

# Quick start guide

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IBM Spectrum LSF Suite for Workgroups quick start guide

Version 10.2 Fix Pack 11

This guide describes a quick and easy way to get up and running with the product.

## Note:

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## About this task

Product overview

IBM Spectrum LSF Suite for Workgroups is a powerful workload management platform for demanding, distributed computing environments. It provides a comprehensive set of intelligent, policy-driven scheduling features that enable you to use all of your compute infrastructure resources and ensure optimal application performance.

Its robust workload applications management capabilities are accessible with an updated web-based interface, making it powerful and simple to use. For applications that require MPI, the robust, commercial MPI library accelerates and scales HPC applications for shorter time to solution.

## Procedure

### 1. Limitations and restrictions

Installation and operation of IBM Spectrum LSF Suite for Workgroups is limited to 128 hosts, including hosts added dynamically. IBM Spectrum LSF Suite for Workgroups supports 25,000 active (started and pending) jobs in the system.

Job forwarding to a remote queue when using the IBM Spectrum LSF multicluster capability is supported, but an IBM Spectrum LSF Suite for Workgroups submission cluster cannot receive jobs from a remote cluster (the submission queue can configure the **SNDJOBS\_TO** parameter, but the **RCVJOBS\_FROM** parameter is ignored). IBM Spectrum LSF Suite for Workgroups does not support lease mode with the IBM Spectrum LSF multicluster capability. The **HostExport** parameter in the `lsb.resources` file is ignored.

The resource connector for IBM Spectrum LSF feature is not enabled in IBM Spectrum LSF Suite for Workgroups.

### 2. IBM Spectrum LSF Suite for Workgroups offering components

**IBM Spectrum LSF Suite for Workgroups 10.2 Fix Pack 11** includes the following IBM Spectrum Computing components:

- **IBM Spectrum LSF 10.1 Fix Pack 11** IBM Spectrum LSF is a powerful workload management platform for demanding, distributed HPC environments. It provides a comprehensive set of intelligent, policy-driven scheduling features that enable you to use all of your compute infrastructure resources and ensure optimal application performance.
- **IBM Spectrum LSF Application Center 10.2 Fix Pack 11** IBM Spectrum LSF Application Center provides a flexible, easy to use interface for cluster users and administrators. IBM Spectrum LSF Application Center is the full-featured offering, including job submission, monitoring, reporting,

application templates, simplified application configuration, extended template and page customization, visualization support through VNC, and configurable user access control. The IBM Spectrum LSF Application Center desktop client is also included. An IBM Spectrum LSF mobile client can be downloaded and installed from the Google Play Store or the Apple App Store. The mobile client interacts with LSF Application Center and allows a user to easily monitor their workload.

- **IBM Spectrum MPI 10.3.2 (Power only)** IBM Spectrum MPI is a production-quality implementation of the Message Passing Interface (MPI) on IBM Power LE (Little Endian) systems. IBM Spectrum MPI supports the broadest range of industry standard platforms, interconnects and operating systems to help ensure that parallel applications can run on any platform.
- **IBM Platform MPI 9.1.4.2 (x86 only)** IBM Platform MPI 9.1.4 is a production-quality implementation of the Message Passing Interface (MPI) that supports the broadest range of industry standard platforms, interconnects and operating systems to help ensure that parallel applications can run on any platform.
- **IBM Spectrum LSF Explorer 10.2 Fix Pack 11** IBM Spectrum LSF Explorer is a lightweight data analysis solution for IBM Spectrum LSF clusters allowing business and technical users to rapidly create and view reports and dashboards. IBM Spectrum LSF Explorer uses Elasticsearch to rapidly store, index, and query the data. With rich, interactive, and extensible visualization capabilities, you can generate reports on how the compute environment is performing, or which resources projects or lines or business are consuming.

IBM Spectrum LSF Suite for Workgroups can be connected to an IBM Spectrum LSF RTM server without the need to purchase data collector entitlements for the IBM Spectrum LSF Suite for Workgroups hosts. This includes an optional installation of RTM Data Pollers 10.2.0.0 for RTM data collection.

**Note:** IBM Spectrum LSF Analytics is not supported with IBM Spectrum LSF Suite for Workgroups.

### 3. Access the software packages

Download the IBM Spectrum LSF Suite for Workgroups offering distribution package for your environment from IBM Passport Advantage:

[www.ibm.com/software/passportadvantage](http://www.ibm.com/software/passportadvantage)

IBM Spectrum LSF Suite for Workgroups is supported on 64-bit x86 Linux systems and IBM Power LE (Little Endian) systems.

To install IBM Spectrum LSF Suite for Workgroups with the RPM installer, download one or both of the following files:

- **64-bit x86 Linux systems:** `lsfswg10.2.0.11-x86_64.bin`
- **IBM Power LE (Little Endian) systems:** `lsfswg10.2.0.11-ppc64le.bin`

### 4. Evaluate the hardware and system configuration

The IBM Spectrum LSF Suite for Workgroups installation requires:

- A computing environment that consists of at least one host
- A host that has at least one network interface to act as the LSF master host
- A supported operating system that is preinstalled on the LSF master host

The IBM Spectrum LSF Suite for Workgroups must meet the minimum hardware and software requirements of the installed components.

For details about system hardware and software requirements for IBM Spectrum LSF Suite for Workgroups installation, and for more information about hardware and software compatibility of IBM Spectrum LSF Suite for Workgroups components, see the system requirements information in IBM Knowledge Center:

- [System requirements for IBM Spectrum LSF Suite for Workgroups](#)

### 5. Plan your system environment before installation

Before deploying IBM Spectrum LSF Suite for Workgroups, decide on a network topology and system configuration. See more information on planning your environment here:

## [IBM Spectrum LSF Suite for Workgroups installation overview](#)

### 6. Installing IBM Spectrum LSF Suite for Workgroups

Follow the installation steps in [Installing and upgrading IBM Spectrum LSF Suite for Workgroups](#).

### 7. Get started

After you install IBM Spectrum LSF Suite for Workgroups, start by configuring the applications and completing other administrative tasks.

See more about getting started with IBM Spectrum LSF Suite for Workgroups components here:

- [Getting started with IBM Spectrum LSF](#)
- [IBM Spectrum LSF Application Center overview](#)
- [What's new in IBM Spectrum MPI version 10.3.2](#)
- [After installing IBM Spectrum LSF Explorer](#)

Learn more about administering IBM Spectrum LSF Suite for Workgroups here:

- [Administering IBM Spectrum LSF](#)
- [Administering IBM Spectrum LSF Application Center](#)
- [Administering IBM Spectrum MPI \(10.3\)](#)
- [Using IBM Spectrum LSF Explorer](#)

### 8. Getting fixes from IBM Fix Central

After you install or upgrade IBM Spectrum LSF Suite for Workgroups, use IBM Fix Central to find and download the fixes that are recommended by IBM Support. From Fix Central, you can search, select, order, and download fix packs and interim fixes for your system with a choice of delivery options.

Before you download a fix from IBM Fix Central ([www.ibm.com/support/fixcentral](http://www.ibm.com/support/fixcentral)), have the following information at hand:

- Know your IBMid and password. You must log in to the Fix Central website before you can download a fix.
- If you know exactly which fix you need, you can search for it directly from the **Search Fix Central** field on the [IBM Fix Central](#) website.

On the Fix Central page, specify the product information needed to identify and download the fix that you need:

- a. On the **Select product** tab, select **Product group > IBM Spectrum Computing**.
- b. From the **Product** drop-down list, select IBM Spectrum LSF Suite for Workgroups.
- c. From the **Select from IBM Spectrum LSF Suite for Workgroups** drop-down list, select the version that is currently installed on your system.
- d. From the **Platform** drop-down list, select the platform that you are using, or select **All** for all platforms.
- e. Click **Continue** to find available fixes.
- f. On the **Select fixes** page, browse and select from the list of fixes for your product, version, and platform, then click **Continue**.
- g. On the **Download options** page, specify how you prefer to download the fix and any other required information.
- h. Download the files that implement the fix.
- i. To apply the fix, follow the instructions in the Readme file that is downloaded with the fix.

For detailed steps about getting fixes from IBM Fix Central, see [Getting fixes from IBM Fix Central](#)

## What to do next

More information

For more information about IBM Spectrum LSF Suite for Workgroups components, refer to the following resources:

- Find information about IBM Spectrum LSF Suite for Workgroups components including product-specific fixes, alerts and bulletins, and all product support content such as Technotes and IBM White Papers on IBM Support (<https://www.ibm.com/support/home/>):
  - [IBM Spectrum LSF](#)
  - [IBM Spectrum LSF Application Center](#)
  - [IBM Spectrum MPI](#)
  - [IBM Platform MPI 9.1.4](#)
  - [IBM Spectrum LSF Explorer](#)
- [IBM Spectrum LSF User Group](#) for videos and other resources
- [IBM Knowledge Center](#)

IBM Knowledge Center gathers all IBM product information into one easy-to-access place. Search across the entire IBM content library, or narrow your search to individual IBM Spectrum LSF Suite for Workgroups components.

- [IBM Spectrum Computing products](#)