☐ LINUX FOUNDATION

Managing User Accounts

A Linux Foundation Training Publication www.training.linuxfoundation.org (c) Copyright the Linux Foundation 2015. All rights reserved.

Overview

Each user of a Linux system has an account, with various attributes that identify the user, allow a user to be a member of a group, have a password, set a specific shell on login, and grant ownership or execution permissions to run programs or edit files. Therefore, it is important to be familiar with managing users on a Linux system.

Key Ideas

useradd: the tool that is present on most Linux systems, which allows a privileged user to create new users and set various attributes for the new user

usermod: utility to modify existing user accounts

userdel: a utility to delete a user from a Linux system

passwd: a tool to set a password, lock an account, expire a password

chage: utility to change user password expiry information in /etc/shadow

/etc/passwd: file that contains user account information

/etc/shadow: file that contains encrypted user passwords

/etc/group: file that contains the group information for a user

Example Scenario

Create a new user with a corresponding named group as their primary group ID. Make some changes to the user, like setting a shell to use on login, change or set their password, alter their home directory, create an expiry date for their account, lock their account, and then delete the user.

Now Do It

- 1. Create a user 'testuser', making sure that their primary group has the same name as the user.
- 2. Add 'testuser' to the 'adm' group
- 3. Examine the /etc/group file and look at the 'adm' group to see that testuser is present
- 4. Examine /etc/shadow and look at the information for the testuser account
- 5. Set a password for the user

Local System Administration - Managing User Accounts

- 6. Reexamine /etc/shadow and notice the encrypted password for the testuser account
- 7. Change the testuser's home directory to /tmp/testuser
- 8. Change the testuser's shell to /bin/sh
- 9. Add an expiry date to the user's account using the usermod tool
- 10. Reexamine /etc/shadow and notice the last field, which is the number of days since Jan 1, 1970 until the date that the user's password expires
- 11. Verify the password expiry date using the chage utility
- 12. Check the testuser's password status using passwd utility
- 13. Lock the 'testuser' account
- 14. Examine the lock status for the testuser account using the passwd utility
- 15. Delete the testuser account
- 16. Shutdown the system.

If you remember nothing else...

useradd is the tool that is used to add an account to a Linux system. usermod can be used to change a user's groups or password lock. userdel is used to delete a user.

Answer Key

- 1. useradd -U testuser
- 2.usermod -G adm testuser
- 3.cat /etc/group | grep testuser or grep testuser /etc/group
- 4.grep testuser /etc/shadow
- passwd testuser
 99999 in the fifth field of the output of this command indicates the password never expires.
- 6.grep testuser /etc/shadow
- 7. usermod --home /tmp/testuser testuser
- 8.usermod --shell /bin/sh testuser
- 9. usermod --expiredate 2030-01-01 testuser
- 10. passwd -S testuser
- 11. chage --list testuser
- 12. passwd -S testuser
- 13. passwd -l testuser
- 14. passwd -S testuser
- 15. userdel testuser
- 16. sudo shutdown -h now (Ubuntu) systemctl poweroff (CentOS / openSUSE)

☐ LINUX FOUNDATION

Get Certified!

Get more information at http://training.linuxfoundation.org/certification/lfcs