

Ex no: 2

Date: 05.03.2024

### System Monitoring Using Shell Script

**Aim:**

To write a Shellscript to to display system information.

**Program:**

```
#!/bin/bash

# Sample script written for Part 4 of the RHCE series
# This script will return the following set of system
information: # -Hostname information:
echo -e "\e[31;43m***** HOSTNAME INFORMATION *****\e[0m"
hostnamectl
echo ""

# -File system disk space usage:
echo -e "\e[31;43m***** FILE SYSTEM DISK SPACE USAGE
*****\e[0m" df -h
echo ""

# -Free and used memory in the system:
echo -e "\e[31;43m***** FREE AND USED MEMORY
*****\e[0m" free
echo ""

# -System uptime and load:
echo -e "\e[31;43m***** SYSTEM UPTIME AND LOAD *****\e[0m"
uptime
echo ""
```



# -Logged-in users:

echo -e "\e[31;43m\*\*\*\*\* CURRENTLY LOGGED-IN USERS

\*\*\*\*\*\e[0m" who

echo ""

# -Top 5 processes as far as memory usage is concerned

echo -e "\e[31;43m\*\*\*\*\* TOP 5 MEMORY-CONSUMING PROCESSES

\*\*\*\*\*\e[0m" ps -eo %mem,%cpu,comm --sort=-%mem | head -n 6

echo ""

echo -e "\e[1;32mDone.\e[0m"

Output:

-e\e[31;43m \*\*\*\*\* FILESYSTEM DISK SPACE USAGE \*\*\*\*\*\e  
Com

Filesystem	Size	Used	Avail	Use	Mounted on
devtmpfs	3.9G	0	3.9G	0%	/dev
tmpfs	3.9G	0	3.9G	0%	/dev/shm
tmpfs	3.9G	2.3M	3.9G	1%	/run
tmpfs	3.9G	0	3.9G	0%	/sys/fs/cgroup
/dev/mapper/fedora-root	49G	6.1G	41G	14%	/
tmpfs	3.9G	12k	3.9G	1%	/tmp
/dev/mapper/fedora-root	976M	184M	756M	17%	/boot

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