

IBM Spectrum Cluster Foundation Community Edition

Version 4.3 Fix Pack 1



Quick Start Guide

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

Product overview

Previously known as IBM® Platform Cluster Manager Community Edition, IBM Spectrum Cluster Foundation Community Edition, is a powerful cluster management software that delivers a comprehensive set of functions to help manage hardware and software from the infrastructure level. IBM Spectrum Cluster Foundation Community Edition automates the deployment of the operating system and other software components, and complex activities, such as application cluster creation and maintenance of a system.

1 Step 1: Available packages



IBM Spectrum Cluster Foundation Community Edition 4.3 has the following packages available:

- IBM Spectrum Cluster Foundation Community Edition 4.3 Fix Pack 1 for x64
- IBM Spectrum Cluster Foundation Community Edition 4.3 Fix Pack 1 for Power®

Note: IBM Spectrum Cluster Foundation Community Edition is not supported on IBM POWER 9 systems.

2 Step 2: Access the software and documentation



Download the IBM Spectrum Cluster Foundation Community Edition 4.3 Fix Pack 1 software package from the IBM Spectrum Cluster Foundation Community Edition website (<https://www-01.ibm.com/marketing/iwm/iwm/web/preLogin.do?source=swerpzw-pcmce-3>).

To access IBM Spectrum Cluster Foundation Community Edition 4.3 documentation, see IBM Knowledge Center for one of the following products:

- IBM Spectrum LSF® Suite for Enterprise: https://www.ibm.com/support/knowledgecenter/SSUGA3_10.2.0/suite_welcome/lfs_sent_kc_admin_scf43.html
- IBM Spectrum LSF Suite for HPC: https://www.ibm.com/support/knowledgecenter/SSZUDP_10.2.0/suite_welcome/lfs_shpc_kc_admin_scf43.html
- IBM Spectrum LSF Suite for Workgroups: https://www.ibm.com/support/knowledgecenter/SSZU9Q_10.2.0/suite_welcome/lfs_swg_kc_admin_scf43.html

3 Step 3: Evaluate the hardware and system configuration



An IBM Spectrum Cluster Foundation Community Edition environment requires:

- A computing environment that consists of two or more machines
- A management node that has at least one network interface
- Access to the operating system media or image file that is used for installation of the operating system on all nodes in the cluster
- Compute nodes that can be set to boot over network and that use a baseboard management controller (BMC) or have power management

The following operating systems are supported on the management node: RHEL and CentOS.

Note: IBM Spectrum Cluster Foundation Community Edition supports generic IPMI-based x86-64 hardware and Power hardware that is available before the product release date. For hardware that is available after the product release date, contact IBM for full support information.

For a full list of hardware and software requirements, see:

- IBM Spectrum LSF Suite for Enterprise: https://www.ibm.com/support/knowledgecenter/SSUGA3_10.2.0/scf/4.3/install_guide/requirements.html
- IBM Spectrum LSF Suite for HPC: https://www.ibm.com/support/knowledgecenter/SSZUDP_10.2.0/scf/4.3/install_guide/requirements.html
- IBM Spectrum LSF Suite for Workgroups: https://www.ibm.com/support/knowledgecenter/SSZU9Q_10.2.0/scf/4.3/install_guide/requirements.html

4 Step 4: Plan system environment before installation

Before deploying IBM Spectrum Cluster Foundation Community Edition, decide on a network topology, and system configurations. See more information on planning your environment here:

- IBM Spectrum LSF Suite for Enterprise: https://www.ibm.com/support/knowledgecenter/SSUGA3_10.2.0/scf/4.3/install_guide/process_install.html
- IBM Spectrum LSF Suite for HPC: https://www.ibm.com/support/knowledgecenter/SSZUDP_10.2.0/scf/4.3/install_guide/process_install.html
- IBM Spectrum LSF Suite for Workgroups: https://www.ibm.com/support/knowledgecenter/SSZU9Q_10.2.0/scf/4.3/install_guide/process_install.html

5 Step 5: Installing the product



Install IBM Spectrum Cluster Foundation Community Edition on the management node using either interactive or silent installation.

In interactive installation, there are two installation modes, quick installation and custom installation. A quick installation uses predetermined default values, whereas the custom installation has more flexibility and customization in your environment settings. Compare both installation modes here:

- IBM Spectrum LSF Suite for Enterprise: https://www.ibm.com/support/knowledgecenter/SSUGA3_10.2.0/scf/4.3/install_guide/install_compare.html
- IBM Spectrum LSF Suite for HPC: https://www.ibm.com/support/knowledgecenter/SSZUDP_10.2.0/scf/4.3/install_guide/install_compare.html
- IBM Spectrum LSF Suite for Workgroups: https://www.ibm.com/support/knowledgecenter/SSZU9Q_10.2.0/scf/4.3/install_guide/install_compare.html

See more information on installation here:

- IBM Spectrum LSF Suite for Enterprise: https://www.ibm.com/support/knowledgecenter/SSUGA3_10.2.0/scf/4.3/install_guide/install_master_host_create_pcm.html
- IBM Spectrum LSF Suite for HPC: https://www.ibm.com/support/knowledgecenter/SSZUDP_10.2.0/scf/4.3/install_guide/install_master_host_create_pcm.html
- IBM Spectrum LSF Suite for Workgroups: https://www.ibm.com/support/knowledgecenter/SSZU9Q_10.2.0/scf/4.3/install_guide/install_master_host_create_pcm.html

Note: Upgrading from IBM Platform Cluster Manager Community Edition 4.2.1 to IBM Spectrum Cluster Foundation Community Edition 4.3 is not supported.

6 Step 6: Get started



Once you have installed IBM Spectrum Cluster Foundation Community Edition on the management node, you can set up LDAP, start configuring compute nodes and completing other administrative tasks.

See more on configuring IBM Spectrum Cluster Foundation Community Edition here:

- IBM Spectrum LSF Suite for Enterprise: https://www.ibm.com/support/knowledgecenter/SSUGA3_10.2.0/scf/4.3/system/system_deployment_overview.html
- IBM Spectrum LSF Suite for HPC: https://www.ibm.com/support/knowledgecenter/SSZUDP_10.2.0/scf/4.3/system/system_deployment_overview.html
- IBM Spectrum LSF Suite for Workgroups: https://www.ibm.com/support/knowledgecenter/SSZU9Q_10.2.0/scf/4.3/system/system_deployment_overview.html

More information



For more information about IBM Spectrum Cluster Foundation Community Edition, see the following resources:

- IBM Spectrum Cluster Foundation Community Edition on developerWorks: <https://developer.ibm.com/storage/products/ibm-spectrum-cluster-foundation/>
- IBM Knowledge Center (<https://www.ibm.com/support/knowledgecenter>):
 - IBM Spectrum LSF Suite for Enterprise: <https://www.ibm.com/support/knowledgecenter/SSUGA3>
 - IBM Spectrum LSF Suite for HPC: <https://www.ibm.com/support/knowledgecenter/SSZUDP>
 - IBM Spectrum LSF Suite for Workgroups: <http://www.ibm.com/support/knowledgecenter/SSZU9Q>
- IBM Redbooks® (<http://www.redbooks.ibm.com/>)