

ds集群安装

原创

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订阅专栏

1.配置机器间无密码访问

1.1在主节点机器上执行一下命令, 创建专用及公用加密密钥, 输入一下命令后, 需要按enter键2次:

```
ssh-keygen-b 1024 -t rsa -f ~/.ssh/id_rsa
```

```
[dsadm@redhat ~]$ mkdir .ssh
[dsadm@redhat ~]$ ssh-keygen -b 1024 -t rsa -f ~/.ssh/id_rsa
Generating public/private rsa key pair.
Enter passphrase (empty for no passphrase):
Enter same passphrase again:
Your identification has been saved in /home/dsadm/.ssh/id_rsa.
Your public key has been saved in /home/dsadm/.ssh/id_rsa.pub.
The key fingerprint is:
1e:e0:8c:30:5c:8d:1e:44:5d:32:76:34:d2:5c:69:73 dsadm@redhat
The key's randomart image is:
+--[ RSA 1024 ]-----+
  O+=+==...
  .O.O=O.+ E
  +. . . . O
  O.+ .
  . O S
  .
  .
```

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1.2将生成的文件id_rsa.pub, copy到机器从节点机器上相同目录下, 执行以下命令copy

```
cd ~/.ssh
```

```
scp id_rsa.pub user@hostname: ~/.ssh
```

注意使用hostname参数时, /etc/hosts文件已经配置好对应的ip ~: 代表/home/user路径, 执行scp命令的时候, 需要输入用户的密码

1.3登录从节点机器, 在~/.ssh下, 将公有的加密密钥添加到授权密钥列表, 对集群的每个从节点执行一下命令(ds用户):

```
cd .ssh
```

```
cat id_rsa.pub >> authorized_keys authorized_keys文件因为ssh版本的不同还有可能是authorized_keys2
```

```
chmod 640 authorized_keys
```

```
rm -f id_rsa.pub
```

1.4在主节点上执行命令测试是否可以无密码访问：`sshhostname`

2.安装标准安装步骤安装ds服务器，详细安装步骤请参考：[ds安装文档](#)。

3.将安装好的的主机上面的InformationServer文件夹，打包，copy到从节点上。执行一下命令：

```
tar zcvf InformationServer.tar InformationServer
```

```
scp InformationServer.tar dsadm@hostname:/ds_path
```

4.登录从节点，解压开tar包

```
tarxvf InformationServer.tar
```

5.启动从节点服务(注意启动dsnode的时候使用的用户是root、dsrpc是dsadm,注意服务的启动顺序)

```
cd$ds_path/InformationServer/ASBNode/bin
```

```
./NodeAgents.shstart
```

```
cd $ds_path/InformationServer/Server/DSEngine/bin/
```

```
./uv-admin -start
```

6.如果集群使用了oracle服务器，需要修改配置文件remcp.example及remsh.example:

需要将2分文件备份，然后将remcp.example重命名为remcp，将remsh.example重命名为remsh.example,修改remsh文件，将文件的rsh修改成ssh，赋予2个文件755权限。

```
cd$ds_path/InformationServer/Server/PXEngine/etc
```

```
cp remcp.example remcp.example_bak_date date为当前时间戳
```

```
cpremsh.example remsh.example_bak_date
```

```
mv remcp.example remcp
```

```
mv remsh.example remsh
```

```
vi remsh
```

```
[dsadm@redhat etc]$ cat remsh.example
#!/bin/sh
# Example $APT_ORCHHOME/etc/remsh
exec /usr/bin/ssh $@
```

7.修改default.apt文件，添加从节点配置信息，注意修改前，需要将源文件备份，备份规则参看步骤7；

```
cd$ds_path//InformationServer/Server/Configurations/
```

```
cp default.apt default.apt_bakdate
```

```
dsadm@redhat Configurations]$ cat default.apt
{
  node "node1"
  {
    fastname "redhat1"
    pools ""
    resource disk "/opt/IBM/InformationServer/Server/Datasets" {pools ""}
    resource scratchdisk "/opt/IBM/InformationServer/Server/Scratch" {pools ""}
  }
  node "node2"
  {
    fastname "redhat2"
    pools ""
    resource disk "/opt/IBM/InformationServer/Server/Datasets" {pools ""}
    resource scratchdisk "/opt/IBM/InformationServer/Server/Scratch" {pools ""}
  }
  node "node3"
  {
    fastname "redhat3"
    pools ""
    resource disk "/opt/IBM/InformationServer/Server/Datasets" {pools ""}
    resource scratchdisk "/opt/IBM/InformationServer/Server/Scratch" {pools ""}
  }
}
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```

8.ds集群测试，测试分为2种，使用MKSKorn shell或者是IBM InfoSphereDataStage Designer 客户机测试

8.1MKSKorn shell方式测试:

创建测试使用的test.apt文件

创建测试使用的环境变量test.env:

```
#!/bin/bash
```

```
exportAPT_ORCHHOME="C:/IBM/InformationServer/Server/PXEngine"
```

```
exportAPT_CONFIG_FILE="C:/IBM/InformationServer/Server/Configurations/test.apt"
```

```
exportPATH="$APT_ORCHHOME/bin;$PATH"
```

```
exportAPT_PM_SHOWRSH=1
```

```
exportAPT_PM_NOWIATPID=1
```

注意:实际的文件的了路径

执行命令: ksh

```
ksh
```

执行命令，激活环境变量

```
../test.env
```

执行命令osh，测试ds集群，如果作业成功，将会有十行返回值:

```
osh"generator -schema record(a:int32) |peek"
```

```
##I IIS-DSEE-TOPK-00003 12:38:42 (000) <peek,0> 0
##I IIS-DSEE-TOPK-00003 12:38:42 (001) <peek,0> 3
##I IIS-DSEE-TOPK-00003 12:38:42 (002) <peek,0> 6
##I IIS-DSEE-TOPK-00003 12:38:42 (001) <peek,2> 2
##I IIS-DSEE-TOPK-00003 12:38:42 (002) <peek,2> 5
##I IIS-DSEE-TOPK-00003 12:38:42 (003) <peek,2> 8
##I IIS-DSEE-TOPK-00003 12:38:42 (003) <peek,0> 9
##I IIS-DSEE-TOPK-00003 12:38:42 (001) <peek,1> 1
##I IIS-DSEE-TOPK-00003 12:38:42 (002) <peek,1> 4
##I IIS-DSEE-TOPK-00003 12:38:42 (003) <peek,1> 7
##I IIS-DSEE-IFSC-00010 12:38:42 (016) <main_program> Step |execution finished with status |OK.00n
##I IIS-DSEE-TCOS-00026 12:38:42 (017) <main_program> Startup time, 0:00; production run time, 0:00.
```

8.2 IBM InfoSphere DataStage Designer 客户机测试

登录Administrator 客户机，创建ds工程，指定工程的目录是集群机器的共享目录

登录Designer 客户机，创建一个新的paranel job，使用Column Generator、transformer、peek组件，配置成一个新的作业，注意作业需要引用\$APT_CONFIG_FILE环境变量

编译作业，执行作业。