

Confining the User Dan Walsh, Red Hat

Confining the User

Prevent the user from doing things on a computer that you do not want them to do.

Stop malicious software accidentally installed by a user from taking over the machine.

Control either accidental or malicious information flow.

Protect user data.

SELinux in Fedora 2 confined the user

BUT...





So what kind of users can you confine?



Minimal User "guest" account

- Hotel California
 - You can check in anytime you want, but you can never leave!
- Confinement
 - No Setuid
 - No home directory /tmp execution
 - No Networking
 - No X Windows
- System Types
 - Web Site management
 - Git Accounts
 - Terminal Servers
 - Shell Servers





G v us army

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File Edit View History Bookmarks Tools Help

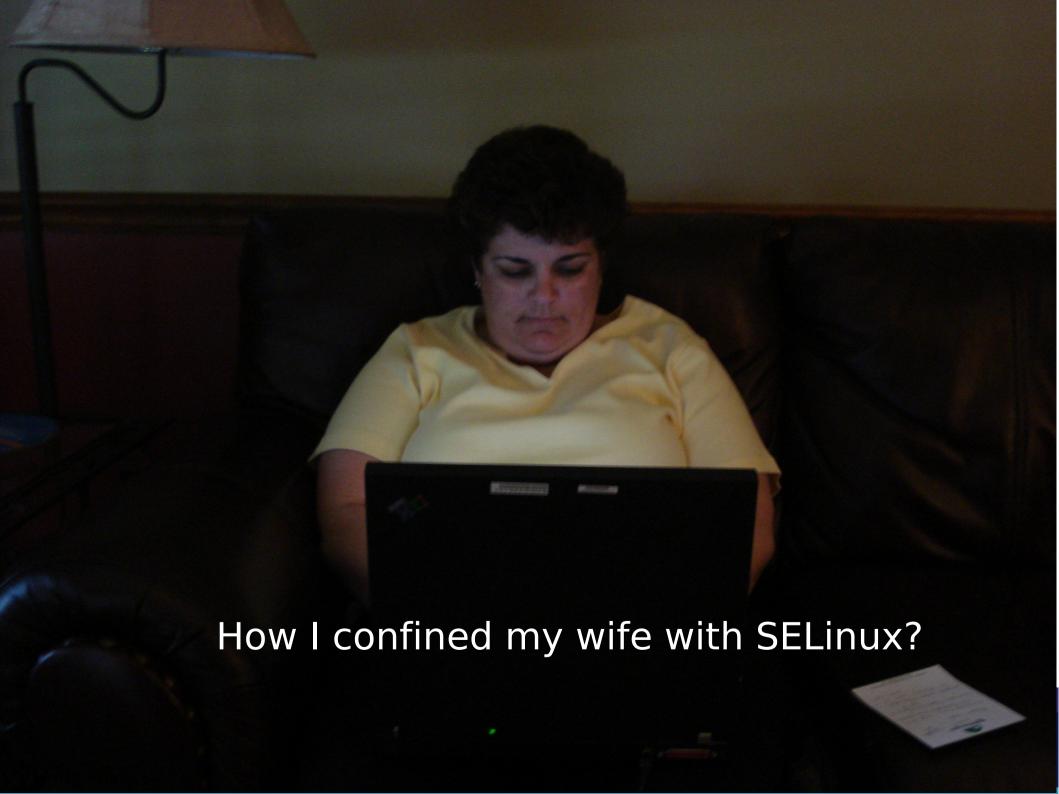
SELinux

Information

My Blog Fedora Red Hat Enterprise Linux National Security Agency (NSA)

<u>Repositories</u> <u>Presentations</u>









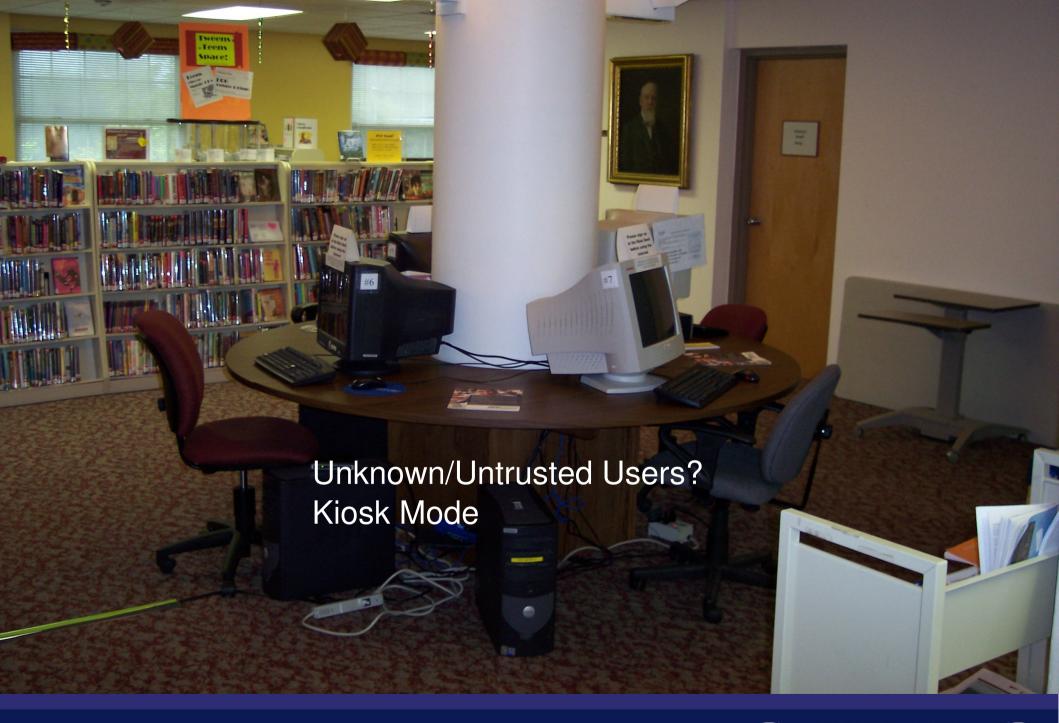
And these?













Red Hat Non-Technical Staff





Bosses?





CEOS?









How do I set it up?

- Xguest yum install xguest
- Default all users to user t semanage login -m -s user u default
- How did I setup my account? semanage user -m -R "unconfined_r staff_r system_r webadm_r" staff_u semanage login -a -s staff u dwalsh echo " dwalsh ALL=(ALL) ROLE=webadm r TYPE=webadm t ALL dwalsh ALL=(ALL) ROLE=unconfined r TYPE=unconfined t /bin/su eof

">> /etc/sudoers



How do I confine the unconfined?

Setup nsplugin confinement

```
yum install nspluginwrapper
setsebool -P allow_unconfined_nsplugin_transition 1
restorecon -R -v ~
Restart firefox
Your on your own for finding xspy :^)
```

Setting up executable memory checks.

```
setsebool -P allow_execmem=0 allow_execmod=0 allow_execstack=0 \ allow_exec_heap=0
```

setenforce 1



Oh yeah one more step.

setenforce 1

How do I create my own confined user?

http://www.redhatmagazine.com/2008/04/17/fedora-9-and-summit-preview-confining-the-user-with-selinux/

http://www.redhatmagazine.com/2008/07/02/writing-policy-for-confined-selinux-users/

