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docker_

https://atl.kr/dokuwiki/doku.php/docker_%ED%95%A0%EB%8B%B9%EC%9E%90%EC%9B%90_%EC%A0%9C%EC%96%B4?rev=1607786943
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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

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

1g   .

  1g   .

                                    swap   .   memory
  2   —memory-swap   .

CPU

- —cpu-shares

                              CPU
    .cpu   CPU
                 .

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

—cpu-shares   .   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

      CPU   —cpuset—cpus   CPU
            .CPU   CPU

.

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

3   cpu   .   O   .   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 \
```

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docker_
한도설정자원제어
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```
alicek106\stress \
stress --cpu 1
```

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

Block I/O

.

—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-   -   -   -