

Linux Administration with sed and awk

Getting Started



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“

Knowledge is power.

□ Francis Bacon

”

DIY 'r' Us



Danny has taken the role as the new Linux Administrator for a DIY store. Unfortunately there has been a little too much **DIY Linux Administration** so Danny will need to work effectively to improve the situation.

What Danny Is to Implement

grep

Regular Expressions

sed and awk

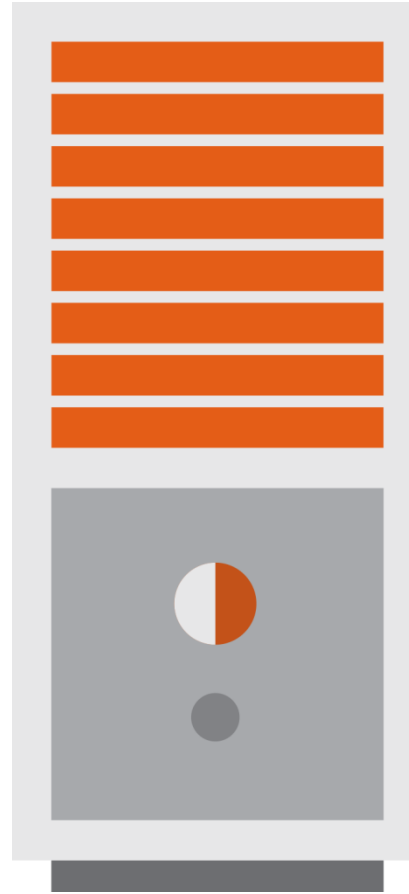
A Better lastlog Output

Extract XML Data

Summarize Logs

What to Bring

What do you need to work
similarly to Danny



The examples in this course
work with **Ubuntu 14.04 LTS**;
however any recent Linux, Unix
or OS X systems should suffice

Relationship to other Courses

This is a standalone course and based on real-world examples rather than being tied to any specific exam objectives. You will require some Linux command line skills. If you need to brush up on those skills then try...



grep --version

```
$ declare -f | grep '^[a-z_]'
```

What can Danny teach me about grep?

You probably already know that using **declare -f** will show function's definitions

Danny will show you this and more; filtering the output of declare to **show function names** only beating both declare -f and -F



Demo Time: Take a Quick Tour of grep



sed --version

```
$ sed -i.commented '/^#/d; /^$/d' /etc/ntp.conf
```

Danny can show you how to automate file edits

There is a lot to be done at DIY 'r' Us and Danny needs plenty of automation to ensure tasks are completed accurately, reliably and on time

Here, Danny creates a backup copy **whilst** editing the original file



Demo Time: Take a Quick Look at sed

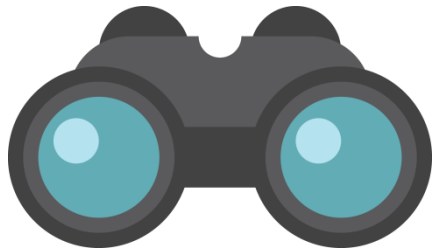
awk -W version

```
$ ifconfig eth0|awk -F": " '/HWaddr/{ print $3 $4 $5 $6 $7 }'
```

Danny wants to show how simple it can be to use awk

The awk command has immense power and is the key to your knowledge and power as it has been for Danny

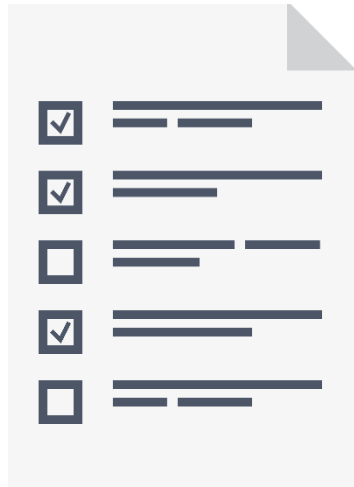
Here Danny isolates the **MAC Address** from a network interface



Demo Time: Are You Ready for awk?

Now Danny is a busy man and he needs to
move on so let's wrap this module up

Summary



Introduced Danny and the course

grep

sed

awk

Next up we will look more at grep and use it to parse information from CSV files