

System monitoring in linux

So we have a couple of commands that can help us to monitor system related things like disk usage, running processes etc.

df : Command to understand disk space usage

We can see the amount of disk space available and used using the `df` command. To make the response more human readable we can use the `-h` flag

```
df -h
```

Filesystem	Size	Used	Avail	Capacity	Used	Free	%Used	Mounted on
/dev/disk3s3s1	228Gi	12Gi	949Mi	93%	348574	9718720	3%	/
devfs	208Ki	208Ki	0Bi	100%	722	0	100%	/dev
/dev/disk3s6	228Gi	1.0Gi	949Mi	52%	1	9718720	0%	/System/Volumes/VM
/dev/disk3s4	228Gi	9.2Gi	949Mi	91%	1226	9718720	0%	/System/Volumes/Preboot
/dev/disk3s2	228Gi	660Mi	949Mi	42%	262	9718720	0%	/System/Volumes/Update
/dev/disk1s2	500Mi	6.0Mi	480Mi	2%	3	4918160	0%	/System/Volumes/xarts
/dev/disk1s1	500Mi	6.1Mi	480Mi	2%	36	4918160	0%	/System/Volumes/iSCPreboot
/dev/disk1s3	500Mi	2.8Mi	480Mi	1%	42	4918160	0%	/System/Volumes/Hardware
/dev/disk3s1	228Gi	203Gi	949Mi	100%	4281911	9718720	31%	/System/Volumes/Data
map auto_home	0Bi	0Bi	0Bi	100%	0	0	100%	/System/Volumes/Data/home
/dev/disk2s1	5.0Gi	1.6Gi	3.3Gi	33%	60	35088840	0%	/System/Volumes/Update/SFR/mnt1
exfat:///disk5s2/Expansion	4.5Ti	671Gi	3.9Ti	15%	1	0	100%	/Volumes/Expansion
exfat:///disk4s1/Sanket Self	1.4Ti	1.4Ti	358Mi	100%	1	0	100%	/Volumes/Sanket Self
/dev/disk3s3	228Gi	12Gi	949Mi	93%	356842	9718720	4%	/System/Volumes/Update/mnt1

du : Check disk usage of a particular folder

`du` command can help us to check how much space a folder is taking. We can use the `-h` flag to make the output human readable.

```
du -h __pycache__
```

```
~/Developer/grpc_python master ?  
$ du -h __pycache__  
12K  __pycache__
```

If we don't mention any folder then it will recursively go to each folder in our machine show the usage.