

ECS 198F Sample Report:

I've taken the liberty of reusing two linux quiz questions I wrote for Matt Butner's ECS 036A class as an example for how the report should look like. I have included comments on the margin to give some more in depth insight as to how the grading will look like.

Commented [1]: They look like this

Make directory (mkdir) View...

Write a command that creates the following directories in the current directory:

```
vi
Documents
screenshots
CPrograms
```

\$?

Save & Grade Save only New variant

Input and Output redirection View...

Now that you are familiar with input and output redirection, we can combine the two in your everyday programming assignments.

Very often, you would want to redirect input from a file (to prevent the constant typing of the same input when testing) and also capture the output for use in comparing with the expected output (e.g. with the `diff` command).

Write a single command to redirect the contents of the file `giac` as input into your program `./conversions.out` and save the output of your program to the file `notes`.

\$?

Save & Grade Save only New variant

The sample report starts next page:

ECS 198F Assignment 0: Sample linux questions

Executive summary

This report showcases the expectation of deliverables via two sample questions. I found the questions straightforward and easy to complete. The total time taken is half an hour.

Commented [2]: For the first couple of assignments, the summary can be very brief. As the course progresses, you will want to consider adding additional information that summarizes the report. For example, in an offensive report, you can highlight the number of vulnerabilities found. In a defensive report, you can explain in brief how you hardened the system.

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Commented [3]: part of structure

Technical Findings

Question a

I ran the command `mkdir vi Documents screenshots CPrograms` with all four of the directories as the `man` pages indicates you can have more than one directory names as its arguments.

```
MKDIR(1)

NAME
  mkdir - make directories

SYNOPSIS
  mkdir [-pv] [-m mode] directory_name ...

> ls
> mkdir vi Documents screenshots CPrograms
> ls
CPrograms  Documents  screenshots vi
```

As shown above, prior to running the command, there is nothing in the current directory and after running the command, the four directories are created.

Commented [4]: Having headings helps with structure. Tells me what I'm looking for. (That's 10% of the grade)

Commented [5]: You do not need to break down technical findings into Methodology, Reproducibility, and Evidence per question. They should be integrated directly into the answer.

Commented [6]: This is not inherently needed but if in doubt, always include more evidence. Worse case scenario is I ignore it. I won't penalize you for making your reports too long (within reason of course).

Question b

One can use the command `./conversions.out <giac >notes`.

This works as the input redirection (<) takes in all the contents of `giac` and pipes them into the program `conversions.out` while the output redirection (>) takes the program output that nominally goes to `stdout` to a different file called `notes`.

Analysis

I successfully created a sample report with the two sample questions with comments listed on the side for more in depth insights.

Commented [7]: Notice that there is no screenshot here as there isn't an actual program on my computer called `conversions.out`. In assignment 1, such an answer suffices. However, for anything that you can run (like part 2 of assignment 1 and most future assignments), you are expected to provide screenshots.

Commented [8]: Here, we write out the justification of why this answer is correct in words.

Commented [9]: If you have feedback about the assignment, feel free to include it here as well. Otherwise, include any necessary comments about the work you have done (like how the company can better improve their security posture with the findings you have).