

Script 2: Checking Server Utilization

```
#!/bin/bash

date;
echo "uptime:"
uptime
echo "Currently connected:"

w

echo "-----"
echo "Last logins:"
last -a |head -3
echo "-----"
echo "Disk and memory usage:"
df -h | xargs | awk '{print "Free/total disk: " $11 " / " $9}'
free -m | xargs | awk '{print "Free/total memory: " $17 " / " $8 "
MB"}'
echo "-----"
start_log=`head -1 /var/log/messages |cut -c 1-12`
oom=`grep -ci kill /var/log/messages`
echo -n "OOM errors since $start_log :" $oom
echo ""
echo "-----"
echo "Utilization and most expensive processes:"
top -b |head -3
echo
    top -b |head -10 |tail -4
echo "-----"
echo "Open TCP ports:"
nmap -p- -T4 127.0.0.1
```

```
echo "-----"
echo "Current connections:"
ss -s
echo "-----"
echo "processes:"
ps auxf --width=200
echo "-----"
echo "vmstat:"
vmstat 1 5
```

Run :

```
GNU bash, version 4.4.12(1)-release (x86_64-pc-linux-gnu)
Sun Mar 31 16:16:18 UTC 2019
uptime:
 16:16:19 up 30 min,  0 users,  load average: 1.21, 1.12, 1.16
Currently connected:
 16:16:19 up 30 min,  0 users,  load average: 1.21, 1.12, 1.16
USER      TTY      FROM          LOGIN@  IDLE   JCPU   PCPU WHAT
-----
Last logins:

wtmp begins Thu Mar 28 02:45:14 2019
-----
Disk and memory usage:
Free/total disk: 51G / 97G
Free/total memory: 0 / 26120 MB
-----
head: cannot open '/var/log/messages' for reading: No such file or directory
grep: /var/log/messages: No such file or directory
OOM errors since  :
-----
Utilization and most expensive processes:
top - 16:16:19 up 30 min,  0 users,  load average: 1.21, 1.12, 1.16
Tasks:  6 total,   1 running,   5 sleeping,   0 stopped,   0 zombie
%Cpu(s): 16.7 us,  5.6 sy,  2.0 ni, 74.3 id,  1.2 wa,  0.0 hi,  0.4 si,
0.0 st

  PID USER      PR  NI   VIRT    RES    SHR S  %CPU  %MEM    TIME+  COMMAND
 1 runner    20   0   1052     4       0 S   0.0   0.0   0:00.06 init
 6 runner    20   0 295496   7444   6440 S   0.0   0.0   0:00.03 init
27 runner    20   0  17960   2808   2564 S   0.0   0.0   0:00.00 bash_
inter+
-----
Open TCP ports:
bash: nmap: command not found
-----
```

Total: 2518 (kernel 0)

```
TCP: 169 (estab 0, closed 168, orphaned 0, synrecv 0, timewait 0/0), po
rts 0
```

Transport	Total	IP	IPv6
* 0	-	-	
RAW 0	0	0	
UDP 1	1	0	
TCP 1	1	0	
INET	2	2	0
FRAG	0	0	0

```
processes:
```

[illegible]

```
vmstat:
```

```
procs -----memory----- --swap-- -----io----- -system-- -----c
pu-----
 r b  swpd  free  buff  cache  si  so  bi  bo  in  cs us sy i
d wa st
 4 0      0 18820864 232760 3206524    0  0  148  497 1148 2012 19
6 74 1  0
 3 0      0 18739108 232792 3216104    0  0    0  312 4741 8246 47 1
4 39 0  0
```

```

2 0      0 18676412 232792 3220612      0      0      0      12 3732 7396 53 1
5 32 0 0
8 0      0 18669224 233360 3222324      0      0      120 436 5130 9671 70 1
0 20 0 0
8 0      0 18632388 233672 3225256      0      0      0      664 4470 10824 68
12 20 0 0

```