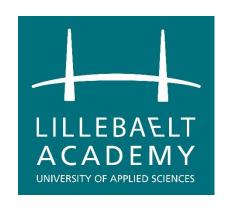
IT Technology LIN 13 Linux File statistics and HTML reporting script. 2017.06.11



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Introduction

This document shows basic file statistic implementation in an HTMLreporting script. The audience of this document are the teachers and any of our classmates who is interested in to check. The audience must have done and understand chapter 18 and 19 in "THE LINUX COMMAND LINE. by William E. Shotts"

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LIN 13 File statistics and HTML reporting script.

```
# test-file: Evaluate the status of a
file FILE=~/.bashrc
if [ -e "$FILE" ]; then
    if [ -f "$FILE" ]; then
        echo "$FILE is a regular file."
    if [ -d "$FILE" ]; then
        echo "$FILE is a directory."
    fi
    if [ -r "$FILE" ]; then
        echo "$FILE is readable."
    fi
    if [ -w "$FILE" ]; then
        echo "$FILE is writable."
    fi
    if [ -x "$FILE" ]; then
        echo "$FILE is executable/searchable."
else
    echo "$FILE does not
    exist" exit 1
fi
exit
```

Merge the above program with what was learned about the HTML report. Make a report for a given file on the system. It is out of scope here to be able to choose or input which file to investigate. This would e.g. require the involvement of a web server and a cgi script. E.g. php or Pyhton.

Let's create a file what will we use in the web browser later on:

root@ubuntu:/bin# nano assignment.sh

In edit mode we add the basic HTML structure and then change a bit:

Furthermore, lets copy and past the program above the example:

```
myTITLE="System information Report from $HOSTNAME"
echo "<HTML>
            <HEAD>
                   <TITLE>$myTITLE</TITLE>
            </HEAD>
            <BODY>
     </BODY>
                  <H1>$myTITLE</H1>
FILE=/bin/assignment.sh
f [ -e "$FILE" ]; then
f [ -f "$FILE" ]; then
echo "$FILE is a regular file.<br>"
f [ -d "$FILE" ]; then
echo "$FILE is a directory.<br>"
f [ -r "$FILE" ]; then
echo "$FILE is readable.<br>"
lf [ -w "$FILE" ]; then
echo "$FILE is writable.<br>"
f [ -x "$FILE" ]; then
echo "$FILE is executable/searchable.<br>"
echo "$FILE does not exist" exit 1
```

The HTML code can be integrated in a bash script. We started with that at the 1st line:

#!/bin/bash

We declared a variable:

myTITLE="System Information Report \$HOSTNAME"

Please note that spaces are not allowed here.

We added
because we want the truth statuses to follow each other in new lines.

Then redirect the output of the script to a file and point your browser to the file:

assignment.sh < assignment.html

The content of the html file will be then:

In the browser it looks like this:

• 🛈 file:///bin/assignment.html

System information Report from ubuntu

/bin/assignment.sh is a regular file. /bin/assignment.sh is readable. /bin/assignment.sh is writable. /bin/assignment.sh is executable/searchable.

To be able to add the output from the date command as a variable we can use tha (`) back quotation mark:

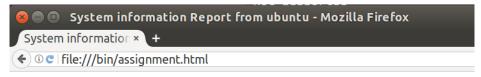
root@ubuntu:/bin# d=`date`
root@ubuntu:/bin# echo \$d
Sat Jun 10 04:05:36 PDT 2017

Note that spaces are not allowed:

root@ubuntu:/bin#d=`date"+%m"`

Then add the date to the system report:

Refresh the page in web browser and note the result:



System information Report from ubuntu

Generated 06/10/2017 01:18:24 PM CEST, by root

/bin/assignment.sh is a regular file. /bin/assignment.sh is readable. /bin/assignment.sh is writable. /bin/assignment.sh is executable/searchable.

As we can see the System Report shows the Hostname, we see the exact date, time and then which mode were we when executed the command. Furthermore we can see the file is a regular one, it's readable, writable and executable/searchable.

Conclusion

When we went in details of the exercise it was really useful, and learn a lot about HTML implementation.