# kudu 安装

[kudu 安装](#header-n861)  
 [1. 安装kudu主程序](#header-n864)  
 [1.1 安装kudu](#header-n865)  
 [1.2 配置kudu](#header-n878)  
 [1.2.1 集群域名](#header-n882)  
 [1.2.2 配置marster](#header-n884)  
 [1.2.2.1 配置master.gflagfile(不需要调整)](#header-n887)  
 [1.2.2.2配置文件kudu-master :](#header-n899)  
 [1.2.3 配置tserver](#header-n901)  
 [1.2.3.1 配置tserver.gflagfile](#header-n902)  
 [1.2.3.2 配置kudu-tserver :](#header-n904)  
 [2 启动服务](#header-n909)  
 [2.1 启动Marster](#header-n910)  
 [2.2 启动Tablet Server](#header-n920)  
 [3 验证安装情况](#header-n942)

## 1. 安装kudu主程序

### 1.1 安装kudu

1. 上传依赖 cloudera-kudu.repo 文件保存到 /etc/yum.repos.d/
2. 在主机执行命令sudo yum install kudu 以及sudo yum install kudu-master
3. 在从机执行命令sudo yum install kudu 以及sudo yum install kudu-tserver

### 1.2 配置kudu

注：配置后如有启动问题，可查看日志/var/log/kudu/kudu-master.FATAL

#### 1.2.1 集群域名

192.168.33.2 win  
192.168.33.101 node1  
192.168.33.102 node2  
192.168.33.103 node3  
192.168.33.104 node4

#### 1.2.2 配置marster

主要配置信息主要在一下路径：

/etc/kudu/conf.dist/master.gflagfile /etc/default/kudu-master /etc/kudu/conf.dist/tserver.gflagfile /etc/default/kudu-tserver

##### 1.2.2.1 配置master.gflagfile(不需要调整)

# Do not modify these two lines. If you wish to change these variables,  
# modify them in /etc/default/kudu-master.  
--fromenv=rpc\_bind\_addresses  
--fromenv=log\_dir  
  
--fs\_wal\_dir=/var/lib/kudu/master  
--fs\_data\_dirs=/var/lib/kudu/master

##### 1.2.2.2配置文件kudu-master :

export FLAGS\_log\_dir=/var/log/kudu  
export FLAGS\_rpc\_bind\_addresses=node1:7051

#### 1.2.3 配置tserver

##### 1.2.3.1 配置tserver.gflagfile

#/etc/kudu/conf.dist/tserver.gflagfile   
# Do not modify these two lines. If you wish to change these variables,  
# modify them in /etc/default/kudu-tserver.  
--fromenv=rpc\_bind\_addresses  
--fromenv=log\_dir  
  
--fs\_wal\_dir=/var/lib/kudu/tserver  
--fs\_data\_dirs=/var/lib/kudu/tserver  
--tserver\_master\_addrs=node1:7051

##### 1.2.3.2 配置kudu-tserver :

export FLAGS\_log\_dir=/var/log/kudu  
export FLAGS\_rpc\_bind\_addresses=node2:7050

## 2 启动服务

### 2.1 启动Marster

sudo service kudu-master start

注：配置后如有启动问题，可查看日志/var/log/kudu/kudu-master.FATAL

如果启动失败， 需要先设置好时间 date -s '2018/08/13 00:36:00',

再执行/etc/init.d/ntpd restart, 然后再次启动。

### 2.2 启动Tablet Server

sudo service kudu-tserver start

同启动master注意事项：

1. hosts配置好集群域名+地址
2. 设置好时间及NTP服务
3. 结合启动失败日志
4. 如果出现以下异常，可参考链接解决方式：

* Bad status: Not found: Unable to initialize catalog manager: Failed to initialize sys tables async: Could not load tablet metadata from /var/lib/kudu/master/tablet-meta/00000000000000000000000000000000: /var/lib/kudu/master/tablet-meta/00000000000000000000000000000000: No such file or directory (error 2)
* [master fails to start if unable to find metadata files]( https://issues.apache.org/jira/browse/KUDU-1186)

## 3 验证安装情况

打开以下地址，可以进入对应节点查看webUI：

http://node-1:8051/

http://node-2:8050/

http://node-3:8050/

http://node-4:8050/

并且

http://node-1:8051/tablet-servers

该页面可以看到多个tservers

