



# lsfinstall

## Synopsis

```
lsfinstall -f install.config  
lsfinstall -h
```

## Description

lsfinstall installs a new Platform LSF Version 6.1 cluster. To install LSF so that all users can access it, you should install as root. You can install LSF and do host setup as a non-root user, but by default, only root can start the LSF daemons.

## install.config variables

Variable	Description	Default	Example
LSF_TOP="/path"	Full path to the top-level installation directory. <i>path</i> must be shared and accessible to all hosts in the cluster. Cannot be the root directory (/).	None—required variable	LSF_TOP="/usr/share/lsf"
LSF_ADMINS="user_name [user_name ...]"	List of LSF administrators. The first user account name in the list is the primary LSF administrator. The LSF administrator accounts must exist on all hosts in the LSF cluster before installing LSF. root cannot be an LSF administrator.	None—required variable	LSF_ADMINS="lsfadmin user1"
LSF_CLUSTER_NAME="cluster_name"	The name of the LSF cluster. Must be 39 characters or less, and cannot contain any white spaces. Do not use an LSF host name.	None—required variable	LSF_CLUSTER_NAME="cluster1"
LSF_TARDIR="/path"	Full path to the directory containing the LSF tar files	Parent directory of the current working directory	LSF_TARDIR="/usr/share/lsf_dist/6.1"
LSF_LICENSE="/path/license_file"	Full path to the LSF license file (license.dat) You must have a valid license file to install LSF. If you do not specify a license file with LSF_LICENSE, or lsfinstall cannot find a license file in the default location, lsfinstall exits.	Parent directory of the current working directory (../license.dat)	LSF_LICENSE="/usr/share/lsf_dist/6.1/license.dat"
LSF_MASTER_LIST="host_name ...]"   :host_file	List of hosts that are candidates to become the master host for the cluster. Listed hosts must be defined as servers in LSF_ADD_SERVERS.	None—optional variable Required for dynamic host configuration	LSF_MASTER_LIST="hosta hostb hostc hostd"
LSF_ADD_SERVERS="host_name [host_name ...]"   :host_file	List of LSF server hosts to be added to the cluster. Specify a list of host names separated by spaces or the name of a file (:host_file) listing hosts, one host name per line. The first host listed is the LSF master host.	For initial installation, the local host where lsfinstall is running	LSF_ADD_SERVERS="hosta hostb hostc hostd" hosta is the LSF master host or LSF_ADD_SERVERS=:lsf_server_hosts
LSF_ADD_CLIENTS="host_name [host_name ...]"   :host_file	List of LSF client-only hosts to be added to the cluster. Specify a list of host names separated by spaces or the name of a file (:host_file) listing hosts, one host name per line.	None	LSF_ADD_CLIENTS="hoste hostf" or LSF_ADD_CLIENTS=:lsf_client_hosts
LSF_QUIET_INST="[y   n]"	Do not display LSF installation messages	Display all messages	LSF_QUIET_INST="y"

## After installing Platform LSF

- Optional. Run hostsetup to set up LSF hosts.
  - Log on to each LSF server host as root. Start with the LSF master host.  
If you are not root, you can continue with host setup, but by default, only root can start the LSF daemons.
  - Run hostsetup on each LSF server host. For example:

```
# cd /usr/share/lsf/6.1/install  
# ./hostsetup --top="/usr/share/lsf" --boot="y"
```

For complete hostsetup usage, enter hostsetup -h.

## Required install.config variables

- LSF\_TOP="/path"
- LSF\_ADMINS="user\_name [user\_name ...]"
- LSF\_CLUSTER\_NAME="cluster\_name"

## Variables that require an absolute path

- LSF\_TOP="/path"
- LSF\_TARDIR="/path"
- LSF\_LICENSE="/path/license\_file"

- Log on to the LSF master host as root, and set your LSF environment:
  - For csh or tcsh: % **source LSF\_TOP/conf/cshrc.lsf**
  - For sh, ksh, or bash: \$ **. LSF\_TOP/conf/profile.lsf**
- Run lsfstartup to start the cluster.
- Test your cluster by running some basic LSF commands (e.g, lsid, lshosts, bhosts)  
After testing your cluster, be sure all LSF users include LSF\_CONFDIR/cshrc.lsf or LSF\_CONFDIR/profile.lsf in their .cshrc or .profile.