

# emr快速部署文档-1.2.0

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## EMR-1.2.0安装

### 一,环境准备

#### 1.主机规划

IP	主机名	配置	角色
192.168.90.226	master1.emr.lcoal	8c 16g 50+200G	Starry-server Starry-agent NN RM HS
192.168.90.229	master2.emr.lcoal	8c 16g 50+200G	Starry-agent NN RM DN NM
192.168.90.223	node1.emr.lcoal	8c 16g 50+200G	Starry-agent DN NM

## 2.部署包准备

▼ Shell | 复制代码

```

1 #解压后目录如下
2 /data/EMR/
3   └── EMR
4   └── EMR-UTILS-1.1.0.22
5   └── soft
6   └── starry

```

## 二,安装步骤

### 1.环境初始化

#### 1.1 上传安装包到指定目录

▼ Shell | 复制代码

```

1 #上传emr-1.1.0.tgz/yum-1.1.0.tgz两个安装包到/data/tools并解压
2 tar zxf /data/tools/EMR-1.2.0.tgz -C /data

```

#### 1.2 配置主机免密登陆

杭 Shell | 复制代码

```
1 cat > /data/EMR/soft/ip.list << EOF
2 192.168.90.226
3 192.168.90.229
4 192.168.90.223
5 EOF
6
7 #创建ssh密钥串
8 ssh-keygen -f ~/.ssh/id_rsa -P "" -t rsa
9 #开通到所有节点的ssh免密通道（按需输入yes和root密码）
10 for i in `cat /data/EMR/soft/ip.list`;do ssh-copy-id $i;done
```

杭 Shell | 复制代码

```
1 cat > /data/EMR/soft/hosts << EOF
2 #shuqi_emr
3 192.168.90.226 master1.emr.local master1 yum.emr.local
4 192.168.90.229 master2.emr.local master2
5 192.168.90.223 node1.emr.local node1
6 EOF
7
8 #同步hosts文件到所有节点
9 for i in `cat /data/EMR/soft/ip.list`;do rsync -av /data/EMR/soft/hosts $i
: /etc/;echo -----$i-----;done
10 for i in `cat /data/EMR/soft/ip.list`;do ssh $i "cat /etc/hosts";echo -----
-----$i-----;done
```

杭 Shell | 复制代码

```
1 ssh master1 "hostnamectl --static set-hostname master1.emr.local"
2 ssh master2 "hostnamectl --static set-hostname master2.emr.local"
3 ssh node1 "hostnamectl --static set-hostname node1.emr.local"
```

## 1.5 执行系统检测/修复

▼ Shell | 复制代码

33)

```
1 #脚本自动进行检测，按需输入。如系统检测有异常项，执行修复，全部通过即可
2 cd /data/EMR/soft
3 #检测
4 sh opstools.sh checklist
5 #修复
6 sh opstools.sh repair
```

## 1.7 chrony时间同步(可选)

```
1 #所有节点安装chrony服务
2 for i in `cat /data/EMR/soft/ip.list`;do ssh $i "yum -y install chrony";echo -----$i-----;done
3
4 #master1作为服务端配置如下
5 vim /etc/chrony.conf
6 server ntp.aliyun.com iburst      #有网络可以写阿里云的ntp 订正时间。没有就写自己 手
动对正
7 driftfile /var/lib/chrony/drift
8 makestep 1.0 3
9 rtcsync
10 allow 192.168.0.0/24
11 local stratum 10
12 logdir /var/log/chrony
13
14 #master2和node1作为客户端配置如下
15 server master1.emr.local iburst
16 driftfile /var/lib/chrony/drift
17 makestep 1.0 3
18 rtcsync
19 logdir /var/log/chrony
20
21
22 #启动所有节点chrony服务并enable
23 for i in `cat /data/EMR/soft/ip.list`;do ssh $i "systemctl start chronyd &
& systemctl enable chronyd";echo -----$i-----;done
24
25 #查看是否同步
26 for i in `cat /data/EMR/soft/ip.list`;do ssh $i "chronyc sources -v";echo -----$i-----;done
27 ^* 203.107.6.88
28 带星即可
```

## 2.starry依赖安装

### 2.1. 配置EMR安装源

Shell | 复制代码

```
1 #配置emr目录为yum源 (master1执行)
2 sh /data/EMR/soft/install_nginx.sh
3 #页面访问验证
4 http://master1.emr.local/
5
6
7 #更改repo模版并分发给所有主机
8 for i in `cat /data/EMR/soft/ip.list`;do rsync -av /data/EMR/soft/emr.rep
o $i:/etc/yum.repos.d/;echo -----$i-----;done
9
10 #验证yum可用性。是否有starry包
11 for i in `cat /data/EMR/soft/ip.list`;do ssh $i "yum list | grep starry";e
cho -----$i-----;done
```

## 2.2 各节点安装JDK

Shell | 复制代码

```
1 #安装jdk (master1执行)
2 cd /data/EMR/soft/
3 for i in `cat /data/EMR/soft/ip.list`;do echo $i ;rsync -av /data/EMR/soft/
{jdk,jdk1.8.0_241} $i:/opt/third/ ;echo -----$i-----;done
4 for i in `cat /data/EMR/soft/ip.list`;do echo $i ;rsync -av /data/EMR/soft/
default $i:/usr/java/;echo -----$i-----;done
5 for i in `cat /data/EMR/soft/ip.list`;do echo $i ;rsync -av /data/EMR/soft/
mysql-connector-java.jar $i:/usr/share/java/;echo -----$i-----;done
6 for i in `cat /data/EMR/soft/ip.list`;do ssh $i 'echo "export JAVA_HOME=/op
t/third/jdk" >> /etc/profile';echo -----$i-----;done
7 for i in `cat /data/EMR/soft/ip.list`;do ssh $i 'echo "export PATH=\$PAT
H:\$JAVA_HOME/bin" >> /etc/profile';echo -----$i-----;done
8 for i in `cat /data/EMR/soft/ip.list`;do ssh $i 'source /etc/profile &&jav
a -version';echo -----$i-----;done
```

## 2.3 mysql安装

依赖系统yum源

▼ Shell | 复制代码

```
1 #安装mysql (master1执行)
2 sh /data/EMR/soft/install_mysql.sh
```

## 3.starry安装启动

### 3.1starry-server安装配置

```
1 #starry-server安装
2 yum install -y starry-server
3
4 #配置license
5 vim /etc/profile
6 export SECURITY_LICENSE=xxxxxxxxxx
7
8 source /etc/profile
9
10 #starry-server配置
11 [root@master1 soft]# starry-server setup
12 Using python /usr/bin/python
13 Setup starry-server
14 Checking SELinux...
15 SELinux status is 'disabled'
16 Customize user account for starry-server daemon [y/n] (n)? n
17 Adjusting starry-server permissions and ownership...
18 Checking firewall status...
19 Checking JDK...
20 [1] Oracle JDK 1.8 + Java Cryptography Extension (JCE) Policy Files 8
21 [2] Custom JDK
22 =====
23 Enter choice (1): 2
24 WARNING: JDK must be installed on all hosts and JAVA_HOME must be valid on all hosts.
25 WARNING: JCE Policy files are required for configuring Kerberos security.
26 If you plan to use Kerberos, please make sure JCE Unlimited Strength Jurisdiction Policy Files are valid on all hosts.
27 Path to JAVA_HOME: /opt/third/jdk
28 Validating JDK on Starry Server...done.
29 Check JDK version for Starry Server...
30 JDK version found: 8
31 Minimum JDK version is 8 for Starry. Skipping to setup different JDK for Starry Server.
32 Completing setup...
33 Configuring database...
34 Enter advanced database configuration [y/n] (n)? y
35 Configuring database...
36 =====
37 Choose one of the following options:
38 [1] - PostgreSQL (Embedded)
39 [2] - Oracle
40 [3] - MySQL / MariaDB
41
```

```
40 [4] - PostgreSQL
41 [5] - Microsoft SQL Server (Tech Preview)
42 [6] - SQL Anywhere
43 [7] - BDB
44 =====
45 Enter choice (1): 3
46 Hostname (localhost):
47 Port (3306): 33)
48 Database name (starry):
49 Username (starry):
50 Enter Database Password (Shuq1-1298):
51 Re-enter password:
52 Configuring starry database...
53 Should starry use existing default jdbc /usr/share/java/mysql-connector-ja
va.jar [y/n] (y)? y
54 Configuring remote database connection properties...
55 WARNING: Before starting Starry Server, you must run the following DDL dir
ectly from the database shell to create the schema: /var/lib/starry-serv
e/resources/Starry-DDL-MySQL-CREATE.sql
56 Proceed with configuring remote database connection properties [y/n] (y)?
57 y
58 Extracting system views...
59 starry-admin-1.1.0.0.0.jar
60 Starry repo file doesn't contain latest json url, skipping repoinfos modif 33)
ication
61 Adjusting starry-server permissions and ownership...
62 Starry Server 'setup' completed successfully.
63
64
65
66 #初始化 starry 数据库连接配置
67 starry-server setup --jdbc-db=mysql --jdbc-driver=/usr/share/java/mysql-co
nnector-java.jar
68 #初始化starry库
69 mysql -ustarry -pShuq1-1298 starry < /var/lib/starry-server/resources/Sta
rry-DDL-MySQL-CREATE.sql;
70 #启动starry-server
71 starry-server start
72 echo "source /etc/profile && starry-server restart" >> /etc/rc.d/rc.local
```

```

[root@master1 soft]# starry-server setup
Using python /usr/bin/python
Setup starry-server
Checking SELinux...
SELinux status is 'disabled'
Customize user account for starry-server daemon [y/n] (n)? n
Adjusting starry-server permissions and ownership...
Checking firewall status...
Checking JDK...
[1] Oracle JDK 1.8 + Java Cryptography Extension (JCE) Policy Files 8
[2] Custom JDK
=====
Enter choice (1): 2
默认n
WARNING: JDK must be installed on all hosts and JAVA_HOME must be valid on all hosts.
WARNING: JCE Policy files are required for config Kerberos, if you plan to use Kerberos, please make sure JCE Unlimited Strength Jurisdiction Policy Files are valid on all hosts.
Path to JAVA_HOME: /opt/third/jdk
填入jdk绝对路径
Validating JDK on Starry Server...done.
Check JDK version for Starry Server...
JDK version found: 8
Minimum JDK version is 8 for Starry. Skipping to setup different JDK for Starry Server.
Completing setup...
Configuring database...
Enter advanced database configuration [y/n] (n)? y
自定义数据库
Configuring database...
=====
Choose one of the following options:
[1] - PostgreSQL (Embedded)
[2] - Oracle
[3] - MySQL / MariaDB
[4] - PostgreSQL
[5] - Microsoft SQL Server (Tech Preview)
[6] - SQL Anywhere
[7] - BDB
=====
Enter choice (1): 3
Hostname (localhost): ←
数据库相关信息
Port (3306): ←
Database name (starry): starry ←
Username (starry): starry ←
Enter Database Password (bigdata): ←
Re-enter password: ←
Configuring starry database...
Should starry use existing default jdbc /usr/share/java/mysql-connector-java.jar [y/n] (y)? y
使用获取到的mysql驱动jar
Configuring remote database connection properties...
WARNING: Before starting Starry Server, you must run the following DDL directly from the database shell to create the schema: /var/lib/starry-server/resources/Starry-DDL-MYSQL-CREATE.sql
Proceed with configuring remote database connection properties [y/n] (y)? y
确认写入配置文件
Extracting system views...
..starry-admin-1.2.0-1.jar
Error extracting starry-views-package-1.2.0-1.jar

Starry repo file doesn't contain latest json url, skipping repoinfos modification
Adjusting starry-server permissions and ownership...
Starry Server 'setup' completed successfully.
[root@master1 soft]# 

```

### 3.3 starry-agent安装配置

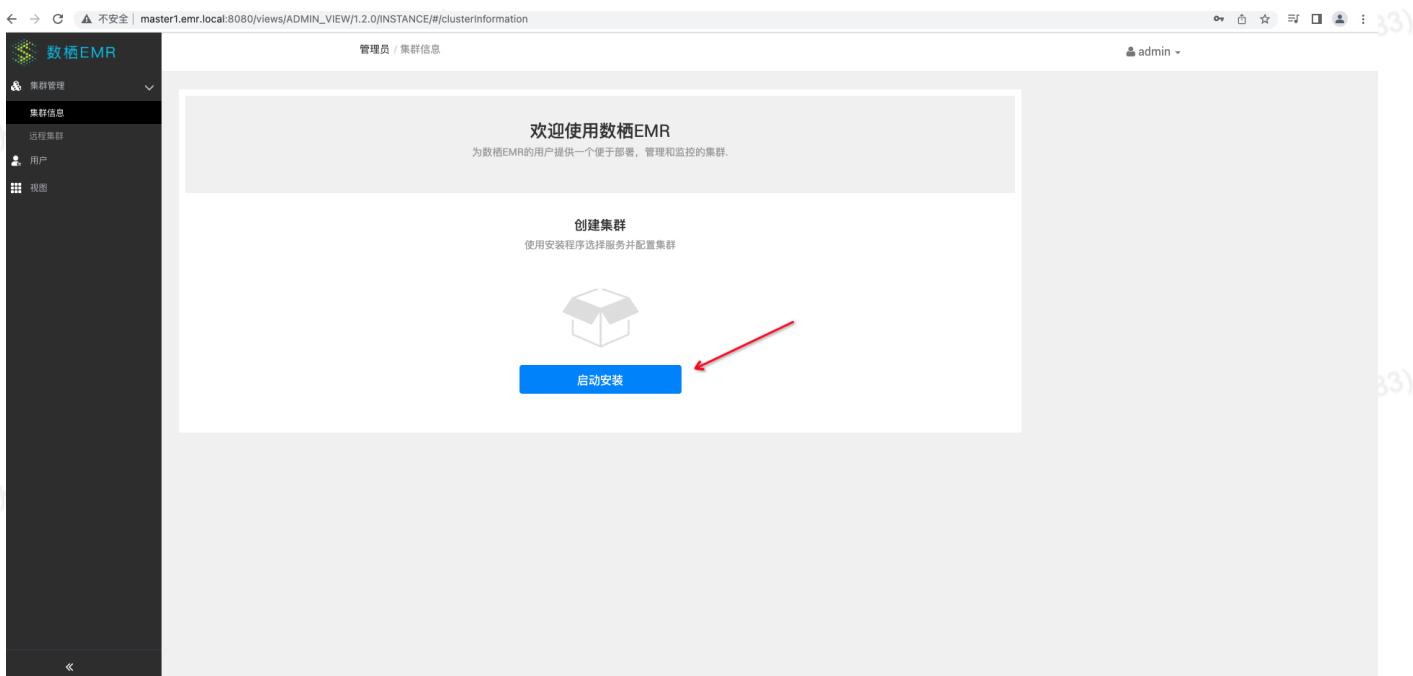
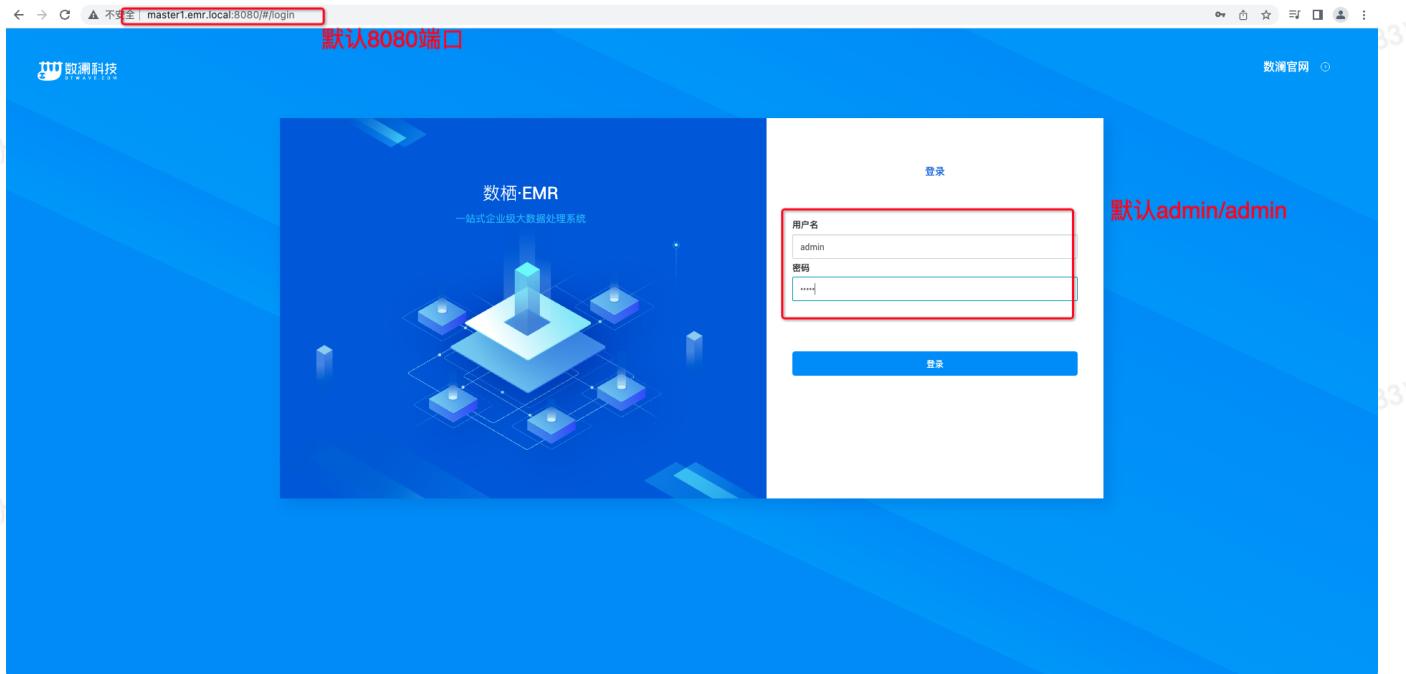
```

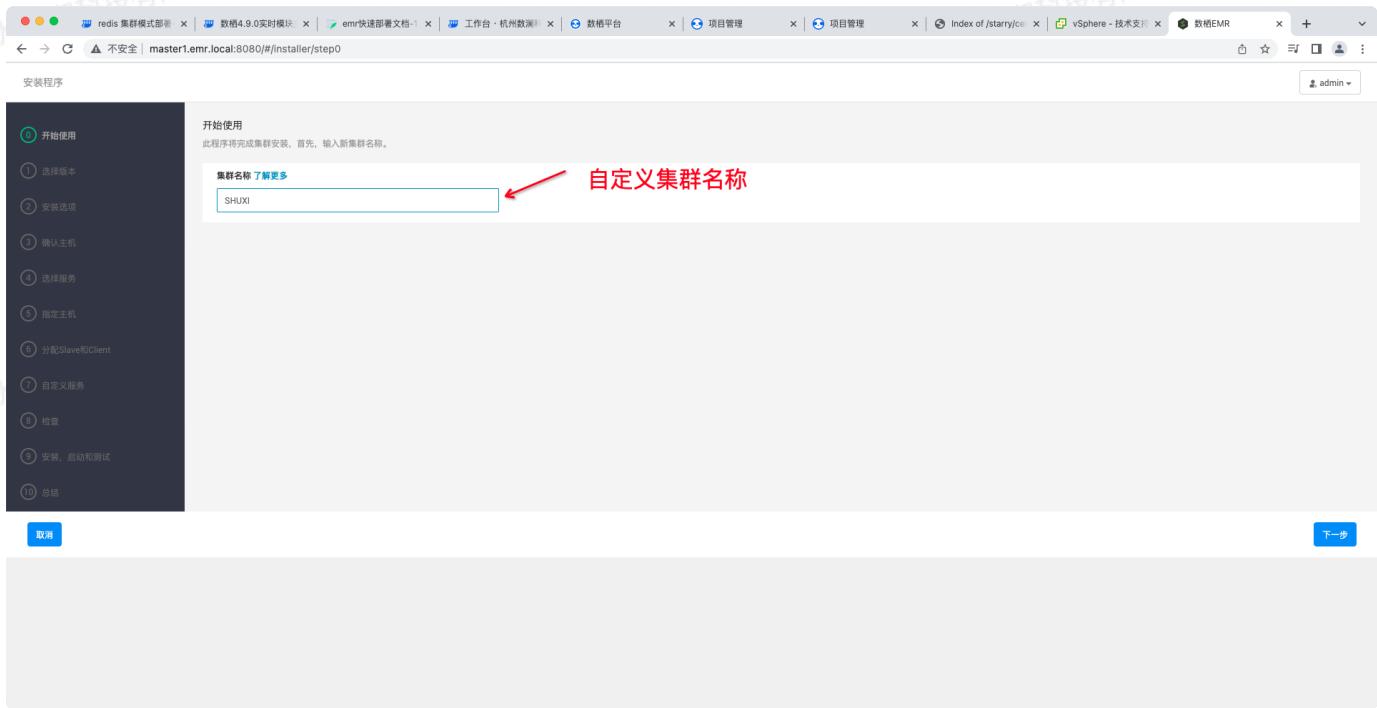
Shell | 复制代码

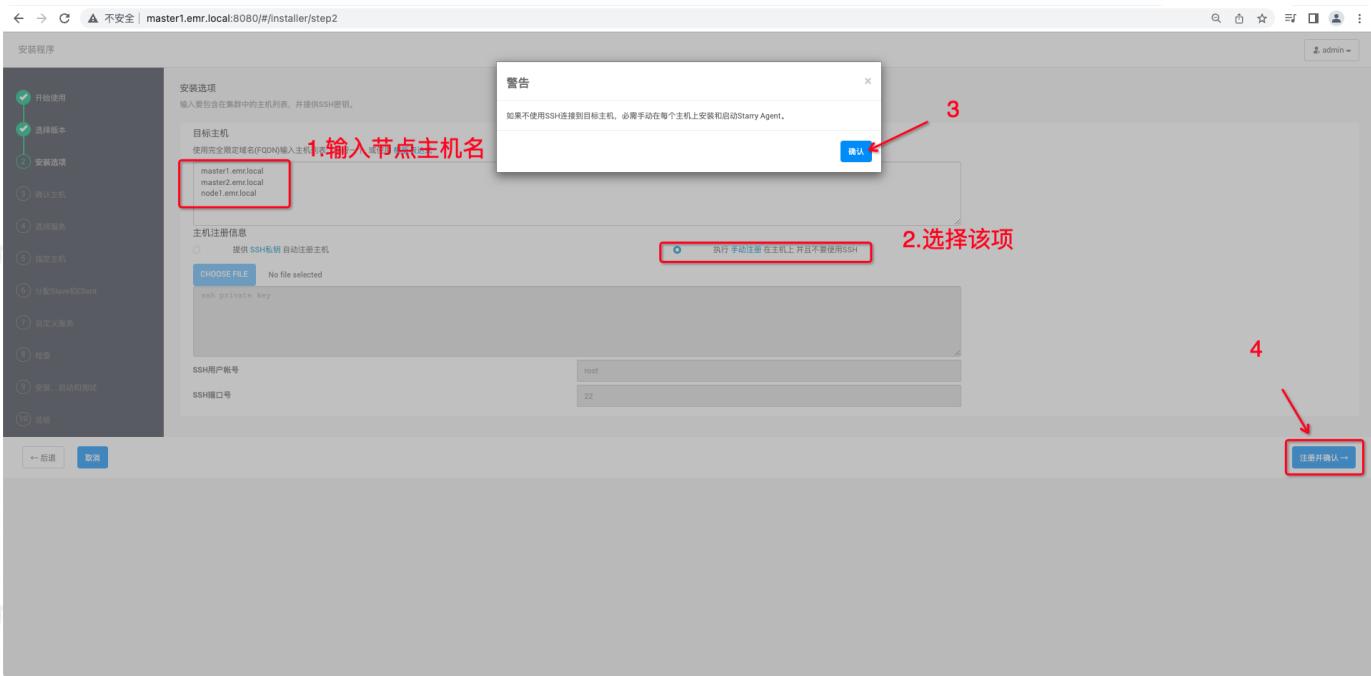
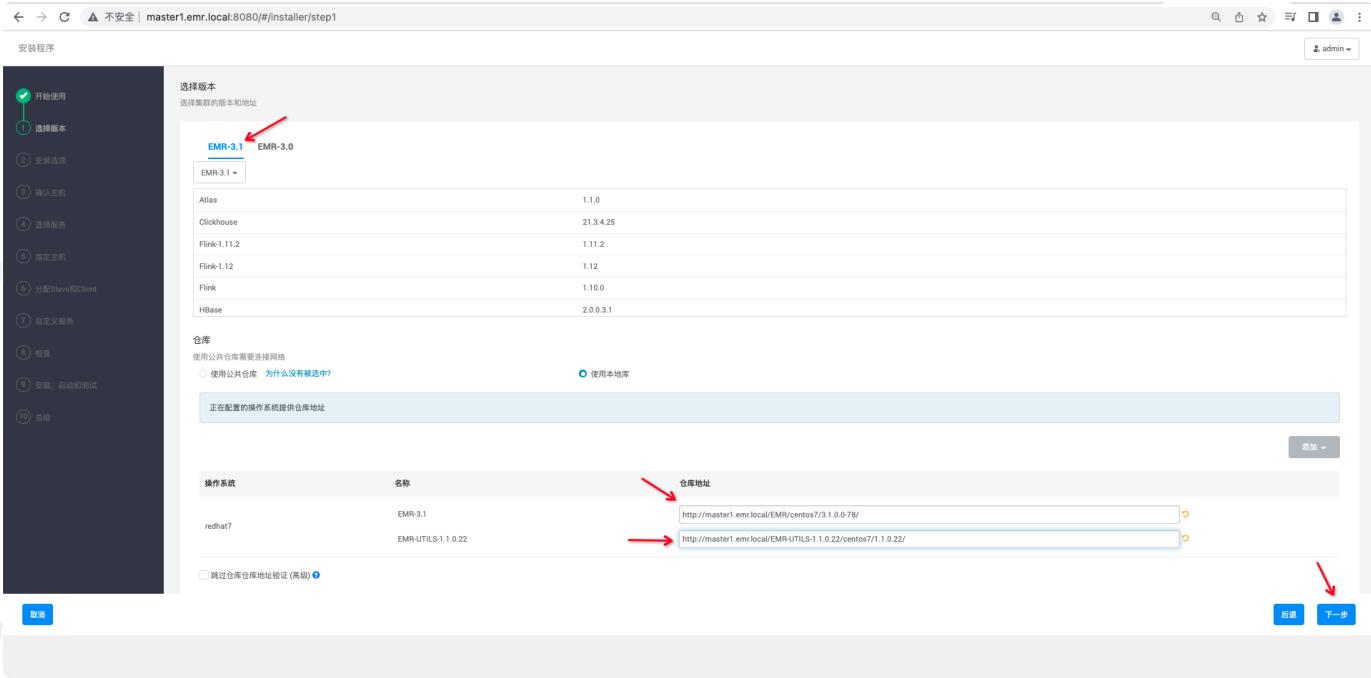
1 #starry-agent安装
2 for i in `cat /data/EMR/soft/ip.list`;do ssh $i 'yum install -y starry-ag
t';echo -----$i-----;done
3
4 #更改客户端配置
5 for i in `cat /data/EMR/soft/ip.list`;do ssh $i "sed -i '/^hostname=/c host
name=master1' /etc/starry-agent/conf/starry-agent.ini";echo -----$i-----
done
6 for i in `cat /data/EMR/soft/ip.list`;do ssh $i 'starry-agent start';echo -
-----$i-----;done

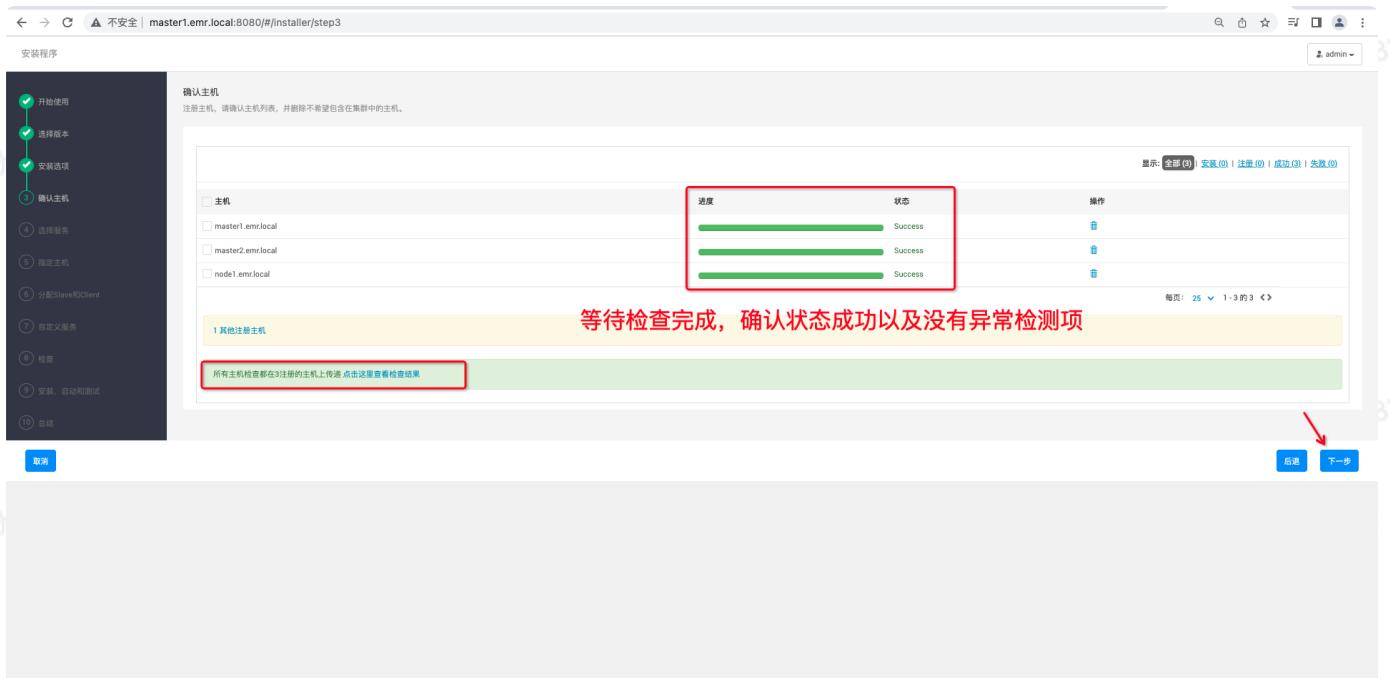
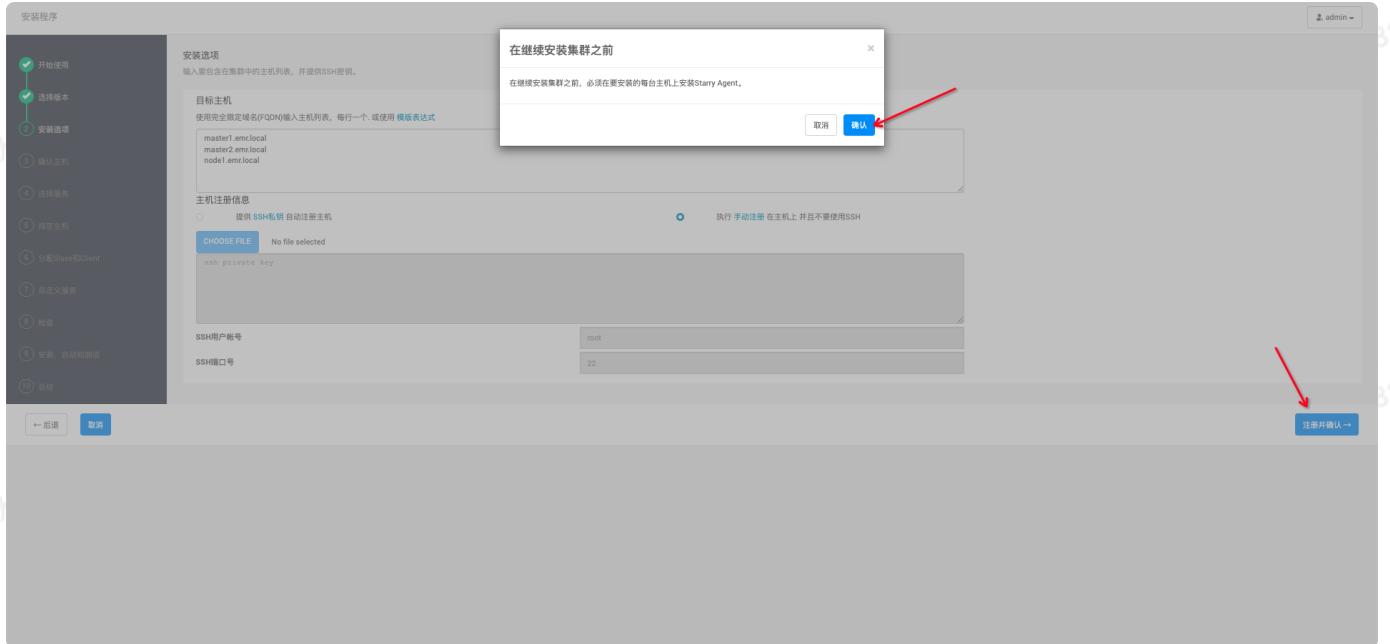
```

### 3.4 页面安装Hadoop集群









第一次初始化安装集群时，spark3、flink-1.12、clickhouse不能一起部署，该服务依赖部分Hadoop集群的服务正常才能部署成功。可以在部署完成后，再增加服务。

按需勾选要部署的服务

<input checked="" type="checkbox"/> Hive	3.0.0.3.1	Data warehouse system for ad-hoc queries & analysis of large datasets and table & storage management service
<input checked="" type="checkbox"/> HBase	2.0.0.3.1	Non-relational distributed database and centralized service for configuration management & synchronization
<input checked="" type="checkbox"/> ZooKeeper	3.6.3.3.1	Centralized service which provides highly reliable distributed coordination
<input type="checkbox"/> Storm	1.2.1	Apache Hadoop Stream processing framework
<input checked="" type="checkbox"/> Infra Solr	0.1.0	Core shared service used by Starry managed components.
<input checked="" type="checkbox"/> Starry Metrics	0.1.0	A system for metrics collection that provides storage and retrieval capability for metrics collected from the cluster
<input checked="" type="checkbox"/> Atlas	1.1.0	Atlas Metadata and Governance platform
<input checked="" type="checkbox"/> Kafka	1.0.0.3.1	A high-throughput distributed messaging system
<input type="checkbox"/> Log Search		Real-time search and visualization for Starry managed services. This service is Technical Preview.
<input type="checkbox"/> Ranger	1.2.0.3.1	Comprehensive security for Hadoop
<input type="checkbox"/> Ranger KMS	1.2.0	Key Management Server
<input checked="" type="checkbox"/> Spark2	2.3.0	Apache Spark 2.3 is a fast and general engine for large-scale data processing.
<input checked="" type="checkbox"/> Clickhouse	21.3.4.25	open source distributed column-oriented DBMS.
<input checked="" type="checkbox"/> Flink	1.10.0	Apache Flink 1.10.0 is a framework and distributed processing engine for stateful computations over unbounded and bounded data streams.
<input checked="" type="checkbox"/> Flink-1.11.2	1.11.2	Apache Flink 1.11.2 is a framework and distributed processing engine for stateful computations over unbounded and bounded data streams.
<input checked="" type="checkbox"/> Flink-1.12	1.12	Apache Flink 1.12 is a framework and distributed processing engine for stateful computations over unbounded and bounded data streams.
<input type="checkbox"/> Hudi	0.8.0	Apache Hudi ingests and manages storage of large analytical datasets over DFS (hdfs or cloud stores).
<input checked="" type="checkbox"/> Hue	4.10.0	Hue is a graphical user interface to operate and develop applications for Apache Hadoop.
<input checked="" type="checkbox"/> Iceberg	0.11.0	Apache Iceberg is an open table format for huge analytic datasets.
<input type="checkbox"/> Kafka2	2.7.0	Apache Kafka is an open-source distributed event streaming platform used by thousands of companies for high-performance data pipelines, streaming analytics, data integration, and mission-critical applications.
<input checked="" type="checkbox"/> Kudu	1.7.0	Apache Kudu is an open source distributed data storage engine that makes fast analytics on fast and changing data easy.
<input checked="" type="checkbox"/> Presto	0.257	Presto is an open source distributed SQL query engine for running interactive analytic queries against data sources of all sizes ranging from gigabytes to petabytes.
<input checked="" type="checkbox"/> Spark3	3.0.2	Apache Spark 3.0.2 is a fast and general engine for large-scale data processing.
<input checked="" type="checkbox"/> Trino	358	Trino is an open source distributed SQL query engine for running interactive analytic queries against data sources of all sizes ranging from gigabytes to petabytes.

取消 后退 下一步

按照前期规划，配置服务所在节点

NameNode:	master1.emr.local (15.5 GB, 8 cores)
SNameNode:	master2.emr.local (15.5 GB, 8 cores)
ResourceManager:	master1.emr.local (15.5 GB, 8 cores)
Timeline Service V2 Reader:	master1.emr.local (15.5 GB, 8 cores)
YARN Registry DNS:	master1.emr.local (15.5 GB, 8 cores)
Timeline Service V1.5:	master2.emr.local (15.5 GB, 8 cores)
History Server:	master2.emr.local (15.5 GB, 8 cores)
Hive Metastore:	master2.emr.local (15.5 GB, 8 cores)
HiveServer2:	master2.emr.local (15.5 GB, 8 cores)
HBase Master:	master1.emr.local (15.5 GB, 8 cores)
ZooKeeper Server:	node1.emr.local (15.5 GB, 8 cores)
ZooKeeper Server:	master1.emr.local (15.5 GB, 8 cores)
ZooKeeper Server:	master2.emr.local (15.5 GB, 8 cores)
Infra Solr Instance:	master1.emr.local (15.5 GB, 8 cores)
Metrics Collector:	node1.emr.local (15.5 GB, 8 cores)
Grafana:	master1.emr.local (15.5 GB, 8 cores)

master1.emr.local (15.5 GB, 8 cores)  
 NameNode ResourceManager Timeline Service V2.0 Reader YARN Registry DNS  
 HBase Master ZooKeeper Server Infra Solr Instance Grafana Atlas Metadata Server  
 Kafka Broker Ranger KMS Server Spark2 History Server Spark3 History Server  
 Hue Server Clickhouse Server Presto coordinator Trino coordinator Kudu Master

master2.emr.local (15.5 GB, 8 cores)  
 SNameNode Timeline Service V1.5 History Server Hive Metastore HiveServer2  
 ZooKeeper Server Ranger UserSync Ranger Admin

node1.emr.local (15.5 GB, 8 cores)  
 ZooKeeper Server Metrics Collector

不安全 | master1.emr.local:8080/#/installer/step6

安装程序

分配Slave和Client

将Slave和Client分配给需要运行它们的主机，被分配Master的主机将显示 \*

\*客户端\*待安装 HDFS Client, YARN Client, MapReduce2 Client, Tez Client, Hive Client, HBase Client, ZooKeeper Client, Infra Solr Client, Atlas Metadata Client, Spark2 Client, Clickhouse Client, Flink Client, Flink Client 1.11.2, Flink Client 1.12, Iceberg Client, Kudu Client, Presto Client, Spark3 Client Trino command line interface.

主机	全选   清空	全选   清空	全选   清空	全选   清空	全选   清空	全选   清空	全选   清空	全选   清空	全选   清空	全选   清空	全选   清空	全选   清空	全选   清空
master1.emr.local*	<input type="checkbox"/> DataNode	<input type="checkbox"/> NFSGateway	<input type="checkbox"/> NodeManager	<input type="checkbox"/> RegionServer	<input type="checkbox"/> Phoenix Query Server	<input type="checkbox"/> Livy for Spark2 Server	<input type="checkbox"/> Spark2 Thrift Server	<input type="checkbox"/> Kudu Slave	<input type="checkbox"/> Presto worker	<input type="checkbox"/> Livy for Spark3 Server	<input type="checkbox"/> Spark3 Thrift Server	<input type="checkbox"/> Trino worker	<input type="checkbox"/> Client
master2.emr.local*	<input type="checkbox"/> DataNode	<input type="checkbox"/> NFSGateway	<input type="checkbox"/> NodeManager	<input type="checkbox"/> RegionServer	<input type="checkbox"/> Phoenix Query Server	<input type="checkbox"/> Livy for Spark2 Server	<input type="checkbox"/> Spark2 Thrift Server	<input type="checkbox"/> Kudu Slave	<input type="checkbox"/> Presto worker	<input type="checkbox"/> Livy for Spark3 Server	<input type="checkbox"/> Spark3 Thrift Server	<input type="checkbox"/> Trino worker	<input type="checkbox"/> Client
node1.emr.local*	<input checked="" type="checkbox"/> DataNode	<input type="checkbox"/> NFSGateway	<input checked="" type="checkbox"/> NodeManager	<input type="checkbox"/> RegionServer	<input type="checkbox"/> Phoenix Query Server	<input type="checkbox"/> Livy for Spark2 Server	<input type="checkbox"/> Spark2 Thrift Server	<input checked="" type="checkbox"/> Kudu Slave	<input checked="" type="checkbox"/> Presto worker	<input type="checkbox"/> Livy for Spark3 Server	<input type="checkbox"/> Spark3 Thrift Server	<input checked="" type="checkbox"/> Trino worker	<input type="checkbox"/> Client

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7) 自定义服务  
8) 检查  
9) 安装、启动和测试  
10) 总结

取消 后退 下一步

不安全 | master1.emr.local:8080/#/installer/step7

安装程序

账户设置 —— 数据库 —— 目录设置 —— 服务账户 —— 所有配置

提供这些服务的凭据

	用户名*	密码*	确认密码*
Hive Database	app	*****	*****
Grafana Admin	admin	*****	*****

app@1298  
admin

7) 检查  
8) 安装、启动和测试  
10) 总结

取消 后退 下一步

依次修改各个服务的配置，以HDFS为例：



安装程序

账户设置 —— 数据库 —— 目录设置 —— 服务账户 —— 所有配置

HDFS YARN MAPREDUCE2 TEZ **HIVE** HBASE ZOOKEEPER INFRA SOLR STARRY METRICS ATLAS KAFKA RANGER RANGER KMS SPARK2 CLICKHOUSE FLINK F1

Default (3) heap

33)

基础配置 数据库配置 高级配置

Optimization 推荐配置过大，按需修改下

HiveServer2 Heap Size: 500MB  
Metastore Heap Size: 1980MB

33)

安装程序

检查

请检查安装前的配置

Admin Name: admin  
Cluster Name: SHUXI  
Total Hosts: 3 (3 new)  
库:  
redhat7 (EMR-3.1)  
http://master1.emr.local/EMR/centos7/3.1.0-7/  
redhat7 (EMR-UTILS-1.1.0.22)  
http://master1.emr.local/EMR-UTILS-1.1.0.22/centos7/1.1.0.22/  
服务管理:

YARN  
DataNode: 1 host  
NameNode: master1.emr.local  
NFSGateway: 0 host  
NNNameNode: master2.emr.local  
YARN + MapReduce2  
Timeline Service V1.5: master2.emr.local  
NodeManager: 1 host  
ResourceManager: master1.emr.local  
Timeline Service V2.0 Reader: master2.emr.local  
Resolv DNS: master2.emr.local

33)

通过 生成蓝图 打印 关闭

33)

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Shell | 复制代码

```
1 注意事项:  
2 1.数据库: hive的元数据库配置增加参数  
3 ?characterEncoding=utf8&useSSL=false  
4  
5 2.目录配置: 各个服务  
6 调整数据目录和日志目录  
7  
8 3.所有配置:  
9 hive配置中jvm配置不合理, 默认配置非常大, 注意修改  
10 hive配置中高级配置搜索hive.security.authorization.enabled, 去掉该配置。 (影响创建  
函数)  
11 spark配置中搜索spark.ranger.enable, 去掉该配置 (来回点几次, 默认值展示有问题)  
12
```

Shell | 复制代码

```
1 use hive;  
2 alter table COLUMNS_V2 modify column COMMENT varchar(256) character set utf  
8;  
3 alter table TABLE_PARAMS modify column PARAM_VALUE varchar(4000) character  
set utf8;  
4 alter table PARTITION_PARAMS modify column PARAM_VALUE varchar(4000) chara  
cter set utf8;  
5 alter table PARTITION_KEYS modify column PKEY_COMMENT varchar(4000) charac  
ter set utf8;  
6 alter table INDEX_PARAMS modify column PARAM_VALUE varchar(4000) charact  
er set utf8;  
7 alter table COLUMNS_V2 modify column COLUMN_NAME varchar(767) character set  
utf8;
```

Bash | 复制代码

```
1 # EMR安装后HDFS和YARN相关监控指标无法显示问题, 可以按如下操作修复。  
2 在HDFS -> Advanced core-site  
3 hadoop.http.authentication.simple.anonymous.allowed=true  
4 在HDFS -> Custom core-site  
5 hadoop.http.authentication.type=simple  
6 hadoop.proxyuser.HTTP.groups=*<br/>  
7 set hadoop.proxyuser.knox.groups=*<br/>  
8 set hadoop.proxyuser.knox.hosts=*<br/>  
9 set hadoop.proxyuser.yarn.hosts=*
```