## Clear swap

DO NOT DO unless you need to.

## https://www.redhat.com/sysadmin/clear-swap-linux

- free -h see how much is in swap
- --- ADD IN use vmstat to see if there is anything swapping. Clearing swap could make the system unstable.
  - O watch vmstat -w (-w for wide format) or vmstat 1
- O Leave it running a few seconds to settle down and watch the si (swapin) and so (swapout) columns. If nothing is happening then there is no reason to be concerned.

## Example:

```
procs ------memory--------swap-- ----io---- -system-- -----cpu-----
                        buff cache
                                      si so bi bo in cs us sy id wa st
r b swpd
              free
16 0 3473100 110923808 82556 51383108 0 0 137 232 0 0 10 4 86 0 0
26 0 3473100 110905648 82572 51398696 16 0 16 2996 128943 144776 22 5 73 0 0
16 0 3473100 110842864 82708 51421948 96 0 96 3676 110092 142389 16 4 80 0 0
21 0 3472844 110826512 82828 51242668 60 0 88 6244 127121 157627 18 5 77 0 0
10 0 3472844 111036944 82988 51259556 12 0 12 3536 150377 164434 23 6 71 0 0
22 1 3472588 125886384 3012 35956808 364 0 156388 4252 203500 251567 22 10 68 0 0
22 0 3472076 133074160 3036 28729952 120 0 75392 12926 121207 145738 22 7 71 0 0
43 0 3471820 141850528 3052 19837756 212 0 40644 2764 127439 151745 26 8 66 0 0
42 0 3471820 147322656 3060 14291916 16 0 70256 10574 134497 153285 30 9 61 0 0
26 0 3471820 148134640 3084 14321300 4 0 41464 5392 179984 153028 24 10 66 0 0
66 1 3471564 148253984 3100 14225100 68 0 91992 5400 120002 138400 29 9 62 1 0
----si column showing swap bytes in... so is bytes out.
```

	fin tufin-admin]# vmstat -w 1 memory				swap			io		-system			cpu			
. р	swpd	free	buff	cache	si	50	bi	bo	in	CS	us	sy	id	wa	st	
0	3470284	147925360		14868240	0	0	137	232	0	0	10	4	86	0	0	
0	3470284	147936784	6172	14886708	0	0	1572	72876	156991	174	881	17	6	76	0	
0	3470284	148078880	6180	14912452	0	0	1492	2796	158460	182	717	17	7	76	0	
0	3470284	148136064	6220	14937492	0	0	1460	10436	151477	172	876	20	7	72	0	
0	3470284	148235920	6220	14963692	0	0	1704	8368	130827	145	740	18	7	75	0	
2 2	3470284	148188880	6252	14990336	0	0	1708	43997	164030	184	616	21	8	71	0	
0	3470284	148227616	6260	15016048	0	0	1092	163937	2 13764	0 15	5107	20	6	74	0	

• swapoff -a

Wait approx 30 sec

(use free -m to see the amount of swap used/available decrease over time)

• swapon -a

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## https://askubuntu.com/questions/1357/how-to-empty-swap-if-there-is-free-ram

exit 1

fi

I've found that emptying swap can help a lot on systems with slow disks and limited RAM. Of course, as already mentioned, the way to do this is to run sudo swapoff -a; sudo swapon -a. The problem here is that if there's insufficient RAM, doing so will cause all sorts of problems.

I've written a script that I call toggle\_swap that has worked for me for the last several years. It checks for enough free RAM before actually disabling the swap. Here it is:

```
#!/bin/bash
free data="$(free)"
mem_data="$(echo "$free_data" | grep 'Mem:')"
free_mem="$(echo "$mem_data" | awk '{print $4}')"
buffers="$(echo "$mem_data" | awk '{print $6}')"
cache="$(echo "$mem_data" | awk '{print $7}')"
total_free=$((free_mem + buffers + cache))
used_swap="$(echo "$free_data" | grep 'Swap:' | awk '{print $3}')"
echo -e "Free memory:\t$total_free kB ($((total_free / 1024)) MB)\nUsed swap:\t$used_swap kB ($((used_swap /
1024)) MB)"
if [[ $used_swap -eq 0 ]]; then
  echo "Congratulations! No swap is in use."
elif [[ $used_swap -lt $total_free ]]; then
  echo "Freeing swap..."
  sudo swapoff -a
  sudo swapon -a
else
  echo "Not enough free memory. Exiting."
```