

How To Check Health Status of a Linux System

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This is a small, light-weight script run successfully on RHEL and Oracle Linux 8/7/6, CentOS, Ubuntu 20/18/16 x86 and x86_64-bit architectures.

These tests were run on virtual machines. which makes use of native Linux utilities to get the required details and doesn't need much space.

This script could be added as a cron job to regularly get system details triggered via an email as desired.

Details of the script:

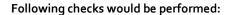
Name Of the Script 2 health-check.sh

Build To Run On 2 Oracle Linux, RHEL 8/7/, CentOS, Ubuntu20/18/16 x86/x86_64 architecture

Who Can Run This Script 2 Root User Or sudo user

Depends On 2 "sysstat" package & Other Native Commands

Output 2 This Script would dump the details on the console



2 Mounted File Systems

2 Read-only File System If Any

2 File Systems Disk Usage

I-node Usage

Zombie Processes If Found

2 RAM Utilization

2 SWAP Utilization

Processor Utilization

Current Load Average

Most recent reboot and shutdown stamps

☑ Top 5 memory & CPU consuming resources

Download and run the script to get the basic health check of a Linux system.



 $Change \ the \ file \ permissions \ to \ executable \ if \ required. \ You \ could \ run \ the \ below \ command \ to \ turn \ on \ the \ execute \ bit \ for \ root \ user:$

chmod u+x health-check.sh

2 How To Check Health Status of a Linux System



Output Report on Linux VM console

```
Checking For INode Usage
(0-85\% = OK/HEALTHY, 85-95\% = WARNING, 95-100\% = CRITICAL)
INode Utilization (Percentage Used):
Filesystem Mounted IUse% (Inode Percentage details not available)
/dev/sda3 / 1% ----- OK/HEALTHY
Checking SWAP Details
Total Swap Memory in MiB : 8192, in GiB : 8
Swap Free Memory in MiB : 8192, in GiB : 8
Checking For Processor Utilization
Current Processor Utilization Summary:
09:06:44 AM CPU
09:06:44 AM all
                                                                       %soft %steal
                        %usr
                                %nice
                                           %sys %iowait
1.68 0.18
                                                              %irq
0.00
                                                                                         %guest
                                                                                                  %gnice
                                                                                                              %idle 93.52
                        4.38
                                 0.00
                                                                        0.03
                                                                                            0.00
                                                                                                      0.00
                                                                                  0.22
Checking For Load Average
Current Load Average : 0.15, 0.16, 0.08
```

```
Most Recent 3 Reboot Events
 reboot
                                system boot 5.4.17-2136.311. Wed Nov 30 08:57 - 09:06 (00:09)
Most Recent 3 Shutdown Events
 No shutdown events are recorded.
 Top 5 Memory Resource Hog Processes
  %MEM
                         PID PPID USER
                                                                                               STAT COMMAND
    0.6
                    2277
                                           2275 root
                                                                                               s٦
                                                                                                                  /usr/libexec/oracle-cloud-agent/plugins/osms/osms-agent
 0.2 12788 1 root Sl /opt/unified-monitoring-agent/embedded/bin/ruby /opt/unifiedified-monitoring-agent/unified-monitoring-agent/unified-monitoring-agent/unified-monitoring-agent/unified-monitoring-agent/unified-monitoring-agent/unified-monitoring-agent/unified-monitoring-agent/unified-monitoring-agent/unified-monitoring-agent/unified-monitoring-agent/unified-monitoring-agent/unified-monitoring-agent/unified-monitoring-agent/unified-monitoring-agent/unified-monitoring-agent/unified-monitoring-agent/unified-monitoring-agent/unified-monitoring-agent/unified-monitoring-agent/unified-monitoring-agent/unified-monitoring-agent/unified-monitoring-agent/unified-monitoring-agent/unified-monitoring-agent/unified-monitoring-agent/unified-monitoring-agent/unified-monitoring-agent/unified-monitoring-agent/unified-monitoring-agent/unified-monitoring-agent/unified-monitoring-agent/unified-monitoring-agent/unified-monitoring-agent/unified-monitoring-agent/unified-monitoring-agent/unified-monitoring-agent/unified-monitoring-agent/unified-monitoring-agent/unified-monitoring-agent/unified-monitoring-agent/unified-monitoring-agent/unified-monitoring-agent/unified-monitoring-agent/unified-monitoring-agent/unified-monitoring-agent/unified-monitoring-agent/unified-monitoring-agent/unified-monitoring-agent/unified-monitoring-agent/unified-monitoring-agent/unified-monitoring-agent/unified-monitoring-agent/unified-monitoring-agent/unified-monitoring-agent/unified-monitoring-agent/unified-monitoring-agent/unified-monitoring-agent/unified-monitoring-agent/unified-monitoring-agent/unified-monitoring-agent/unified-monitoring-agent/unified-monitoring-agent/unified-monitoring-agent/unified-monitoring-agent/unified-monitoring-agent/unified-monitoring-agent/unified-monitoring-agent/unified-monitoring-agent/unified-monitoring-agent/unified-monitoring-agent/unified-monitoring-agent/unified-monitoring-agent/unified-monitoring-agent/unified-monitoring-agent/unified-monitoring-agent/unified-monitoring-agent/unified-monitoring-agent/unified-monitoring
                                                                                                                  /opt/unified-monitoring-agent/embedded/bin/ruby -Eascii-8bi
    0.2 12825 12788 root
   fied-monitoring-agent/unified-monitoring-agent.log --daemon /var/run/unified-monitoring-age
 nder-supervisor
    0.2 1253
                                                                                                              /usr/bin/python2 -Es /usr/sbin/firewalld --nofork --nopid
                                                       1 root
                                                                                               Ssl
                                                                                                                  /usr/libexec/oracle-cloud-agent/plugins/gomon/gomon
    0.1 2186
                                           2051 oracle-+ Sl
```

```
op 5 CPU Resource Hog Processes
        PID PPID USER
                                  STAT COMMAND
1.3 12825 12788 root S /opt/unified-monitoring-agent/embedded/bin/ruby -Eascii-8bit:ascii-8bit /opt/unified-mon
fied-monitoring-agent/unified-monitoring-agent.log --daemon /var/run/unified-monitoring-agent/unified-monitoring-agent.
nder-supervisor
 0.4 2277 2275 root
                                         /usr/libexec/oracle-cloud-agent/plugins/osms/osms-agent
                                  s٦
 0.3
                                         /usr/lib/systemd/systemd --switched-root --system --deserialize 21
                   0 root
                                  Ss
 0.2 1218
                    1 root
                                  Ss
                                         /sbin/rnad -f
 0.1 1253
                    1 root
                                  Ssl /usr/bin/python2 -Es /usr/sbin/firewalld --nofork --nopid
NOTE:- If any of the above fields are marked as "blank" or "NONE" or "UNKNOWN" or "Not Available" or "Not Specified"
that means either there is no value present in the system for these fields, otherwise that value may not be available,
or suppressed since there was an error in fetching details.
```

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