

ubuntu??swap????

Ubuntu 14.04 / free -mh 0B
sar -S 0 swap

????????????????

1. 2G / 1 2

```
sudo fallocate -l 2G /swapfile
```

```
dd
```

```
sudo dd if=/dev/zero of=/swapfile bs=1M count=2048
```

- 2.

```
sudo chmod 600 /swapfile
```

- 3.

```
sudo mkswap /swapfile
```

4. swap

```
sudo swapon /swapfile
```

- 5.

```
free -mh
```

```
2G Swap
```

```
sar -S 1 5
```

6. kbswpfree

```
/etc/fstab
```

```
/swapfile none swap sw 0 0
```

????????????

mkswap /dev/sdb2 swapon /dev/sdb2 /etc/fstab

????????????

Linux swap swappiness

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

60 swap

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

/etc/sysctl.conf

```
vm.swappiness=10
```

```
sudo sysctl -p
```

- 1.8G swap OOM
- swapfile 2G vm.swappiness=10

Ubuntu 14.04 + 2G swap

- 2 GiB swap free -mh
- sar -S swap

```
kbswpfree 2096880 2GB
kbswpused 268 268KB
```

```
%swpused      0.01%
```

```
→  swap ██████████
```

??????

- `1.8 GiB` ~727 MiB ~898 MiB
- `/` ~1 GiB ██████████
- Swap ██████████ 0 ██████████
- `kbswpcad` swap cache **13%** ██████████

????

1. `swappiness` `swap`

```
██████████ 60  
██████████ 1.8 G ██████████ swap
```

```
echo 10 | sudo tee /proc/sys/vm/swappiness
```

```
██████████ /etc/sysctl.conf ██████████
```

```
vm.swappiness=10
```

```
███
```

```
sudo sysctl -p
```

2. `cache`

```
██████████ zram swap ██████████ 5.4 ██████████  
zram ██████████ /dev/zram swap
```

3. `swap`

- `swap`

```
swapon -s
```

- `vmstat`

```
vmstat 1
```

```
██ si/so swap in/out ██████████ 0 ██████████ swap ██████████
```

