Bigtop is an Apache Open Source project to build, package, test and deploy open source big data components.

Building
Bigtop uses container to setup same build environment for different OSes, which guarantees same build result for each build.
Create build images
Build components

Packaging

Testing
SmokeTest

Deployment

Examples
Spark 2.0 - Build, configure and Installation steps using Apache BigTop
ERP 17.08 - Build, Configure, Install and Test Hadoop, Spark, Hive, Hbase in containerized environment