## **BASH script for HEARTBEAT job**

```
#!/bin/bash
white="\033[1;23m"
cvan="\033[1;36m"
reset="\033[0m"
echo " "
echo -e "${white}------System
Information------${reset}"
echo -e "${cyan}Hostname:${reset}\t\t"hostname -f
echo -e "${cyan}IP Address:${reset}\t\t"hostname -I
echo -e "${cvan}Uptime:${reset}\t\t"uptime | awk '{print $3,$4}' | sed 's/.//'
echo -e "${cyan}Machine Type:${reset}\t\t"vserver=$(|scpu | grep Hypervisor | wc -l); if [
$vserver -gt 0 ]; then echo "VM"; else echo "Physical"; fi
echo -e "${cyan}Product Name:${reset}\t\t"cat /sys/class/dmi/id/product name
echo -e "${cyan}Operating System:${reset}\t\t"cat /etc/redhat-release
echo -e "${cyan}Kernel:${reset}\t\t"uname -r
echo -e "${cyan}Architecture:${reset}\t\t"arch
echo -e "${cyan}Processor Name:${reset}\t\t"awk -F':' '/^model name/ {print $2}' /proc/cpuinfo |
unia | sed -e 's/^[ \t]*//'
echo -e "${cyan}CPU Cores:${reset}\t\t"grep -c ^processor /proc/cpuinfo
echo -e "${cyan}Total RAM:${reset}\t\t"free -h | awk '/^Mem:/{print $2}'
echo -e "${cyan}Disk Usage:${reset}\t\t"
df -h | grep '^/dev/'
echo -e "${cyan}Load Average:${reset}\t\t"uptime | awk -F'load average:' '{ print $2 }'
echo " "
echo -e "${white}------Resource
Usage------${reset}"
echo -e "${cyan}CPU Usage:${reset}\t\t"awk '{u=$2+$4; t=$2+$4+$5; if (NR==1){u1=u; t1=t;}
else print ($2+$4-u1) * 100 / (t-t1) "%";}' <(grep 'cpu ' /proc/stat) <(sleep 1; grep 'cpu ' /proc/stat)
echo -e "${cyan}Memory Usage:${reset}\t\t"free | awk '/Mem/{printf("%.2f%"), $3/$2*100}'
echo -e "${cyan}Swap Usage:${reset}\t\t"free | awk '/Swap/{printf("%.2f%"), $3/$2*100}'
echo -e "${cyan}Top 5 Processes by CPU Usage:${reset}"
ps -eo pid,ppid,cmd,%mem,%cpu --sort=-%cpu | head -6
echo -e "${cyan}Top 5 Processes by Memory Usage:${reset}"
ps -eo pid,ppid,cmd,%mem,%cpu --sort=-%mem | head -6
echo -e "${cyan}Disk I/O:${reset}\t\t"
iostat -x | head -10
echo -e "${cyan}Network Usage:${reset}\t\t"
netstat -i | grep -vE '^Kernel||face||o'
echo -e "${cyan}Active Network Connections:${reset}"
netstat -ant | grep 'ESTABLISHED'
echo -e "${cyan}Swap Activity:${reset}"
```

```
vmstat 1 5
echo -e "${cyan}Zombie Processes:${reset}\t\t"
ps aux | awk '{ if ($8 == "Z") print $0; }'
echo -e "${cyan}System Temperature:${reset}\t\t"
sensors | grep 'Core'
echo " "
```

## Output:

```
hostname -f
hostname -I
Machine Type: vserver=1
./heart.sh: line 11: [: -gt: unary operator expected
                                                                                                 cat /sys/class/dmi/id/product_name
cat /etc/redhat-release
      roduct Name:
      perating System:
     ernel: uname -r
rchitecture:
rocess
     criter. Unlame Transcript of the Control of the Con
     PU 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

wk: cmd. line:1: (FILENAME=- FNR=1) fatal: division by zero attempted

wk: cmd. line:1: (FILENAME=- FNR=1) fatal: division by zero attempted

op 5 Processes by CPU Usage:

PID PPID CMD

469 301 /bin/bash /beapt.cb
                        PID CMU MCPU
469 301 /bin/bash ./heart.sh 0.0 14.2
1 0 /sbin/init 0.1 0.6
101 1 /usr/lib/systemd/systemd-u0 0.0 0.2
56 1 /usr/lib/systemd/systemd-jo 0.2 0.2
111 1 /usr/lib/systemd/systemd-re 0.1 0.2
5 Reseases by Memory Memory Lagrance
      op 5 Processes by Memory Usage:
PID PPID CMD
                                                          /heart.sh: line 32: iostat: command not found
     /heart.sh: line 34: netstat: command not found active Network Connections:
    /heart.sh: line 36: netstat: command not found
Swap Activity:
 /heart.sh: line 36: netstat: command not result of the command not res
      ombie Processes:
      ystem Temperature:
/heart.sh: line 42: sensors: command not found
```