## Day 8 - Shell Scripting for DevOps

in shell script we have to mention the details like Author, date, commnet and version. for best practices. which is called Meta data. should be on top of the shell script.

```
df -h -> disk space
free -g -> print memory
nproc -> print resources
```

nodeHealth.sh is used to check the system health

normal nodeHealth.sh file

## detailed nodeHealth.sh file with echo commands

Use command: set -x

which is used to debug mode. used to hide command to th user.

in my system, currently i am using youtube to watch video, notepad to take notes and WSL Ubuntu to execute shell commands.

so, i am processing three processes other than system processes.

but in VM of an ORG, several processes are executing.

example: if we are working on java application at amazon, if you deployed 200 micro servers.

how can one find what are the processes are running. in windows, by using graphical interface we can see what are happening. how in linux VM.

for that we gonna use : ps -ef where, ps stand for processes -ef stands for entire deatils of the process in full format

we can even use only PS command, it doesnt include backgrounf processes.

```
| Second | Property |
```

to get the process ID of a perticular process, we use grep command - it fetches only the requested commands we want to know the ID for python process (python is default in every VM)

Command: ps -ef | grep "python3"

Pipe - | parameter sends the output of the first command to the second command.

```
hari@Hari:~$ ps -ef | grep "python3"
root 197 1 0 Oct08 ? 00:00:00 /usr/bin/python3 /usr/bin/networkd-dispatcher --rur
root 261 1 0 Oct08 ? 00:00:05 /snap/ubuntu-desktop-installer/1286/usr/bin/python3
--storage-version=2 --postinst-hooks-dir=/snap/ubuntu-desktop-installer/1286/etc/subiquity/postinst.d
root 401 297 0 Oct08 ? 00:00:17 python3 /snap/ubuntu-desktop-installer/1286/usr/bir
hari 18189 346 0 00:22 pts/0 00:00:00 grep --color=auto python3
hari@Hari:~$ ps -ef | grep "python3"
root 197 1 0 Oct08 ? 00:00:00 /usr/bin/python3 /usr/bin/networkd-dispatcher --rur
root 261 1 0 Oct08 ? 00:00:00 /usr/bin/python3 /usr/share/unattended-upgrades/una
root 297 239 0 Oct08 ? 00:00:05 /snap/ubuntu-desktop-installer/1286/usr/bin/python3
--storage-version=2 --postinst-hooks-dir=/snap/ubuntu-desktop-installer/1286/etc/subiquity/postinst.d
root 401 297 0 Oct08 ? 00:00:18 python3 /snap/ubuntu-desktop-installer/1286/usr/bir
hari 18536 346 0 00:24 pts/0 00:00:00 grep --color=auto python3
hari@Hari:~$
```

if you to kill / end the process, we need process ID of the respective task.

Time Stamp :: 19:07 - To be continued

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