Table of contents

Command Line

Using man pages

Assigning permissions

Altering file permissions with chmod

User accounts

Changing account types

Account policies

Making sure a standard user can’t use sudo

Turning off the guest account

Security

Enabling the firewall

Antivirus software

Shredding files

Editing the PAM password file

Services

Installing

Using man pages

To learn more about a command or program, us the man command followed by the name of the command that you have chosen. To read a man page, such as the one for the command, rm, type what you see below:

Matthew@seymour:~ $ man rm

Once you press enter, a page will pop up with the information on the command. Once you are in the document you can press h for help, / to enter a search string, and q to quit.

Assigning permissions

Permissions are grouped by owner, group, and other, with read ,write, and execute permissions assigned to each as followed.

|  |  |  |
| --- | --- | --- |
| Owner | Group | Others |
| rwx | rwx | rwx |

Permissions can be indicated by mnemonic or octal characters, Mnemonic characters are listed here:

R - indicates permission for an owner, member of the owner’s group, or others to read the document

W - indicated permission for an owner, member of the owner’s group, or others to write on to the document

X - indicated permission for an owner, member of the owner’s group, or other to execute the file

Matthew@seymour:~ ls -l (filename)

-rw-r-r- 1 matthew matthew 02013-06-30 13:06

In this example, matthew, (the owner) has read and write permissions. Any member of the group named matthew can only read this file. Other’s can only read the file as well.

Altering file permissions with chmod

Chmod can be used to alter a file’s permissions. You can use chmod to add, remove, or modify file permissions.

You can use the + to add permissions or - to remove permissions

U - adds or removes owner read, write, or execute permissions

G- adds or removes owner read, write, or execute permissions

O- adds or removes owner read, write, or execute permissions

A - adds or removes owner read, write, or execute permissions

R - adds or removes read permission

W - adds or removes write permission

X - adds or removes execute permission

Example:

Matthew@seymour:~$ chmod a-w readme.txt

matthew@seymour:~$ ls -1 readme.txt

-r-r-r-1 matthew matthew 02013-06-30 13:06 readme.txt

Changing file permissions

You can use the chown command to change the owner of a file

matthew@seymour:~$ chown matthew (filename)

User accounts

Ubuntu is similar to windows with user accounts. You can change the account type of a user and their password. You can also delete and add users within the user accounts page. There is an image below that will help you locate all of the buttons and what they do.

Once you enter the user accounts menu you will see something like this. (Without the colored boxes) The blue box