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Local Authentication in Linux

# User Authentication and Logging

## Getting Started

ls /var/log/

## How to do it...

1. lastb root
2. dmesg
3. dmesg | grep USB
4. tail -n 10 /var/log/auth.log
5. last
6. lastlog

# Limiting Login Capabilities of Users

## How to do it...

1. cat /etc/passwd | grep sslh
2. su sslh
3. usermod -s /usr/sbin/nologin user1
4. su user1
5. cat /etc/shadow
6. passwd -l user1
7. cat /etc/shadow | grep user1
8. passwd -u user1
9. passwd -S user1
10. passwd -S user2
11. usermod -L user1
12. usermod -U user1

# Monitoring User activity using acct

## Getting Started

apt-get install acct

ls

tar -zxvf acct\_6.5.5.orig.tar.gz

cd acct-6.5.5/

./configure

make

make install

## How to do it?

1. ac
2. ac -d
3. ac -p
4. ac user1
5. ac user2
6. ac root
7. lastcomm root

# Login Authentication using USB device and PAM

## How to do it…

1. sudo apt-get install pamusb-tools libpam-usb
2. sudo pamusb-conf --add-device usb-device
3. sudo pamusb-conf --add-user user1
4. su user1
5. sudo fdisk –l
6. su user1

## There’s more...

<agent event=”lock”>gnome-screensaver-command -l</agent>

<agent event=”unlock”>gnome-screensaver-command -d</agent>

# Defining User Authorization Controls

## How to do it...

1. su user2
2. whoami
3. sudo -u user1 ps
4. user2 ALL = (user1) /bin/ps
5. su user2
6. whoami
7. sudo -u user1 ps
8. user2 ALL = (user1) NOPASSWD: /bin/ps
9. Defaults:user1 timestamp\_timeout = 0
10. user1 ALL = /usr/bin/passwd user2, /usr/bin/passwd user3