阅读数:23

原 HADOOP重新编译

2018年04月13日 13:17:13

Hadoop2.4.0 重新编译 64 位本地库

环境:虚拟机 VirtualBox,操作系统64位 CentOS6.4

下载重新编译需要的软件包

apache-ant-1.9.4-bin.tar.gz

findbugs-3.0.0.tar.gz

protobuf-2.5.0.tar.gz

apache-maven-3.0.5-bin.tar.gz

下载 hadoop2.4.0 的源码包

hadoop-2.4.0-src.tar.gz

压解源码包

[grid@hadoopMaster01 ~]\$ tar -zxvf hadoop-2.4.0-src.tar.gz

安装编译所需软件

安装 MAVEN

压解 apache-maven-3.0.5-bin.tar.gz 到/opt/目录

[root@hadoopMaster01 grid]# tar -zxvf apache-maven-3.0.5-bin.tar.gz -C /opt/

修改/etc/profile 配置,增加 MAVEN 环境配置M2_HOME PATH

保存后使用 source /etc/profile 使修改配置即时生效

[root@hadoopMaster01 apache-maven-3.0.5]# source /etc/profile

使用 mvn -v 命令进行验证,如图所示表示安装配置成功

安装 ANT

压解 apache-ant-1.9.4-bin.tar.gz 到/opt/目录

[root@hadoopMaster01 grid]# tar -zxvf apache-ant-1.9.4-bin.tar.gz -C /opt/

修改/etc/profile 配置,增加ANT环境配置ANT_HOME_PATH

保存后使用 source /etc/profile 使修改配置即时生效

[root@hadoopMaster01 apache-ant-1.9.4]# source /etc/profile

使用 ant-version 命令进行验证,如图所示表示安装配置成功

安装 FINDBUGS检测代码质量

压解 findbugs-3.0.0.tar.gz 到/opt/目录

[root@hadoopMaster01 grid]# tar -zxvf findbugs-3.0.0.tar.gz -C /opt/

修改/etc/profile 配置,增加 FINDBUGS 环境配置

保存后使用 source /etc/profile 使修改配置即时生效

[root@hadoopMaster01 apache-ant-1.9.4]# source /etc/profile

使用 findbugs-version 命令进行验证,如图所示表示安装配置成功

安装 PROTOBUF跨平台序列化框架

编译 Hadoop 2.4.0, 需要 protobuf 的编译器protoc, 一定要是 protobuf 2.5.0 以上

直接压解 protobuf-2.5.0.tar.gz

[root@hadoopMaster01 grid]# tar -zxvf protobuf-2.5.0.tar.gz

安装 protobuf, 依次执行如下命令

[root@hadoopMaster01 grid]# cd protobuf-2.5.0

[root@hadoopMaster01 protobuf-2.5.0]# Is

aclocal.m4 config.guess configure COPYING.txt examples

HADOOP重新编译 - CSDN博客 install-sh Itmain.sh Makefile.in protobuf.pc.in src autogen.sh config.h.in configure.ac depcomp generate descriptor proto.sh INSTALL.txt m4 missing python vsprojects CHANGES.txt config.sub CONTRIBUTORS.txt editors gtest java Makefile.am protobuf-lite.pc.in README.txt [root@hadoopMaster01 protobuf-2.5.0]# ./configure [root@hadoopMaster01 protobuf-2.5.0]# make [root@hadoopMaster01 protobuf-2.5.0]# make check [root@hadoopMaster01 protobuf-2.5.0]# make install 使用 protoc --version 命令进行验证,如图所示表示安装配置成功 安装 依赖包 安装 cmake, openssl-devel, ncurses-devel 依赖包(root 用户且能够连上互联网) [root@hadoopMaster01 ~]# yum install cmake 如下图表示安装成功 [root@hadoopMaster01 ~]# yum install openssl-devel 如下图表示安装成功 [root@hadoopMaster01 ~]# yum install ncurses-devel 如下图表示依赖包系统中已经安装并且为最新版本 编译 64 位本地库 进入已压解的 hadoop 源码目录 [grid@hadoopMaster01 ~]\$ cd hadoop-2.4.0-src [grid@hadoopMaster01 hadoop-2.4.0-src]\$ pwd /home/grid/hadoop-2.4.0-src 执行 mvn cleaninstall -DskipTests 命令,等待完成(会自动联网下载很多东西) [grid@hadoopMaster01 hadoop-2.4.0-src]\$ mvn clean install -DskipTests 执行 mvn package -Pdist, native -DskipTests -Dtar 命令,开始编译,等待完成 grid@hadoopMaster01 hadoop-2.4.0-src]\$ mvn package -Pdist,native -DskipTests -Dtar 出现如下信息 [INFO] -----[INFO] Reactor Summary: [INFO] [INFO] Apache Hadoop Main SUCCESS[6.304s] [INFO] Apache Hadoop Project POM SUCCESS [26.555s] [INFO] Apache Hadoop Annotations SUCCESS[2.757s] [INFO] Apache Hadoop Assemblies SUCCESS [0.216s] [INFO] Apache Hadoop Project Dist POM SUCCESS [19.592s] [INFO] Apache Hadoop Maven Plugins SUCCESS [2.715s] [INFO] Apache Hadoop MiniKDC SUCCESS [2.360s] [INFO] Apache Hadoop Auth SUCCESS [2.950s] [INFO] Apache Hadoop Auth Examples SUCCESS[2.119s] [INFO] Apache Hadoop Common SUCCESS [1:22.302s] [INFO] Apache Hadoop NFS SUCCESS [5.095s] [INFO] Apache Hadoop Common Project...... SUCCESS [0.026s] [INFO] Apache Hadoop HDFS SUCCESS [2:06.178s] [INFO] Apache Hadoop HttpFS SUCCESS [1:09.142s]

[INFO] Apache Hadoop HDFS BookKeeper Journal SUCCESS [14.457s]

[INFO] Apache Hadoop HDFS-NFSSUCCESS [2.859s]

[INFO]	Apache Hadoop HDFS Project	SUCCESS [0.030s]	
[INFO]	hadoop-yarn	. SUCCESS [0.029s]	
[INFO]	hadoop-yarn-api	SUCCESS [59.010s]	
	hadoop-yarn-common		
	hadoop-yarn-server		
	hadoop-yarn-server-common		
	hadoop-yarn-server-nodemanager		
	hadoop-yarn-server-web-proxy		
	hadoop-yarn-server-applicationhistory		
	hadoop-yarn-server-resourcemanage		
	hadoop-yarn-server-tests		
	hadoop-yarn-client		
	hadoop-yarn-applications		
	hadoop-yarn-applications-distributeds		
	hadoop-yarn-applications-unmanaged	-	}s]
	hadoop-yarn-site		
[INFO]	hadoop-yarn-project	SUCCESS [3.261s]	
[INFO]	hadoop-mapreduce-client	SUCCESS [0.082s]	
[INFO]	hadoop-mapreduce-client-core	SUCCESS [18.549s]	
[INFO]	hadoop-mapreduce-client-common	SUCCESS [13.772s]	
[INFO]	hadoop-mapreduce-client-shuffle	SUCCESS [2.441s]	
[INFO]	hadoop-mapreduce-client-app	SUCCESS [6.866s]	
[INFO]	hadoop-mapreduce-client-hs	SUCCESS [6.280s]	
[INFO]	hadoop-mapreduce-client-jobclient	SUCCESS [3.510s]	
[INFO]	hadoop-mapreduce-client-hs-plugins	SUCCESS [1.725s]	
[INFO]	Apache Hadoop MapReduce Example	es SUCCESS [4.641s]	
	hadoop-mapreduce		
	Apache Hadoop MapReduce Streami		
	Apache Hadoop Distributed Copy		
	Apache Hadoop Archives		
	Apache Hadoop Rumen	· · · · · · · · · · · · · · · · · · ·	
	Apache Hadoop Gridmix		
	Apache Hadoop Data Join		
	Apache Hadoop Extras		
	Apache Hadoop Pipes		
	Apache Hadoop OpenStack support .		
	Apache Hadoop Client		
	Apache Hadoop Mini-Cluster		
	Apache Hadoop Scheduler Load Sim	· · · · · · · · · · · · · · · · · · ·	
	Apache Hadoop Tools Dist		
	Apache Hadoop Tools		
	Apache Hadoop Distribution		
	BUILD SUCCESS		
[INFO]			
	Total time: 10:25.147s		
[INFO]	Finished at: Mon Jul 28 16:09:56 CST	Т 2014	

[INFO] Final Memory: 75M/241M

[INFO] -----

表示编译成功

进入/home/grid/hadoop-2.4.0-src/hadoop-dist/target/hadoop-2.4.0/lib/native 检查,使用 file *命

令,如下图已经成功将编译64本地库

将 64 位的 native 文件夹替换原 32 位的文件夹即可

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