

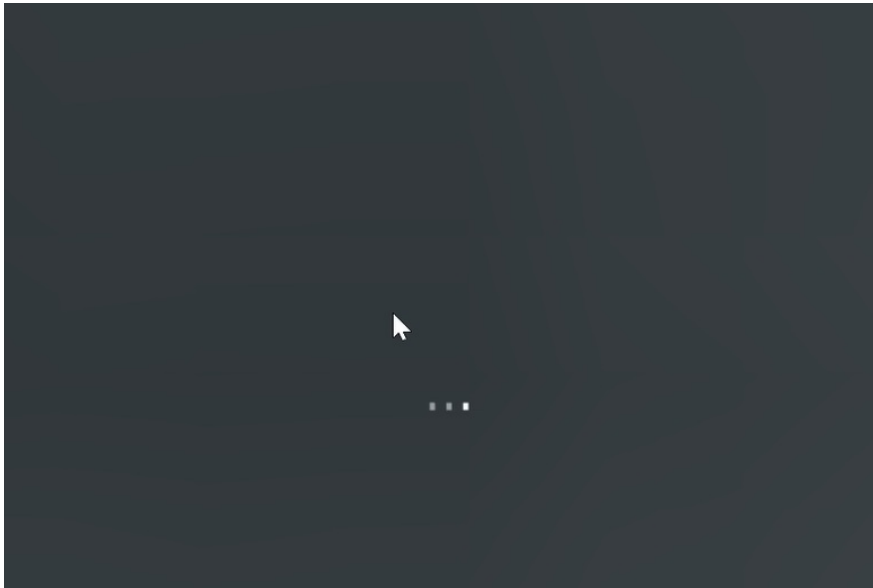


UIS平台redhat虚拟机开机后无法正常进入系统

芮恒 2022-04-09 发表

问题描述

redhat虚拟机启动后无法正常进入系统，卡在如下界面



过程分析

- 1、异常虚拟机完全克隆备份
- 2、克隆的虚拟机开机启动后按e键进入grub配置文件的编辑界面，删除rhgb和quiet参数，按Ctrl+x重新启动以跳过图形化启动界面。查看命令行打印后发现启动异常和/etc/rc.d/rc.local配置文件有关。

```
load_video
set gfx_payload=keep
insmod gzio
linux ($root)/vmlinuz-4.18.0-80.el8.x86_64 root=/dev/mapper/cl-root ro crashkernel=auto resume=/dev/mapper/cl-swap rd.lvm.lv=cl/root rd.lvm.lv=cl/swap rhgb \
quiet
initrd ($root)/initramfs-4.18.0-80.el8.x86_64.img $tuned_initrd

Press Ctrl-x to start, Ctrl-c for a command prompt or Escape to
discard edits and return to the menu. Pressing Tab lists
possible completions.
```

```
Stopping /run/user/0 mount wrapper...
[ OK ] Removed slice User Slice of UID 0.
[ OK ] Stopped /run/user/0 mount wrapper.
[ ** ] A start job is running for /etc/rc.d/rc.local Compatibility (48min 7s / no limit)
```

- 3、克隆机重启后按e键进入grub配置文件的编辑界面，添加init=/bin/sh参数，按Ctrl+x重新启动以进入单用户模式。

```
load_video
set gfx_payload=keep
insmod gzio
linux ($root)/vmlinuz-4.18.0-80.el8.x86_64 root=/dev/mapper/cl-root
rnel=auto resume=/dev/mapper/cl-swap rd.lvm.lv=cl/root rd.lvm.lv=cl/
quiet init=/bin/sh
initrd ($root)/initramfs-4.18.0-80.el8.x86_64.img $tuned_initrd
```

- 4、依次执行以下两条命令赋予文件读写权限。

```
mount -rw -o remount /
chmod +w /etc/rc.d/rc.local
```

```
[ 0.000000] Detected CPU family 15 model 6 stepping 3
[ 0.000000] Warning: Intel Processor - this hardware has not undergone upstre
am testing. Please consult http://wiki.centos.org/FAQ for more information
sh-4.4# chmod +w /etc/rc.d/rc.local
chmod: changing permissions of '/etc/rc.d/rc.local': Read-only file system
sh-4.4# mount -rw remount /
sh-4.4# chmod +w /etc/rc.d/rc.local
sh-4.4# vi /etc/rc.d/rc.local
```

- 5、执行vi /etc/rc.d/rc.local查看开机配置，发现现场自定义添加了mysql相关的开机启动命令，怀疑是该启动项一直无法成功导致开机卡住，无法进入系统。

```
#!/bin/bash
# THIS FILE IS ADDED FOR COMPATIBILITY PURPOSES
#
# It is highly advisable to create own systemd services or udev rules
# to run scripts during boot instead of using this file.
#
# In contrast to previous versions due to parallel execution during boot
# this script will NOT be run after all other services.
#
# Please note that you must run 'chmod +x /etc/rc.d/rc.local' to ensure
# that this script will be executed during boot.

touch /var/lock/subsys/local
/usr/local/mysql/bin/mysqld --defaults-file=/etc/my.cnf --user=mysql
```

解决方法

- 1、自定义启动项前添加#注释，:wq!保存文件后退出。

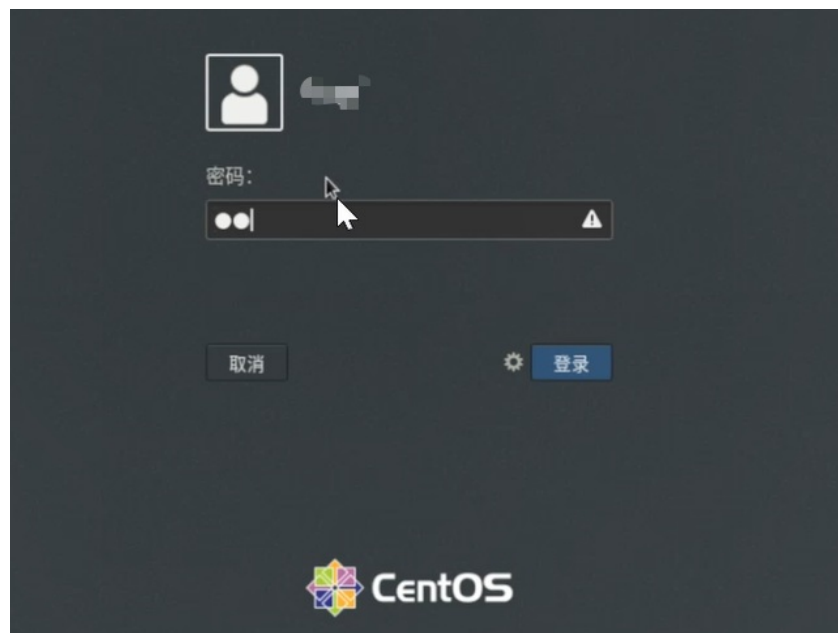
```
#!/bin/bash
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# Please note that you must run 'chmod +x /etc/rc.d/rc.local' to ensure
# that this script will be executed during boot.

touch /var/lock/subsys/local
#usr/local/mysql/bin/mysqld --defaults-file=/etc/my.cnf --user=mysql
```

- 2、执行exec /sbin/init退出单用户模式。

```
"/etc/rc.d/rc.local" 14L, 543C written
sh-4.4# exec /sbin/init
```

- 3、虚拟机再次执行重启，可正常进入系统。



- 4、确认克隆机系统各项正常后，以相同方法恢复原虚拟机。mysql相关的启动参数由系统业务侧进一步确认。

