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| Bahrain Polytechnic |
| Unix Systems |
| Lab Session 6 |
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# Lab session 6 – Revisions, Ethics

## Introduction

The lab work consists of practical tasks. You will complete the tasks in sequence which will result in a text being uploaded to Moodle.

**Note: Each Lab session is worth 1% of your final mark**

### **Learning Outcomes Assessed**

The following learning outcomes are being assessed in this lab session:

* Use the command-line on a UNIX system
* Manage a Linux server system (including files, processes, users, mail)

## Lab 6

1. On Moodle, sign the Ethical Code of Conduct for systems adminstrators.
2. Processes, Pipes, Grep and email
   1. List **all** processes currently running in the **full** format

**Ps -ef**

* 1. Extend the command from question 2a so that it will return only the ‘**ssh**’ processes  
     Hint: You will need to use a pipe and text (string) filter

**Ps -ef | grep shh**

* 1. Using the appropriate command, redirect the output of question 2b to a file named ‘**ssh\_list\_*studentID*.txt**’

**Ps -ef | grep ssh > ssh\_list\_202201043.txt**

1. Revisions
   1. Copy to your home folder the file called **mid\_semester\_revision.txt** located in **/home/lab\_files**.

**Cp /home/lab\_files/mid\_semester\_revision.txt ~**

* 1. Open a 2nd terminal and login. In terminal 1, Open the file mid\_semester\_revision.txt in VI and answer the questions. In terminal 2, you can test the commands to use.

**Vi mid\_semester\_revision.txt**

1. Concatenate the two files **ssh\_list\_*studentID*.txt** and **mid\_semester\_revision.txt** into one file called ***lab6\_studentID.txt***

**Cat ssh\_list\_202201043.txt mid\_semester\_revision.txt > lab6\_202201043.txt**

## Lab 6 – What you need to submit

1. Upload the file ***lab6\_studentID.txt*** to Moodle at the submission link for Unit 6.

## Lab 6 – Extra Homework (You do not need to submit this exercise)

1. In VI or in Word, write a 200 word Critical Reflection of the use of the new **mail** command. Save it as ***lab6\_StudentID\_reflection.txt*** Include:
   1. The what? (describe what the mail command can do)
   2. So what? (give an example of how the mail command can be misused)
   3. Now what? (describe what your actions should be as a system administrator)
   4. How come? (conclude with what you have learnt)

Upload it on Moodle in the Lab 6 file upload link