



Attribute Attribution

Introduction and/or Background

The **attr** utility allows the manipulation of extended attributes associated with filesystem objects from within shell scripts. The command can get, list, remove, or set/create object attributes.

Objectives

In this project/lab the student will:

- Gain familiarity with the **attr** command

Equipment/Supplies Needed

- As specified in Lab 0.0.1.

Procedure

Perform the steps in this lab in the order they are presented to you. Answer all questions and record the requested information. Use the Linux Virtual Machine to perform lab activities as directed. Unless otherwise stated, all tasks done as a non-root user. If root access is needed use the `sudo` command.

Assignment

Turn on the Debian VM1 (if it's not already).

Open a Terminal and switch to the root user.

1 `su -`

Install the `attr` package:

2 `apt-get install attr`

Create the `dir1` directory:

3 `mkdir /root/dir1`

Create a test file with some dummy data in it:

4 `echo "This is a test file" > /root/dir1/test.txt`

Switch to the dir1 directory:

5 `cd /root/dir1/`

Verify the test.txt file was created successfully:

6 `more test.txt`

Add an extended attribute to the test.txt file:

7 `setfattr -n user.comment -v "Test comment" test.txt`

Check the value of the attribute:

8 `getfattr -n user.comment test.txt`

Add another extended attribute to the test.txt file:

9 `setfattr -n user.comment2 -v "Additional comment" test.txt`

View all the extended attributes attached to a file:

10 `getfattr -d test.txt`

11 **Take a screenshot** of the extended attributes.

View only attributes that meet a specific criteria:

12 `getfattr -d test.txt | grep Additional`

13 **Take a screenshot** of the output.

Rubric

Checklist/Single Point Mastery

<u>Concerns</u> Working Towards Proficiency	<u>Criteria</u> Standards for This Competency	<u>Accomplished</u> Evidence of Mastering Competency
	Criteria #1: Screenshot showing extended attributes with getfattr -d test.txt (50 points)	
	Criteria #2: Screenshot showing extended attributes with getfattr -d test.txt grep Additional (50 points)	