

Homework 2

DevOps

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kali@LAPTOP-GF3TVKPA: ~/HW2$ ./q1.sh

-----System Info-----
Hostname:          hostname -f
IP Address:        hostname -I

Machine Type:      vserver=1
./q1.sh: line 11: [: -gt: unary operator expected
Physical
Product Name:      cat /sys/class/dmi/id/product_name
Operating System:  cat /etc/redhat-release
Kernel:            uname -r
Architecture:      arch
Processor Name:     awk -F: /^model name/ {print $2} /proc/cpuinfo
CPU Cores:         grep -c ^processor /proc/cpuinfo
Disk Usage:
/dev/sdc           1007G  2.0G  954G  1% /

-----Resource Usage Data-----
CPU Usage:         awk {u=$2+$4; t=$2+$4+$5; if (NR==1){u1=u; t1=t;} else print ($2+$4-u1) * 100 / (t-t1) "%";} /dev/fd/63 /dev/fd/62
awk: cmd. line:1: (FILENAME=- FNR=1) fatal: division by zero attempted
awk: cmd. line:1: (FILENAME=- FNR=1) fatal: division by zero attempted
Top 5 Processes by CPU Usage:
  PID   PPID  CMD                                %MEM %CPU
    1      0  /sbin/init                          0.1  0.0
    2      1  /init                              0.0  0.0
    9      2  plan9 --control-socket 6 --         0.0  0.0
   62      1  /lib/systemd/systemd-journald       0.1  0.0
   87      1  /lib/systemd/systemd-udevd          0.0  0.0
Top 5 Processes by Memory Usage:
  PID   PPID  CMD                                %MEM %CPU
  227      1  /usr/bin/python3 /usr/share         0.2  0.0
  169      1  /usr/bin/python3 /usr/bin/n         0.2  0.0
   62      1  /lib/systemd/systemd-journald       0.1  0.0
   90      1  /lib/systemd/systemd-resolv         0.1  0.0
    1      0  /sbin/init                          0.1  0.0
Swap Activity:
procs -----memory----- --swap-- --io-- --system-- --cpu--
r b  swpd  free  buff  cache  si  so  bi  bo  in  cs  us  sy  id  wa  st
0 0    0 7469788 2840 169072 0 0 26 2 7 19 0 0 100 0 0

Swap Activity:
procs -----memory----- --swap-- --io-- --system-- --cpu--
r b  swpd  free  buff  cache  si  so  bi  bo  in  cs  us  sy  id  wa  st
0 0    0 7469788 2840 169072 0 0 26 2 7 19 0 0 100 0 0
0 0    0 7474444 2840 169072 0 0 0 0 18 72 0 0 100 0 0
0 0    0 7474444 2840 169072 0 0 0 20 5 45 0 0 100 0 0
0 0    0 7474124 2840 169072 0 0 0 0 4 44 0 0 100 0 0
0 0    0 7472096 2840 169072 0 0 0 0 7 40 0 0 100 0 0
Zombie Processes:
System Temperature:
```

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kali@LAPTOP-GF3TVKPA: ~/H X + v FPS N/A GPU 0% CPU 10% LAT N/A
|!|/bin/bash
#
white="\033[1;23m"
cyan="\033[1;36m"
reset="\033[0m"
echo " "
echo -e "-----System Info-----${reset}"
echo -e "Hostname:${reset}\t\t"hostname -f
echo -e "IP Address:${reset}\t\t"hostname -I
echo -e "Uptime:${reset}\t\t"uptime | awk '{print $3,$4}' | sed 's/,//'
echo -e "Machine Type:${reset}\t\t"vserver=$(lscpu | grep Hypervisor | wc -l); if [ $vserver -gt 0 ]; then echo "VM"; else echo "Physical"; fi
echo -e "Product Name:${reset}\t\t"cat /sys/class/dmi/id/product_name
echo -e "Operating System:${reset}\t\t"cat /etc/redhat-release
echo -e "Kernel:${reset}\t\t"uname -r
echo -e "Architecture:${reset}\t\t"arch
echo -e "Processor Name:${reset}\t\t"awk -F: '/*model name/ {print $2}' /proc/cpuinfo | uniq | sed -e 's/^[\t]*//'
echo -e "CPU Cores:${reset}\t\t"grep -c 'processor' /proc/cpuinfo
echo -e "Total RAM:${reset}\t\t"free -h | awk '/*Mem:/{print $2}'
echo -e "Disk Usage:${reset}\t\t"
df -h | grep '^/dev/'
echo -e "Load Average:${reset}\t\t"uptime | awk -F'load average:' '{ print $2 }'
echo " "
echo -e "-----Resource Usage Data-----${reset}"
echo -e "CPU Usage:${reset}\t\t"awk '{u=$2+$4; t=$2+$4+$5; if (NR==1){ul=u; tl=t;} else print ($2+$4-ul) * 100 / (t-tl) "%";}' <(grep 'cpu ' /proc/stat) <(s
loop 1; grep 'cpu ' /proc/stat)
echo -e "Memory Usage:${reset}\t\t"free | awk '/*Mem/{printf("%.2f%", $3/$2+100)}'
echo -e "Swap Usage:${reset}\t\t"free | awk '/*Swap/{printf("%.2f%", $3/$2+100)}'
echo -e "Top 5 Processes by CPU Usage:${reset}"
ps -eo pid,ppid,cmd,%mem,%cpu --sort=-%cpu | head -6
echo -e "Top 5 Processes by Memory Usage:${reset}"
ps -eo pid,ppid,cmd,%mem,%cpu --sort=-%mem | head -6
echo -e "Swap Activity:${reset}"
vmstat 1 5
echo -e "Zombie Processes:${reset}\t\t"
ps aux | awk '{ if ($8 == "Z") print $0; }'
echo -e "System Temperature:${reset}\t\t"
~
~
~
1,1 All
ENG IN 08:54 25-03-2025
```