NBU 集中备份系统

恢复手册

文档信息

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NBU 集中备份系统恢复手册			

文档修订记录

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文档说明

本文档描述 NBU 集中备份系统的文件系统和 Oracle 数据库的恢复步骤,可作为备份系统管理员做恢复时的指导性文档。

1. 文件或文件系统恢复

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Symantec NetBackup [™]							
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- 💯 Policies - 📼 Storage	Keyword phrase: 📩				Start date:	End date:	
— 🎦 Catalog	<none></none>				06/19/2012 16:43:54	06/28/2012 23:59:59	
- I Master Servers	Browse directory:					18 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	2 🖬
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NetBackup							
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Gratch						Preview Res	tore
	<u> </u>					Alert Notification	

打开 Netbackup java console, 点击左侧树形下拉表中的"Backup,Archive and Restore"

点 击 窗 口 中 的 Actions -> "Specify Netbackup Machines and Policy Type"

Backup, Archive, and	Resto	re – host_srv –	NetBackup Adminis	tration Console [logg	ed into host_srv]	· 🗆
Symantec NetBackup™						
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🍵 🗢 🔿 💽 🖬 🖓 Specify NetBackup <u>M</u> achines and Policy Type	Alt-M					
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BMR_HPUX						
- 🖉 CatalogBackup						
- 🗃 DataStore						
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B_bill						
- B DB_crm20						
- B_Cust						
B DB_edw						
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在出现的小窗口中输入要恢复的原客户端主机名,目标客户端主机名,选择正确的策略类型, 点击 Ok

-	Backup, Archive, and Res	tore – host_srv – NetBack	up Administration Console [logo	jed into host_srv]	· 🗆
Symantec NetBackup™					
File Edit View Actions Help					
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host_srv (Master Server)	NetBackup server: host_srv	Source client: host_srv	Destination client: host_srv	Policy type: Standard	A
Backup, Archive, and Restore	Backup Files Restore Files Ta	isk Progress			
P- NetBackup Management Policies	Restore type: Normal Backups				
← 🗐 Storage — 🍢 Catalog	Keyword phrase: 🖾 <none></none>	Specify NotPackup	Machines and Policy Type	Start date: 06/19/2012 16:43:54	End date: 06/28/2012 23:59:59
Master Servers	Browse directory: /		machines and Poncy Type		12 1 I I I I I I I I I I I I I I I I I I
P B Media and Device Management	Directory Structure	host_srv	Edit Server List	Size(Bytes) Modified	Schedule Type
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				Č	Alert Notification





在新窗口中选择恢复目录等,默认是恢复到原目录,也可以选择恢复到其它目录,然后点 Start Restore :

Window Edi # jnbSA Start The 1- /usr/	Backup, Archive, an Symantec NetBackup* File Edit View Actions Help Not.srv (Master Server) Backup, Archive, and Resore Backup, Archive, and Resore Backup, Archive, and Resore	General Destination 	red into host_srv] <
	• ■ Vellactory Management • ■ Reports • ■ Storage • ■ Mater Servers • ■ Media Servers • ■ Media Gevers • ■ Media Gevers • ■ Media Mater Servers • ■ Media Media Servers • ■ Media Media Servers • ■ Media Media Servers • ■ Media • ■ Media Media Servers • ■ Media Media Servers • ■ Media • ■ Media	Source Destination Backup Date Modified LanceLeasewineller OCCLD (DALD LC. OCCLD (DALD LZ. OCCLD (DALD LZ. Change Selected Destination(s) Change All Destinations Remove Selected Destination(s). Occup Control (DALD LZ. Add Destination Remove Selected Destination(s). Create virtual disks and redirect to them (Make sure if your operating sy Options Setting Overwrite existing files Rename har Restore directories without crossing mount points Rename sor Oyerride defau Job Priority O = Ver default progress log filename Progress log filename Progress log filename Start Restore Cancel	End date: Image: Control of the system Image: Control of the system 16:43:54 06/28/2012 23:59:59 Image: Control of the system Image: Control of the system Image: Control of the system Image: Control of the system 06/19/2012 16:43:54 0 06/19/2012 16:43:54 0 06/19/2012 16:43:54 0 06/19/2012 16:43:54 0 06/19/2012 16:43:54 0 06/19/2012 16:43:54 0 06/19/2012 16:43:54 31 0
	DB_pddb	🗭 🗋 database 🔍	Preview BRestore
			lert Notification
		One Two	

在 Activity Monitor 中查看 Restore 的任务,等该任务执行完毕,则文件成功完成。去恢复的 目标目录可看到恢复出来的文件。

2. Oracle 数据库恢复

2.1 准备环境描述

为了将数据库从原来运行的主机,即源主机,恢复到另外一台主机,即目标主机,需要在 目标主机建立基本的恢复环境,包括兼容的操作系统版本,ORACLE 软件,ORACLE 数据库数据 文件的存储设备,备份软件。

准备的过程包括:

1确认操作系统版本及补丁满足 Netbackup 及 Oracle 的要求;

2 安装 NBU 软件,包括 Media Sever 或 Client;

3 安装或者恢复 Oracle 运行程序;

4 配置初始化文件,使得 Oracle 能够启动 IDLE INSTANCE;

5 建立逻辑卷,名称和大小,和要恢复数据库的数据文件一一对应,修改文件属组为 oracle

用户和对应的 dba 组

6 在 NBU Master Server 中,设置允许异机恢复的标志文件:

#touch /usr/openv/netbackup/db/altnames/No.Restrictions;

7. 连接 oracle 的 libobk 库到 netbackup 的对应库。

注意: 各平台的 libobk 库名称不一定一致,请参考《Netbackup Oracle 管理手册》。

8 如果恢复测试机是 media server,则需要确保 media server 能够识别到带库设备,另外需设定 Master Server 的 bp.conf 文件,在该文件中增加如下一行:

FAILOVER_RESTORE_MEDIA_SERVERS = src_host_name dest_host_name

并重启 NBU Master Server 进程。

如果是恢复到 netbackup client 则不需要。

实际恢复测试环境:

源主机: svc_proddb, 该主机为 AIX 的 Media Server

目标主机: cash-cx,该主机为 AIX 的 Client

Master server: host_srv

2.1.1 检查备份信息

在 hxmaster 上运行 bplist 命令查找备份集,命令格式为 bplist --C 客户端名称 --t 4 (type 4 类型为 Oracle,默认为 Standrad) --R 递归方式 -1 显示时间等详细信息 -s 开始时间 MM/DD/YY HH:MM:SS --e MM/DD/YY HH:MM:SS 选定 cntrl 224 1 799578594 作为本次恢复的控制文件备份点。

[root@hxmas	ster ~]#	bplist -C p650	-t K -R -	-b -1	1			
-rw-rw	oracle	oinstall	2623440	Nov 1	15	17:36	cntrl_319_1_801410194	
-rw-rw	oracle	oinstall	262144	Nov 1	15	17:36	/al_317_1_801410166	
-rw-rw	oracle	oinstall	262144	Nov 1	15	17:36	/al_318_1_801410166	
-rw-rw	oracle	oinstall	2097408K	Nov 1	15	17:32	/bk_314_1_801409944	
-rw-rw	oracle	oinstall	2095616K	Nov 1	15	17:32	/bk_316_1_801409944	
-rw-rw	oracle	oinstall	2079744K	Nov 1	15	17:32	/bk_315_1_801409944	
-rw-rw	oracle	oinstall	1769472K	Nov 1	15	17:29	/bk_313_1_801409759	
-rw-rw	oracle	oinstall	2097408K	Nov 1	15	17:27	/bk_312_1_801409654	
-rw-rw	oracle	oinstall	2093056K	Nov 1	15	17:27	/bk_311_1_801409647	
-rw-rw	oracle	oinstall	2092288K	Nov 1	15	17:27	/bk_310_1_801409639	
-rw-rw	oracle	oinstall	2065408K	Nov 1	15	17:25	/bk_309_1_801409534	
-rw-rw	oracle	oinstall	2095872K	Nov 1	15	17:22	/bk_308_1_801409359	
-rw-rw	oracle	oinstall	2094592K	Nov 1	15	17:20	/bk_307_1_801409244	Ξ
-rw-rw	oracle	oinstall	163577856	Nov 1	15	17:20	/bk_306_1_801409229	-
-rw-rw	oracle	oinstall	127139840	Nov 1	15	17:20	/bk_305_1_801409214	
-rw-rw	oracle	oinstall	2074624K	Nov 1	15	17:18	/bk_304_1_801409099	
-rw-rw	oracle	oinstall	2097408K	Nov 1	15	17:15	/bk_303_1_801408914	
-rw-rw	oracle	oinstall	144703488	Nov 1	15	17:13	/bk_302_1_801408809	
-rw-rw	oracle	oinstall	2095616K	Nov 1	15	17:13	/bk 301 1 801408802	÷

2.1.2 建立口令文件

\$ /oracle/app/product/10.2.0/bin/orapwd password=xxx

2.1.3 恢复控制文件

Step 1: 启动数据库到 nomount 状态

编辑恢复的脚本, NB_ORA_SERV 填 Master Server 机器名,

NB_ORA_CLIENT 填备份的客户端机器名, restore control '填 bplist 命令返回的 controlfile 备份信息'.备份通道开放 ch00,每增加一个通过就会多使用一个空闲的 驱动器和一盒空闲的磁带.复制恢复控制文件的脚本。



登陆 p650 机器,运行 9i 库的环境变量后,准备好用于恢复的初始化文件放置于相

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