



MEDIASERVICE – UNIX DOCUMENT

ABSTRACT

The purpose of this document is to give a Technical overview of Unix servers for media services how to check and take actions for alerts like cpu, disk, memory, reboot.

1. How to check disk usage:

- Login to the server using putty through SSH console.
- Use command → `df -h /mnt/wr76`



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```
suryapj@cxint-soa01:~  
login as: suryapj  
suryapj@10.2.8.21's password:  
Last login: Fri Apr 18 07:06:27 2014 from 10.72.218.53  
[suryapj@cxint-soa01 ~]$ df -h  
Filesystem      Size  Used Avail Use% Mounted on  
/dev/sda3        15G   8.4G   5.0G   63% /  
tmpfs            1.9G     0   1.9G    0% /dev/shm  
/dev/sda1        248M   49M  188M   21% /boot  
10.10.14.9:/volumes/Inside_Media/cxint_media_70  
32T    22T   11T   69% /wfs  
[suryapj@cxint-soa01 ~]$
```

2. How to check CPU usage:

- Login to the server using putty through SSH console.
- Use command → `top`



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```
suryapj@cxint-soa01:~  
[suryapj@cxint-soa01 ~]$ top  
top - 11:11:33 up 79 days, 13:33, 1 user, load average: 0.00, 0.00, 0.00  
Tasks: 103 total, 1 running, 102 sleeping, 0 stopped, 0 zombie  
Cpu(s): 2.5%us, 0.2%sy, 0.0%ni, 97.3%id, 0.0%wa, 0.0%hi, 0.0%si, 0.0%st  
Mem: 3925040k total, 2504176k used, 1420864k free, 179044k buffers  
Swap: 1572856k total, 23904k used, 1548952k free, 649860k cached  


| PID  | USER     | PR | NI | VIRT  | RES  | SHR  | S | %CPU | %MEM | TIME+    | COMMAND       |
|------|----------|----|----|-------|------|------|---|------|------|----------|---------------|
| 9896 | root     | 20 | 0  | 2995m | 1.3g | 6148 | S | 5.3  | 34.4 | 1441:46  | java          |
| 1661 | activemq | 20 | 0  | 113m  | 488  | 404  | S | 0.3  | 0.0  | 63:52.19 | tanukiwrapper |
| 4725 | suryapj  | 20 | 0  | 15028 | 1200 | 940  | R | 0.3  | 0.0  | 0:00.01  | top           |
| 1    | root     | 20 | 0  | 19344 | 708  | 500  | S | 0.0  | 0.0  | 0:02.22  | init          |
| 2    | root     | 20 | 0  | 0     | 0    | 0    | S | 0.0  | 0.0  | 0:00.00  | kthreadd      |
| 3    | root     | RT | 0  | 0     | 0    | 0    | S | 0.0  | 0.0  | 0:07.51  | migration/0   |
| 4    | root     | 20 | 0  | 0     | 0    | 0    | S | 0.0  | 0.0  | 1:37.43  | ksoftirqd/0   |
| 5    | root     | RT | 0  | 0     | 0    | 0    | S | 0.0  | 0.0  | 0:00.00  | migration/0   |
| 6    | root     | RT | 0  | 0     | 0    | 0    | S | 0.0  | 0.0  | 0:09.32  | watchdog/0    |
| 7    | root     | RT | 0  | 0     | 0    | 0    | S | 0.0  | 0.0  | 0:10.28  | migration/1   |
| 8    | root     | RT | 0  | 0     | 0    | 0    | S | 0.0  | 0.0  | 0:00.00  | migration/1   |
| 9    | root     | 20 | 0  | 0     | 0    | 0    | S | 0.0  | 0.0  | 1:22.34  | ksoftirqd/1   |
| 10   | root     | RT | 0  | 0     | 0    | 0    | S | 0.0  | 0.0  | 0:08.85  | watchdog/1    |
| 11   | root     | 20 | 0  | 0     | 0    | 0    | S | 0.0  | 0.0  | 4:57.46  | events/0      |
| 12   | root     | 20 | 0  | 0     | 0    | 0    | S | 0.0  | 0.0  | 6:05.85  | events/1      |
| 13   | root     | 20 | 0  | 0     | 0    | 0    | S | 0.0  | 0.0  | 0:00.00  | cgroup        |


```

3. To check robot running or not:

- Login to the server using putty through SSH console.
- Use Command → `service nimbus status`

4. To check server uptime:

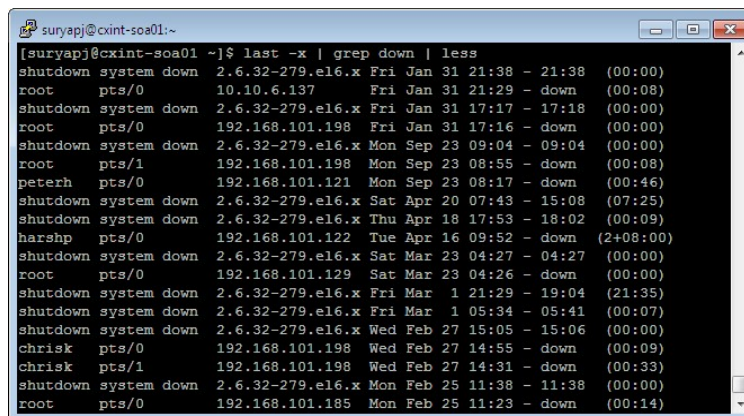
- Login to the server using putty through SSH console.
- Use command → `w & Uptime`

```
[kanalarasank@cxdmz-ftp01 ~]$ w
13:46:45 up 80 days, 19:21, 1 user, load average: 0.00, 0.00, 0.00
USER      TTY      FROM            LOGIN@   IDLE   JCPU   PCPU WHAT
kanalara pts/0    10.72.218.51    13:42    0.00s  0.04s  0.02s w
[kanalarasank@cxdmz-ftp01 ~]$
```

```
[kanalarasank@cxdmz-ftp01 ~]$ uptime
13:47:16 up 80 days, 19:21, 1 user, load average: 0.00, 0.00, 0.00
[kanalarasank@cxdmz-ftp01 ~]$
```

5. To check server last reboot time:

- Login to the server using putty through SSH console.
- Use command → `last -x | grep down | less`



```
suryapj@cxint-soa01:~$ last -x | grep down | less
shutdown system down 2.6.32-279.el6.x Fri Jan 31 21:38 - 21:38 (00:00)
root pts/0 10.10.6.137 Fri Jan 31 21:29 - down (00:08)
shutdown system down 2.6.32-279.el6.x Fri Jan 31 17:17 - 17:18 (00:00)
root pts/0 192.168.101.198 Fri Jan 31 17:16 - down (00:00)
shutdown system down 2.6.32-279.el6.x Mon Sep 23 09:04 - 09:04 (00:00)
root pts/1 192.168.101.198 Mon Sep 23 08:55 - down (00:08)
peterh pts/0 192.168.101.121 Mon Sep 23 08:17 - down (00:46)
shutdown system down 2.6.32-279.el6.x Sat Apr 20 07:43 - 15:08 (07:25)
shutdown system down 2.6.32-279.el6.x Thu Apr 18 17:53 - 18:02 (00:09)
harshp pts/0 192.168.101.122 Tue Apr 16 09:52 - down (2+08:00)
shutdown system down 2.6.32-279.el6.x Sat Mar 23 04:27 - 04:27 (00:00)
root pts/0 192.168.101.129 Sat Mar 23 04:26 - down (00:00)
shutdown system down 2.6.32-279.el6.x Fri Mar 1 21:29 - 19:04 (21:35)
shutdown system down 2.6.32-279.el6.x Fri Mar 1 05:34 - 05:41 (00:07)
shutdown system down 2.6.32-279.el6.x Wed Feb 27 15:05 - 15:06 (00:00)
chrisk pts/0 192.168.101.198 Wed Feb 27 14:55 - down (00:09)
chrisk pts/1 192.168.101.198 Wed Feb 27 14:31 - down (00:33)
shutdown system down 2.6.32-279.el6.x Mon Feb 25 11:38 - 11:38 (00:00)
root pts/0 192.168.101.185 Mon Feb 25 11:23 - down (00:14)
```

6. To check the server var log error messages:

- Login to the server using putty through SSH console.
- Use Command → `sudo cat /var/log/messages`



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```
suryapj@bkdmz-tm01:~  
[suryapj@bkdmz-tm01 ~]$ sudo cat /var/log/messages | grep -i error | tail -10  
[sudo] password for suryapj:  
Apr  4 08:39:28 bkdmz-tm01 named[1547]: error (network unreachable) resolving './D  
NSKEY/IN': 2001:503:c27::2:30#53  
Apr  4 08:39:28 bkdmz-tm01 named[1547]: error (network unreachable) resolving './N  
S/IN': 2001:503:c27::2:30#53  
Apr  4 08:39:28 bkdmz-tm01 named[1547]: error (network unreachable) resolving './D  
NSKEY/IN': 2001:7fe::53#53  
Apr  4 08:39:28 bkdmz-tm01 named[1547]: error (network unreachable) resolving './N  
S/IN': 2001:7fe::53#53  
Apr  4 08:39:28 bkdmz-tm01 named[1547]: error (network unreachable) resolving 'dlv  
.isc.org/DNSKEY/IN': 2001:500:71::29#53  
Apr  4 10:39:29 bkdmz-tm01 named[1547]: error (network unreachable) resolving './D  
NSKEY/IN': 2001:500:1::803f:235#53  
Apr  4 10:39:29 bkdmz-tm01 named[1547]: error (network unreachable) resolving './N  
S/IN': 2001:500:1::803f:235#53  
Apr  4 10:39:29 bkdmz-tm01 named[1547]: error (network unreachable) resolving './D  
NSKEY/IN': 2001:500:3::42#53  
Apr  4 10:39:29 bkdmz-tm01 named[1547]: error (network unreachable) resolving './N  
S/IN': 2001:500:3::42#53  
Apr  4 10:39:29 bkdmz-tm01 named[1547]: error (network unreachable) resolving 'dlv  
.isc.org/DNSKEY/IN': 2001:4f8:0:2::20#53  
[suryapj@bkdmz-tm01 ~]$
```

7. How to check Physical memory usage:

- Login to the server using putty through SSH console.
- Use command → free -m
Free -k
Free -g
K=kb m=mb g=gb

```
suryapj@bkdmz-ftp01:~  
[suryapj@bkdmz-ftp01 ~]$ free  
              total        used        free      shared    buffers     cached  
Mem:          1020644      956396      64248          0       160604      428012  
-/+ buffers/cache:      367780      652864  
Swap:          1572856         7552      1565304  
[suryapj@bkdmz-ftp01 ~]$
```

```
[kanalarasank@cxdmz-ftp01 ~]$ free -k  
              total        used        free      shared    buffers     cached  
Mem:          1020644      881508      139136          0       153216      473980  
-/+ buffers/cache:      254312      766332  
Swap:          1572856         8216      1564640  
[kanalarasank@cxdmz-ftp01 ~]$
```

```
[kanalarasank@cxdmz-ftp01 ~]$ free -g  
              total        used        free      shared    buffers     cached  
Mem:              0           0           0          0           0           0  
-/+ buffers/cache:           0           0  
Swap:              1           0           1  
[kanalarasank@cxdmz-ftp01 ~]$
```

```
[kanalarasank@cxdmz-ftp01 ~]$ free -m  
              total        used        free      shared    buffers     cached  
Mem:              996         860         136          0         149         462  
-/+ buffers/cache:         247         748  
Swap:             1535           8        1527  
[kanalarasank@cxdmz-ftp01 ~]$
```