

Ex no: 2

Date: 5.3.24

### System Monitoring Using Shell Script

Aim:

To write a Shellscript to to display system information.

Program:

*comment*  
#!/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:

`./sysmon.sh: line 4: information::`

`-e\e[31;43m ***** HOSTNAME INFORMATION ***** \e[0m`

static hostname: local host. local domain

Icon Name : computer-desktop

chassis : desktop

Machine ID : 235e9101ebd04073973db947293190e5

Boot ID : dca3b7c31834d649398b9d9a963697

Operating System: Fedora 26 (Twenty six)

CPE OS Name: cpe:/o:fedora project:fedora:26

Kernel: Linux 4.11.8-300.fc26.1686+PAE

Architecture: x86

`-e\e[31;43m ***** FILE SYSTEM DISK SPACE USAGE ***** \e[0m`

~~`./sysmon.sh: line 10: df -h: command not found`~~

`-e\e[31;43m ***** FREE AND USED MEMORY ***** \e[0m`

	Total	used	free	shared	buff/cache	available
Mem:	8178428	729964	616256	97352	1286308	7009080
Swap:	2117628	0	2117628	25		

`-e\e[31;43m ***** SYSTEM UPTIME AND LOAD ***** \e[0m`

14:05:48 up 6:01, 28 users, load average: 0.15, 0.13, 0.15