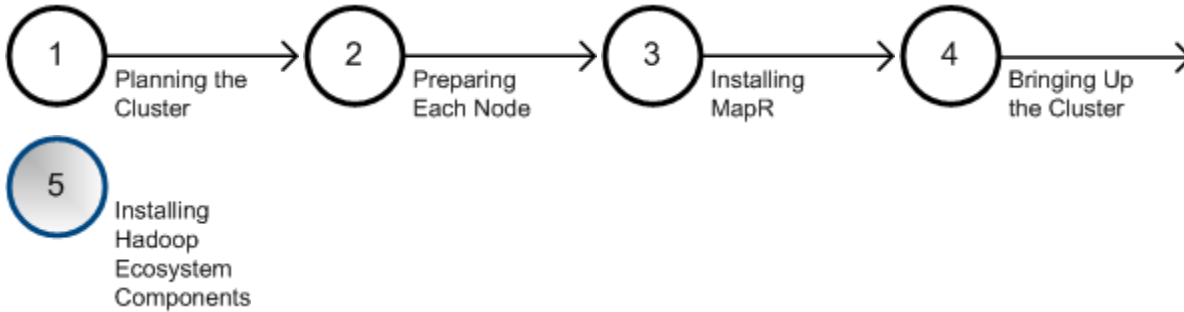


# Ecosystem Guide

Once you have successfully installed MapR on your cluster, you may also want to install and use various Hadoop ecosystem components within the cluster.

**i** If you used the [MapR Installer](#) to install ecosystem components, note that it also configures the ecosystem components. However, based on your requirements, there may be additional configuration steps that you will want to perform.

The following diagram shows the steps that you must complete before installing Hadoop ecosystem components on your cluster:



If you have already completed steps 1 through 4, you are ready to integrate any of the following Hadoop ecosystem components into your MapR cluster:

- [Apache Drill](#) - Installing and using Drill on a MapR cluster
- [Cascading](#) - Installing and using Cascading on a MapR cluster
- [Flume](#) - Installing and using Flume on a MapR cluster
- [HBase](#) - Installing and using HBase on MapR
- [HCatalog](#) - Working with HCatalog on MapR
- [Hive](#) - Installing and using Hive on a MapR cluster, and setting up a MySQL metastore
- [HttpFS](#) - Installing and configuring HttpFS on a MapR cluster
- [Hue](#) - Installing and using Hue on MapR
- [Impala](#) - Installing and using Impala on a MapR cluster
- [Mahout](#) - Environment variable settings needed to run Mahout on MapR
- [Oozie](#) - Installing and using Oozie on a MapR cluster
- [Pig](#) - Installing and using Pig on a MapR cluster
- [Spark](#) - Installing and running Spark on a MapR cluster
- [Sqoop](#) - Installing and using Sqoop on a MapR cluster
- [Storm \(0.9.3-1411\)](#) - Installing and using Storm on a MapR cluster

After installing all the needed components, see [Next Steps After Installation](#) for a list of post-install considerations to configure your cluster.

MapR works well with Hadoop monitoring tools, such as:

- [Ganglia](#) - Setting up Ganglia monitoring on a MapR cluster
- [Nagios Integration](#) - Generating a Nagios Object Definition file for use with a MapR cluster

MapR works with the leaders in the Hadoop ecosystem to provide the most powerful data analysis solutions. For more information about our partners, take a look at the following pages:

- [Datameer](#)
- [HParser](#)
- [Karmasphere](#)
- [Pentaho](#)
- [HPVertica](#)