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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',
7. }
```

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.
6.  group { "sales":
7.      ensure => "present",
8.      gid => "700",
9.  }
10.
11. group { "accounting":
12.     ensure => "present",
13.     gid => "800",
14. }

```

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.
8.  file { '/home/accounting':
9.      ensure => "directory",
10.     owner => 'mscott',
11.     group => 'accounting',
12.     mode => '2770',
13. }
14.
15. file { '/home/sales':
16.     ensure => "directory",
17.     owner => 'mscott',
18.     group => 'sales',
19.     mode => '2770' }

```