**Centre for Business, Information Technology and Enterprise**

**Assignment Cover Sheet**

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| **Assignment Title** |  | |
| **Module Code** |  | |
| **Due Date** |  | |
| **Date** |  | |
| **Tutor Name** |  | |
| **Student Name/s & ID/s** | **Name** | **ID** |

**Important**

*Submission of work which is not your own is treated as academic misconduct and may result in exclusion from Waikato Institute of Technology. Penalties are identified in the Institute’s Academic Regulations (a copy is available at the Library).*

**I certify that this is all my own work, except for those parts identified for which references have been made.**

**Student Signature \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**

# TASK 1: create a user, directories and files (10)

List the files and directories with one command. It must show the file details such as the date and ownership. Paste a screen shot of them here including the command issued.

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# TASK 2: Rsync (30 Marks)

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| Tar Script – paste below (as text) |  |
| clear  mkdir -p jordanlaingrsynccopy  rsync -avz /home/jordanlaing/projectfiles/budget /home/jordanlaing/projectfiles/documents jordanlaingrsynccopy  echo "Finished rsync" | 20 |
| Paste a screenshot below showing the complete verbose output of running the rsync script |  |
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| Paste a screenshot below showing ONLY the rsync directory, subdirectories, and files (in one command). Include the command you used. It must show the file details such as the date and ownership. |  |
|  | 5 |

# Task 3: Backup Using Tar (30 marks)

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| Tar Script – paste below (as text) |  |
| mkdir -p ~/backup  CurrentDate=`date +%d-%m-%Y`  tar -cvzf ~/backup/jordanlaingbackup-$CurrentDate.tar.gz projectfiles > ~/backup/jordanlaing.log | 16 |
| Paste a screenshot below of the backup directory containing the tar file and log file. |  |
|  | 4 |
| Paste a screenshot below showing the entire contents of the log file. Three sub-directories and all files should be shown. |  |
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| Use the tar command to display the contents of your tar file. Paste a screenshot below including the command that you used. All subdirectories, files, their rights, date and ownership should be visible. |  |
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# TASK 4: Tar Restore (30 Marks)

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| Tar Script – paste below (as text) |  |
| clear  mkdir -p restore  ls -l ~/backup/  echo -n "Please enter the file name you wish to restore: "  read FName  tar -xzvf ~/backup/$FName > jordanlaing-restore.log  echo "Restore Complete" | 20 |
| Paste a screenshot below of the restore directory containing the restored file and log file. Use the recursive switch to show all files in their directories. Include the command you used in the screenshot. It must show the file details such as the date and ownership. |  |
|  | 5 |
| Paste a screenshot below showing the contents of the restore log file. The subdirectories and all files should be shown, as well as the directory you are in, and your username and the command you used to display the file. |  |
|  | 5 |