OPS235: Week 4



Part 2 – Misc System Admin

Lab 4 – Part 2 - Topics

Lab Time

- Package Management
 - Purpose
 - Install / Remove Packages
 - Comparison of yum & rpm
- User / Group Management
 - Purpose
 - /etc/passwd, /etc/group
 - Add / Remove <u>users</u> and <u>groups</u>



- Obviously, managing disk space or creating virtual machines is not the <u>only</u> job a system administrator performs.
- It is a necessary job for Unix, Linux system administrators to perform other routine tasks such as adding/removing software as well as adding/removing user accounts.

Package Management

- Why is it important to query software with rpm?
- What types of additional options for an rpm query?
- How to add/remove applications with rpm?
- How to add/remove applications with yum?
- What are the differences with rpm and yum?

Managing Users

- Ability to create users, and the use of groups allows system to be more secure (safe).
- For example, system administrators should only login as "super-user" for special admin tasks since "super-user" has no restrictions on permissions and do damage from everyday use.
- Users can be viewed as records in /etc/passwd . What does each field represent?
- The "x" in the password field indicates the password is shadowed (in a file that only root can access)



- Purpose:
 - Ability to create users, and the use of groups allows system to be more secure (safe).
- How to add / remove user graphically?
- How to add / remove user by command-line?
- Which method would you use?
- What does the term **UID** represent?

Group Management

- Purpose:
 - Groups allow for protection to allow users to belong to particular groups for file sharing and file security. Imagine the chaos if any user could access and write any file for any user? Although, there may be special situations where you would want file sharing (eg. Project planning, etc...)
- Groups are stored and managed via the /etc/group file.



- How to view group information?
- How to add/remove groups?
- What does the term GID represent?
- How to add users to existing groups?
- How to automate user and groups assignment (so you don't have to manually perform these tasks every time you create a user account)?