluster.