

How to Add Swap Space on Ubuntu 18.04 and Above

Written by BiRU
Thursday, 17 November 2022 06:42 -

Check Swap Information

Command to check swap size.

```
swapon --show
```

Output:

```
NAME      TYPE      SIZE USED PRIO  /dev/vda2 partition 512M  0B  -2
```

Or you can check using free command.

```
free -m
```

Output:

	total	used	free	shared	buff/cache	available	Mem:	981	130
326	0	524	707	Swap:	511	0	511		

NOTE: If the output is empty, it means that swap space is not enabled yet on your system.

Add Swap to your VPS

Command to create a Swap file.

NOTE: We are adding 1GB if you want to add different size then you can replace it in place of 1G

```
fallocate -l 1G /swapfile
```

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or

```
dd if=/dev/zero of=/swapfile bs=1024 count=1048576
```

Set write permission.[Default permissions only enable for root user]

```
chmod 600 /swapfile
```

Set up a swap area on the file.

```
mkswap /swapfile
```

Output:

```
Setting up swappiness version 1, size = 1024 MiB (1073737728 bytes) no label,
UUID=3f6fee94-ed65-4187-8c67-05afcd0c8ef1
```

Activate the swap file.

```
swapon /swapfile
```

Open the following file and add the given content to change it to permanent.

```
nano /etc/fstab
```

Add the following line.

```
/swapfile swap swap defaults 0 0
```

Now check the swap size.

```
swapon --show
```

or

```
free -m
```

Output:

```
root@vps:~# swapon --show NAME      TYPE      SIZE USED PRIO /dev/vda2 partition
512M  1M  -2 /swapfile file    1024M  0B  -3 root@vps:~# free -m          total    used
free   shared buff/cache available Mem:      981     126     65      0     789
706 Swap:    1535      1    1534
```

NOTE: Now the added swap space can be seen.

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Remove Swap File

Deactivate the swap space.

```
swapoff -v /swapfile
```

Output:

```
root@vps:~# swapoff -v /swapfile  swapoff /swapfile
```

Next, remove the following line from the file **/etc/fstab**

```
/swapfile swap swap defaults 0 0
```

Command to remove the file.

```
rm /swapfile
```

This concludes our topic of configuring swap in ubuntu.