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XE7000系统主备同步的配置

一、组网需求: 话机1001, 1002, 1003主备注册到两台XE7605上, 当主服务器宕机的时候, 话机自 动注册到备用服务器上,当主服务器恢复正常后,话机从新注册到主服务器上。 二、组网图: 10.153.48.231 10.153.48.233 xe7600 ve7600 IP phone 10.153.48.1 10.153.48.2 10.153.48.3 10.153.48.4 10.153.48.5 1001 1002 1003 1004 1005 三、配置步骤: 1.安装前准备工作 服务器安装前需要连好网线,保证服务器间路由可达。 1.1配置主服务器的ntp服务 通过串口登陆服务器,用户: root; 密码: pvadmin 调整服务器时间: date 062620532006 //2006年6月23号 20点53分,所有参数都是双位表示 NTP服务配置,编辑文件ntp.conf vi /etc/ntp.conf //(vi 编辑文件, 单击i 进行编辑, Esc键退出编辑) server 127.127.1.1 fudge 127.127.1.1 stratum 8 //(其余的配置全部删除) :wq // (保存退出) 1.2配置主服务器的地址 -bash-2.05b# vcx-config-network --wizard ----- Welcome to the VCX Linux Network Configuration Wizard -----This wizard sets up networking and related services. Configure networking now? [yes] : ----- Configuring Dynamic Host Configuration Protocol (DHCP) ----VCX servers can use DHCP for automated configuration, but this requires that the DHCP server is configured to provide the proper options. Unless you know that your environment is set up in this way, you should say 'no' here and configure static network parameters. Use DHCP on eth0 to configure network parameters? [no] : ----- Configuring Hostname -----Enter system hostname : pri ----- Configuring IP Interface 'eth0' ------IP Address : 172.31.0.11 Network Subnet Mask : 255.255.0.0 Default Gateway Address : 172.31.255.254 ----- Configuring IP Interface 'eth1' -----Interface State : enabled //原来为disabled, 需手动修改 IP Address : 172.31.0.12 Network Subnet Mask : 255.255.0.0 Default Gateway Address : 172.31.0.254 ----- Configuring DNS Servers ------Enter DNS servers one at a time. When done, enter 0.0.0.0 to stop. Primary DNS Server : 0.0.0.0 ----- Configuring DNS Search Path ------

Press Enter to leave the current path unchanged, or specify

a new search path, with spaces separating each entry. DNS Search Path : localdomain ----- Configuring Network Time Protocol ------Enter NTP servers one at a time. When done, enter 0.0.0.0 to stop. Primary NTP Server : 127.127.1.1 //默认配置不需要修改 Secondary NTP Server : 0.0.0.0 ----- Configuring Time Zone ------Please select a geographic location from the following list: 1. Africa 2. Americas 3. Antarctica 4. Arctic Ocean 5. Asia 6. Atlantic Ocean 7. Australia 8. Europe 9. Indian Ocean 10. Pacific Ocean Enter continent [5] : 5 Please select a country from the following list: 1. United Arab Emirates 18. Jordan 35. Philippines 2. Afghanistan 19. Japan 36. Pakistan 3. Armenia20. Kyrgyzstan37. Palestine4. Azerbaijan21. Cambodia38. Qatar 5. Bangladesh 22. Korea (North) 39. Russia 6. Bahrain23. Korea (South)40. Saudi Arabia7. Brunei24. Kuwait41. Singapore8. Bhutan25. Kazakhstan42. Syria9. China26. Laos43. Thailand 10. Cyprus27. Lebanon44. Tajikistan11. Georgia28. Sri Lanka45. East Timor

 12. Hong Kong
 29. Myanmar (Durine,

 12. Indonesia
 30. Mongolia
 47. Taiwan

 48. Uzbekistar

 29. Myanmar (Burma) 46. Turkmenistan 14. Israel 31. Macau 48. Uzbekistan 32. Malaysia 49. Vietnam 15. India 33. Nepal 50. Yemen 16. Iraq 34. Oman 17. Iran Enter country [9]: 9 Please select a time zone from the following list: 1. Heilongjiang 2. Tibet & most of Xinjiang Uyghur 3. central China - Gansu, Guizhou, Sichuan, Yunnan, etc. 4. east China - Beijing, Guangdong, Shanghai, etc. 5. southwest Xinjiang Uyghur Enter zone [4] : 4 Selected Time Zone: Asia/Shanghai 1.3配置从服务器地址,进行时间同步 配置过程同上,注意NTP的配置 ----- Configuring Network Time Protocol ------Enter NTP servers one at a time. When done, enter 0.0.0.0 to stop. Primary NTP Server : 172.31.0.11 Secondary NTP Server : 172.31.0.12 / 配置为主服务器两个网口的地址 修改NTP配置文件, -bash-2.05b# vi /etc/ntp.conf server 172.31.0.11 server 172.31.0.12 //保存,退出。 :wq 同步时间: -bash-2.05b# service ntpd restart 时间同步成功进行后续安装 1.4安装服务器的许可文件

查看服务器的machineid vcx-showmachineid 将对应的许可文件下载到服务器的/opt/installtemp目录中 安装许可: cd /opt/installtemp vcx-licenseinstall <许可文件名,例如: SMkY-07dh-7PH9-UMVd-CA_0-1i12.activatio n.key > 安装完毕后,许可会安装在 /opt/3com/licenses目录下,通过 ls -al命令查看许可是否 安装成功 修改许可文件的读写属性: chmod 755 <许可文件,例如: SMxj-OWZv-7PEa-pGiU-sKu1-bzhi.activation.key> 2.服务器安装 2.1安装主服务器 使用vcx-setup命令安装主服务器,关键配置: 1) 选择站点类型:选择1(Primary) 【重要,以后无法修改】 2) Enter a unique identifier for this site: 默认为1,不要修改 (重要,必须保证两个 服务器的Site ID相同,后续配置无法修改!!) 3) Enter a description for this site xj-post 4) Enter the customer name : post 5) Use European date order? (Y/N) [N]: N (选N) 6) Is Global Messaging in use? (Y/N) [N]: N (注意) 7) Enter the SIP default dialing domain: 172.31.0.12 (两台服务器配置相同) 8) IP address of the secondary Call Processor :172.31.0.14 (输入另一台服务器的 第2个网口的地址) 9) IP address of the secondary Auth & Dir Service : 172.31.0.13(输入另一台服务器 的第1个网口的地址) 10) IP address of the secondary IP Messaging Service :172.31.0.13(输入另一台服 务器的第1个网口的地址) 11) The Call Records Service consolidates call accounting records for the VCX syst em. It is only enabled on one server for an entire installation. Enable the Call Records Service (Y/N)? [N]: Y (主服务器启用, 从服务器不启用) IPMSG配置中: 1) The hostname of the other IP Messaging system is needed in order to set up Intel ligent Mirroring redundancy with this system. Hostname of peer IP Messaging system :sec //从服务器hostname 2) User name for access to Auth & Dir Server : cworks 3) Password for access to Auth & Dir Server : cworks 2.1安装从服务器 关键配置: 1) 选择站点类型:选择2 (secondary) 2) Enter a unique identifier for this site: 默认为1,不要修改(和主服务器一致) 3) 中间配置选项同主服务器; 4) Enter the SIP default dialing domain: 172.31.0.12 (与主服务器一致) 5) IP address of the primary Call Processor : 172.31.0.12 (主服务器第二个网口的 地址) 6) IP address of the primary Auth & Dir Service : 172.31.0.11 (主服务器第一个网 口的地址) 7) IP address of the primary IP Messaging Service : 172.31.0.11 (主服务器第一 个网口的地址) IPMSG关键配置: 1) User name for access to Auth & Dir Server : cworks 2) Password for access to Auth & Dir Server : cworks 其余使用默认配置即可 3.配置数据库同步 重要:服务安装完毕后,需要重新启动服务器 (reboot)! 3.1从服务器配置 停止相关服务 -bash-2.05b# cd /opt/3com/VCX/scripts/rc3.d/ -bash-2.05b# ./S20vcxdata stop //停止vcxdata服务 -bash-2.05b# ./S70tomcat stop //停止tomcat服务 打开防火墙 -bash-2.05b# modfw -p oracle allow 172.31.0.12 //其实不必须,为了安全起见还是打 开 查看防火墙配置是否正确:

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-bash-2.05b# lsfw
service: oracle
             port: 1521 transport: tcp default rule: drop
   allow: address=172.31.0.11
   allow: address=172.31.0.12
service: telnet port: 23 transport: tcp-udp default rule: drop
service: ftp port: 21 transport: tcp-udp default rule: drop
service: tftp port: 69 transport: udp default rule: drop
service: ums port: 17789 transport: tcp default rule: drop
service: http port: 80 transport: tcp default rule: accept
3.2主服务器配置
停止相关服务
-bash-2.05b# cd /opt/3com/VCX/scripts/rc3.d/
-bash-2.05b# ./S20vcxdata stop //停止vcxdata服务
-bash-2.05b# ./S70tomcat stop //停止tomcat服务
打开防火墙
-bash-2.05b# modfw -p oracle allow 172.31.0.14
查看防火墙配置是否正确:
-bash-2.05b# lsfw
service: oracle port: 1521 transport: tcp default rule: drop
   allow: address=172.31.0.13
   allow: address=172.31.0.14
service: telnet port: 23 transport: tcp-udp default rule: drop
service: ftp port: 21 transport: tcp-udp default rule: drop
service: tftp port: 69 transport: udp default rule: drop
service: ums port: 17789 transport: tcp default rule: drop
service: http port: 80 transport: tcp default rule: accept
3.3数据库同步
-bash-2.05b# su - cworks //切换位cworks用户
[cworks@pri cworks]$ cd /opt/3com/VCX/vcxdata/bin/
[cworks@pri bin]$ ./setupReplication
Copyright (C) 2005 3Com Corporation, All rights reserved.
Multi-Master Replication SETUP Start Configuring ....
Enter the VCX Site Identification i.e. Site Id: ?? []:1 // (SITE id 默认为1)
Enter the Number of MASTER SITEs other than the MASTER DEFINITION SITE [1]:
Enter the MASTER DEFINITION SITE IP Address [172.31.0.11]: //默认主服务器第一
个网口地址
Enter the MASTER SITE 1 IP Address [0.0.0.0]:172.31.0.13 //从服务器第一个网口
地址
完成同步配置,等待同步需要20分钟
(注意配置完成后不要启动tomcat和vcxdata的服务)
检查复制是否成功,相同的目录下输入命令
[cworks@pri bin]$ ./checkReplication,
同步成功显示:
VCXDATA1 Database
Multi-Master Replication STATUS:
*****
*****
3.3重起两台服务器的服务
[cworks@pri bin]$ exit
-bash-2.05b# cd /opt/3com/VCX/scripts/rc3.d/
-bash-2.05b# ./S20vcxdata start
-bash-2.05b# ./S70tomcat start
完成配置。
在话机上配置服务器地址的时候将主备服务器的地址分别设为主PBX地址和备PBX地
址即可正常主备注册。
四、配置关键点:
无
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