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CSCI 4113

Lab 4 Writeup

For this lab I used a puppet manifest.

1. Set up accounts on all machines for all D-M employees and yourself.  Each user should have a username of the form *first-initial last-name*, password, unique uid, unique gid, /path/to/login/shell, and /path/to/home/directory/.  The grading script is very strict about user names.  **usernames must be all lowercase with no punctuation.** Account data must be the same on all machines.  The Gecos field does not matter.  
     
   All user accounts use this structure.  
   1. user { "arutherford":
   2. uid => "504",
   3. ensure => present,
   4. comment => "Andrew Rutherford",
   5. password => '$1$rl8gMEJP$Ebn/aG8WI5WRVcH27zilw1',
   6. gid => "arutherford",
   7. groups => ["managers","accounting","sales"],
   8. membership => minimum,
   9. shell => "/bin/bash",
   10. home => "/home/arutherford",
   11. managehome => true,}

Password was set up using openssl: openssl passwd -1 and hashing password ‘password’ for all users.

1. Home directories must exist for all users.  All home directories on all machines must be initialized with the contents of **/etc/skel/** and owned by the appropriate *user* and *user-private-group*.
2. file { '/home/arutherford':
3. ensure => "directory",
4. owner => 'arutherford',
5. group => 'arutherford',
6. mode => '2755',

}

1. Create*secondary groups* for **managers**, **sales**, and **accounting**. The grading script checks for these exact names.  Add the appropriate users to these*groups* based on the org chart.
   1. group { "managers":
   2. ensure => "present",
   3. gid => "600",
   4. }
   5. group { "sales":
   6. ensure => "present",
   7. gid => "700",
   8. }
   9. group { "accounting":
   10. ensure => "present",
   11. gid => "800",
   12. }
2. Create a shared directory under **/home/**on the file server (machine E) for each *secondary group* you created, with permissions such that only the user owner and members of the group owner can read, write, and execute files.  New files and folders created under these shared *directories* must inherit the *group id* of the parent *directory*, not that of the *process* that creates them.
   1. file { '/home/managers':
   2. ensure => "directory",
   3. owner => 'mscott',
   4. group => 'managers',
   5. mode => '2770',
   6. }
   7. file { '/home/accounting':
   8. ensure => "directory",
   9. owner => 'mscott',
   10. group => 'accounting',
   11. mode => '2770',
   12. }
   13. file { '/home/sales':
   14. ensure => "directory",
   15. owner => 'mscott',
   16. group => 'sales',
   17. mode => '2770',}