# 添加第三站点SQLDR

日期：2021/04/22

## 虚拟机硬件配置

|  |  |  |  |
| --- | --- | --- | --- |
| **描述** | **盘符** | **空间大小** | **VMware虚拟化磁盘文件位置** |
| 系统盘 | C: | 200GB | [HDS\_2TB\_192.168.10.71] HIS-SQLDR/HIS-SQLDR.vmdk |
| DATA | D: | 1024GB | [HDS\_2TB\_192.168.10.71] HIS-SQLDR/HIS-SQLDR\_1.vmdk |
| LOG | E: | 400GB | [Local\_192.168.10.71] HIS-SQLDR/HIS-SQLDR.vmdk |
| TempDB | Z: | 400GB | [Local\_192.168.10.71] HIS-SQLDR/HIS-SQLDR\_1.vmdk |





## 数据库路径

D:\HIS\_DATA

D:\HIS\_Log

D:\HIS\_TempDB

D:\Backup

## IP地址配置：

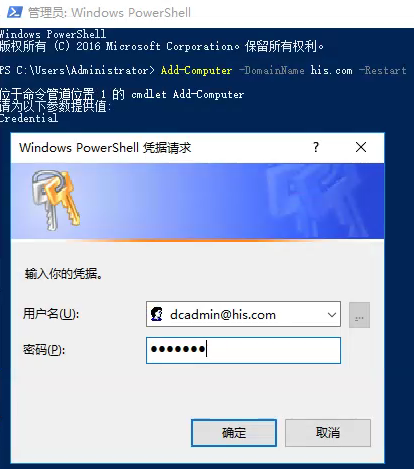


## SQLDR修改主机名，加入域控制器（192.168.10.59）

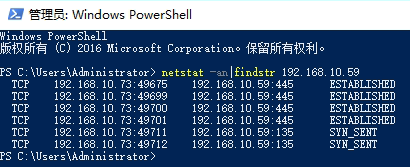
Rename-Computer -NewName SQLDR -Restart

Add-Computer -DomainName his.com -Restart

身份认证：[dcadmin@his.com](mailto:dcadmin@his.com)，密码：123zx,.

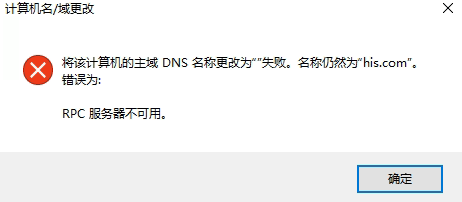


### 4.1、加入不了域控，可能因为防火墙端口限制：



RPC：TCP: 135

SMB：TCP: 445



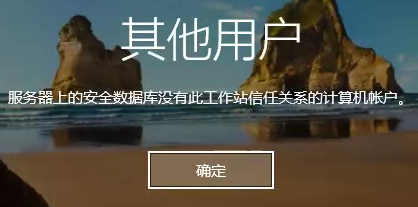
### 4.2、有关AD域控的服务端口：

**Active Directory and Active Directory Domain Services Port Requirements：**

<https://docs.microsoft.com/en-us/previous-versions/windows/it-pro/windows-server-2008-R2-and-2008/dd772723(v=ws.10)>

<https://social.technet.microsoft.com/Forums/zh-CN/2f9131ea-5d9f-4e12-9f05-17ef39c0babc/22495255112104622120368903680738450287792268123545228062145724?forum=winserver8zhcn>

服务器上的安全数据库没有此工作站信任关系的计算机账户

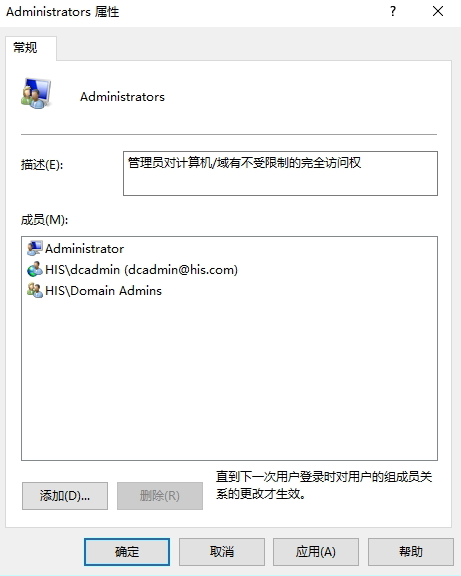


# 加入域控，需要开通访问AD服务器的TCP445端口

# 禁用TCP/IP上的NetBIOS

### 4.3、将dcadmin@his.com加入本地Administrator组中。

以administrator管理员身份登录SQLDR，将dcadmin@his.com加入本地Administrators组中。



## 远程安装集群节点的windows组件：

### 5.1、安装.Net 3.0（可在AD域控上远程安装）

|  |
| --- |
| Install-WindowsFeature -Name Net-Framework-Core -source D:\sources\sxs -ComputerName SQLDR  Install-WindowsFeature -Name PowerShell-V2 -source D:\sources\sxs -ComputerName SQLDR  Get-WindowsFeature \*Framework-Core\* -ComputerName SQLDR |
| SQLDR上开放：TCP:5985 |

### 5.2、安装配置WSFC集群（在AD域控上远程安装）

|  |
| --- |
| Install-WindowsFeature -Name Failover-Clustering -IncludeManagementTools -ComputerName SQLDR  Get-WindowsFeature -Name "Failover-Clustering", "Telnet-Client" | Install-WindowsFeature -IncludeManagementTool -ComputerName SQLDR  Add-WindowsFeature -Name RSAT-Clustering-AutomationServer -ComputerName SQLDR  Add-WindowsFeature -Name RSAT-Clustering-CmdInterface -ComputerName SQLDR  Add-WindowsFeature -Name RSAT-Clustering-PowerShell -ComputerName SQLDR  Add-WindowsFeature -Name RSAT-Clustering-Mgmt -ComputerName SQLDR  Get-WindowsFeature \*Cluster\* -ComputerName SQLDR  get-windowsfeature Failover\* -ComputerName SQLDR |
|  |

### 5.3、添加集群节点

|  |
| --- |
| Get-Cluster –Name cluster | Add-ClusterNode –Name SQLDR |

## 防火墙配置脚本：

|  |
| --- |
| netsh advfirewall firewall add rule name="SQL Server (TCP:1433)" dir=in localport=1433 protocol=TCP action=allow  netsh advfirewall firewall add rule name="SQL Admin Connect (TCP:1434)" dir=in localport=1434 protocol=TCP action=allow  netsh advfirewall firewall add rule name="SQL Browser (UDP:1434)" dir=in localport=1434 protocol=UDP action=allow  netsh advfirewall firewall add rule name="SQL Debugger/RPC(TCP:135)" dir=in localport=135 protocol=TCP action=allow  netsh advfirewall firewall add rule name="SQL Always On (TCP:5022)" dir=in localport=5022 protocol=TCP action=allow  netsh advfirewall firewall add rule name="SQL Service Broker (TCP:4022)" dir=in localport=5022 protocol=TCP action=allow  netsh advfirewall firewall add rule name="Medical File Service （TCP:6234）" dir=in localport=6234 protocol=TCP action=allow  netsh advfirewall firewall add rule name="SNMP(UDP:161)" dir=in localport=161 protocol=UDP action=allow  netsh advfirewall firewall add rule name="Iperf Inbound Port 5001~5099" dir=in localport=5001-5099 protocol=TCP action=allow  netsh advfirewall firewall add rule name="Cluster Communication" dir=in action=allow enable=yes remoteip=192.168.10.56-192.168.10.60,192.168.10.73,192.168.10.74  netsh advfirewall set allprofiles state on  netsh firewall set logging %systemroot%system32LogFilesFirewallpfirewall.log 32767 ENABLE |
|  |

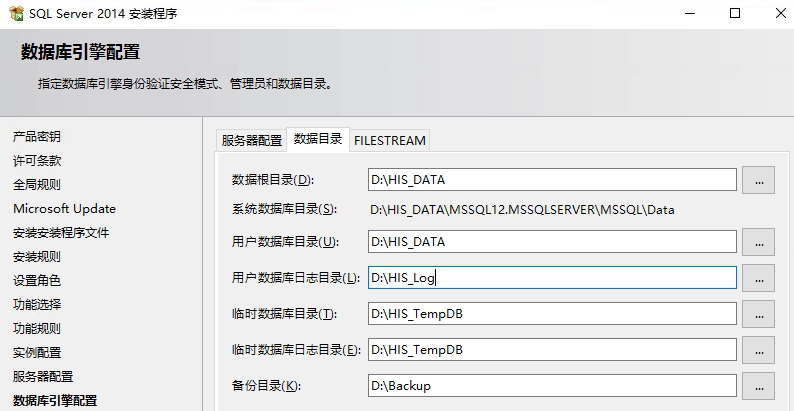
## 安装SQL2014与SP3

### 7.1、查询新盘，使其联机并且初始化：

|  |
| --- |
| Get-Disk  Get-Disk | Where-Object { $\_.FriendlyName -like " VMware\*" }  Set-Disk -Number 1 -IsOffline $false  Set-Disk -Number 2 -IsOffline $false  Set-Disk -Number 3 -IsOffline $false  Initialize-Disk -Number 1  Initialize-Disk -Number 2  Initialize-Disk -Number 3  Set-Disk -Number 4 -IsOffline $true  Set-Disk -Number 5 -IsOffline $true  the System data files (master, model, msdb) and tempdb. |

### 7.2、安装SQL Server 2014：





D:\HIS\_DATA

D:\HIS\_Log

D:\HIS\_TempDB

D:\Backup

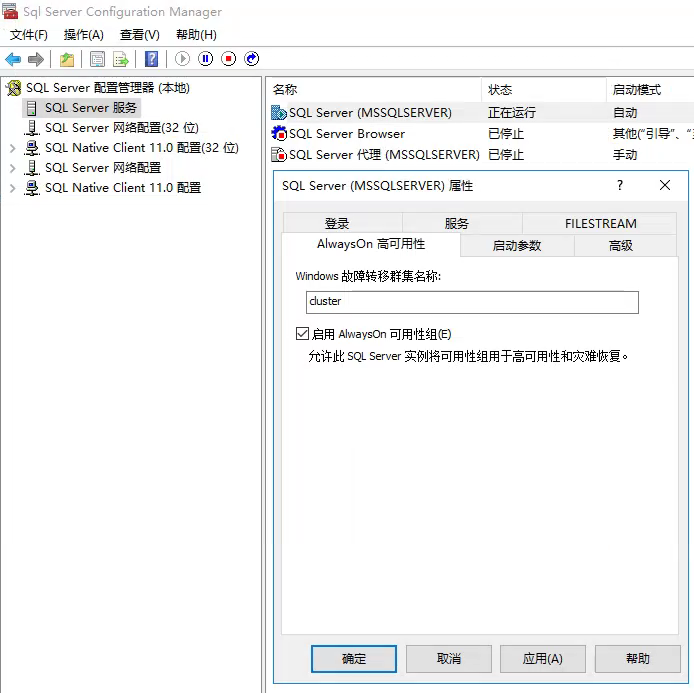
### 7.3、接着安装SP3、SSMS



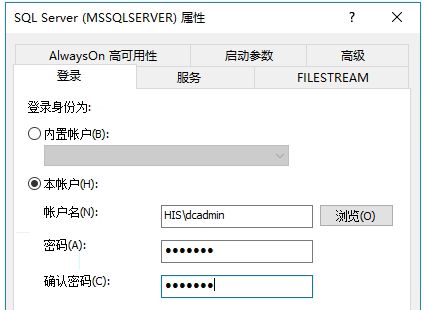
## 配置并启用AlwaysOn

### 8.1、启用SQLDR上的AlwaysOn

打开SQLServer2014管理配置器，配置如下



修改SQLServer实例启动账户为HIS\dcadmin： 123zx,.

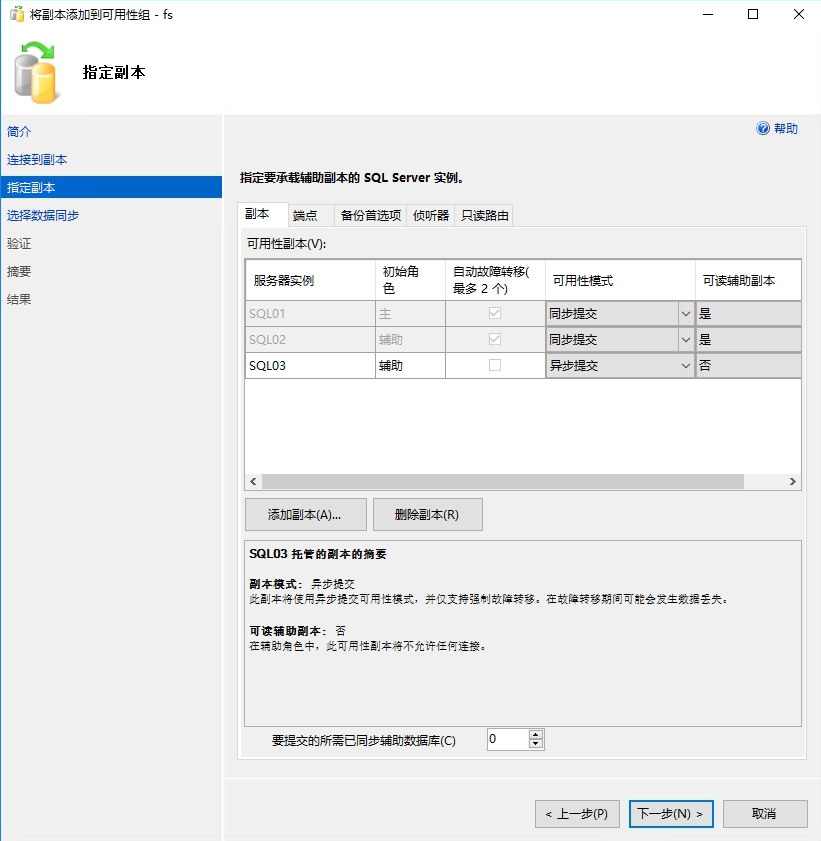


会要求重启服务，重启即可。

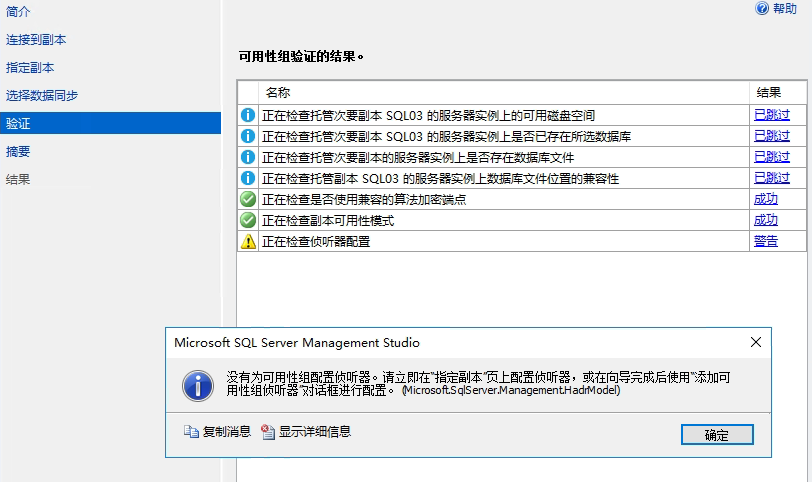
重启后，确认服务属性，

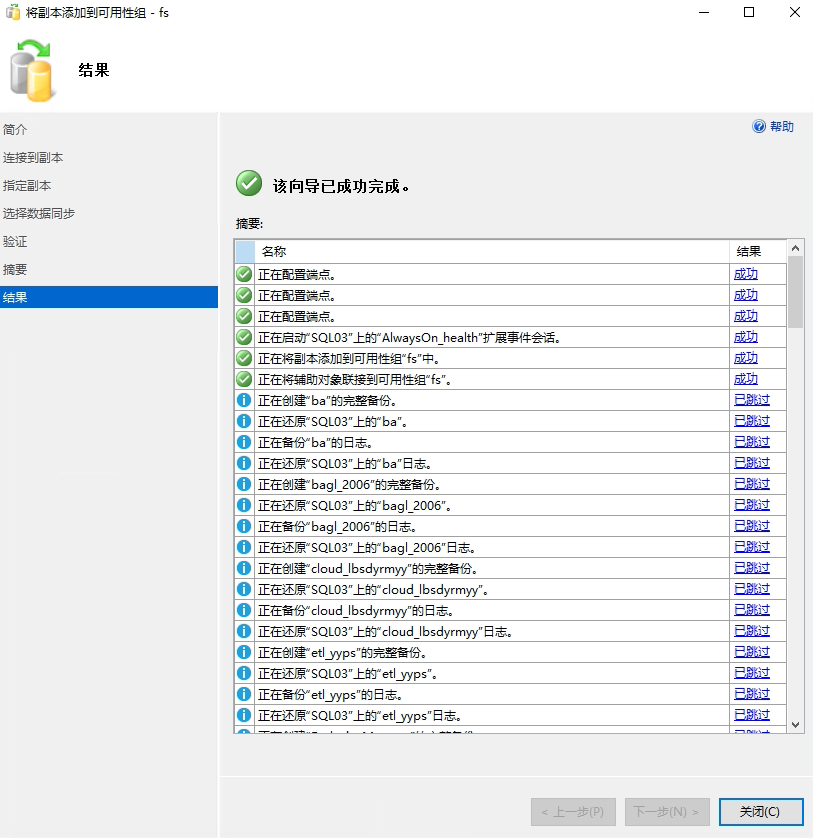


### 8.2、添加副本：SQLDR



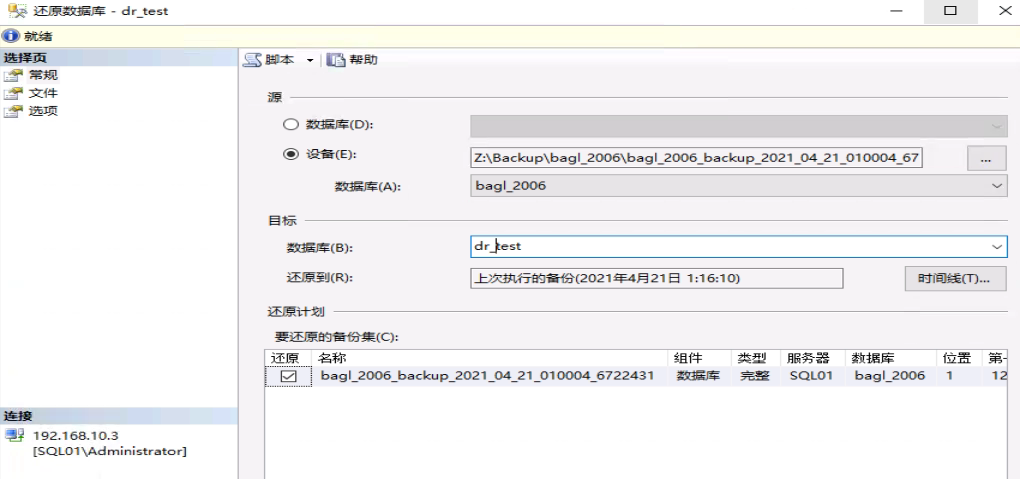






## 跑一下流程：还原1个测试库（test）

### 9.1、还原一个测试库dr\_test

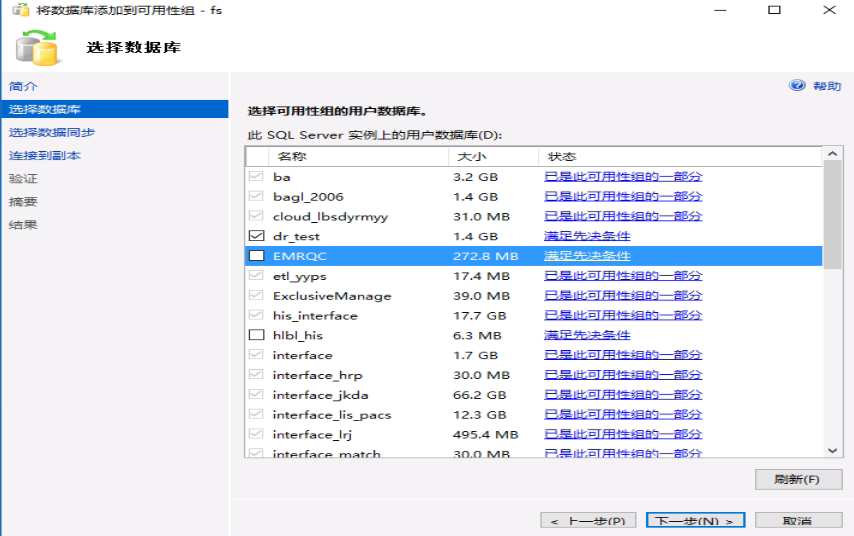


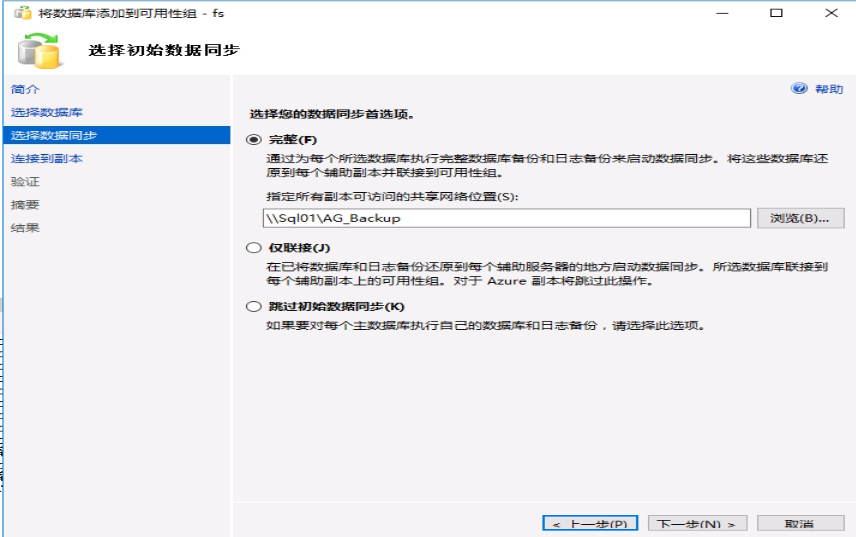
|  |
| --- |
| USE [master]  RESTORE DATABASE [dr\_test] FROM DISK = N'Z:\Backup\bagl\_2006\bagl\_2006\_backup\_2021\_04\_21\_010004\_6722431.bak' WITH FILE = 1, MOVE N'bagl\_2006\_Data' TO N'D:\HIS\_DATA\dr\_test.mdf', MOVE N'bagl\_2006\_Log' TO N'E:\HIS\_Log\dr\_test\_1.ldf', NOUNLOAD, STATS = 5  GO |

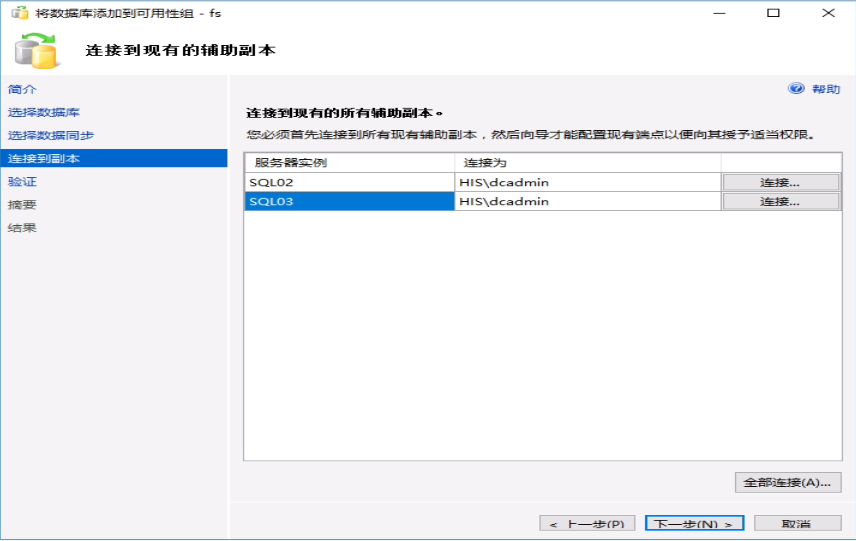
### 9.2、将测试库dr\_test添加到可用性组中：

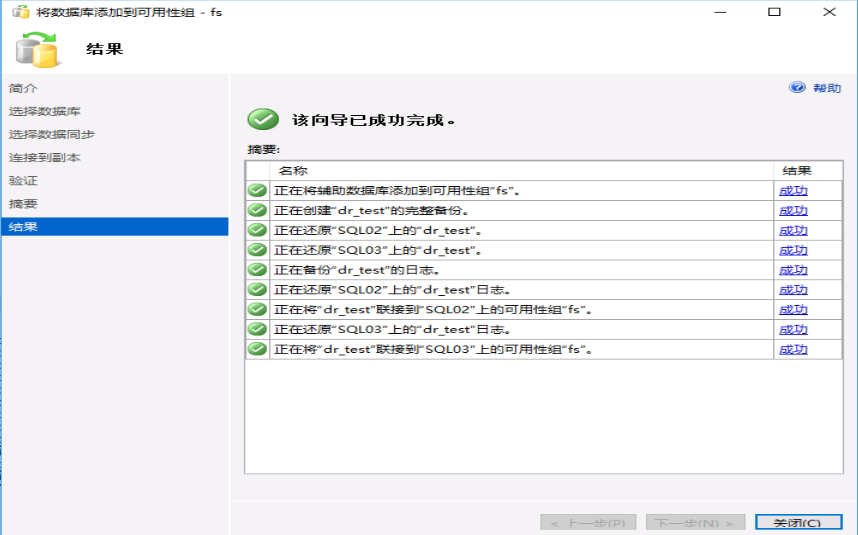
BACKUP DATABASE [dr\_test] TO DISK = N'E:\AG\_Backup\dr\_test' WITH NOFORMAT, NOINIT, NAME = N'dr\_test-完整 数据库 备份', SKIP, NOREWIND, NOUNLOAD, STATS = 10

GO









## 正式部署SQLDR的数据库

老服务器做的HIS镜像，库要全。

打虚拟资源池做个HIS镜像，以后当10.27用。只要zy、mz、jc、ba和所有interface开头的库就行

### 10.1、自动生成备份脚本，在SQL01上做备份

|  |
| --- |
| #coding:utf-8  import pymssql  # 连接SQL SERVER服务器  host, user, password, database = '192.168.10.56', 'HIS\dcadmin', '123zx,.', 'master'  conn = pymssql.connect(host, user, password, database) #获取连接  cursor = conn.cursor() # 获取光标  # 获取系统数据库的集合  # sql = "select count(\*) from uh\_portal\_system\_version\_info"  # sql = "select @@version"  # sql = "select \* from master.sys.availability\_replicas"  sql = "select name from sysdatabases"  cursor.execute(sql)  row = cursor.fetchall()  db\_set = set()  for i in row:  db\_set.add(i[0])  sys\_db = {'master', 'tempdb', 'model', 'msdb', 'distribution'}  db\_set = db\_set - sys\_db  db\_list = list(db\_set)  db\_list.sort()  print(len(db\_list), '\n\n', str(db\_list), '\n\n')  # NO\_COMPRESSION COMPRESSION  backup = """-- %num、备份数据库：%s  USE %s;  GO  BACKUP DATABASE %s  TO DISK = 'E:\AG\_Backup\%s.Bak'  WITH FORMAT, NO\_COMPRESSION,  NAME = 'Full Backup of %s';  GO  BACKUP LOG %s  TO DISK = 'E:\AG\_Backup\%s\_TLOG.Bak'  WITH FORMAT, NO\_COMPRESSION,  NAME = 'TLOG Backup of %s';  GO  """  sql = ''  for n, i in enumerate(db\_list, start=1):  sql += backup.replace('%s', i).replace('%num', str(n))  print(sql) |
| 38  ['EMRQC', 'ExclusiveManage', 'NSHIS\_WLPT', 'NSHIS\_YYPT', 'XHIS\_interface', 'YDYL', 'ba', 'bagl\_2006', 'cloud\_lbsdyrmyy', 'dr\_test', 'etl\_yyps', 'his\_interface', 'hlbl\_his', 'interface', 'interface\_Ychz', 'interface\_hrp', 'interface\_jkda', 'interface\_lis\_pacs', 'interface\_lrj', 'interface\_match', 'interface\_quyiwang', 'interface\_yyps', 'jc', 'jc\_bz', 'jjhs', 'jkda\_interface', 'ldcx', 'mz', 'pw', 'rs', 'sbgl', 'sjbf', 'xtwh', 'yj', 'ys', 'yw', 'zy', 'zy\_dzbl\_zhshk']  -- 1、备份数据库：EMRQC  USE EMRQC;  GO  BACKUP DATABASE EMRQC  TO DISK = 'E:\AG\_Backup\EMRQC.Bak'  WITH FORMAT, NO\_COMPRESSION,  NAME = 'Full Backup of EMRQC';  GO  BACKUP LOG EMRQC  TO DISK = 'E:\AG\_Backup\EMRQC\_TLOG.Bak'  WITH FORMAT, NO\_COMPRESSION,  NAME = 'TLOG Backup of EMRQC';  GO  -- 2、备份数据库：ExclusiveManage  USE ExclusiveManage;  GO  BACKUP DATABASE ExclusiveManage  TO DISK = 'E:\AG\_Backup\ExclusiveManage.Bak'  WITH FORMAT, NO\_COMPRESSION,  NAME = 'Full Backup of ExclusiveManage';  GO  BACKUP LOG ExclusiveManage  TO DISK = 'E:\AG\_Backup\ExclusiveManage\_TLOG.Bak'  WITH FORMAT, NO\_COMPRESSION,  NAME = 'TLOG Backup of ExclusiveManage';  GO  -- 3、备份数据库：NSHIS\_WLPT  USE NSHIS\_WLPT;  GO  BACKUP DATABASE NSHIS\_WLPT  TO DISK = 'E:\AG\_Backup\NSHIS\_WLPT.Bak'  WITH FORMAT, NO\_COMPRESSION,  NAME = 'Full Backup of NSHIS\_WLPT';  GO  BACKUP LOG NSHIS\_WLPT  TO DISK = 'E:\AG\_Backup\NSHIS\_WLPT\_TLOG.Bak'  WITH FORMAT, NO\_COMPRESSION,  NAME = 'TLOG Backup of NSHIS\_WLPT';  GO  -- 4、备份数据库：NSHIS\_YYPT  USE NSHIS\_YYPT;  GO  BACKUP DATABASE NSHIS\_YYPT  TO DISK = 'E:\AG\_Backup\NSHIS\_YYPT.Bak'  WITH FORMAT, NO\_COMPRESSION,  NAME = 'Full Backup of NSHIS\_YYPT';  GO  BACKUP LOG NSHIS\_YYPT  TO DISK = 'E:\AG\_Backup\NSHIS\_YYPT\_TLOG.Bak'  WITH FORMAT, NO\_COMPRESSION,  NAME = 'TLOG Backup of NSHIS\_YYPT';  GO  -- 5、备份数据库：XHIS\_interface  USE XHIS\_interface;  GO  BACKUP DATABASE XHIS\_interface  TO DISK = 'E:\AG\_Backup\XHIS\_interface.Bak'  WITH FORMAT, NO\_COMPRESSION,  NAME = 'Full Backup of XHIS\_interface';  GO  BACKUP LOG XHIS\_interface  TO DISK = 'E:\AG\_Backup\XHIS\_interface\_TLOG.Bak'  WITH FORMAT, NO\_COMPRESSION,  NAME = 'TLOG Backup of XHIS\_interface';  GO  -- 6、备份数据库：YDYL  USE YDYL;  GO  BACKUP DATABASE YDYL  TO DISK = 'E:\AG\_Backup\YDYL.Bak'  WITH FORMAT, NO\_COMPRESSION,  NAME = 'Full Backup of YDYL';  GO  BACKUP LOG YDYL  TO DISK = 'E:\AG\_Backup\YDYL\_TLOG.Bak'  WITH FORMAT, NO\_COMPRESSION,  NAME = 'TLOG Backup of YDYL';  GO  -- 7、备份数据库：ba  USE ba;  GO  BACKUP DATABASE ba  TO DISK = 'E:\AG\_Backup\ba.Bak'  WITH FORMAT, NO\_COMPRESSION,  NAME = 'Full Backup of ba';  GO  BACKUP LOG ba  TO DISK = 'E:\AG\_Backup\ba\_TLOG.Bak'  WITH FORMAT, NO\_COMPRESSION,  NAME = 'TLOG Backup of ba';  GO  -- 8、备份数据库：bagl\_2006  USE bagl\_2006;  GO  BACKUP DATABASE bagl\_2006  TO DISK = 'E:\AG\_Backup\bagl\_2006.Bak'  WITH FORMAT, NO\_COMPRESSION,  NAME = 'Full Backup of bagl\_2006';  GO  BACKUP LOG bagl\_2006  TO DISK = 'E:\AG\_Backup\bagl\_2006\_TLOG.Bak'  WITH FORMAT, NO\_COMPRESSION,  NAME = 'TLOG Backup of bagl\_2006';  GO  -- 9、备份数据库：cloud\_lbsdyrmyy  USE cloud\_lbsdyrmyy;  GO  BACKUP DATABASE cloud\_lbsdyrmyy  TO DISK = 'E:\AG\_Backup\cloud\_lbsdyrmyy.Bak'  WITH FORMAT, NO\_COMPRESSION,  NAME = 'Full Backup of cloud\_lbsdyrmyy';  GO  BACKUP LOG cloud\_lbsdyrmyy  TO DISK = 'E:\AG\_Backup\cloud\_lbsdyrmyy\_TLOG.Bak'  WITH FORMAT, NO\_COMPRESSION,  NAME = 'TLOG Backup of cloud\_lbsdyrmyy';  GO  -- 10、备份数据库：dr\_test  USE dr\_test;  GO  BACKUP DATABASE dr\_test  TO DISK = 'E:\AG\_Backup\dr\_test.Bak'  WITH FORMAT, NO\_COMPRESSION,  NAME = 'Full Backup of dr\_test';  GO  BACKUP LOG dr\_test  TO DISK = 'E:\AG\_Backup\dr\_test\_TLOG.Bak'  WITH FORMAT, NO\_COMPRESSION,  NAME = 'TLOG Backup of dr\_test';  GO  -- 11、备份数据库：etl\_yyps  USE etl\_yyps;  GO  BACKUP DATABASE etl\_yyps  TO DISK = 'E:\AG\_Backup\etl\_yyps.Bak'  WITH FORMAT, NO\_COMPRESSION,  NAME = 'Full Backup of etl\_yyps';  GO  BACKUP LOG etl\_yyps  TO DISK = 'E:\AG\_Backup\etl\_yyps\_TLOG.Bak'  WITH FORMAT, NO\_COMPRESSION,  NAME = 'TLOG Backup of etl\_yyps';  GO  -- 12、备份数据库：his\_interface  USE his\_interface;  GO  BACKUP DATABASE his\_interface  TO DISK = 'E:\AG\_Backup\his\_interface.Bak'  WITH FORMAT, NO\_COMPRESSION,  NAME = 'Full Backup of his\_interface';  GO  BACKUP LOG his\_interface  TO DISK = 'E:\AG\_Backup\his\_interface\_TLOG.Bak'  WITH FORMAT, NO\_COMPRESSION,  NAME = 'TLOG Backup of his\_interface';  GO  -- 13、备份数据库：hlbl\_his  USE hlbl\_his;  GO  BACKUP DATABASE hlbl\_his  TO DISK = 'E:\AG\_Backup\hlbl\_his.Bak'  WITH FORMAT, NO\_COMPRESSION,  NAME = 'Full Backup of hlbl\_his';  GO  BACKUP LOG hlbl\_his  TO DISK = 'E:\AG\_Backup\hlbl\_his\_TLOG.Bak'  WITH FORMAT, NO\_COMPRESSION,  NAME = 'TLOG Backup of hlbl\_his';  GO  -- 14、备份数据库：interface  USE interface;  GO  BACKUP DATABASE interface  TO DISK = 'E:\AG\_Backup\interface.Bak'  WITH FORMAT, NO\_COMPRESSION,  NAME = 'Full Backup of interface';  GO  BACKUP LOG interface  TO DISK = 'E:\AG\_Backup\interface\_TLOG.Bak'  WITH FORMAT, NO\_COMPRESSION,  NAME = 'TLOG Backup of interface';  GO  -- 15、备份数据库：interface\_Ychz  USE interface\_Ychz;  GO  BACKUP DATABASE interface\_Ychz  TO DISK = 'E:\AG\_Backup\interface\_Ychz.Bak'  WITH FORMAT, NO\_COMPRESSION,  NAME = 'Full Backup of interface\_Ychz';  GO  BACKUP LOG interface\_Ychz  TO DISK = 'E:\AG\_Backup\interface\_Ychz\_TLOG.Bak'  WITH FORMAT, NO\_COMPRESSION,  NAME = 'TLOG Backup of interface\_Ychz';  GO  -- 16、备份数据库：interface\_hrp  USE interface\_hrp;  GO  BACKUP DATABASE interface\_hrp  TO DISK = 'E:\AG\_Backup\interface\_hrp.Bak'  WITH FORMAT, NO\_COMPRESSION,  NAME = 'Full Backup of interface\_hrp';  GO  BACKUP LOG interface\_hrp  TO DISK = 'E:\AG\_Backup\interface\_hrp\_TLOG.Bak'  WITH FORMAT, NO\_COMPRESSION,  NAME = 'TLOG Backup of interface\_hrp';  GO  -- 17、备份数据库：interface\_jkda  USE interface\_jkda;  GO  BACKUP DATABASE interface\_jkda  TO DISK = 'E:\AG\_Backup\interface\_jkda.Bak'  WITH FORMAT, NO\_COMPRESSION,  NAME = 'Full Backup of interface\_jkda';  GO  BACKUP LOG interface\_jkda  TO DISK = 'E:\AG\_Backup\interface\_jkda\_TLOG.Bak'  WITH FORMAT, NO\_COMPRESSION,  NAME = 'TLOG Backup of interface\_jkda';  GO  -- 18、备份数据库：interface\_lis\_pacs  USE interface\_lis\_pacs;  GO  BACKUP DATABASE interface\_lis\_pacs  TO DISK = 'E:\AG\_Backup\interface\_lis\_pacs.Bak'  WITH FORMAT, NO\_COMPRESSION,  NAME = 'Full Backup of interface\_lis\_pacs';  GO  BACKUP LOG interface\_lis\_pacs  TO DISK = 'E:\AG\_Backup\interface\_lis\_pacs\_TLOG.Bak'  WITH FORMAT, NO\_COMPRESSION,  NAME = 'TLOG Backup of interface\_lis\_pacs';  GO  -- 19、备份数据库：interface\_lrj  USE interface\_lrj;  GO  BACKUP DATABASE interface\_lrj  TO DISK = 'E:\AG\_Backup\interface\_lrj.Bak'  WITH FORMAT, NO\_COMPRESSION,  NAME = 'Full Backup of interface\_lrj';  GO  BACKUP LOG interface\_lrj  TO DISK = 'E:\AG\_Backup\interface\_lrj\_TLOG.Bak'  WITH FORMAT, NO\_COMPRESSION,  NAME = 'TLOG Backup of interface\_lrj';  GO  -- 20、备份数据库：interface\_match  USE interface\_match;  GO  BACKUP DATABASE interface\_match  TO DISK = 'E:\AG\_Backup\interface\_match.Bak'  WITH FORMAT, NO\_COMPRESSION,  NAME = 'Full Backup of interface\_match';  GO  BACKUP LOG interface\_match  TO DISK = 'E:\AG\_Backup\interface\_match\_TLOG.Bak'  WITH FORMAT, NO\_COMPRESSION,  NAME = 'TLOG Backup of interface\_match';  GO  -- 21、备份数据库：interface\_quyiwang  USE interface\_quyiwang;  GO  BACKUP DATABASE interface\_quyiwang  TO DISK = 'E:\AG\_Backup\interface\_quyiwang.Bak'  WITH FORMAT, NO\_COMPRESSION,  NAME = 'Full Backup of interface\_quyiwang';  GO  BACKUP LOG interface\_quyiwang  TO DISK = 'E:\AG\_Backup\interface\_quyiwang\_TLOG.Bak'  WITH FORMAT, NO\_COMPRESSION,  NAME = 'TLOG Backup of interface\_quyiwang';  GO  -- 22、备份数据库：interface\_yyps  USE interface\_yyps;  GO  BACKUP DATABASE interface\_yyps  TO DISK = 'E:\AG\_Backup\interface\_yyps.Bak'  WITH FORMAT, NO\_COMPRESSION,  NAME = 'Full Backup of interface\_yyps';  GO  BACKUP LOG interface\_yyps  TO DISK = 'E:\AG\_Backup\interface\_yyps\_TLOG.Bak'  WITH FORMAT, NO\_COMPRESSION,  NAME = 'TLOG Backup of interface\_yyps';  GO  -- 23、备份数据库：jc  USE jc;  GO  BACKUP DATABASE jc  TO DISK = 'E:\AG\_Backup\jc.Bak'  WITH FORMAT, NO\_COMPRESSION,  NAME = 'Full Backup of jc';  GO  BACKUP LOG jc  TO DISK = 'E:\AG\_Backup\jc\_TLOG.Bak'  WITH FORMAT, NO\_COMPRESSION,  NAME = 'TLOG Backup of jc';  GO  -- 24、备份数据库：jc\_bz  USE jc\_bz;  GO  BACKUP DATABASE jc\_bz  TO DISK = 'E:\AG\_Backup\jc\_bz.Bak'  WITH FORMAT, NO\_COMPRESSION,  NAME = 'Full Backup of jc\_bz';  GO  BACKUP LOG jc\_bz  TO DISK = 'E:\AG\_Backup\jc\_bz\_TLOG.Bak'  WITH FORMAT, NO\_COMPRESSION,  NAME = 'TLOG Backup of jc\_bz';  GO  -- 25、备份数据库：jjhs  USE jjhs;  GO  BACKUP DATABASE jjhs  TO DISK = 'E:\AG\_Backup\jjhs.Bak'  WITH FORMAT, NO\_COMPRESSION,  NAME = 'Full Backup of jjhs';  GO  BACKUP LOG jjhs  TO DISK = 'E:\AG\_Backup\jjhs\_TLOG.Bak'  WITH FORMAT, NO\_COMPRESSION,  NAME = 'TLOG Backup of jjhs';  GO  -- 26、备份数据库：jkda\_interface  USE jkda\_interface;  GO  BACKUP DATABASE jkda\_interface  TO DISK = 'E:\AG\_Backup\jkda\_interface.Bak'  WITH FORMAT, NO\_COMPRESSION,  NAME = 'Full Backup of jkda\_interface';  GO  BACKUP LOG jkda\_interface  TO DISK = 'E:\AG\_Backup\jkda\_interface\_TLOG.Bak'  WITH FORMAT, NO\_COMPRESSION,  NAME = 'TLOG Backup of jkda\_interface';  GO  -- 27、备份数据库：ldcx  USE ldcx;  GO  BACKUP DATABASE ldcx  TO DISK = 'E:\AG\_Backup\ldcx.Bak'  WITH FORMAT, NO\_COMPRESSION,  NAME = 'Full Backup of ldcx';  GO  BACKUP LOG ldcx  TO DISK = 'E:\AG\_Backup\ldcx\_TLOG.Bak'  WITH FORMAT, NO\_COMPRESSION,  NAME = 'TLOG Backup of ldcx';  GO  -- 28、备份数据库：mz  USE mz;  GO  BACKUP DATABASE mz  TO DISK = 'E:\AG\_Backup\mz.Bak'  WITH FORMAT, NO\_COMPRESSION,  NAME = 'Full Backup of mz';  GO  BACKUP LOG mz  TO DISK = 'E:\AG\_Backup\mz\_TLOG.Bak'  WITH FORMAT, NO\_COMPRESSION,  NAME = 'TLOG Backup of mz';  GO  -- 29、备份数据库：pw  USE pw;  GO  BACKUP DATABASE pw  TO DISK = 'E:\AG\_Backup\pw.Bak'  WITH FORMAT, NO\_COMPRESSION,  NAME = 'Full Backup of pw';  GO  BACKUP LOG pw  TO DISK = 'E:\AG\_Backup\pw\_TLOG.Bak'  WITH FORMAT, NO\_COMPRESSION,  NAME = 'TLOG Backup of pw';  GO  -- 30、备份数据库：rs  USE rs;  GO  BACKUP DATABASE rs  TO DISK = 'E:\AG\_Backup\rs.Bak'  WITH FORMAT, NO\_COMPRESSION,  NAME = 'Full Backup of rs';  GO  BACKUP LOG rs  TO DISK = 'E:\AG\_Backup\rs\_TLOG.Bak'  WITH FORMAT, NO\_COMPRESSION,  NAME = 'TLOG Backup of rs';  GO  -- 31、备份数据库：sbgl  USE sbgl;  GO  BACKUP DATABASE sbgl  TO DISK = 'E:\AG\_Backup\sbgl.Bak'  WITH FORMAT, NO\_COMPRESSION,  NAME = 'Full Backup of sbgl';  GO  BACKUP LOG sbgl  TO DISK = 'E:\AG\_Backup\sbgl\_TLOG.Bak'  WITH FORMAT, NO\_COMPRESSION,  NAME = 'TLOG Backup of sbgl';  GO  -- 32、备份数据库：sjbf  USE sjbf;  GO  BACKUP DATABASE sjbf  TO DISK = 'E:\AG\_Backup\sjbf.Bak'  WITH FORMAT, NO\_COMPRESSION,  NAME = 'Full Backup of sjbf';  GO  BACKUP LOG sjbf  TO DISK = 'E:\AG\_Backup\sjbf\_TLOG.Bak'  WITH FORMAT, NO\_COMPRESSION,  NAME = 'TLOG Backup of sjbf';  GO  -- 33、备份数据库：xtwh  USE xtwh;  GO  BACKUP DATABASE xtwh  TO DISK = 'E:\AG\_Backup\xtwh.Bak'  WITH FORMAT, NO\_COMPRESSION,  NAME = 'Full Backup of xtwh';  GO  BACKUP LOG xtwh  TO DISK = 'E:\AG\_Backup\xtwh\_TLOG.Bak'  WITH FORMAT, NO\_COMPRESSION,  NAME = 'TLOG Backup of xtwh';  GO  -- 34、备份数据库：yj  USE yj;  GO  BACKUP DATABASE yj  TO DISK = 'E:\AG\_Backup\yj.Bak'  WITH FORMAT, NO\_COMPRESSION,  NAME = 'Full Backup of yj';  GO  BACKUP LOG yj  TO DISK = 'E:\AG\_Backup\yj\_TLOG.Bak'  WITH FORMAT, NO\_COMPRESSION,  NAME = 'TLOG Backup of yj';  GO  -- 35、备份数据库：ys  USE ys;  GO  BACKUP DATABASE ys  TO DISK = 'E:\AG\_Backup\ys.Bak'  WITH FORMAT, NO\_COMPRESSION,  NAME = 'Full Backup of ys';  GO  BACKUP LOG ys  TO DISK = 'E:\AG\_Backup\ys\_TLOG.Bak'  WITH FORMAT, NO\_COMPRESSION,  NAME = 'TLOG Backup of ys';  GO  -- 36、备份数据库：yw  USE yw;  GO  BACKUP DATABASE yw  TO DISK = 'E:\AG\_Backup\yw.Bak'  WITH FORMAT, NO\_COMPRESSION,  NAME = 'Full Backup of yw';  GO  BACKUP LOG yw  TO DISK = 'E:\AG\_Backup\yw\_TLOG.Bak'  WITH FORMAT, NO\_COMPRESSION,  NAME = 'TLOG Backup of yw';  GO  -- 37、备份数据库：zy  USE zy;  GO  BACKUP DATABASE zy  TO DISK = 'E:\AG\_Backup\zy.Bak'  WITH FORMAT, NO\_COMPRESSION,  NAME = 'Full Backup of zy';  GO  BACKUP LOG zy  TO DISK = 'E:\AG\_Backup\zy\_TLOG.Bak'  WITH FORMAT, NO\_COMPRESSION,  NAME = 'TLOG Backup of zy';  GO  -- 38、备份数据库：zy\_dzbl\_zhshk  USE zy\_dzbl\_zhshk;  GO  BACKUP DATABASE zy\_dzbl\_zhshk  TO DISK = 'E:\AG\_Backup\zy\_dzbl\_zhshk.Bak'  WITH FORMAT, NO\_COMPRESSION,  NAME = 'Full Backup of zy\_dzbl\_zhshk';  GO  BACKUP LOG zy\_dzbl\_zhshk  TO DISK = 'E:\AG\_Backup\zy\_dzbl\_zhshk\_TLOG.Bak'  WITH FORMAT, NO\_COMPRESSION,  NAME = 'TLOG Backup of zy\_dzbl\_zhshk';  GO |



不压缩备份耗时：22分钟（BAK文件总大小：136GB）

### 10.2、在SQLDR上自动生成还原脚本

|  |
| --- |
| #coding:utf-8  import pymssql  # 连接SQL SERVER服务器  host, user, password, database = '192.168.10.56', 'HIS\dcadmin', '123zx,.', 'master'  conn = pymssql.connect(host, user, password, database) #获取连接  cursor = conn.cursor() # 获取光标  # 获取系统数据库的集合  # sql = "select count(\*) from uh\_portal\_system\_version\_info"  # sql = "select @@version"  # sql = "select \* from master.sys.availability\_replicas"  sql = "select name from sysdatabases"  cursor.execute(sql)  row = cursor.fetchall()  db\_set = set()  for i in row:  db\_set.add(i[0])  sys\_db = {'master', 'tempdb', 'model', 'msdb', 'distribution'}  db\_set = db\_set - sys\_db  db\_list = list(db\_set)  db\_list.sort()  restore = """  -- %num、恢复数据库：%s  RESTORE DATABASE [%s]  FROM DISK = N'\\\\SQL01\AG\_Backup\%s.Bak' WITH  NORECOVERY,  NOUNLOAD,  STATS = 5  GO  RESTORE LOG [%s]  FROM DISK = N'\\\\SQL01\AG\_Backup\%s\_TLOG.Bak' WITH  NORECOVERY,  NOUNLOAD,  STATS = 10  GO  """  sql = """USE [master]  """  for n, i in enumerate(db\_list, start=1):  sql += restore.replace('%s', i).replace('%num', str(n))  print(sql) |
| USE [master]  -- 1、恢复数据库：EMRQC  RESTORE DATABASE [EMRQC]  FROM DISK = N'\\SQL01\AG\_Backup\EMRQC.Bak' WITH  NORECOVERY,  NOUNLOAD,  STATS = 5  GO  RESTORE LOG [EMRQC]  FROM DISK = N'\\SQL01\AG\_Backup\EMRQC\_TLOG.Bak' WITH  NORECOVERY,  NOUNLOAD,  STATS = 10  GO  -- 2、恢复数据库：ExclusiveManage  RESTORE DATABASE [ExclusiveManage]  FROM DISK = N'\\SQL01\AG\_Backup\ExclusiveManage.Bak' WITH  NORECOVERY,  NOUNLOAD,  STATS = 5  GO  RESTORE LOG [ExclusiveManage]  FROM DISK = N'\\SQL01\AG\_Backup\ExclusiveManage\_TLOG.Bak' WITH  NORECOVERY,  NOUNLOAD,  STATS = 10  GO  -- 3、恢复数据库：NSHIS\_WLPT  RESTORE DATABASE [NSHIS\_WLPT]  FROM DISK = N'\\SQL01\AG\_Backup\NSHIS\_WLPT.Bak' WITH  NORECOVERY,  NOUNLOAD,  STATS = 5  GO  RESTORE LOG [NSHIS\_WLPT]  FROM DISK = N'\\SQL01\AG\_Backup\NSHIS\_WLPT\_TLOG.Bak' WITH  NORECOVERY,  NOUNLOAD,  STATS = 10  GO  -- 4、恢复数据库：NSHIS\_YYPT  RESTORE DATABASE [NSHIS\_YYPT]  FROM DISK = N'\\SQL01\AG\_Backup\NSHIS\_YYPT.Bak' WITH  NORECOVERY,  NOUNLOAD,  STATS = 5  GO  RESTORE LOG [NSHIS\_YYPT]  FROM DISK = N'\\SQL01\AG\_Backup\NSHIS\_YYPT\_TLOG.Bak' WITH  NORECOVERY,  NOUNLOAD,  STATS = 10  GO  -- 5、恢复数据库：XHIS\_interface  RESTORE DATABASE [XHIS\_interface]  FROM DISK = N'\\SQL01\AG\_Backup\XHIS\_interface.Bak' WITH  NORECOVERY,  NOUNLOAD,  STATS = 5  GO  RESTORE LOG [XHIS\_interface]  FROM DISK = N'\\SQL01\AG\_Backup\XHIS\_interface\_TLOG.Bak' WITH  NORECOVERY,  NOUNLOAD,  STATS = 10  GO  -- 6、恢复数据库：YDYL  RESTORE DATABASE [YDYL]  FROM DISK = N'\\SQL01\AG\_Backup\YDYL.Bak' WITH  NORECOVERY,  NOUNLOAD,  STATS = 5  GO  RESTORE LOG [YDYL]  FROM DISK = N'\\SQL01\AG\_Backup\YDYL\_TLOG.Bak' WITH  NORECOVERY,  NOUNLOAD,  STATS = 10  GO  -- 7、恢复数据库：ba  RESTORE DATABASE [ba]  FROM DISK = N'\\SQL01\AG\_Backup\ba.Bak' WITH  NORECOVERY,  NOUNLOAD,  STATS = 5  GO  RESTORE LOG [ba]  FROM DISK = N'\\SQL01\AG\_Backup\ba\_TLOG.Bak' WITH  NORECOVERY,  NOUNLOAD,  STATS = 10  GO  -- 8、恢复数据库：bagl\_2006  RESTORE DATABASE [bagl\_2006]  FROM DISK = N'\\SQL01\AG\_Backup\bagl\_2006.Bak' WITH  NORECOVERY,  NOUNLOAD,  STATS = 5  GO  RESTORE LOG [bagl\_2006]  FROM DISK = N'\\SQL01\AG\_Backup\bagl\_2006\_TLOG.Bak' WITH  NORECOVERY,  NOUNLOAD,  STATS = 10  GO  -- 9、恢复数据库：cloud\_lbsdyrmyy  RESTORE DATABASE [cloud\_lbsdyrmyy]  FROM DISK = N'\\SQL01\AG\_Backup\cloud\_lbsdyrmyy.Bak' WITH  NORECOVERY,  NOUNLOAD,  STATS = 5  GO  RESTORE LOG [cloud\_lbsdyrmyy]  FROM DISK = N'\\SQL01\AG\_Backup\cloud\_lbsdyrmyy\_TLOG.Bak' WITH  NORECOVERY,  NOUNLOAD,  STATS = 10  GO  -- 11、恢复数据库：etl\_yyps  RESTORE DATABASE [etl\_yyps]  FROM DISK = N'\\SQL01\AG\_Backup\etl\_yyps.Bak' WITH  NORECOVERY,  NOUNLOAD,  STATS = 5  GO  RESTORE LOG [etl\_yyps]  FROM DISK = N'\\SQL01\AG\_Backup\etl\_yyps\_TLOG.Bak' WITH  NORECOVERY,  NOUNLOAD,  STATS = 10  GO  -- 12、恢复数据库：his\_interface  RESTORE DATABASE [his\_interface]  FROM DISK = N'\\SQL01\AG\_Backup\his\_interface.Bak' WITH  NORECOVERY,  NOUNLOAD,  STATS = 5  GO  RESTORE LOG [his\_interface]  FROM DISK = N'\\SQL01\AG\_Backup\his\_interface\_TLOG.Bak' WITH  NORECOVERY,  NOUNLOAD,  STATS = 10  GO  -- 13、恢复数据库：hlbl\_his  RESTORE DATABASE [hlbl\_his]  FROM DISK = N'\\SQL01\AG\_Backup\hlbl\_his.Bak' WITH  NORECOVERY,  NOUNLOAD,  STATS = 5  GO  RESTORE LOG [hlbl\_his]  FROM DISK = N'\\SQL01\AG\_Backup\hlbl\_his\_TLOG.Bak' WITH  NORECOVERY,  NOUNLOAD,  STATS = 10  GO  -- 14、恢复数据库：interface  RESTORE DATABASE [interface]  FROM DISK = N'\\SQL01\AG\_Backup\interface.Bak' WITH  NORECOVERY,  NOUNLOAD,  STATS = 5  GO  RESTORE LOG [interface]  FROM DISK = N'\\SQL01\AG\_Backup\interface\_TLOG.Bak' WITH  NORECOVERY,  NOUNLOAD,  STATS = 10  GO  -- 15、恢复数据库：interface\_Ychz  RESTORE DATABASE [interface\_Ychz]  FROM DISK = N'\\SQL01\AG\_Backup\interface\_Ychz.Bak' WITH  NORECOVERY,  NOUNLOAD,  STATS = 5  GO  RESTORE LOG [interface\_Ychz]  FROM DISK = N'\\SQL01\AG\_Backup\interface\_Ychz\_TLOG.Bak' WITH  NORECOVERY,  NOUNLOAD,  STATS = 10  GO  -- 16、恢复数据库：interface\_hrp  RESTORE DATABASE [interface\_hrp]  FROM DISK = N'\\SQL01\AG\_Backup\interface\_hrp.Bak' WITH  NORECOVERY,  NOUNLOAD,  STATS = 5  GO  RESTORE LOG [interface\_hrp]  FROM DISK = N'\\SQL01\AG\_Backup\interface\_hrp\_TLOG.Bak' WITH  NORECOVERY,  NOUNLOAD,  STATS = 10  GO  -- 17、恢复数据库：interface\_jkda  RESTORE DATABASE [interface\_jkda]  FROM DISK = N'\\SQL01\AG\_Backup\interface\_jkda.Bak' WITH  NORECOVERY,  NOUNLOAD,  STATS = 5  GO  RESTORE LOG [interface\_jkda]  FROM DISK = N'\\SQL01\AG\_Backup\interface\_jkda\_TLOG.Bak' WITH  NORECOVERY,  NOUNLOAD,  STATS = 10  GO  -- 18、恢复数据库：interface\_lis\_pacs  RESTORE DATABASE [interface\_lis\_pacs]  FROM DISK = N'\\SQL01\AG\_Backup\interface\_lis\_pacs.Bak' WITH  NORECOVERY,  NOUNLOAD,  STATS = 5  GO  RESTORE LOG [interface\_lis\_pacs]  FROM DISK = N'\\SQL01\AG\_Backup\interface\_lis\_pacs\_TLOG.Bak' WITH  NORECOVERY,  NOUNLOAD,  STATS = 10  GO  -- 19、恢复数据库：interface\_lrj  RESTORE DATABASE [interface\_lrj]  FROM DISK = N'\\SQL01\AG\_Backup\interface\_lrj.Bak' WITH  NORECOVERY,  NOUNLOAD,  STATS = 5  GO  RESTORE LOG [interface\_lrj]  FROM DISK = N'\\SQL01\AG\_Backup\interface\_lrj\_TLOG.Bak' WITH  NORECOVERY,  NOUNLOAD,  STATS = 10  GO  -- 20、恢复数据库：interface\_match  RESTORE DATABASE [interface\_match]  FROM DISK = N'\\SQL01\AG\_Backup\interface\_match.Bak' WITH  NORECOVERY,  NOUNLOAD,  STATS = 5  GO  RESTORE LOG [interface\_match]  FROM DISK = N'\\SQL01\AG\_Backup\interface\_match\_TLOG.Bak' WITH  NORECOVERY,  NOUNLOAD,  STATS = 10  GO  -- 21、恢复数据库：interface\_quyiwang  RESTORE DATABASE [interface\_quyiwang]  FROM DISK = N'\\SQL01\AG\_Backup\interface\_quyiwang.Bak' WITH  NORECOVERY,  NOUNLOAD,  STATS = 5  GO  RESTORE LOG [interface\_quyiwang]  FROM DISK = N'\\SQL01\AG\_Backup\interface\_quyiwang\_TLOG.Bak' WITH  NORECOVERY,  NOUNLOAD,  STATS = 10  GO  -- 22、恢复数据库：interface\_yyps  RESTORE DATABASE [interface\_yyps]  FROM DISK = N'\\SQL01\AG\_Backup\interface\_yyps.Bak' WITH  NORECOVERY,  NOUNLOAD,  STATS = 5  GO  RESTORE LOG [interface\_yyps]  FROM DISK = N'\\SQL01\AG\_Backup\interface\_yyps\_TLOG.Bak' WITH  NORECOVERY,  NOUNLOAD,  STATS = 10  GO  -- 23、恢复数据库：jc  RESTORE DATABASE [jc]  FROM DISK = N'\\SQL01\AG\_Backup\jc.Bak' WITH  NORECOVERY,  NOUNLOAD,  STATS = 5  GO  RESTORE LOG [jc]  FROM DISK = N'\\SQL01\AG\_Backup\jc\_TLOG.Bak' WITH  NORECOVERY,  NOUNLOAD,  STATS = 10  GO  -- 24、恢复数据库：jc\_bz  RESTORE DATABASE [jc\_bz]  FROM DISK = N'\\SQL01\AG\_Backup\jc\_bz.Bak' WITH  NORECOVERY,  NOUNLOAD,  STATS = 5  GO  RESTORE LOG [jc\_bz]  FROM DISK = N'\\SQL01\AG\_Backup\jc\_bz\_TLOG.Bak' WITH  NORECOVERY,  NOUNLOAD,  STATS = 10  GO  -- 25、恢复数据库：jjhs  RESTORE DATABASE [jjhs]  FROM DISK = N'\\SQL01\AG\_Backup\jjhs.Bak' WITH  NORECOVERY,  NOUNLOAD,  STATS = 5  GO  RESTORE LOG [jjhs]  FROM DISK = N'\\SQL01\AG\_Backup\jjhs\_TLOG.Bak' WITH  NORECOVERY,  NOUNLOAD,  STATS = 10  GO  -- 26、恢复数据库：jkda\_interface  RESTORE DATABASE [jkda\_interface]  FROM DISK = N'\\SQL01\AG\_Backup\jkda\_interface.Bak' WITH  NORECOVERY,  NOUNLOAD,  STATS = 5  GO  RESTORE LOG [jkda\_interface]  FROM DISK = N'\\SQL01\AG\_Backup\jkda\_interface\_TLOG.Bak' WITH  NORECOVERY,  NOUNLOAD,  STATS = 10  GO  -- 27、恢复数据库：ldcx  RESTORE DATABASE [ldcx]  FROM DISK = N'\\SQL01\AG\_Backup\ldcx.Bak' WITH  NORECOVERY,  NOUNLOAD,  STATS = 5  GO  RESTORE LOG [ldcx]  FROM DISK = N'\\SQL01\AG\_Backup\ldcx\_TLOG.Bak' WITH  NORECOVERY,  NOUNLOAD,  STATS = 10  GO  -- 28、恢复数据库：mz  RESTORE DATABASE [mz]  FROM DISK = N'\\SQL01\AG\_Backup\mz.Bak' WITH  NORECOVERY,  NOUNLOAD,  STATS = 5  GO  RESTORE LOG [mz]  FROM DISK = N'\\SQL01\AG\_Backup\mz\_TLOG.Bak' WITH  NORECOVERY,  NOUNLOAD,  STATS = 10  GO  -- 29、恢复数据库：pw  RESTORE DATABASE [pw]  FROM DISK = N'\\SQL01\AG\_Backup\pw.Bak' WITH  NORECOVERY,  NOUNLOAD,  STATS = 5  GO  RESTORE LOG [pw]  FROM DISK = N'\\SQL01\AG\_Backup\pw\_TLOG.Bak' WITH  NORECOVERY,  NOUNLOAD,  STATS = 10  GO  -- 30、恢复数据库：rs  RESTORE DATABASE [rs]  FROM DISK = N'\\SQL01\AG\_Backup\rs.Bak' WITH  NORECOVERY,  NOUNLOAD,  STATS = 5  GO  RESTORE LOG [rs]  FROM DISK = N'\\SQL01\AG\_Backup\rs\_TLOG.Bak' WITH  NORECOVERY,  NOUNLOAD,  STATS = 10  GO  -- 31、恢复数据库：sbgl  RESTORE DATABASE [sbgl]  FROM DISK = N'\\SQL01\AG\_Backup\sbgl.Bak' WITH  NORECOVERY,  NOUNLOAD,  STATS = 5  GO  RESTORE LOG [sbgl]  FROM DISK = N'\\SQL01\AG\_Backup\sbgl\_TLOG.Bak' WITH  NORECOVERY,  NOUNLOAD,  STATS = 10  GO  -- 32、恢复数据库：sjbf  RESTORE DATABASE [sjbf]  FROM DISK = N'\\SQL01\AG\_Backup\sjbf.Bak' WITH  NORECOVERY,  NOUNLOAD,  STATS = 5  GO  RESTORE LOG [sjbf]  FROM DISK = N'\\SQL01\AG\_Backup\sjbf\_TLOG.Bak' WITH  NORECOVERY,  NOUNLOAD,  STATS = 10  GO  -- 33、恢复数据库：xtwh  RESTORE DATABASE [xtwh]  FROM DISK = N'\\SQL01\AG\_Backup\xtwh.Bak' WITH  NORECOVERY,  NOUNLOAD,  STATS = 5  GO  RESTORE LOG [xtwh]  FROM DISK = N'\\SQL01\AG\_Backup\xtwh\_TLOG.Bak' WITH  NORECOVERY,  NOUNLOAD,  STATS = 10  GO  -- 34、恢复数据库：yj  RESTORE DATABASE [yj]  FROM DISK = N'\\SQL01\AG\_Backup\yj.Bak' WITH  NORECOVERY,  NOUNLOAD,  STATS = 5  GO  RESTORE LOG [yj]  FROM DISK = N'\\SQL01\AG\_Backup\yj\_TLOG.Bak' WITH  NORECOVERY,  NOUNLOAD,  STATS = 10  GO  -- 35、恢复数据库：ys  RESTORE DATABASE [ys]  FROM DISK = N'\\SQL01\AG\_Backup\ys.Bak' WITH  NORECOVERY,  NOUNLOAD,  STATS = 5  GO  RESTORE LOG [ys]  FROM DISK = N'\\SQL01\AG\_Backup\ys\_TLOG.Bak' WITH  NORECOVERY,  NOUNLOAD,  STATS = 10  GO  -- 36、恢复数据库：yw  RESTORE DATABASE [yw]  FROM DISK = N'\\SQL01\AG\_Backup\yw.Bak' WITH  NORECOVERY,  NOUNLOAD,  STATS = 5  GO  RESTORE LOG [yw]  FROM DISK = N'\\SQL01\AG\_Backup\yw\_TLOG.Bak' WITH  NORECOVERY,  NOUNLOAD,  STATS = 10  GO  -- 37、恢复数据库：zy  RESTORE DATABASE [zy]  FROM DISK = N'\\SQL01\AG\_Backup\zy.Bak' WITH  NORECOVERY,  NOUNLOAD,  STATS = 5  GO  RESTORE LOG [zy]  FROM DISK = N'\\SQL01\AG\_Backup\zy\_TLOG.Bak' WITH  NORECOVERY,  NOUNLOAD,  STATS = 10  GO  -- 38、恢复数据库：zy\_dzbl\_zhshk  RESTORE DATABASE [zy\_dzbl\_zhshk]  FROM DISK = N'\\SQL01\AG\_Backup\zy\_dzbl\_zhshk.Bak' WITH  NORECOVERY,  NOUNLOAD,  STATS = 5  GO  RESTORE LOG [zy\_dzbl\_zhshk]  FROM DISK = N'\\SQL01\AG\_Backup\zy\_dzbl\_zhshk\_TLOG.Bak' WITH  NORECOVERY,  NOUNLOAD,  STATS = 10  GO |

## 将SQL01上的账号信息同步到SQLDR

### 11.1、传输登录密码

AlwaysON 登录名不会同步？

<https://blog.51cto.com/songhl/2335428>

<https://support.microsoft.com/zh-cn/help/918992/how-to-transfer-logins-and-passwords-between-instances-of-sql-server>

<https://blog.csdn.net/weixin_33910137/article/details/92600835>

|  |
| --- |
| 下面为获取用户账户信息的脚本： |
| USE master  GO  IF OBJECT\_ID ('sp\_hexadecimal') IS NOT NULL  DROP PROCEDURE sp\_hexadecimal  GO  CREATE PROCEDURE sp\_hexadecimal  @binvalue varbinary(256),  @hexvalue varchar (514) OUTPUT  AS  DECLARE @charvalue varchar (514)  DECLARE @i int  DECLARE @length int  DECLARE @hexstring char(16)  SELECT @charvalue = '0x'  SELECT @i = 1  SELECT @length = DATALENGTH (@binvalue)  SELECT @hexstring = '0123456789ABCDEF'  WHILE (@i <= @length)  BEGIN  DECLARE @tempint int  DECLARE @firstint int  DECLARE @secondint int  SELECT @tempint = CONVERT(int, SUBSTRING(@binvalue,@i,1))  SELECT @firstint = FLOOR(@tempint/16)  SELECT @secondint = @tempint - (@firstint\*16)  SELECT @charvalue = @charvalue +  SUBSTRING(@hexstring, @firstint+1, 1) +  SUBSTRING(@hexstring, @secondint+1, 1)  SELECT @i = @i + 1  END  SELECT @hexvalue = @charvalue  GO  IF OBJECT\_ID ('sp\_help\_revlogin') IS NOT NULL  DROP PROCEDURE sp\_help\_revlogin  GO  CREATE PROCEDURE sp\_help\_revlogin @login\_name sysname = NULL AS  DECLARE @name sysname  DECLARE @type varchar (1)  DECLARE @hasaccess int  DECLARE @denylogin int  DECLARE @is\_disabled int  DECLARE @PWD\_varbinary varbinary (256)  DECLARE @PWD\_string varchar (514)  DECLARE @SID\_varbinary varbinary (85)  DECLARE @SID\_string varchar (514)  DECLARE @tmpstr varchar (1024)  DECLARE @is\_policy\_checked varchar (3)  DECLARE @is\_expiration\_checked varchar (3)  DECLARE @defaultdb sysname  IF (@login\_name IS NULL)  DECLARE login\_curs CURSOR FOR  SELECT p.sid, p.name, p.type, p.is\_disabled, p.default\_database\_name, l.hasaccess, l.denylogin FROM  sys.server\_principals p LEFT JOIN sys.syslogins l  ON ( l.name = p.name ) WHERE p.type IN ( 'S', 'G', 'U' ) AND p.name <> 'sa'  ELSE  DECLARE login\_curs CURSOR FOR  SELECT p.sid, p.name, p.type, p.is\_disabled, p.default\_database\_name, l.hasaccess, l.denylogin FROM  sys.server\_principals p LEFT JOIN sys.syslogins l  ON ( l.name = p.name ) WHERE p.type IN ( 'S', 'G', 'U' ) AND p.name = @login\_name  OPEN login\_curs  FETCH NEXT FROM login\_curs INTO @SID\_varbinary, @name, @type, @is\_disabled, @defaultdb, @hasaccess, @denylogin  IF (@@fetch\_status = -1)  BEGIN  PRINT 'No login(s) found.'  CLOSE login\_curs  DEALLOCATE login\_curs  RETURN -1  END  SET @tmpstr = '/\* sp\_help\_revlogin script '  PRINT @tmpstr  SET @tmpstr = '\*\* Generated ' + CONVERT (varchar, GETDATE()) + ' on ' + @@SERVERNAME + ' \*/'  PRINT @tmpstr  PRINT ''  WHILE (@@fetch\_status <> -1)  BEGIN  IF (@@fetch\_status <> -2)  BEGIN  PRINT ''  SET @tmpstr = '-- Login: ' + @name  PRINT @tmpstr  IF (@type IN ( 'G', 'U'))  BEGIN -- NT authenticated account/group  SET @tmpstr = 'CREATE LOGIN ' + QUOTENAME( @name ) + ' FROM WINDOWS WITH DEFAULT\_DATABASE = [' + @defaultdb + ']'  END  ELSE BEGIN -- SQL Server authentication  -- obtain password and sid  SET @PWD\_varbinary = CAST( LOGINPROPERTY( @name, 'PasswordHash' ) AS varbinary (256) )  EXEC sp\_hexadecimal @PWD\_varbinary, @PWD\_string OUT  EXEC sp\_hexadecimal @SID\_varbinary,@SID\_string OUT  -- obtain password policy state  SELECT @is\_policy\_checked = CASE is\_policy\_checked WHEN 1 THEN 'ON' WHEN 0 THEN 'OFF' ELSE NULL END FROM sys.sql\_logins WHERE name = @name  SELECT @is\_expiration\_checked = CASE is\_expiration\_checked WHEN 1 THEN 'ON' WHEN 0 THEN 'OFF' ELSE NULL END FROM sys.sql\_logins WHERE name = @name  SET @tmpstr = 'CREATE LOGIN ' + QUOTENAME( @name ) + ' WITH PASSWORD = ' + @PWD\_string + ' HASHED, SID = ' + @SID\_string + ', DEFAULT\_DATABASE = [' + @defaultdb + ']'  IF ( @is\_policy\_checked IS NOT NULL )  BEGIN  SET @tmpstr = @tmpstr + ', CHECK\_POLICY = ' + @is\_policy\_checked  END  IF ( @is\_expiration\_checked IS NOT NULL )  BEGIN  SET @tmpstr = @tmpstr + ', CHECK\_EXPIRATION = ' + @is\_expiration\_checked  END  END  IF (@denylogin = 1)  BEGIN -- login is denied access  SET @tmpstr = @tmpstr + '; DENY CONNECT SQL TO ' + QUOTENAME( @name )  END  ELSE IF (@hasaccess = 0)  BEGIN -- login exists but does not have access  SET @tmpstr = @tmpstr + '; REVOKE CONNECT SQL TO ' + QUOTENAME( @name )  END  IF (@is\_disabled = 1)  BEGIN -- login is disabled  SET @tmpstr = @tmpstr + '; ALTER LOGIN ' + QUOTENAME( @name ) + ' DISABLE'  END  PRINT @tmpstr  END  FETCH NEXT FROM login\_curs INTO @SID\_varbinary, @name, @type, @is\_disabled, @defaultdb, @hasaccess, @denylogin  END  CLOSE login\_curs  DEALLOCATE login\_curs  RETURN 0  GO |
| EXEC sp\_help\_revlogin |
| /\* sp\_help\_revlogin script  \*\* Generated 04 22 2021 7:05PM on SQL01 \*/      -- Login: ##MS\_PolicyTsqlExecutionLogin##  CREATE LOGIN [##MS\_PolicyTsqlExecutionLogin##] WITH PASSWORD = 0x020072FB146AD2BF995F604EBE889F8027EF3339F6F67BD489A3547921ACBF369388724382E3BFE87AC4A7693B89FB280439D0BCA13E9F387A46B5174FEFB770C54CBA4A1892 HASHED, SID = 0xA9EEB439F4762546BD90D163703F6DA1, DEFAULT\_DATABASE = [master], CHECK\_POLICY = ON, CHECK\_EXPIRATION = OFF; ALTER LOGIN [##MS\_PolicyTsqlExecutionLogin##] DISABLE    -- Login: HIS\dcadmin  CREATE LOGIN [HIS\dcadmin] FROM WINDOWS WITH DEFAULT\_DATABASE = [master]    -- Login: NT SERVICE\SQLWriter  CREATE LOGIN [NT SERVICE\SQLWriter] FROM WINDOWS WITH DEFAULT\_DATABASE = [master]    -- Login: NT SERVICE\Winmgmt  CREATE LOGIN [NT SERVICE\Winmgmt] FROM WINDOWS WITH DEFAULT\_DATABASE = [master]    -- Login: NT SERVICE\MSSQLSERVER  CREATE LOGIN [NT SERVICE\MSSQLSERVER] FROM WINDOWS WITH DEFAULT\_DATABASE = [master]    -- Login: NT AUTHORITY\SYSTEM  CREATE LOGIN [NT AUTHORITY\SYSTEM] FROM WINDOWS WITH DEFAULT\_DATABASE = [master]    -- Login: NT SERVICE\SQLSERVERAGENT  CREATE LOGIN [NT SERVICE\SQLSERVERAGENT] FROM WINDOWS WITH DEFAULT\_DATABASE = [master]    -- Login: ##MS\_PolicyEventProcessingLogin##  CREATE LOGIN [##MS\_PolicyEventProcessingLogin##] WITH PASSWORD = 0x02009FC2BAE7F0C70B1DA730AB8E18138A372EE533EAD770EDEFF4B93038B1A6E158CFEA8347065C5BA19F8CFCADA4DD33FF0805ACFF76B1D189378E071F4F3B07AC2F655C1D HASHED, SID = 0x0B3846ED9FAF414CAAACD52EA3F7401A, DEFAULT\_DATABASE = [master], CHECK\_POLICY = ON, CHECK\_EXPIRATION = OFF; ALTER LOGIN [##MS\_PolicyEventProcessingLogin##] DISABLE    -- Login: saa  CREATE LOGIN [saa] WITH PASSWORD = 0x0200943CE2328A4E6F3D3E1CB37E2762B9B4A0FC9A75F3585BFCDE2EB4FC46CB0FBB7FCB82B52A3C476A17D3A59DD0D815AE35631825BDEB14B2C519A4B19D4337B40F098A1C HASHED, SID = 0x0D258FFCE4EDF541B8B793E7BAA3D683, DEFAULT\_DATABASE = [master], CHECK\_POLICY = OFF, CHECK\_EXPIRATION = OFF    -- Login: pw  CREATE LOGIN [pw] WITH PASSWORD = 0x0200A4AB793C1C1946A5B4F2E78D4FD8FB175F4BBF791E8921EFF443C0822F495977A77069D19378BBB591396B37F102F69BDD7772F0C962D22483F704EE7353640CA91FEDC4 HASHED, SID = 0x8676C67D88270C4DB3EFDADDBF6A7FCE, DEFAULT\_DATABASE = [master], CHECK\_POLICY = OFF, CHECK\_EXPIRATION = OFF    -- Login: lbsdyrmyy  CREATE LOGIN [lbsdyrmyy] WITH PASSWORD = 0x0100A7A4A19D767B0DC89FE0ED6BF7D73384C9ADD792BB7A20B0 HASHED, SID = 0x52248DFC061C8B4EAB82EE5A8FD3F959, DEFAULT\_DATABASE = [interface\_lis\_pacs], CHECK\_POLICY = OFF, CHECK\_EXPIRATION = OFF    -- Login: sayg  CREATE LOGIN [sayg] WITH PASSWORD = 0x0200C7122350D276CD790CD4BE58008951898546A8F1E71D7D146C161AFC387BFE555539B11FCD1E00360769820F2B1D2E7B00CA92BD68D4857B6276A0B635F450354619F354 HASHED, SID = 0xA3D5B78927825643A839159A8096A343, DEFAULT\_DATABASE = [interface], CHECK\_POLICY = OFF, CHECK\_EXPIRATION = OFF    -- Login: ecg  CREATE LOGIN [ecg] WITH PASSWORD = 0x0200957AAEAA226769CB526D7EAAA3EB51257A9971016EEB5B05DDA9ADE041350BE93F23332D3D448EEC0F21BAD2A5DA8F94FCB9A38553C9F75C51B780208FF9A1CF18CF6073 HASHED, SID = 0x29FC269DC90A7E48842CBA1E5D66DB27, DEFAULT\_DATABASE = [master], CHECK\_POLICY = OFF, CHECK\_EXPIRATION = OFF    -- Login: syyc  CREATE LOGIN [syyc] WITH PASSWORD = 0x0100CC76CCCC5AFA64564E181BF4A04B0F1CDB25278571C01FCF HASHED, SID = 0x9CDD1C65049FA349A6E9503A8D761993, DEFAULT\_DATABASE = [master], CHECK\_POLICY = OFF, CHECK\_EXPIRATION = OFF    -- Login: qyuser  CREATE LOGIN [qyuser] WITH PASSWORD = 0x0100FB61C773194E94AD420D42A263D1EE2C821EBB37A9A5376E HASHED, SID = 0xC750399156E9F14E97CBFD99D86D4DFD, DEFAULT\_DATABASE = [master], CHECK\_POLICY = OFF, CHECK\_EXPIRATION = OFF    -- Login: sa2  CREATE LOGIN [sa2] WITH PASSWORD = 0x010051A8F0A753B89455F0F431F9D76F07369149C7E34E864B83 HASHED, SID = 0xD7D972FE43676C4D8504EE5B94716778, DEFAULT\_DATABASE = [master], CHECK\_POLICY = OFF, CHECK\_EXPIRATION = OFF    -- Login: distributor\_admin  CREATE LOGIN [distributor\_admin] WITH PASSWORD = 0x02008F3C06CD23A5EEFF8A3C3E0487AFACD5605663B1A9FB6D4B102F07FCB0A6F09864E57B734499EEF5A547147563E6EFF740B5D69418614648146F9672661F9B53120333CE HASHED, SID = 0xFBCB6B69442A654AA18EFBA5535660F3, DEFAULT\_DATABASE = [master], CHECK\_POLICY = ON, CHECK\_EXPIRATION = OFF    -- Login: upm  CREATE LOGIN [upm] WITH PASSWORD = 0x01008BBCFAC18B0040C2FF401DF30BE7A86B78252391FEFBF606 HASHED, SID = 0x08903EE9E4C8C849BEEAD59BD1507482, DEFAULT\_DATABASE = [master], CHECK\_POLICY = OFF, CHECK\_EXPIRATION = OFF    -- Login: hlht1  CREATE LOGIN [hlht1] WITH PASSWORD = 0x020066BD2821518CEDDBA1BB29C336CA8EA62DC5CBD756D7023691BA6B49D783A60A4001E309FE044E221A6D4FBE8632AFFB7E4B52A48BFDB2A1613EE8BF710DD3A1F4971E45 HASHED, SID = 0xBBF51ABBA3A6914CA26B728857D88FE5, DEFAULT\_DATABASE = [master], CHECK\_POLICY = ON, CHECK\_EXPIRATION = OFF    -- Login: sa3  CREATE LOGIN [sa3] WITH PASSWORD = 0x01003E8391EF31280FABC2899EDFF10309F6784D1CBB5D2F5D07 HASHED, SID = 0x2CE726EB4E7D3248B2B00BA038259038, DEFAULT\_DATABASE = [master], CHECK\_POLICY = OFF, CHECK\_EXPIRATION = OFF    -- Login: sa5  CREATE LOGIN [sa5] WITH PASSWORD = 0x0200F2D38DABE6758542B147E5B472056F6F114B5F10816FC66784F8A5334E22CD08E8E4C41EDF679EC6506690D23846C9E169BA5B57283C22E346410F580C828EEC4449E5EE HASHED, SID = 0x267BF9B24F8AE64782DE9EDAC76F4222, DEFAULT\_DATABASE = [master], CHECK\_POLICY = OFF, CHECK\_EXPIRATION = OFF    -- Login: sa4  CREATE LOGIN [sa4] WITH PASSWORD = 0x010029CB12D9F0B6E3C3C0A35AC07FFCE638DC5CE94DF6511620 HASHED, SID = 0x70197A08F1FFF744B7216E381E4FF628, DEFAULT\_DATABASE = [master], CHECK\_POLICY = ON, CHECK\_EXPIRATION = ON    -- Login: sa6  CREATE LOGIN [sa6] WITH PASSWORD = 0x02002AF5F383A86FCF156F786E0C10E6371AB4E4F694A02B5DB2E42A1FADEF779F16FE76B6BDF869EDD574CD80E92A4279C9FD138AE787BD9DCBC848244D908057D520180FD4 HASHED, SID = 0x4F7415E6E6FC8744B8F65B986D1266CC, DEFAULT\_DATABASE = [master], CHECK\_POLICY = ON, CHECK\_EXPIRATION = ON    -- Login: herp  CREATE LOGIN [herp] WITH PASSWORD = 0x0200875DCB72EDAADED465FE79F14D38EA64B9E14CED5081D4E460D53E7FE613C823D20E7BFB9FB64B1D42DB04F3AE6889F535F2164D9C87F4ACDF01FA576AD2C6B4C17ED12F HASHED, SID = 0x58CDE6FD911EE74B8D8FDC8AF47F0B8F, DEFAULT\_DATABASE = [interface], CHECK\_POLICY = OFF, CHECK\_EXPIRATION = OFF    -- Login: SQL01\Administrator  CREATE LOGIN [SQL01\Administrator] FROM WINDOWS WITH DEFAULT\_DATABASE = [master]    -- Login: sa\_interface  CREATE LOGIN [sa\_interface] WITH PASSWORD = 0x02001CAE49ECDCB0DBA4E65C351661437CA9B2CA45B56E1B30437163EE9C155170F39C1901E1E150690BE0AAA20CEC6F72ED098F578E899D423F32CE7AECA236C0B604153EA3 HASHED, SID = 0x0AB38E15A78F0E47A2EAF65285ABC40E, DEFAULT\_DATABASE = [master], CHECK\_POLICY = OFF, CHECK\_EXPIRATION = OFF |