

docker	.....	3
	.....	3
CPU	.....	4
Block I/O	.....	6
	.....	6

docker

run, create

inspect

```
# docker inspect test_ubuntu

    "CpuShares": 0,
    "Memory": 0,
    "NanoCpus": 0,
    "CgroupParent": "",
    "BlkioWeight": 0,
    "BlkioWeightDevice": [],
    "BlkioDeviceReadBps": null,
    "BlkioDeviceWriteBps": null,
    "BlkioDeviceReadIOps": null,
    "BlkioDeviceWriteIOps": null,
    "CpuPeriod": 0,
    "CpuQuota": 0,
    "CpuRealtimePeriod": 0,
    "CpuRealtimeRuntime": 0,
    "CpusetCpus": "",
    "CpusetMems": "",
    "Devices": [],
    "DeviceCgroupRules": null,
    "DeviceRequests": null,
    "KernelMemory": 0,
    "KernelMemoryTCP": 0,
    "MemoryReservation": 0,
    "MemorySwap": 0,
    "MemorySwappiness": null,
    "OomKillDisable": false,
    "PidsLimit": null,
    "Ulimits": null,
    "CpuCount": 0,
    "CpuPercent": 0,
    .....
```

```
docker run          -memory
                    m(megabyte), g(gigabyte)
```

4MB

```
docker run -d \  
--memory="1g" \  
--name memory_1g \  
nginx
```

1g가 1g 가 .
1g가 .
가 . 가 swap . memory
2 -memory -swap .

CPU

- `--cpu-shares`

가 가 CPU
. cpu CPU

```
docker run -it --name cpu_share \  
--cpu-shares 1024 \  
ubuntu:14.04
```

--cpu-shares 1024 가 . 1024
1 .
cpu .

```
docker run -d --name cpu_1024 \  
--cpu-shares 1024 \  
alicek106/stress \  
stress --cpu 1
```

```
docker run -d --name cpu_512 \  
--cpu-shares 512 \  
alicek106/stress \  
stress --cpu 1
```

2:1 cpu .

- `--cpuset-cpu`

CPU가 --cpuset-cpus 가 CPU
. CPU CPU

```
docker run -d --name cpuset_2 \
--cpuset-cpus=2 \
alicek106/stress \
stress --cpu 1
```

```
cpu          3      cpu          .          0          .          htop
cpu
```

```
mac: brew install htop
ubuntu: apt-get install htop
centos yum -y install epel-release && yum -y install htop
```

htop

- -cpu-period, -cpu-quota

```
cpu-period          100ms      -cpu-period
-cpu-quota          100ms      cpu
```

```
docker run -d --name quota_1_4 \
--cpu-period=100000 \
--cpu-quota=25000 \
alicek106/stress \
stress --cpu 1
```

```
100000  25000      cpu      1/4          .          cpu-quota
/cpu-period      cpu
```

```
docker run -d --name quota_1_1 \
--cpu-period=100000 \
--cpu-quota=100000 \
alicek106/stress \
stress --cpu 1
```

```
period  quota      cpu
```

- -cpus

```
-cpus  -cpu-quota, -cpu-period      cpu
```

```
docker run -d --name cpus_container \
--cpus=0.5 \
```

```
alicek106\stress \  
stress --cpu 1
```

```
0.5 cpu-quota cpu-period 0.5 .  
50000(quota)/100000(period) .
```

Block I/O

가
-device-write-bps, -device-read-bps, -device-write-iops, -device-read-iops
Direct I/O Buffered I/O

- Direct I/O: IO
- Buffered I/O: I/O

-device-write-bps, -device-read-bps kb, mb, gb

```
docker run -it \  
--device-write-bps [ : ] \  
ubuntu:14.04
```

cpu-shares -device-write-iops, -device-read-iops

```
docker run -it \  
--device-write-iops :5 \  
ubuntu:14.04
```

```
docker run -it \  
--device-read-iops :10 \  
ubuntu:14.04  
// 2
```

- <https://hoony-gunputer.tistory.com/entry/docker-> - - -

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