## IST 615 – Cloud Management

# School of Information Studies, Syracuse University Fall 2024

### Homework - 1

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Assignment Due: 9/10/2024

Assignment Submitted: 9/8/2024

(The document has **4 pages** with the cover page)

#### **Question-1**

Submit a screenshot of the results of three commands that you executed as you were going through the course and clearly explain the command that you used and its output.

1. **Awk** is a potent command-line utility for handling and examining text files. It is especially helpful for reformatting or converting data according to rules and for extracting particular data from structured files, such logs or CSV files.

**For Example** we have a text file simple\_data.txt which has below table

Name	ID	Team
Scott	314	Purple
Ananti	991	Orange
Jian	3127	Purple
Miguel	671	Green
Wes	1337	Orange
Anne	556	Green

To extract the second column, which contains the IDs, we can use the following awk command:

Awk – command that processes the file

'{print \$2}' – Instruction that tells awk to print second column of line in the file simple\_data.txt – file that awk is processing

#### Output:

```
karan@DESKTOP-K627JKU:/mnt/c/Users/Karan/Documents/learning-linux-command-line-3005201-main/Exercise Files$ awk '{print $2 }' simple_data.txt
ID
314
391
3127
671
1337
```

2. **Sort** command in Linux is used to arrange lines of text files in a specified order. By default, it sorts text lines alphabetically. Consider the same table as above, the sort command will have the names sorted in alphabetical order as shown below:

#### Output:

```
karan@DESKTOP-K627JKU:/mnt/c/Users/Karan/Documents/learning-linux-command-line-3005201-main/Exercise Files$ sort simple_data.txt
Ananti 991 Orange
Anne 556 Green
Jian 3127 Purple
Miguel 671 Green
Name ID Team
Scott 314 Purple
Wes 1337 Orange
```

3. **Man** command helps us referring the documentation. This was one of the most used commands by me in the course. For instance to understanding the difference between awk and sed, I used command Man

#### **Output**

#### Man sed

```
karan@DESKTOP-K627JKU: /mnt/c/Users/Karan/Documents/learning-linux-command-line-3005201-main/Exercise Files
                                                                                                                                                                                                                                    0
         sed - stream editor for filtering and transforming text
 YNOPSIS
sed [<u>OPTION</u>]... {script-only-if-no-other-script} [input-file]...
         FILON Sed is a stream editor. A stream editor is used to perform basic text transformations on an input stream (a file or input from a pipeline). While in some ways similar to an editor which permits scripted edits (such as ed), sed works by making only one pass over the input(s), and is consequently more efficient. But it is sed's ability to filter text in a pipeline which particularly distinguishes it from other types of editors.
         -n, --quiet, --silent
                   suppress automatic printing of pattern space
         --dehug
                   add the script to the commands to be executed
         -f script-file, --file=script-file
                   add the contents of script-file to the commands to be executed
         --follow-symlinks
                   follow symlinks when processing in place
          -i[SUFFIX], --in-place[=SUFFIX]
         -1 N, --line-length=<u>N</u>
                   specify the desired line-wrap length for the 'l' command
         --nosix
```

#### **Question-2**

Submit the course completion certificate that you will receive at the end of the course (or a screenshot of it)



## Learning Linux Command Line

Course completed by Karan Shah Sep 08, 2024 at 10:05PM UTC • 2 hours 57 minutes

Top skills covered

Linux System Administration

CLI



Head of Global Content, Learning

Certificate ID: 4b21f74dc0b065c3c8962e91008bf94b0d3aaf498e6e88baec9792c28ca03878

