

Create swape file ??

Tuto from itsfoss.com and linuxhandbook.com.

Check swap space in Linux

```
$ free -h
```

| | total | used | free | shared | buff/cache | available |
|-------|-------|-------|-------|--------|------------|-----------|
| Mem: | 1,7Gi | 844Mi | 321Mi | 18Mi | 603Mi | 759Mi |
| Swap: | 0B | 0B | 0B | | | |

There is no swap space.

Make a new swap file

1. Use the `fallocate` command to create a file of size 1 GB.
2. It is recommended to allow only root to read and write to the swap file.

```
$ sudo fallocate -l 1G /swapfile  
$ sudo chmod 600 /swapfile
```

“ The name of the swap file could be anything.

Mark the new file as swap space

```
$ sudo mkswap /swapfile  
Configure l'espace d'échange (swap) en version 1, taille = 1024 MiB (1073737728 octets)  
pas d'étiquette, UUID=3bbb4a53-e2a4-495f-8e42-d7cb43e6ad40
```

Enable the swap file

1. Enable the swap file.

2. Check the swap space.

```
$ sudo swapon /swapfile
$ swapon --show
NAME      TYPE  SIZE USED PRI0
/swapfile file 1024M  0B   -2
```

Make the changes permanent

1. It's always a good idea to make a backup before make any changes to the `/etc/fstab` file.
2. Add the line to the end of `/etc/fstab` file.

```
$ sudo cp /etc/fstab /etc/fstab.back
```

Change Swapiness kernel parameter

Temporary change

Check *swappiness*:

```
cat /proc/sys/vm/swappiness
```

Change setting:

```
sudo sysctl vm.swappiness=10
```

Persistent change

Edit the config file:

```
sudo vim /etc/sysctl.conf
```

Set *swappiness*:

```
# /etc/sysctl.conf
vm.swappiness=10
```

Reload *sysctl*:

```
sudo sysctl -p
```

[Bonus] Resize swap file

Make sure the swapfile is on the system and not a swap partition.

```
$ swapon --show  
NAME      TYPE SIZE USED PRIO  
/swapfile file  1G   0B   -2
```

Now before you resize the swap file, you should turn the swap off.

You should also make sure that you have enough free RAM available to take the data from swap file.

Otherwise, create a temporary swap file.

A solution to clear swapfile is to reboot the system...

Disable the swapfile.

```
$ sudo swapoff /swapfile
```

Now, use the fallocation to change the size of the swap file.

```
$ sudo fallocation -l 2G /swapfile
```

Mark the file as a swap file.

```
$ sudo mkswap /swapfile  
mkswap: /swapfile : avertissement : effacement de l'ancienne signature swap.  
Configure l'espace d'échange (swap) en version 1, taille = 2 GiB (2147479552 octets)  
pas d'étiquette, UUID=bf273c02-f44a-48ef-9b04-b212d9003a4a
```

Enable the swap file.

```
$ sudo swapon /swapfile
```

Check!

```
$ free -h  
  
              total        used        free      shared  buff/cache   available  
Mem:           1,7Gi       1,0Gi       138Mi         65Mi         619Mi       541Mi  
Swap:          2,0Gi         0,0Ki        2,0Gi
```

Révision #4

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