服务的管理

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任务引入



系统和服务管理器systemd: 系统初始化进程

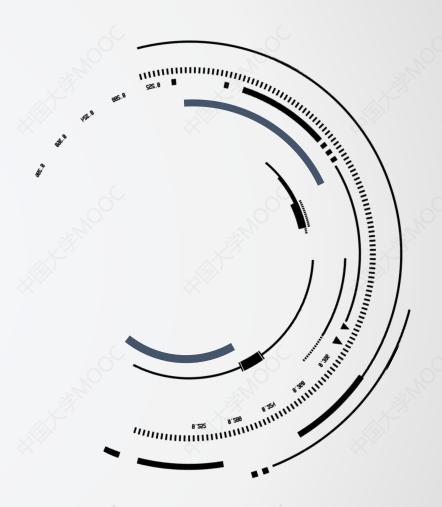
systemd可以管理所有的系统资源,不同的资源称为单元。



命令工具systemctl: 管理系统和服务的状态

systemctl控制单元时,使用单元文件的全名 (包括扩展名,若无扩展名,默认扩展名为.service)

如: netcfg = netcfg.service





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systemctl命令格式:

systemctl [选项] 命令 [单元文件名]

常用的命令为:

systemctl start [单元文件名]: 激活该单元

systemctl stop [单元文件名]: 停止该单元

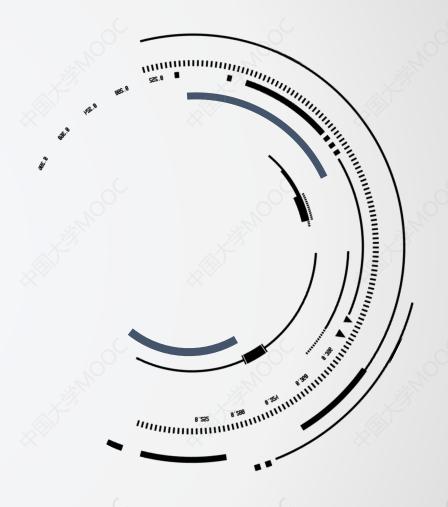
systemctl restart [单元文件名]: 重启该单元

systemctl status [单元文件名]: 查询单元运行状态

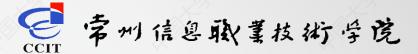
systemctl enable [单元文件名]: 开机自动激活该单元

systemctl disable [单元文件名]: 取消开机自动激活该单元

systemctl reload [单元文件名]: 重新读取单元的服务配置

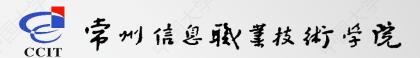






```
[root@ccit ~]# systemctl status sshd
   sshd.service - OpenSSH server daemon
   Loaded: loaded (/usr/lib/systemd/system/sshd.service; enabled; vendor preset: enabled)
   Active: active (running) since Sat 2021-01-02 18:46:19 CST; 1min 17s ago
    Docs: man:sshd(8)
           man:sshd config(5)
Main PID: 1030 (sshd)
   CGroup: /system.slice/sshd.service
           └─1030 /usr/sbin/sshd -D
Jan 02 18:46:19 ccit systemd[1]: Starting OpenSSH server daemon...
Jan 02 18:46:19 ccit sshd[1030]: Server listening on 0.0.0.0 port 22.
Jan 02 18:46:19 ccit sshd[1030]: Server listening on :: port 22.
Jan 02 18:46:19 ccit systemd[1]: Started OpenSSH server daemon.
Jan 02 18:46:37 ccit sshd[1309]: Nasty PTR record "192.168.200.1" is set up for 192.168.200.1, ignoring
Jan 02 18:46:37 ccit sshd[1309]: Accepted password for root from 192.168.200.1 port 60943 ssh2
Hint: Some lines were ellipsized, use -l to show in full.
```





[root@ccit ~]# systemctl disable sshd
Removed symlink /etc/systemd/system/multi-user.target.wants/sshd.service.
[root@ccit ~]# systemctl status sshd

sshd.service - OpenSSH server daemon

Loaded: loaded (/usr/lib/systemd/system/sshd.service; disabled; vendor preset: enabled)

Active: active (running) since Sat 2021-01-02 18:55:18 CST; 24s ago

① 服务**当前的启动状态**

disable

disable: 服务开机不启动

▶ enabled: 服务开机启动

inactive: 服务关闭

② 服务默认的启动状态

▶ static:服务开机启动项被管理

◆ failed: 服务配置错误

③ 服务当前状态:

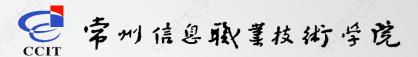
◆ active(running): 表示程序正在执行

◆ atcive(exited): 执行一次就正常退出的服务,不在系统中执行任何程序

◆ active(waiting): 正在执行中,处于阻塞状态,需要等待 其他程序执行完才能执行

◆ inactive (dead):未启动状态





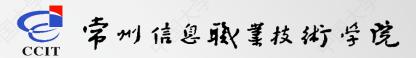
- ◆ sshd服务当前的状态: inactive (dead),未启动状态
- ◆ sshd服务默认的启动状态: enabled, 服务开机启动
- ◆ sshd服务当前的启动状态: disabled, 服务开机不启动

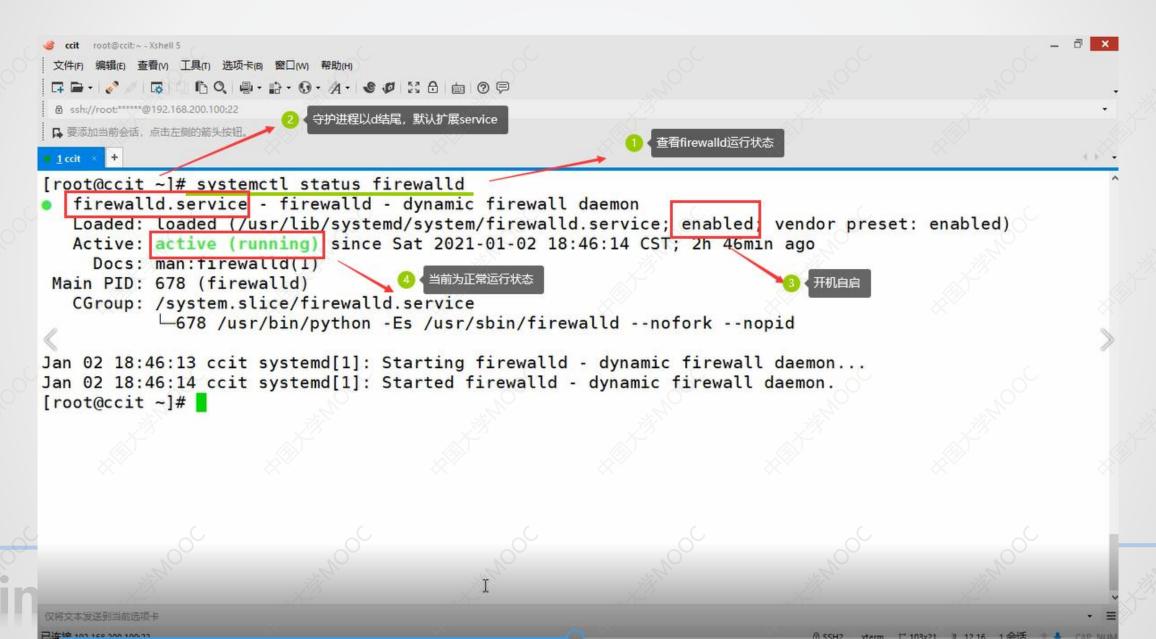


操作演示



firewalld服务管理





```
Main PID: 678 (firewalld)
   CGroup: /system.slice/firewalld.service
           -678 /usr/bin/python -Es /usr/sbin/firewalld --nofork --nopid
Jan 02 18:46:13 ccit systemd[1]: Starting firewalld - dynamic firewall daemon...
Jan 02 18:46:14 ccit systemd[1]: Started firewalld - dynamic firewall daemon.
[root@ccit ~]# systemctl stop firewalld
[root@ccit ~]# systemctl disable firewalld
Removed symlink /etc/systemd/system/multi-user.target.wants/firewalld.service.
Removed symlink /etc/systemd/system/dbus-org.fedoraproject.FirewallD1.service.
                                               再次查看firewalld服务运行状态
[root@ccit ~]# systemctl status firewalld

    firewalld.service - firewalld - dynamic firewall daemon

   Loaded: <a href="loaded">loaded</a> (/usr/lib/systemd/system/firewalld.service; disabled; vendor preset: enabled)
   Active: inactive (dead)
     Docs: man:firewalld(1)
Jan 02 18:46:13 ccit systemd[]: firewalld服务未启动 firewalld - dynamic 字i 开机自启动已关闭
Jan 02 18:46:14 ccit systemd[1]: Started firewalld - dynamic firewall daemon.
Jan 02 21:33:33 ccit systemd[1]: Stopping firewalld - dynamic firewall daemon...
Jan 02 21:33:34 ccit systemd[1]: Stopped firewalld - dynamic firewall daemon.
[root@ccit ~]#
                                                                                  xterm 「103x21 2 21.16 1会话
```



感谢您的观看!

