

[howto, diagnose](#)

Diagnose 101

Memory

This will show you top 10 process that using the most memory:

```
ps aux --sort=-%mem | awk 'NR<=10{print $0}'
```

using top: when you opened top press m will short process based on memory usage.

But this will not solve your problem, in Linux everything is either file or process. so the files you opened will eating the memory too. so this will not help.

lsdf will give you all opened files with the size of the file or the file offset in bytes.

Filesysteme

mit *df -h* nachschauen ob die NFS/SAMBA-remote-filesysteme eingehängt sind (wenn es lange dauert bis df Ausgabe produziert, dann stimmt an dieser Stelle etwas nicht)

```
df -h
```

```
df: /orabase/ACFS/DG1/V1/0GG: Input/output error
```

Filesystem	Size	Used	Avail	Use%	Mounted on
devtmpfs	125G	8.0K	125G	1%	/dev
tmpfs	125G	1.6G	124G	2%	/dev/shm
tmpfs	125G	6.9M	125G	1%	/run
tmpfs	125G	0	125G	0%	/sys/fs/cgroup
/dev/sda3	2.0G	1.1G	981M	53%	/
/dev/mapper/system-usr	8.0G	4.1G	4.0G	51%	/usr
tmpfs	8.0G	120M	7.9G	2%	/tmp
/dev/mapper/system-nosql	100G	180M	100G	1%	/nosql
/dev/mapper/system-var	10G	1.8G	8.2G	18%	/var
/dev/mapper/system-opt	4.0G	809M	3.3G	20%	/opt
/dev/mapper/system-oemcc	10G	33M	10G	1%	/opt/oemcc
/dev/mapper/system-zel	20G	9.7G	11G	49%	/zel
/dev/mapper/system-home	8.0G	3.2G	4.9G	40%	/home
/dev/mapper/system-var--crash	32G	25G	7.3G	78%	/var/crash
/dev/mapper/system-var--log	8.0G	1.3G	6.8G	16%	/var/log
/dev/mapper/system-orasw	80G	52G	29G	65%	/orasw
/dev/mapper/system-var_log_sa	5.0G	407M	4.6G	8%	/var/log/sa
/dev/mapper/system-vl_audit	749M	516M	234M	69%	/var/log/audit
/dev/mapper/system-sudolog	2.0G	40M	2.0G	2%	/var/log/sudolog
/dev/mapper/system-orabase	80G	21G	60G	26%	/orabase
tmpfs	25G	0	25G	0%	/run/user/2000
/dev/mapper/filevg_fs9709	639G	345G	295G	54%	/zed9709
tmpfs	25G	0	25G	0%	/run/user/1845

CPU

load average

```
sar -q
```

Linux 5.15.5-1-default (dellirio)	12/09/21	_x86_64_	(12 CPU)
02:41:45	LINUX RESTART	(12 CPU)	

	runq-sz	plist-sz	ldavg-1	ldavg-5	ldavg-15	blocked
02:50:11						
03:00:11	1	1701	1.25	0.98	0.99	0
03:10:11	3	1692	2.20	1.47	1.22	0
03:20:11	4	1706	1.50	1.29	1.20	0
03:30:00	1	1755	0.70	1.30	1.35	0
03:40:11	1	1796	1.17	2.09	1.80	0
03:50:11	0	1787	1.51	1.81	1.86	0
04:00:11	3	1806	0.88	1.17	1.48	0
04:10:11	6	1753	0.77	0.78	1.13	0
04:20:11	3	1754	0.51	0.72	0.93	0
04:30:11	1	1757	0.62	0.65	0.80	0
04:40:11	0	1750	0.71	0.70	0.78	0
04:50:11	1	1753	0.69	0.72	0.74	0
05:00:11	1	1751	0.52	0.75	0.77	0
05:10:11	0	1751	0.61	0.71	0.73	0
05:20:11	0	1759	1.03	1.04	0.89	0
05:30:11	1	1749	0.75	0.92	0.89	0
05:40:11	0	1753	0.88	0.83	0.83	0
05:50:11	2	1756	0.91	0.88	0.84	0
06:00:11	3	1759	1.01	0.83	0.83	0
06:10:11	0	1754	1.09	0.86	0.81	0
06:20:11	1	1753	1.14	1.03	0.90	0
06:30:11	0	1758	0.78	0.81	0.84	0
06:40:11	0	1753	0.67	0.76	0.81	0
06:50:11	0	1745	0.77	0.78	0.81	0
07:00:11	1	1755	1.00	0.88	0.83	0
07:10:11	3	1753	0.84	0.77	0.80	0
07:20:11	0	1749	0.86	0.77	0.79	0
07:30:11	1	1749	0.67	0.66	0.73	0
07:40:11	0	1754	0.99	0.89	0.82	0
07:50:11	1	1746	0.75	0.76	0.80	0
08:00:11	1	1754	0.86	0.73	0.78	0
08:10:11	2	1750	0.70	0.74	0.77	0
08:20:11	0	1754	0.70	0.71	0.77	0
08:30:11	0	1752	0.67	0.74	0.82	0
08:40:11	1	1750	0.91	0.83	0.84	0
08:50:11	1	1749	0.71	0.75	0.81	0
09:00:11	3	1755	0.43	0.68	0.78	0
09:10:11	0	1754	0.68	0.75	0.76	0
09:20:11	2	1759	1.44	1.04	0.86	0
09:30:11	0	1754	0.64	0.80	0.85	0
09:40:11	0	1753	0.76	0.79	0.82	0
09:50:11	0	1751	0.80	0.82	0.81	0
10:00:11	2	1754	0.79	0.78	0.80	0
10:10:11	1	1756	0.82	0.90	0.86	0
10:20:11	0	1754	1.10	0.88	0.85	0
10:30:11	1	1751	0.60	0.70	0.76	0
10:40:11	0	1754	0.83	0.83	0.81	0
10:50:11	1	1753	1.04	0.91	0.86	0
11:00:11	1	1779	1.05	0.92	0.88	0
11:10:11	0	1763	0.76	0.76	0.81	0
11:20:11	1	1757	0.56	0.75	0.80	0
11:30:00	0	1762	1.00	0.84	0.80	0
11:40:01	1	1758	0.77	0.69	0.73	0
11:50:02	0	1753	1.11	0.96	0.82	0
12:00:03	2	1760	0.82	0.85	0.83	0
12:10:03	0	1759	0.80	0.78	0.82	0
12:20:04	2	1763	1.12	0.86	0.83	0
12:20:04	runq-sz	plist-sz	ldavg-1	ldavg-5	ldavg-15	blocked
12:30:00	3	1771	0.55	0.66	0.77	0
12:40:01	3	1767	0.54	0.71	0.77	0
12:50:02	7	1766	0.74	0.72	0.77	0
13:00:03	6	1765	0.69	0.88	0.87	0
13:10:05	5	1760	0.77	0.80	0.82	0
13:20:05	4	1756	0.77	0.86	0.84	0
13:30:06	5	1754	0.59	0.70	0.80	0
13:40:07	0	1756	0.73	0.86	0.85	0

Average:	1	1755	0.86	0.87	0.88	0
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user/system/idle/wait

```
sar -u
```

Linux 5.15.5-1-default (dellirio)		12/09/21		_x86_64_		(12 CPU)	
02:41:45	LINUX RESTART (12 CPU)						
	CPU	%user	%nice	%system	%iowait	%steal	%idle
03:00:11	all	8.33	0.00	0.93	0.02	0.00	90.72
03:10:11	all	9.00	0.00	1.13	0.02	0.00	89.85
03:20:11	all	10.42	0.00	1.42	0.01	0.00	88.14
03:30:00	all	12.78	0.00	1.00	0.02	0.00	86.20
03:40:11	all	19.48	0.00	1.01	0.02	0.00	79.49
03:50:11	all	17.14	0.01	1.15	0.01	0.00	81.69
04:00:11	all	9.82	0.00	1.25	0.01	0.00	88.91
04:10:11	all	8.07	0.00	0.89	0.02	0.00	91.02
04:20:11	all	6.65	0.00	0.50	0.01	0.00	92.84
04:30:11	all	6.45	0.00	0.48	0.01	0.00	93.06
04:40:11	all	6.53	0.00	0.47	0.01	0.00	92.98
04:50:11	all	6.44	0.00	0.46	0.01	0.00	93.08
05:00:11	all	6.55	0.00	0.49	0.01	0.00	92.96
05:10:11	all	6.54	0.00	0.47	0.01	0.00	92.98
05:20:11	all	6.54	0.00	0.50	0.01	0.00	92.95
05:30:11	all	6.36	0.00	0.46	0.01	0.00	93.17
05:40:11	all	6.62	0.00	0.49	0.01	0.00	92.88
05:50:11	all	6.54	0.00	0.48	0.01	0.00	92.97
06:00:11	all	6.47	0.00	0.47	0.01	0.00	93.05
06:10:11	all	6.64	0.00	0.51	0.01	0.00	92.83
06:20:11	all	6.55	0.00	0.49	0.01	0.00	92.95
06:30:11	all	6.49	0.00	0.48	0.01	0.00	93.02
06:40:11	all	6.61	0.00	0.48	0.01	0.00	92.90
06:50:11	all	6.52	0.00	0.48	0.01	0.00	92.99
07:00:11	all	6.46	0.00	0.48	0.01	0.00	93.04
07:10:11	all	6.66	0.00	0.50	0.01	0.00	92.83
07:20:11	all	6.48	0.00	0.49	0.01	0.00	93.02
07:30:11	all	6.43	0.00	0.47	0.01	0.00	93.08
07:40:11	all	6.62	0.00	0.49	0.01	0.00	92.87
07:50:11	all	6.50	0.00	0.47	0.01	0.00	93.02
08:00:11	all	6.51	0.00	0.48	0.01	0.00	93.00
08:10:11	all	6.46	0.00	0.48	0.01	0.00	93.04
08:20:11	all	6.50	0.00	0.47	0.01	0.00	93.01
08:30:11	all	6.44	0.00	0.47	0.01	0.00	93.08
08:40:11	all	6.58	0.00	0.48	0.01	0.00	92.92
08:50:11	all	6.44	0.00	0.48	0.01	0.00	93.07
09:00:11	all	6.51	0.00	0.47	0.01	0.00	93.01
09:10:11	all	6.60	0.00	0.49	0.02	0.00	92.89
09:20:11	all	6.44	0.00	0.48	0.01	0.00	93.07
09:30:11	all	6.53	0.00	0.48	0.01	0.00	92.98
09:40:11	all	6.61	0.00	0.50	0.01	0.00	92.88
09:50:11	all	6.40	0.00	0.47	0.01	0.00	93.11
10:00:11	all	6.49	0.00	0.46	0.01	0.00	93.04
10:10:11	all	6.53	0.00	0.49	0.01	0.00	92.97
10:20:11	all	6.55	0.00	0.48	0.01	0.00	92.95
10:30:11	all	6.44	0.00	0.48	0.01	0.00	93.07
10:40:11	all	6.58	0.00	0.48	0.01	0.00	92.93
10:50:11	all	6.45	0.00	0.48	0.01	0.00	93.06
11:00:11	all	6.64	0.00	0.54	0.01	0.00	92.80
11:10:11	all	6.60	0.00	0.50	0.01	0.00	92.89
11:20:11	all	6.54	0.00	0.49	0.01	0.00	92.96
11:30:00	all	6.52	0.00	0.48	0.01	0.00	92.99
11:40:01	all	6.63	0.00	0.51	0.01	0.00	92.85
11:50:02	all	6.60	0.00	0.49	0.01	0.00	92.90
12:00:03	all	6.42	0.00	0.49	0.01	0.00	93.08

12:10:03	all	6.63	0.00	0.48	0.01	0.00	92.88
12:20:04	all	6.52	0.00	0.49	0.01	0.00	92.98
12:20:04	CPU	%user	%nice	%system	%iowait	%steal	%idle
12:30:00	all	6.56	0.00	0.51	0.01	0.00	92.92
12:40:01	all	6.57	0.00	0.49	0.01	0.00	92.93
12:50:02	all	6.52	0.00	0.48	0.01	0.00	92.98
13:00:03	all	6.52	0.00	0.50	0.01	0.00	92.97
13:10:05	all	6.61	0.00	0.49	0.01	0.00	92.89
13:20:05	all	6.48	0.00	0.48	0.01	0.00	93.02
13:30:06	all	6.45	0.00	0.48	0.01	0.00	93.05
13:40:07	all	6.69	0.00	0.53	0.01	0.00	92.76
13:50:08	all	9.78	0.00	1.37	0.04	0.00	88.81
14:00:05	all	10.89	0.00	3.08	0.39	0.00	85.63
14:10:09	all	10.17	0.01	5.68	0.37	0.00	83.77
14:20:11	all	7.78	0.06	1.45	0.10	0.00	90.62
14:30:11	all	6.33	0.00	0.48	0.01	0.00	93.18
14:40:11	all	6.43	0.00	0.48	0.01	0.00	93.08
14:50:11	all	6.39	0.00	0.46	0.01	0.00	93.14
15:00:11	all	6.51	0.00	0.47	0.01	0.00	93.01
15:10:11	all	6.59	0.00	0.49	0.01	0.00	92.92
15:20:11	all	6.55	0.00	0.48	0.00	0.00	92.97
15:30:11	all	6.46	0.00	0.47	0.01	0.00	93.06
15:40:11	all	6.63	0.00	0.53	0.01	0.00	92.84
15:50:11	all	6.42	0.00	0.47	0.01	0.00	93.10
16:00:11	all	6.42	0.00	0.49	0.00	0.00	93.09
16:10:11	all	6.54	0.00	0.49	0.01	0.00	92.97
16:20:11	all	6.57	0.00	0.48	0.01	0.00	92.94
16:30:11	all	6.43	0.00	0.47	0.00	0.00	93.10
16:40:11	all	6.55	0.00	0.51	0.01	0.00	92.94
16:50:11	all	6.47	0.00	0.48	0.01	0.00	93.05
17:00:11	all	6.59	0.00	0.52	0.01	0.00	92.89
17:10:11	all	6.59	0.00	0.49	0.01	0.00	92.91
17:20:11	all	6.94	0.00	0.64	0.01	0.00	92.42
17:30:11	all	6.49	0.00	0.49	0.00	0.00	93.02
17:40:11	all	6.57	0.00	0.49	0.01	0.00	92.92
17:50:11	all	6.43	0.00	0.46	0.00	0.00	93.10
18:00:11	all	6.41	0.00	0.47	0.00	0.00	93.11
18:10:11	all	6.59	0.00	0.49	0.01	0.00	92.92
18:20:11	all	6.52	0.00	0.50	0.01	0.00	92.97
18:30:11	all	5.75	0.00	3.30	0.02	0.00	90.93
18:40:11	all	6.59	0.00	0.52	0.01	0.00	92.89
18:50:11	all	6.54	0.00	0.50	0.01	0.00	92.95
19:00:11	all	6.44	0.00	0.48	0.01	0.00	93.07
19:10:11	all	6.47	0.00	0.49	0.01	0.00	93.04
19:20:11	all	6.52	0.00	0.50	0.00	0.00	92.98
19:30:11	all	6.38	0.00	0.49	0.00	0.00	93.13
19:40:11	all	6.56	0.00	0.49	0.01	0.00	92.95
19:50:11	all	6.53	0.00	0.48	0.00	0.00	92.99
20:00:11	all	6.45	0.00	0.48	0.01	0.00	93.07
20:10:11	all	6.55	0.00	0.50	0.01	0.00	92.95
20:20:11	all	6.56	0.00	0.49	0.01	0.00	92.94
20:30:11	all	6.50	0.00	0.47	0.00	0.00	93.02
20:40:11	all	6.51	0.00	0.48	0.01	0.00	93.01
20:50:11	all	6.46	0.00	0.52	0.00	0.00	93.01
21:00:11	all	6.45	0.00	0.47	0.00	0.00	93.07
21:10:11	all	6.50	0.00	0.49	0.01	0.00	93.00
21:20:11	all	6.54	0.00	0.49	0.01	0.00	92.97
21:30:11	all	6.73	0.00	0.52	0.01	0.00	92.75
21:40:11	all	6.48	0.00	0.50	0.01	0.00	93.02
21:50:11	all	6.56	0.00	0.47	0.00	0.00	92.97
21:50:11	CPU	%user	%nice	%system	%iowait	%steal	%idle
22:00:11	all	6.45	0.00	0.49	0.00	0.00	93.05
22:10:09	all	6.61	0.00	0.53	0.01	0.00	92.85
22:20:10	all	6.89	0.00	0.57	0.01	0.00	92.53
22:30:11	all	6.46	0.00	0.48	0.01	0.00	93.06
22:40:11	all	6.48	0.00	0.48	0.01	0.00	93.04
22:50:11	all	8.18	0.01	0.94	0.02	0.00	90.86
23:00:11	all	10.03	0.00	1.32	0.01	0.00	88.64

Average:	all	7.02	0.00	0.64	0.02	0.00	92.32
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Page scans

pgscand/s

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sar -B
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Linux 5.15.5-1-default (dellirio)		12/09/21		_x86_64_		(12 CPU)				
02:41:45		LINUX RESTART		(12 CPU)						
	pgpgin/s	pgpgout/s	fault/s	majflt/s	pgfree/s	pgscank/s	pgscand/s	pgsteal/s	%vmeff	
03:00:11	2159.79	474.13	2044.61	0.43	2694.87	684.83	3.15	969.08	140.86	
03:10:11	14.27	291.08	2818.88	0.46	3140.79	42.18	8.94	64.69	126.55	
03:20:11	22.18	322.18	4364.56	0.09	4605.91	228.94	10.70	186.91	77.99	
03:30:00	211.07	435.64	6575.73	0.51	4641.67	574.13	0.00	484.18	84.33	
03:40:11	227.27	575.39	8227.81	0.68	7136.55	932.59	7.78	1169.61	124.38	
03:50:11	133.24	274.62	9761.47	0.77	9079.62	426.59	1.83	752.30	175.60	
04:00:11	68.96	196.59	3620.86	0.43	3839.63	10.41	0.97	22.01	193.50	
04:10:11	108.41	343.67	2161.80	1.69	2952.70	6.90	3.54	19.28	184.71	
04:20:11	31.92	170.10	937.49	0.05	975.63	0.00	0.00	0.00	0.00	
04:30:11	0.57	103.90	589.12	0.00	697.15	0.00	0.00	0.00	0.00	
04:40:11	2.06	235.75	649.01	0.00	744.08	0.00	0.00	0.00	0.00	
04:50:11	0.20	118.81	556.53	0.00	600.60	0.00	0.00	0.00	0.00	
05:00:11	2.40	114.81	545.01	0.05	595.20	0.00	0.00	0.00	0.00	
05:10:11	0.45	246.77	689.25	0.03	819.35	0.00	0.00	0.00	0.00	
05:20:11	0.40	129.98	661.70	0.01	1109.42	0.00	0.00	0.00	0.00	
05:30:11	0.08	117.62	521.24	0.00	582.06	0.00	0.00	0.00	0.00	
05:40:11	2.76	249.75	643.12	0.01	780.15	0.00	0.00	0.00	0.00	
05:50:11	6.73	126.30	596.49	0.00	671.95	0.00	0.00	0.00	0.00	
06:00:11	0.01	96.68	530.67	0.00	618.66	0.00	0.00	0.00	0.00	
06:10:11	2.57	266.10	720.01	0.03	858.60	0.00	0.00	0.00	0.00	
06:20:11	0.12	121.25	635.55	0.00	717.99	0.00	0.00	0.00	0.00	
06:30:11	0.26	113.68	574.20	0.00	767.13	0.00	0.00	0.00	0.00	
06:40:11	0.17	261.27	665.27	0.00	784.80	0.00	0.00	0.00	0.00	
06:50:11	0.04	118.45	551.86	0.00	629.77	0.00	0.00	0.00	0.00	
07:00:11	2.53	112.97	565.24	0.00	613.99	0.00	0.00	0.00	0.00	
07:10:11	0.23	285.62	686.18	0.00	835.89	0.00	0.00	0.00	0.00	
07:20:11	0.05	138.78	628.65	0.00	682.12	0.00	0.00	0.00	0.00	
07:30:11	0.00	122.99	537.63	0.00	599.31	0.00	0.00	0.00	0.00	
07:40:11	0.10	274.37	652.92	0.00	818.27	0.00	0.00	0.00	0.00	
07:50:11	0.00	118.21	556.10	0.00	616.73	0.00	0.00	0.00	0.00	
08:00:11	0.05	120.01	572.02	0.00	637.66	0.00	0.00	0.00	0.00	
08:10:11	14.22	266.43	687.34	0.01	825.56	0.00	0.00	0.00	0.00	
08:20:11	2.17	139.62	666.28	0.00	793.85	0.00	0.00	0.00	0.00	
08:30:11	7.75	131.67	561.53	0.02	716.39	0.00	0.00	0.00	0.00	
08:40:11	0.00	256.77	662.32	0.00	859.19	0.00	0.00	0.00	0.00	
08:50:11	0.03	123.38	563.36	0.00	674.44	0.00	0.00	0.00	0.00	
09:00:11	0.00	114.11	547.27	0.00	705.90	0.00	0.00	0.00	0.00	
09:10:11	12.79	252.19	702.99	0.26	920.45	0.00	0.00	0.00	0.00	
09:20:11	0.39	147.49	638.85	0.05	760.01	0.00	0.00	0.00	0.00	
09:30:11	0.04	136.47	564.92	0.00	708.38	0.00	0.00	0.00	0.00	
09:40:11	0.03	255.35	652.99	0.00	878.96	0.00	0.00	0.00	0.00	
09:50:11	0.06	132.95	581.55	0.00	698.58	0.00	0.00	0.00	0.00	
10:00:11	0.03	139.92	576.65	0.00	706.77	0.00	0.00	0.00	0.00	
10:10:11	0.11	255.14	684.26	0.00	872.31	0.00	0.00	0.00	0.00	
10:20:11	0.03	143.43	634.54	0.00	817.30	0.00	0.00	0.00	0.00	
10:30:11	0.05	141.67	570.88	0.00	703.73	0.00	0.00	0.00	0.00	
10:40:11	0.21	260.65	691.39	0.01	879.73	0.00	0.00	0.00	0.00	
10:50:11	0.03	126.31	569.04	0.00	692.55	0.00	0.00	0.00	0.00	
11:00:11	13.99	225.77	752.19	0.45	992.62	0.00	0.00	0.00	0.00	
11:10:11	0.07	252.40	741.12	0.01	1017.54	0.00	0.00	0.00	0.00	
11:20:11	4.35	140.42	667.81	0.02	802.82	0.00	0.00	0.00	0.00	
11:30:00	0.37	122.16	563.25	0.00	744.91	0.00	0.00	0.00	0.00	
11:40:01	0.11	271.16	680.93	0.00	892.33	0.00	0.00	0.00	0.00	
11:50:02	5.03	151.65	614.87	0.00	791.47	0.00	0.00	0.00	0.00	

12:00:03	0.04	132.86	575.88	0.00	712.23	0.00	0.00	0.00	0.00
12:10:03	0.03	252.91	676.79	0.00	908.54	0.00	0.00	0.00	0.00
12:20:04	0.39	147.20	688.58	0.01	848.35	0.00	1.81	1.65	91.53
12:20:04	pgpgin/s	pgpgout/s	fault/s	majflt/s	pgfree/s	pgscank/s	pgscand/s	pgsteal/s	%vmeff
12:30:00	3.05	195.14	724.28	0.01	930.38	0.00	0.00	0.00	0.00
12:40:01	0.05	265.53	725.85	0.00	935.13	0.00	0.28	0.27	97.62
12:50:02	0.08	136.79	598.39	0.00	743.05	0.00	0.00	0.00	0.00
13:00:03	0.15	164.60	585.57	0.00	750.99	0.00	0.46	0.65	140.29
13:10:05	10.86	270.11	743.23	0.32	1012.90	0.00	0.00	0.00	0.00
13:20:05	0.25	133.39	714.48	0.01	831.17	0.00	1.43	2.24	157.06
13:30:06	3.19	163.83	595.92	0.00	765.62	0.00	0.00	0.00	0.00
13:40:07	17.53	295.47	753.81	0.04	1006.05	0.00	0.74	0.92	124.89
13:50:08	1500.23	2825.21	4220.89	2.36	4988.38	1102.40	0.53	913.63	82.84
14:00:05	3497.65	19664.66	17760.30	21.32	19182.88	4749.71	0.00	4638.51	97.66
14:10:09	7508.38	26189.41	28168.63	12.67	37140.56	3818.99	0.42	4797.61	125.61
14:20:11	7462.33	1301.18	1929.30	2.10	51368.51	2506.62	9.02	3611.18	143.55
14:30:11	106.62	275.94	624.41	0.52	760.10	74.37	0.00	73.46	98.77
14:40:11	35.00	461.89	674.80	0.13	867.32	81.00	0.00	108.68	134.17
14:50:11	4.60	272.93	559.00	0.03	690.39	0.00	0.00	0.00	0.00
15:00:11	9.38	283.60	563.90	0.15	682.50	15.57	0.00	27.36	175.78
15:10:11	1.03	395.51	655.12	0.03	908.90	25.17	0.00	25.16	99.97
15:20:11	2.63	259.14	633.32	0.02	787.45	0.00	0.00	0.00	0.00
15:30:11	23.03	243.15	568.04	0.27	751.19	0.00	0.00	0.00	0.00
15:40:11	249.32	478.42	839.47	3.06	1220.78	102.94	2.02	177.56	169.18
15:50:11	0.30	263.99	579.86	0.01	738.63	0.00	0.00	0.00	0.00
16:00:11	6.16	304.27	566.86	0.03	727.45	0.00	0.00	0.00	0.00
16:10:11	22.66	461.11	797.63	0.11	1114.12	42.73	1.76	78.06	175.47
16:20:11	20.59	289.50	686.36	0.13	892.29	0.00	12.96	25.27	194.96
16:30:11	6.28	260.99	585.05	0.20	824.54	0.00	4.31	8.32	193.04
16:40:11	63.72	464.46	788.90	1.87	1000.21	0.00	0.00	0.00	0.00
16:50:11	0.17	312.16	595.96	0.01	798.00	0.00	0.00	0.00	0.00
17:00:11	15.58	353.77	703.13	0.50	928.24	0.00	0.00	0.00	0.00
17:10:11	6.35	463.17	683.95	0.14	965.99	50.44	0.00	87.16	172.80
17:20:11	2.24	404.11	852.33	0.12	1148.76	0.00	0.00	0.00	0.00
17:30:11	0.79	329.23	600.76	0.07	775.42	0.00	2.64	5.13	194.32
17:40:11	0.97	462.83	734.01	0.03	985.74	7.37	3.28	20.87	195.99
17:50:11	0.06	269.99	572.75	0.01	744.20	0.00	0.43	0.78	184.31
18:00:11	2.95	282.43	559.24	0.02	735.91	0.00	7.18	12.81	178.33
18:10:11	7.49	426.80	754.54	0.02	1029.93	14.22	9.14	39.07	167.23
18:20:11	38.10	343.63	722.21	0.73	923.66	0.00	7.30	13.22	181.06
18:30:11	1890.43	475.87	1852.15	0.38	3877.73	1477.39	7.27	1530.73	103.10
18:40:11	12.11	362.11	758.64	0.09	972.39	0.00	0.00	0.00	0.00
18:50:11	5.01	185.02	622.25	0.04	792.26	0.00	0.00	0.00	0.00
19:00:11	1.17	161.32	569.85	0.06	697.54	0.00	0.69	1.20	173.49
19:10:11	3.57	248.52	707.11	0.10	883.61	3.27	3.24	12.73	195.80
19:20:11	3.03	145.74	707.86	0.03	838.90	0.00	0.00	0.00	0.00
19:30:11	0.53	163.73	613.13	0.07	729.05	10.95	0.34	22.07	195.45
19:40:11	17.60	262.27	737.98	0.19	945.50	8.70	1.79	20.73	197.55
19:50:11	0.03	129.05	579.51	0.01	715.93	0.00	0.00	0.00	0.00
20:00:11	0.04	178.64	574.52	0.01	692.40	1.09	0.00	2.14	196.64
20:10:11	52.93	267.99	849.40	0.22	1146.37	39.39	0.00	78.38	198.98
20:20:11	33.46	140.97	666.55	0.45	841.07	0.00	0.00	0.00	0.00
20:30:11	6.99	108.92	564.66	0.06	707.29	0.00	1.06	1.94	183.60
20:40:11	0.03	228.57	683.28	0.01	873.53	0.00	5.95	10.87	182.75
20:50:11	1.78	142.83	615.92	0.02	849.07	0.00	6.25	12.14	194.24
21:00:11	0.02	110.33	536.53	0.01	697.26	0.00	5.52	9.34	169.10
21:10:11	26.75	253.67	718.77	1.10	926.06	0.00	5.15	8.09	156.92
21:20:11	0.78	108.53	664.89	0.18	828.10	0.00	6.73	9.97	148.16
21:30:11	0.36	107.63	634.68	0.03	864.87	0.00	14.52	27.44	188.91
21:40:11	0.16	265.75	704.65	0.01	907.50	0.00	0.34	0.53	157.21
21:50:11	0.17	107.22	607.32	0.00	801.65	0.00	0.00	0.00	0.00
21:50:11	pgpgin/s	pgpgout/s	fault/s	majflt/s	pgfree/s	pgscank/s	pgscand/s	pgsteal/s	%vmeff
22:00:11	0.13	147.05	570.40	0.02	735.08	0.00	4.46	8.37	187.45
22:10:09	190.58	506.01	1000.52	0.50	1301.50	23.45	0.00	46.35	197.63
22:20:10	117.12	584.55	1828.52	0.10	2143.24	111.97	0.64	223.33	198.32
22:30:11	19.58	125.50	589.88	0.04	761.71	0.00	0.00	0.00	0.00
22:40:11	4.71	273.35	790.63	0.12	982.89	0.00	1.96	3.35	170.75
22:50:11	346.74	188.52	2135.91	14.42	2501.70	0.00	0.00	0.00	0.00

23:00:11	33.03	253.85	5366.47	0.88	5466.65	43.77	0.00	86.02	196.54
23:10:11	9.29	300.25	4808.97	0.18	4991.85	56.38	2.89	116.08	195.84
Average:	217.45	639.20	1442.44	0.59	2100.62	141.75	1.41	168.89	117.98

free

Speicher/SWAP-Auslastung in GB

```
free -g
```

	total	used	free	shared	buff/cache	available
Mem:	16318416	7295948	451604	524528	8570864	8159504
Swap:	16322880	4127488	12195392			

Netzwerk

RX-ERR

```
netstat -i
```

```
Kernel Interface table
```

Iface	MTU	Met	RX-OK	RX-ERR	RX-DRP	RX-OVR	TX-OK	TX-ERR	TX-DRP	TX-OVR	Flg
bond0	1500	0	500615690	0	680848	0	495289774	0	0	0	BMmRU
bond1	1500	0	7118264	0	387171	0	5325736	0	0	0	BMmRU
bond1:1	1500	0	- no statistics available -								BMmRU
bond1:2	1500	0	- no statistics available -								BMmRU
bond1:4	1500	0	- no statistics available -								BMmRU
bond1:5	1500	0	- no statistics available -								BMmRU
bond1:6	1500	0	- no statistics available -								BMmRU
bond2	1500	0	730890	0	227226	0	4492	0	0	0	BMmRU
eth0	1500	0	680901	0	680846	0	0	0	0	0	BMsRU
eth1	1500	0	386965	0	386965	0	0	0	0	0	BMsRU
eth2	1500	0	227224	0	227224	0	0	0	0	0	BMsRU
eth3	1500	0	503666	0	0	0	4492	0	0	0	BMsRU
eth4	1500	0	499934789	0	0	0	495289774	0	0	0	BMsRU
eth5	1500	0	6731299	0	0	0	5325736	0	0	0	BMsRU
eth6	9000	0	656029363	0	214	0	703127744	0	0	0	BMRU
eth6:1	9000	0	- no statistics available -								BMRU
eth7	9000	0	1173507454	0	216	0	1037376088	0	0	0	BMRU
eth7:1	9000	0	- no statistics available -								BMRU
lo	65536	0	736520436	0	0	0	736520436	0	0	0	LRU

Im Block "Tcp" das Verhältnis von segments retransmitted zu segments send out (Diagnose wie viele Pakete retransmitted werden mussten)

```
netstat -st
```

IcmpMsg:

```
InType0: 622204
InType3: 6052
InType8: 746391
InType11: 23
InType13: 3
InType15: 3
InType17: 3
OutType0: 745713
OutType3: 5401
OutType8: 622447
OutType11: 57
OutType14: 3
```

Tcp:

```
3519494 active connections openings
```

```
761050 passive connection openings
2016541 failed connection attempts
451582 connection resets received
291 connections established
565428806 segments received
582593439 segments send out
2846212 segments retransmitted
10 bad segments received.
1231155 resets sent
InCsumErrors: 0
UdpLite:
  InDatagrams: 0
  NoPorts: 0
  InErrors: 0
  OutDatagrams: 0
  RcvbufErrors: 0
  SndbufErrors: 0
  InCsumErrors: 0
  IgnoredMulti: 0
TcpExt:
  1 packets pruned from receive queue because of socket buffer overrun
  35 ICMP packets dropped because they were out-of-window
  ArpFilter: 0
  217878 TCP sockets finished time wait in fast timer
  4115511 delayed acks sent
  1135 delayed acks further delayed because of locked socket
  Quick ack mode was activated 157740 times
  4919622 packets directly queued to recvmsg prequeue.
  2106470 packets directly received from backlog
  728738337 packets directly received from prequeue
  260056903 packets header predicted
  1756921 packets header predicted and directly queued to user
  TCPPureAcks: 12917450
  TCPHPAcks: 256486617
  TCPRenoRecovery: 0
  TCPSackRecovery: 21917
  TCPSACKReneging: 0
  TCPFACKReorder: 36
  TCPSACKReorder: 0
  TCPRenoReorder: 0
  TCPTSReorder: 1
  TCPFullUndo: 4
  TCPPartialUndo: 0
  TCPDSACKUndo: 1056
  TCPLossUndo: 978
  TCPLostRetransmit: 1401
  TCPRenoFailures: 0
  TCPSackFailures: 421
  TCPLossFailures: 7
  TCPFastRetrans: 46262
  TCPForwardRetrans: 1889
  TCPSlowStartRetrans: 1309
  TCPTimeouts: 1915
  TCPLossProbes: 2790807
  TCPLossProbeRecovery: 3514
  TCPRenoRecoveryFail: 0
  TCPSackRecoveryFail: 258
  TCPSchedulerFailed: 0
  TCPRcvCollapsed: 43
  TCPDSACKOldSent: 157742
  TCPDSACKOfoSent: 0
  TCPDSACKRecv: 2783642
  TCPDSACKOfoRecv: 0
  TCPAbortOnData: 166874
  TCPAbortOnClose: 4068
  TCPAbortOnMemory: 0
  TCPAbortOnTimeout: 237
  TCPAbortOnLinger: 0
  TCPAbortFailed: 0
  TCPMemoryPressures: 0
```



```
TCPsACKDiscard: 0
TCPDSACKIgnoredOld: 4
TCPDSACKIgnoredNoUndo: 2550554
TCPspuriousRTOs: 0
TCPMD5NotFound: 0
TCPMD5Unexpected: 0
TCPSackShifted: 14373
TCPSackMerged: 25768
TCPSackShiftFallback: 263888
TCPBacklogDrop: 0
TCPMinTTLDrop: 0
TCPDeferAcceptDrop: 0
IPReversePathFilter: 285686
TCPTimeWaitOverflow: 0
TCPReqQFullDoCookies: 0
TCPReqQFullDrop: 0
TCPRetransFail: 0
TCPRcvCoalesce: 1677684
TCP0F0Queue: 5972
TCP0F0Drop: 0
TCP0F0Merge: 0
TCPChallengeACK: 11751
TCPSYNChallenge: 10
TCPFastOpenActive: 0
TCPFastOpenActiveFail: 0
TCPFastOpenPassive: 0
TCPFastOpenPassiveFail: 0
TCPFastOpenListenOverflow: 0
TCPFastOpenCookieReqd: 0
TCPspuriousRtxHostQueues: 57
BusyPollRxPackets: 0
TCPAutoCorking: 229104566
TCPFromZeroWindowAdv: 263
TCPToZeroWindowAdv: 263
TCPWantZeroWindowAdv: 185
TCPSynRetrans: 2858
TCPOrigDataSent: 542987167
TCPHystartTrainDetect: 432795
TCPHystartTrainCwnd: 8644006
TCPHystartDelayDetect: 12
TCPHystartDelayCwnd: 225
TCPACKSkippedSynRecv: 0
TCPACKSkippedPAWS: 0
TCPACKSkippedSeq: 7
TCPACKSkippedFinWait2: 0
TCPACKSkippedTimeWait: 0
TCPACKSkippedChallenge: 0
TCPWinProbe: 81
TCPKeepAlive: 533011
TCPMTUPFail: 0
TCPMTUPSuccess: 0
```

IpExt:

```
InNoRoutes: 0
InTruncatedPkts: 0
InMcastPkts: 3618291
OutMcastPkts: 811102
InBcastPkts: 13248
OutBcastPkts: 31
InOctets: 3464926929670
OutOctets: 2631875144172
InMcastOctets: 580452056
OutMcastOctets: 42202479
InBcastOctets: 4579903
OutBcastOctets: 12340
InCsumErrors: 0
InNoECTPkts: 3072086529
InECT1Pkts: 0
InECT0Pkts: 0
InCEPkts: 0
```

AD

winbind

```
wbinfo -p
```

```
Ping to winbindd succeeded
```

```
wbinfo -P
```

```
checking the NETLOGON for domain[IDST] dc connection to "N4363022.idst.ibaintern.de" succeeded
```

AD-abfrage id gegen alle user

```
cd /home/BADA/  
for X in *; do id BADA\\$X; done;
```

```
uid=409768(BADA\ax) gid=04402(BADA\do)  
groups=409768(BADA\ax),04402(BADA\do),06900(BADA\z9),387321(BADA\z9),50061(BADA\z9),71422(BADA\ds1),4276  
6(BADA\z9),06508(BADA\z9),387329(BADA\z9),28064(BADA\z9),06596(BADA\z9),78981(BADA\z9),76053(BADA\l9),50  
060(BADA\l9),78980(BADA\l9),06901(BADA\l9),28253(BADA\l9),019318(BADA\l9),06597(BADA\l9),387320(BADA\l9)  
,019314(BADA\l9),011016(BADA\l9),28063(BADA\l9),50070(BADA\l9),065087(BADA\l9),387318(BADA\l9),42765(BAD  
A\l9)  
uid=85757(BADA\ba) gid=04402(BADA\do)  
groups=85757(BADA\ba),04402(BADA\do),78915(BADA\z9),06596(BADA\z9),71422(BADA\ds1),76053(BADA\l9),28253(  
BADA\l9),06597(BADA\l9),78914(BADA\l9)  
uid=461093(BADA\ba) gid=04402(BADA\do)  
groups=461093(BADA\ba),04402(BADA\do),497671(BADA\z9),78915(BADA\z9),06596(BADA\z9),71422(BADA\ds1),7605  
3(BADA\l9),28253(BADA\l9),06597(BADA\l9),78914(BADA\l9)  
uid=471050(BADA\ba) gid=04402(BADA\do)  
groups=471050(BADA\ba),04402(BADA\do),06900(BADA\z9),50061(BADA\z9),42766(BADA\z9),497827(BADA\z9),06508  
(BADA\z9),497742(BADA\z9),497768(BADA\z9),28064(BADA\z9),06596(BADA\z9),497702(BADA\z9),78981(BADA\z9),4  
97746(BADA\z9),71422(BADA\ds1),76053(BADA\l9),50060(BADA\l9),78980(BADA\l9),06901(BADA\l9),28253(BADA\l9  
DA\l9),42765(BADA\l9)  
uid=226129(BADA\bo) gid=04402(BADA\do)  
groups=226129(BADA\bo),04402(BADA\do),06900(BADA\z9),387321(BADA\z9),50061(BADA\z9),42766(BADA\z9),38732  
9(BADA\z9),28064(BADA\z9),06596(BADA\z9),78981(BADA\z9),71422(BADA\ds1),76053(BADA\l9),50060(BADA\l9),78  
980(BADA\l9),06901(BADA\l9),28253(BADA\l9),019318(BADA\l9),06597(BADA\l9),387320(BADA\l9),019314(BADA\l9  
uid=461970(BADA\bo) gid=04402(BADA\do)  
groups=461970(BADA\bo),04402(BADA\do),06900(BADA\z9),387321(BADA\z9),413438(BADA\z9),50061(BADA\z9),4276  
6(BADA\z9),413441(BADA\z9),497742(BADA\z9),497768(BADA\z9),387329(BADA\z9),28064(BADA\z9),06596(BADA\z9)  
,497702(BADA\z9),78981(BADA\z9),497746(BADA\z9),71422(BADA\ds1),76053(BADA\l9),50060(BADA\l9),78980(BADA  
\l9),06901(BADA\l9),28253(BADA\l9),019318(BADA\l9),06597(BADA\l9),387320(BADA\l9),019314(BADA\l9),28063(  
BADA\l9),50070(BADA\l9),387318(BADA\l9),42765(BADA\l9)  
uid=461276(BADA\br) gid=04402(BADA\do)  
groups=461276(BADA\br),04402(BADA\do),06900(BADA\z9),387321(BADA\z9),413438(BADA\z9),50061(BADA\z9),4276  
6(BADA\z9),497827(BADA\z9),413441(BADA\z9),06508(BADA\z9),497742(BADA\z9),497768(BADA\z9),387329(BADA\z9  
A\l9),50060(BADA\l9),78980(BADA\l9),06901(BADA\l9),28253(BADA\l9),019318(BADA\l9),06597(BADA\l9),387320(  
BADA\l9),019314(BADA\l9),011016(BADA\l9),28063(BADA\l9),50070(BADA\l9),065087(BADA\l9),387318(BADA\l9),4  
2765(BADA\l9)  
uid=468484(BADA\ch) gid=04402(BADA\do)  
groups=468484(BADA\ch),04402(BADA\do),497893(BADA\z9),77856(BADA\z9),06596(BADA\z9),71422(BADA\ds1),7605  
3(BADA\l9),28253(BADA\l9),06597(BADA\l9),77855(BADA\l9)  
uid=28157(BADA\co) gid=04402(BADA\do)  
groups=28157(BADA\co),04402(BADA\do),387321(BADA\z9),06500(BADA\z9),78915(BADA\z9),387329(BADA\z9),06596  
(BADA\z9),71422(BADA\ds1),76053(BADA\l9),06501(BADA\l9),28253(BADA\l9),06597(BADA\l9),387320(BADA\l9),78
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914(BADA\L9),387318(BADA\L9)
uid=461042(BADA\co) gid=04402(BADA\do)
groups=461042(BADA\co),04402(BADA\do),497844(BADA\z9),497671(BADA\z9),06500(BADA\z9),78915(BADA\z9),0659
6(BADA\z9),71422(BADA\dsL),76053(BADA\L9),06501(BADA\L9),28253(BADA\L9),06597(BADA\L9),78914(BADA\L9)
uid=460539(BADA\da) gid=04402(BADA\do)
groups=460539(BADA\da),04402(BADA\do),06900(BADA\z9),387321(BADA\z9),413438(BADA\z9),50061(BADA\z9),4276
6(BADA\z9),497827(BADA\z9),413441(BADA\z9),06508(BADA\z9),497742(BADA\z9),497768(BADA\z9),387329(BADA\z9
),28064(BADA\z9),06596(BADA\z9),497702(BADA\z9),78981(BADA\z9),497746(BADA\z9),71422(BADA\dsL),76053(BAD
A\L9),50060(BADA\L9),78980(BADA\L9),06901(BADA\L9),28253(BADA\L9),019318(BADA\L9),06597(BADA\L9),387320(
BADA\L9),019314(BADA\L9),011016(BADA\L9),28063(BADA\L9),50070(BADA\L9),065087(BADA\L9),387318(BADA\L9),4
2765(BADA\L9)
uid=89047(BADA\di) gid=04402(BADA\do)
groups=89047(BADA\di),04402(BADA\do),06900(BADA\z9),387321(BADA\z9),50061(BADA\z9),387329(BADA\z9),28064
(BADA\z9),06596(BADA\z9),78981(BADA\z9),71422(BADA\dsL),76053(BADA\L9),50060(BADA\L9),78980(BADA\L9),069
01(BADA\L9),28253(BADA\L9),06597(BADA\L9),387320(BADA\L9),019314(BADA\L9),28063(BADA\L9),50070(BADA\L9),
387318(BADA\L9)
uid=006856(BADA\en) gid=04402(BADA\do)
groups=006856(BADA\en),04402(BADA\do),78915(BADA\z9),06596(BADA\z9),71422(BADA\dsL),76053(BADA\L9),28253
(BADA\L9),06597(BADA\L9),78914(BADA\L9)
uid=461280(BADA\en) gid=04402(BADA\do)
groups=461280(BADA\en),04402(BADA\do),497671(BADA\z9),78915(BADA\z9),06596(BADA\z9),71422(BADA\dsL),7605
3(BADA\L9),28253(BADA\L9),06597(BADA\L9),78914(BADA\L9)
uid=85723(BADA\ga) gid=04402(BADA\do)
groups=85723(BADA\ga),04402(BADA\do),06900(BADA\z9),387321(BADA\z9),50061(BADA\z9),387329(BADA\z9),28064
(BADA\z9),06596(BADA\z9),78981(BADA\z9),71422(BADA\dsL),76053(BADA\L9),50060(BADA\L9),78980(BADA\L9),069
01(BADA\L9),28253(BADA\L9),06597(BADA\L9),387320(BADA\L9),019314(BADA\L9),28063(BADA\L9),50070(BADA\L9),
387318(BADA\L9)
uid=461942(BADA\ga) gid=04402(BADA\do)
groups=461942(BADA\ga),04402(BADA\do),06900(BADA\z9),387321(BADA\z9),413438(BADA\z9),50061(BADA\z9),4134
41(BADA\z9),497742(BADA\z9),387329(BADA\z9),28064(BADA\z9),06596(BADA\z9),497702(BADA\z9),78981(BADA\z9)
,497746(BADA\z9),71422(BADA\dsL),76053(BADA\L9),50060(BADA\L9),78980(BADA\L9),06901(BADA\L9),28253(BADA\
L9),06597(BADA\L9),387320(BADA\L9),019314(BADA\L9),28063(BADA\L9),50070(BADA\L9),387318(BADA\L9)
uid=461131(BADA\he) gid=04402(BADA\do)
groups=461131(BADA\he),04402(BADA\do),497778(BADA\z),06900(BADA\z9),065357(BADA\z9),50061(BADA\z9),42766
(BADA\z9),497686(BADA\z9),497827(BADA\z9),06508(BADA\z9),497742(BADA\z9),497768(BADA\z9),28064(BADA\z9),
06596(BADA\z9),497702(BADA\z9),78981(BADA\z9),78907(BADA\z9),498933(BADA\z9),497746(BADA\z9),47231(BADA\
z9),71422(BADA\dsL),76053(BADA\L9),50060(BADA\L9),78980(BADA\L9),06901(BADA\L9),28253(BADA\L9),019318(BA
DA\L9),06597(BADA\L9),019314(BADA\L9),011016(BADA\L9),065356(BADA\L9),78906(BADA\L9),28063(BADA\L9),5007
0(BADA\L9),065087(BADA\L9),47230(BADA\L9),42765(BADA\L9)
uid=063520(BADA\he) gid=04402(BADA\do)
groups=063520(BADA\he),04402(BADA\do),41663(BADA\L9),019271(BADA\L9),77855(BADA\L9),011016(BADA\L9),0659
7(BADA\L9),28253(BADA\L9),019273(BADA\L9),76053(BADA\L9),71422(BADA\dsL),41664(BADA\z9),019272(BADA\z9),
06596(BADA\z9),77856(BADA\z9),019274(BADA\z9)
uid=006852(BADA\ho) gid=04402(BADA\do)
groups=006852(BADA\ho),04402(BADA\do),78914(BADA\L9),06597(BADA\L9),28253(BADA\L9),76053(BADA\L9),71422(
BADA\dsL),06596(BADA\z9),78915(BADA\z9)
uid=468680(BADA\kr) gid=04402(BADA\do)
groups=468680(BADA\kr),04402(BADA\do),06900(BADA\z9),387321(BADA\z9),413438(BADA\z9),50061(BADA\z9),4276
6(BADA\z9),497827(BADA\z9),413441(BADA\z9),06508(BADA\z9),497742(BADA\z9),497768(BADA\z9),387329(BADA\z9
),28064(BADA\z9),06596(BADA\z9),497702(BADA\z9),78981(BADA\z9),497746(BADA\z9),71422(BADA\dsL),76053(BAD
A\L9),50060(BADA\L9),78980(BADA\L9),06901(BADA\L9),28253(BADA\L9),019318(BADA\L9),06597(BADA\L9),387320(
BADA\L9),019314(BADA\L9),011016(BADA\L9),28063(BADA\L9),50070(BADA\L9),065087(BADA\L9),387318(BADA\L9),4
2765(BADA\L9)
uid=06680(BADA\lu) gid=04402(BADA\do)
groups=06680(BADA\lu),04402(BADA\do),387318(BADA\L9),50070(BADA\L9),28063(BADA\L9),019314(BADA\L9),38732
0(BADA\L9),06597(BADA\L9),28253(BADA\L9),06901(BADA\L9),78980(BADA\L9),011487(BADA\L9),50060(BADA\L9),76
053(BADA\L9),71422(BADA\dsL),78981(BADA\z9),06596(BADA\z9),28064(BADA\z9),387329(BADA\z9),01148(BADA\z9)
,50061(BADA\z9),387321(BADA\z9),06900(BADA\z9)
uid=76375(BADA\mi) gid=04402(BADA\do)
groups=76375(BADA\mi),04402(BADA\do),06512(BADA\z9),065049(BADA\z9),71422(BADA\dsL),019274(BADA\z9),0114
8(BADA\z9),011015(BADA\z9),77856(BADA\z9),06596(BADA\z9),065041(BADA\z9),019272(BADA\z9),76053(BADA\L9),
11339,19597(IB\vi),019273(BADA\L9),011487(BADA\L9),065040(BADA\L9),28253(BADA\L9),011014(BADA\L9),06597(
BADA\L9),065038(BADA\L9),011016(BADA\L9),06513(BADA\L9),77855(BADA\L9),019271(BADA\L9)
id: 'BADA\mo': no such user
uid=298526(BADA\ni) gid=04402(BADA\do)
groups=298526(BADA\ni),04402(BADA\do),06900(BADA\z9),387321(BADA\z9),50061(BADA\z9),42766(BADA\z9),38732
9(BADA\z9),28064(BADA\z9),06596(BADA\z9),78981(BADA\z9),78907(BADA\z9),71422(BADA\dsL),76053(BADA\L9),50
060(BADA\L9),78980(BADA\L9),06901(BADA\L9),28253(BADA\L9),019318(BADA\L9),06597(BADA\L9),387320(BADA\L9)
,019314(BADA\L9),78906(BADA\L9),28063(BADA\L9),50070(BADA\L9),387318(BADA\L9),42765(BADA\L9)
uid=461234(BADA\ni) gid=04402(BADA\do)

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groups=461234(BADA\ni),04402(BADA\do),06900(BADA\z9),387321(BADA\z9),413438(BADA\z9),50061(BADA\z9),42766(BADA\z9),497686(BADA\z9),413441(BADA\z9),497742(BADA\z9),497768(BADA\z9),387329(BADA\z9),28064(BADA\z9),06596(BADA\z9),497702(BADA\z9),78981(BADA\z9),78907(BADA\z9),497746(BADA\z9),71422(BADA\ds1),76053(BADA\l9),50060(BADA\l9),78980(BADA\l9),06901(BADA\l9),28253(BADA\l9),019318(BADA\l9),06597(BADA\l9),387320(BADA\l9),019314(BADA\l9),78906(BADA\l9),28063(BADA\l9),50070(BADA\l9),387318(BADA\l9),42765(BADA\l9)
uid=468663(BADA\pa) gid=04402(BADA\do)
groups=468663(BADA\pa),04402(BADA\do),50061(BADA\z9),497827(BADA\z9),06508(BADA\z9),06596(BADA\z9),497702(BADA\z9),78981(BADA\z9),497746(BADA\z9),71422(BADA\ds1),76053(BADA\l9),50060(BADA\l9),78980(BADA\l9),28253(BADA\l9),06597(BADA\l9),019314(BADA\l9),011016(BADA\l9),50070(BADA\l9),065087(BADA\l9)
id: 'BADA\pa': no such user
uid=231922(BADA\pa) gid=04402(BADA\do)
groups=231922(BADA\pa),04402(BADA\do),06900(BADA\z9),50061(BADA\z9),42766(BADA\z9),28064(BADA\z9),06596(BADA\z9),78981(BADA\z9),71422(BADA\ds1),76053(BADA\l9),50060(BADA\l9),78980(BADA\l9),06901(BADA\l9),28253(BADA\l9),019318(BADA\l9),06597(BADA\l9),019314(BADA\l9),28063(BADA\l9),50070(BADA\l9),42765(BADA\l9)
uid=461078(BADA\pa) gid=04402(BADA\do)
groups=461078(BADA\pa),04402(BADA\do),06900(BADA\z9),387321(BADA\z9),413438(BADA\z9),50061(BADA\z9),42766(BADA\z9),413441(BADA\z9),497742(BADA\z9),497768(BADA\z9),387329(BADA\z9),28064(BADA\z9),06596(BADA\z9),497702(BADA\z9),78981(BADA\z9),497746(BADA\z9),71422(BADA\ds1),76053(BADA\l9),50060(BADA\l9),78980(BADA\l9),06901(BADA\l9),28253(BADA\l9),019318(BADA\l9),06597(BADA\l9),387320(BADA\l9),019314(BADA\l9),28063(BADA\l9),50070(BADA\l9),387318(BADA\l9),42765(BADA\l9)
uid=06681(BADA\re) gid=04402(BADA\do)
groups=06681(BADA\re),04402(BADA\do),06900(BADA\z9),50061(BADA\z9),71422(BADA\ds1),387329(BADA\z9),28064(BADA\z9),06596(BADA\z9),78981(BADA\z9),76053(BADA\l9),50060(BADA\l9),78980(BADA\l9),06901(BADA\l9),28253(BADA\l9),06597(BADA\l9),019314(BADA\l9),28063(BADA\l9),50070(BADA\l9),387318(BADA\l9)
uid=461086(BADA\re) gid=04402(BADA\do)
groups=461086(BADA\re),04402(BADA\do),06900(BADA\z9),50061(BADA\z9),413441(BADA\z9),497742(BADA\z9),387329(BADA\z9),28064(BADA\z9),06596(BADA\z9),497702(BADA\z9),78981(BADA\z9),497746(BADA\z9),71422(BADA\ds1),76053(BADA\l9),50060(BADA\l9),78980(BADA\l9),06901(BADA\l9),28253(BADA\l9),06597(BADA\l9),019314(BADA\l9),28063(BADA\l9),50070(BADA\l9),387318(BADA\l9)
uid=434520(BADA\sc) gid=04402(BADA\do)
groups=434520(BADA\sc),04402(BADA\do),77480(BADA\z9),434596(BADA\z9),71422(BADA\ds1),76053(BADA\l9),28253(BADA\l9),442071(BADA\l9),442073(BADA\l9)
uid=006853(BADA\sc) gid=04402(BADA\do)
groups=006853(BADA\sc),04402(BADA\do),78914(BADA\l9),06597(BADA\l9),28253(BADA\l9),76053(BADA\l9),71422(BADA\ds1),06596(BADA\z9),78915(BADA\z9)
uid=006855(BADA\sc) gid=04402(BADA\do)
groups=006855(BADA\sc),04402(BADA\do),78914(BADA\l9),06597(BADA\l9),28253(BADA\l9),76053(BADA\l9),71422(BADA\ds1),06596(BADA\z9),78915(BADA\z9)
uid=461308(BADA\si) gid=04402(BADA\do)
groups=461308(BADA\si),04402(BADA\do),06900(BADA\z9),50061(BADA\z9),413441(BADA\z9),497742(BADA\z9),387329(BADA\z9),28064(BADA\z9),06596(BADA\z9),497702(BADA\z9),78981(BADA\z9),497746(BADA\z9),71422(BADA\ds1),76053(BADA\l9),50060(BADA\l9),78980(BADA\l9),06901(BADA\l9),28253(BADA\l9),06597(BADA\l9),019314(BADA\l9),28063(BADA\l9),50070(BADA\l9),387318(BADA\l9)
uid=06684(BADA\si) gid=04402(BADA\do)
groups=06684(BADA\si),04402(BADA\do),06900(BADA\z9),50061(BADA\z9),42766(BADA\z9),387329(BADA\z9),28064(BADA\z9),06596(BADA\z9),78981(BADA\z9),71422(BADA\ds1),76053(BADA\l9),50060(BADA\l9),78980(BADA\l9),06901(BADA\l9),28253(BADA\l9),019318(BADA\l9),06597(BADA\l9),019314(BADA\l9),28063(BADA\l9),50070(BADA\l9),387318(BADA\l9),42765(BADA\l9)
uid=89048(BADA\si) gid=04402(BADA\do)
groups=89048(BADA\si),04402(BADA\do),06900(BADA\z9),06512(BADA\z9),50061(BADA\z9),71422(BADA\ds1),28064(BADA\z9),06596(BADA\z9),78981(BADA\z9),76053(BADA\l9),11339,19597(IB\vi),50060(BADA\l9),78980(BADA\l9),06901(BADA\l9),28253(BADA\l9),06597(BADA\l9),019314(BADA\l9),011016(BADA\l9),06513(BADA\l9),28063(BADA\l9),50070(BADA\l9)
uid=006857(BADA\so) gid=04402(BADA\do)
groups=006857(BADA\so),04402(BADA\do),387318(BADA\l9),78914(BADA\l9),387320(BADA\l9),06597(BADA\l9),28253(BADA\l9),76053(BADA\l9),71422(BADA\ds1),06596(BADA\z9),387329(BADA\z9),78915(BADA\z9),387321(BADA\z9)
uid=461460(BADA\so) gid=04402(BADA\do)
groups=461460(BADA\so),04402(BADA\do),387321(BADA\z9),413438(BADA\z9),413441(BADA\z9),497671(BADA\z9),78915(BADA\z9),387329(BADA\z9),06596(BADA\z9),71422(BADA\ds1),76053(BADA\l9),28253(BADA\l9),06597(BADA\l9),387320(BADA\l9),78914(BADA\l9),387318(BADA\l9)
uid=404600(BADA\uf) gid=04402(BADA\do)
groups=404600(BADA\uf),04402(BADA\do),011800(BADA\z0),71422(BADA\ds1),380450(BADA\z9)
uid=434521(BADA\vo) gid=04402(BADA\do)
groups=434521(BADA\vo),04402(BADA\do),77480(BADA\z9),434596(BADA\z9),71422(BADA\ds1),76053(BADA\l9),28253(BADA\l9),442071(BADA\l9),442073(BADA\l9)
uid=461334(BADA\za) gid=04402(BADA\do)
groups=461334(BADA\za),04402(BADA\do),434639(BADA\z9),06900(BADA\z9),387321(BADA\z9),413438(BADA\z9),50061(BADA\z9),42766(BADA\z9),413441(BADA\z9),497742(BADA\z9),497768(BADA\z9),387329(BADA\z9),28064(BADA\z9),06596(BADA\z9),497702(BADA\z9),78981(BADA\z9),497746(BADA\z9),71422(BADA\ds1),76053(BADA\l9),50060(BADA\l9),78980(BADA\l9),06901(BADA\l9),28253(BADA\l9),019318(BADA\l9),06597(BADA\l9),387320(BADA\l9),019314
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(BADA\L9),442190(BADA\L9),28063(BADA\L9),50070(BADA\L9),387318(BADA\L9),42765(BADA\L9)

Hardware

hplog

hplog -v

ID	Severity	Initial Time	Update Time	Count
0000	Information	14:37 12/11/2012	14:37 12/11/2012	0001
LOG: Maintenance note: IML Cleared (IML Log cleared by the				
0001	Caution	09:08 02/08/2013	09:08 02/08/2013	0001
LOG: POST Error: 1704-Slot X Drive Array - Array Accelerator Super-Cap is charging. The Array Accelerator Cache will be enabled once Super-Cap has been charged. No action is required.				
0002	Repaired	08:13 02/11/2013	05:14 04/15/2018	0015
LOG: Network Adapter Link Down (Slot 3, Port 2)				
0003	Repaired	00:12 03/08/2013	05:14 04/15/2018	0012
LOG: Network Adapter Link Down (Slot 3, Port 1)				
0004	Repaired	12:46 06/20/2013	20:59 12/27/2016	0006
LOG: Network Adapters Redundancy Reduced (Slot 0, Port 4)				
0005	Repaired	12:46 06/20/2013	05:17 04/15/2018	0008
LOG: Network Adapter Link Down (Slot 2, Port 2)				
0006	Repaired	12:46 06/20/2013	05:17 04/15/2018	0008
LOG: Network Adapter Link Down (Slot 2, Port 1)				
0007	Repaired	13:41 06/21/2013	05:19 04/15/2018	0006
LOG: Network Adapter Link Down (Slot 0, Port 2)				
0008	Repaired	13:42 06/21/2013	20:40 12/27/2016	0004
LOG: Network Adapters Redundancy Reduced (Slot 0, Port 3)				
0009	Repaired	13:42 06/21/2013	05:19 04/15/2018	0006
LOG: Network Adapters Redundancy Reduced (Slot 0, Port 1)				
0010	Caution	06:09 06/17/2014	06:09 06/17/2014	0001
LOG: POST Error: 1792-Drive Array Reports Valid Data Found in Array Accelerator				
0011	Repaired	14:38 11/08/2016	15:20 11/08/2016	0001
LOG: System Power Supply: General Failure (Power Supply 1)				
0012	Repaired	14:38 11/08/2016	15:20 11/08/2016	0001
LOG: System Power Supplies Not Redundant				
0013	Critical	11:35 03/21/2017	11:35 03/21/2017	0001
LOG: ASR Detected by System ROM				
0014	Repaired	05:43 10/22/2017	13:57 04/15/2018	0002
LOG: Internal Storage Enclosure Device Failure (Bay 2, Box 1, Port 1I, Slot 0)				
0015	Caution	18:59 11/30/2017	18:59 11/30/2017	0001
LOG: POST Error: 1786-Drive Array Recovery Needed				
0016	Critical	10:50 01/31/2018	10:50 01/31/2018	0001
LOG: Uncorrectable PCI Express Error (Embedded device, Bus 0, Device 0, Function 0, Error status 0x00000000)				
0017	Caution	11:12 01/31/2018	11:12 01/31/2018	0001
LOG: POST Error: 1720-S.M.A.R.T. Hard Drive Detects Imminent Failure				

```
0018 Critical      09:46 02/01/2018 09:46 02/01/2018 0001
LOG: Uncorrectable PCI Express Error (Embedded device, Bus 0, Device 0, Function 0, Error status
0x00000000)

0019 Caution     10:01 02/01/2018 10:01 02/01/2018 0001
LOG: POST Error: 1720-S.M.A.R.T. Hard Drive Detects Imminent Failure

0020 Critical     15:51 04/13/2018 15:51 04/13/2018 0001
LOG: Uncorrectable PCI Express Error (Embedded device, Bus 0, Device 0, Function 0, Error status
0x00000000)

0021 Caution     00:00 00/00/0000 00:00 00/00/0000 0001
LOG: System Power Supply: General Failure (Power Supply 1)

0022 Caution     05:09 04/15/2018 05:09 04/15/2018 0001
LOG: POST Error: 1615-Power Supply Failure or Power Supply Unplugged in Bay 1

0023 Caution     05:10 04/15/2018 05:10 04/15/2018 0001
LOG: POST Error: 1720-S.M.A.R.T. Hard Drive Detects Imminent Failure

0024 Critical     12:37 07/18/2018 12:37 07/18/2018 0001
LOG: Uncorrectable PCI Express Error (Embedded device, Bus 0, Device 0, Function 0, Error status
0x00000000)
```

hpasmcli

```
hpasmcli
```

```
HPE management CLI for Linux (v2.0)
Copyright 2015 Hewlett Packard Enterprise Development LP.
```

```
-----
NOTE: Some hpasmcli commands may not be supported on all Proliant servers.
Type 'help' to get a list of all top level commands.
-----
```

```
hpasmcli> show dimm
```

```
DIMM Configuration
```

```
-----
Processor #:          1
Module #:            1
Present:             Yes
Form Factor:         9h
Memory Type:         DDR3(18h)
Size:                16384 MB
Speed:               1333 MHz
Supports Lock Step: No
Configured for Lock Step: No
Status:              Ok
```

```
Processor #:          1
Module #:            2
Present:             Yes
Form Factor:         9h
Memory Type:         DDR3(18h)
Size:                16384 MB
Speed:               1333 MHz
Supports Lock Step: No
Configured for Lock Step: No
Status:              Ok
```

```
Processor #:          1
Module #:            3
Present:             Yes
Form Factor:         9h
```

Memory Type: DDR3(18h)
Size: 16384 MB
Speed: 1333 MHz
Supports Lock Step: No
Configured for Lock Step: No
Status: Ok

Processor #: 1
Module #: 4
Present: Yes
Form Factor: 9h
Memory Type: DDR3(18h)
Size: 16384 MB
Speed: 1333 MHz
Supports Lock Step: No
Configured for Lock Step: No
Status: Ok

Processor #: 1
Module #: 5
Present: Yes
Form Factor: 9h
Memory Type: DDR3(18h)
Size: 16384 MB
Speed: 1333 MHz
Supports Lock Step: No
Configured for Lock Step: No
Status: Ok

Processor #: 1
Module #: 6
Present: Yes
Form Factor: 9h
Memory Type: DDR3(18h)
Size: 16384 MB
Speed: 1333 MHz
Supports Lock Step: No
Configured for Lock Step: No
Status: Ok

Processor #: 1
Module #: 7
Present: Yes
Form Factor: 9h
Memory Type: DDR3(18h)
Size: 16384 MB
Speed: 1333 MHz
Supports Lock Step: No
Configured for Lock Step: No
Status: Ok

Processor #: 1
Module #: 8
Present: Yes
Form Factor: 9h
Memory Type: DDR3(18h)
Size: 16384 MB
Speed: 1333 MHz
Supports Lock Step: No
Configured for Lock Step: No
Status: Ok

Processor #: 2
Module #: 1
Present: Yes
Form Factor: 9h
Memory Type: DDR3(18h)
Size: 16384 MB
Speed: 1333 MHz
Supports Lock Step: No

Configured for Lock Step:	No
Status:	Ok
Processor #:	2
Module #:	2
Present:	Yes
Form Factor:	9h
Memory Type:	DDR3(18h)
Size:	16384 MB
Speed:	1333 MHz
Supports Lock Step:	No
Configured for Lock Step:	No
Status:	Ok
Processor #:	2
Module #:	3
Present:	Yes
Form Factor:	9h
Memory Type:	DDR3(18h)
Size:	16384 MB
Speed:	1333 MHz
Supports Lock Step:	No
Configured for Lock Step:	No
Status:	Ok
Processor #:	2
Module #:	4
Present:	Yes
Form Factor:	9h
Memory Type:	DDR3(18h)
Size:	16384 MB
Speed:	1333 MHz
Supports Lock Step:	No
Configured for Lock Step:	No
Status:	Ok
Processor #:	2
Module #:	5
Present:	Yes
Form Factor:	9h
Memory Type:	DDR3(18h)
Size:	16384 MB
Speed:	1333 MHz
Supports Lock Step:	No
Configured for Lock Step:	No
Status:	Ok
Processor #:	2
Module #:	6
Present:	Yes
Form Factor:	9h
Memory Type:	DDR3(18h)
Size:	16384 MB
Speed:	1333 MHz
Supports Lock Step:	No
Configured for Lock Step:	No
Status:	Ok
Processor #:	2
Module #:	7
Present:	Yes
Form Factor:	9h
Memory Type:	DDR3(18h)
Size:	16384 MB
Speed:	1333 MHz
Supports Lock Step:	No
Configured for Lock Step:	No
Status:	Ok
Processor #:	2


```
Module #: 8
Present: Yes
Form Factor: 9h
Memory Type: DDR3(18h)
Size: 16384 MB
Speed: 1333 MHz
Supports Lock Step: No
Configured for Lock Step: No
Status: Ok

hpsmcli> quit
```

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