Adam Comella
Jay Smith

Practical File Permissions

Changing the Owner: chown

- `chown` **NEW_OWNER FILES**

- You must be a superuser to change the owner of a file

Changing the Owner: chown

- `ls -l`

  ```
  jay@ubuntu:~/examples$ ls -l
  total 0
  -rw-r--r-- 1 jay jay 0 2010-01-26 11:22 important_file
  ```

  - file is owned by **jay**

- `sudo chown root important_file`

  ```
  jay@ubuntu:~/examples$ sudo chown root important_file
  jay@ubuntu:~/examples$ ls -l
  total 0
  -rw-r--r-- 1 root jay 0 2010-01-26 11:22 important_file
  ```

    - Only **root** can change file owners so we had to use **sudo**

    - Now the file is owned by **root**

Changing the Group: chgrp

- `chgrp` **`NEW_GROUP FILES`**

- To change the group you must:
  - own the file
  - be a member of the new group of the file

Changing the Group: chgrp

- `ls -l`

```
jay@ubuntu:~/examples$ ls -l
total 0
-rw-r--r-- 1 jay jay 0 2010-01-26 11:22 important_file
```

- group of file is **jay**

- `chgrp adm important_file`

```
jay@ubuntu:~/examples$ chgrp adm important_file
jay@ubuntu:~/examples$ ls -l
total 0
-rw-r--r-- 1 jay adm 0 2010-01-26 11:22 important_file
```

- now the group is **adm**

Changing the Group: chgrp

- `chgrp daemon important_file`

```
jay@ubuntu:~/examples$ chgrp daemon important_file
chgrp: changing group of `important_file': Operation not permitted
```

- `chgrp` **failed**

- you must be a member of the new group

- `groups`

```
jay@ubuntu:~/examples$ groups
jay adm dialout cdrom plugdev lpadmin sambashare admin
```

- jay is **not** a member of daemon

Changing the Permissions: chmod

- `chmod` **MODE FILES**

- **MODE**
  - [u, g, o] [+ / -] [r, w, x]
  - **u**ser, **g**roup, **o**ther
  - **r**ead, **w**rite, e**x**ecute