

Server Services, cont'd, cont'd

Hands-On Unix Systems Administration Decal

2012-03-19

NFS

- /etc/fstab file contains file systems to mount
- NFS can be extension of that
- Automount can also be used for NFS
- Usually need to be root to mount anything

Daemons

- A program that runs in the background is called a daemon
- Many services run as daemons, including Apache and SSH
- Services are frequently controlled by init scripts
- Some daemons have their own management tools (e.g., `apache2ctl`)

Init.d

- Used primarily by Debian
- Still has rc*.d, where * = 0,1,2,3,4,5,6, and S
 - Folders are in /etc
 - Symbolic links to /etc/init.d
- E.g. /etc/init.d/ssh restart will restart your SSH server
 - /etc/init.d/ssh {start|stop|reload|force-reload|restart|try-restart|status}

Super-Server Daemon

- A super-server daemon listens on multiple ports
 - Spawns other server processes to handle incoming requests
- Inetd connects network sockets to server processes' stdin and stdout
 - Makes it really easy to write your own server!
- Other super-servers: xinetd, launchd, etc.

General Run Levels

Run Level	Name	Description
0	Halt	Shuts down the system
1	Single-User Mode	Mode for administrative tasks
2	Multi-User Mode	Does not configure network interfaces and does not export networks services
3	Multi-User Mode with Networking	Starts the system normally
4	Not used/User-definable	For special purposes
5	Start the system normally with appropriate display manager (with GUI)	Same as runlevel 3 + display manager
6	Reboot	Reboots the system

Debian Run Levels

Run Level	Name	Description
0	Halt	Shuts down the system
1	Single-User Mode	Mode for administrative tasks
2-5	Full Multi-User with console logins and display manager if installed	Combination of general run levels 2-5
6	Reboot	Reboots the system