🔎 CAS3.0升级到5.0版本由于CVK主机使用LVM模式安装导致启动失败问题

蒋立明 2018-06-21 发表

组网及说明
无
问题描述
某局点因业务需要,将CAS E0306H06升级版本到E0509。升级完成后,在重启服务器过程中异常, 提示"check rootdelay= (did the system wait long enough?) -Check root=(did the system wait for th e right device) -Missing modules (cat /proc/modules;ls /dev)ALERT! /dev/mapper/cvknode5-root does not exist.Dropping to a shell!) ",长时间卡在这里,无法进入正常的蓝色XSconsole界面。
[0.077054] [Firmware Bug]: the BIOS has corrupted hw-PMU resources is 330) [1.383008] Error parsing PCC subspaces from PCCT Gave up waiting for root device. Common problems: - Boot args (cat /proc/cmdline) - Check rootdelay= (did the system wait long enough?) - Check root= (did the system wait for the right device?) - Missing modules (cat /proc/modules; ls /dev) ALERT! /dev/mapper/cvknode5-root does not exist. Dropping to a shell! BusyBox v1.18.5 (Ubuntu 1:1.18.5-1ubuntu4) built-in shell (ash) Enter 'help' for a list of built-in commands. (initramfs)
过程分析
从告警提示"/dev/mapper/cvknode5-root does not exist"可以确认现场部署CVK主机时是使用LVM模式 安装的(非推荐的安装方式)。该模式下在CAS3.0升级到5.0过程中,由于LVM卷的兼容性问题,故 导致在升级后无法正确识别到本地硬盘的系统分区。
解决方法
步骤1:挂载CAS安装镜像,重启服务器,从ISO光驱引导,进入正常的安装CAS操作流程。选择网卡,输入IP地址、网关、主机名等信息后,进入选择系统分区操作界面。(停留在此界面,不要点任何选项)
The installer can guide you throw in the installer can guide you throw in the tettor disks of the schemes) or, if you prefer, you will be used a chance later to reference content of the results. If you choose guided partitioning for an entire disk, you will next be asked which disk should be used. Partitioning method: Buided - reuse partition, LVM VG cvknode5, LV root Guided - use entire disk Guided - use entire disk
Guided – use the largest continuous free space Guided – use entire disk and set up LVM Guided – use entire disk and set up encrypted LVM Manual

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步骤2:按键盘"Alt+F2"进入CVK主机后台,执行如下命令步骤。

- 1) vgchange -ay
- 2) blkid查看挂载点信息
- 3) mount /dev/mapper/cvknode5-root /mnt (根据实际情况填写)

4) mount /dev/sda2 /mnt/boot (根据实际情况填写,由于Legacy和UEFI模式安装的不同,有可能出现/ dev/sda1和/dev/sda2两种情况)

- 5) chroot /mnt
- 6) bash
- 7) vi etc/lvm/lvm.conf (编辑lvm配置文件)



步骤3:修改/etc/lvm/lvm.conf配置文件,具体修改内容见如下图。 修改前:

<pre># By default we accept every block device: filter = ["r/block/", "r/disk/", "r/sd.*[1-9].*\$/", "a/.*/"]</pre>	
<pre># Exclude the cdrom drive # filter = ["rl/dev/cdroml"]</pre>	53,5

修改后:

	# Bu default we accent evenu block device:	
	filter = $["a/.*/"]$	
	# filter = ["r/block/", "r/disk/", "r/sd.*[1-9].*\$/", "a/.*/"]	
	# Exclude the carum arive	
	# filter = ["rl/deu/cdroml"]	
-	INSERT	54,25

步骤4:执行"update-initramfs -u"命令永久生效配置。

root@cvKnode55:/# update-initramfs -u update-initramfs: Generating /boot/initrd.img-4.1.0-generic root@cvknode55:/#

步骤5:两次exit退出当前路径后,重启服务器即可恢复正常。

update-initramfs: Generating /boot/initrd.img-4.1.0-generic root@cuknode55:/# exit exit # exit ~ # reboot