

内容大纲

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单机部署

- ▶ <https://dlcdn.apache.org/hbase/> 下载一个最新稳定版本
- ▶ 安装java, 建议使用JDK1.8, 兼容当前稳定版的HBase

Table 3. Hadoop version support matrix for active release lines

| | HBase-2.4.x | HBase-2.5.x |
|-------------------|-------------|-------------|
| Hadoop-2.10.[0-1] | ✓ | ✗ |
| Hadoop-2.10.2+ | ✓ | ✓ |
| Hadoop-3.1.0 | ✗ | ✗ |
| Hadoop-3.1.1+ | ✓ | ✗ |
| Hadoop-3.2.[0-2] | ✓ | ✗ |
| Hadoop-3.2.3+ | ✓ | ✓ |
| Hadoop-3.3.[0-1] | ✓ | ✗ |
| Hadoop-3.3.2+ | ✓ | ✓ |

单机部署

- ▶ 执行HBASE_HOME/bin/start-hbase.sh 启动单机版HBase
 - ▶ jps 发现有个HMaster的进程
 - ▶ HBase会将HMaster、HRegionServer、ZooKeeper后台进程全部运行在HMaster这个JVM里面
- ▶ 访问 <http://localhost:16010/master-status> 查看HBase Web UI.

Hello HBase Shell

- ▶ 进入HBase Shell界面
 - ▶ 执行HBASE_HOME/bin/hbase shell
- ▶ 简单命令
 - ▶ list -- 查看已有表
 - ▶ create 'test', 'cf' --新建表
 - ▶ put 'test', 'row1', 'cf:a', 'value1' --插入数据
 - ▶ scan 'test' --扫描表
 - ▶ get 'test', 'row1'--获取一条数据

集群部署

表 2-3 HBase 集群进程表

| 进程 | master1 | master2 | slave1 |
|--------------|--|--|-----------------------------------|
| Hadoop 进程 | NameNode DataNode DFSZKFailoverController JournalNode | NameNode DataNode DFSZKFailoverController JournalNode | - DataNode - JournalNode |
| HBase 进程 | HMaster HRegionServer | HMaster HRegionServer | - HRegionServer |
| ZooKeeper 进程 | QuorumPeerMain | QuorumPeerMain | QuorumPeerMain |