

所有的截圖都是來自於架設在 Digital Ocean 的主機

- /proc/cpuinfo
 - CPU 的相關資訊

```
root@ubuntu-16:/home/henrybear327# cat /proc/cpuinfo
processor       : 0
vendor_id      : GenuineIntel
cpu_family     : 6
model          : 62
model_name     : Intel(R) Xeon(R) CPU E5-2630L v2 @ 2.40GHz
stepping       : 4
microcode      : 0x1
cpu MHz        : 2399.998
cache_size     : 15360 KB
physical_id    : 0
siblings       : 1
core_id        : 0
cpu cores      : 1
apicid         : 0
initial apicid : 0
fpu            : yes
fpu_exception  : yes
cpuid level    : 13
wp             : yes
flags           : fpu vme de pse tsc msr pae mce cx8 apic sep mtrr pge mca cmov pat pse36 clflush mmx fxsr sse sse2 ss syscall nx pdpe1gb rdtscp lm constant
rep_good nopl eagerfpu pni pclmulqdq vmx ssse3 cx16 pcid sse4_1 sse4_2 x2apic popcnt tsc_deadline_timer aes xsave avx f16c rdrand hypervisor
ahf_lm vmmi ept fsgsbase tsc_adjust smep erms xsaveopt arat
bugs           :
bogomips       : 4799.99
clflush size   : 64
cache_alignment : 64
address sizes   : 40 bits physical, 48 bits virtual
power management:
```

-
- /proc/meminfo
 - 列出實體記憶體與 Swap 資訊（使用 free 或是 top 時都會用到這個檔案）

[root@ubuntu-16:/home/henrybear327# more /proc/meminfo

MemTotal:	500228	kB
MemFree:	24436	kB
MemAvailable:	339576	kB
Buffers:	59328	kB
Cached:	249024	kB
SwapCached:	8532	kB
Active:	201628	kB
Inactive:	190436	kB
Active(anon):	45948	kB
Inactive(anon):	54072	kB
Active(file):	155680	kB
Inactive(file):	136364	kB
Unevictable:	3656	kB
Mlocked:	3656	kB
SwapTotal:	2097148	kB
SwapFree:	1894180	kB
Dirty:	304	kB
Writeback:	0	kB
AnonPages:	84440	kB
Mapped:	85276	kB
Shmem:	13888	kB
Slab:	53592	kB
SReclaimable:	36024	kB
SUnreclaim:	17568	kB
KernelStack:	3376	kB
PageTables:	10940	kB
NFS_Unstable:	0	kB
Bounce:	0	kB
WritebackTmp:	0	kB
CommitLimit:	2347260	kB
Committed_AS:	2037656	kB
VmallocTotal:	34359738367	kB
VmallocUsed:	0	kB
VmallocChunk:	0	kB
HardwareCorrupted:	0	kB
AnonHugePages:	0	kB
CmaTotal:	0	kB
CmaFree:	0	kB
HugePages_Total:	0	
HugePages_Free:	0	
HugePages_Rsvd:	0	
HugePages_Surp:	0	
Hugepagesize:	2048	kB
DirectMap4k:	47096	kB

- /proc/mounts
 - 目前掛載的檔案系統

```
root@ubuntu-16:/home/henrybear327# cat /proc/mounts
sysfs /sys sysfs rw,nosuid,nodev,noexec,relatime 0 0
proc /proc proc rw,nosuid,nodev,noexec,relatime 0 0
udev /dev devtmpfs rw,nosuid,relatime,size=242188k,nr_inodes=60547,mode=755 0 0
devpts /dev/pts devpts rw,nosuid,noexec,relatime,gid=5,mode=620,ptmxmode=000 0 0
tmpfs /run tmpfs rw,nosuid,noexec,relatime,size=50024k,mode=755 0 0
/dev/vda1 / ext4 rw,noatime,errors=remount-ro,data=ordered 0 0
securityfs /sys/kernel/security securityfs rw,nosuid,nodev,noexec,relatime 0 0
tmpfs /dev/shm tmpfs rw,nosuid,nodev 0 0
tmpfs /run/lock tmpfs rw,nosuid,nodev,noexec,relatime,size=5120k 0 0
tmpfs /sys/fs/cgroup tmpfs ro,nosuid,nodev,noexec,mode=755 0 0
cgroup /sys/fs/cgroup/systemd cgroup rw,nosuid,nodev,noexec,relatime,xattr,release_agent=/lib/systemd/systemd-cgroups-agent,name=systemd 0
pstore /sys/fs/pstore pstore rw,nosuid,nodev,noexec,relatime 0 0
cgroup /sys/fs/cgroup/pids cgroup rw,nosuid,nodev,noexec,relatime,pids 0 0
cgroup /sys/fs/cgroup/perf_event cgroup rw,nosuid,nodev,noexec,relatime,perf_event 0 0
cgroup /sys/fs/cgroup/net_cls,net_prio cgroup rw,nosuid,nodev,noexec,relatime,net_cls,net_prio 0 0
cgroup /sys/fs/cgroup/memory cgroup rw,nosuid,nodev,noexec,relatime,memory 0 0
cgroup /sys/fs/cgroup/freezer cgroup rw,nosuid,nodev,noexec,relatime,freezer 0 0
cgroup /sys/fs/cgroup/devices cgroup rw,nosuid,nodev,noexec,relatime,devices 0 0
cgroup /sys/fs/cgroup/cpu,cpuacct cgroup rw,nosuid,nodev,noexec,relatime,cpu,cpuacct 0 0
cgroup /sys/fs/cgroup/blkio cgroup rw,nosuid,nodev,noexec,relatime,blkio 0 0
cgroup /sys/fs/cgroup/hugetlb cgroup rw,nosuid,nodev,noexec,relatime,hugetlb 0 0
cgroup /sys/fs/cgroup/cpuset cgroup rw,nosuid,nodev,noexec,relatime,cpuset 0 0
systemd-1 /proc/sys/fs/binfmt_misc autofs rw,relatime,fd=21,pgrp=1,timeout=0,minproto=5,maxproto=5,direct 0 0
mqueue /dev/mqueue mqueue rw,relatime 0 0
hugetlbfs /dev/hugepages hugetlbfs rw,relatime 0 0
debugfs /sys/kernel/debug debugfs rw,relatime 0 0
fusectl /sys/fs/fuse/connections fusectl rw,relatime 0 0
lxcfs /var/lib/lxcfs fuse.lxcfs rw,nosuid,nodev,relatime,user_id=0,group_id=0,allow_other 0 0
tmpfs /run/user/1000 tmpfs rw,nosuid,nodev,relatime,size=50024k,mode=700,uid=1000,gid=1000 0 0
```

- /proc/devices
 - 所有的 device 列表，有分成 block and character

```
root@ubuntu-16:/home/henrybear327# cat /proc/devices
```

Character devices:

```
1 mem
4 /dev/vc/0
4 tty
4 ttyS
5 /dev/tty
5 /dev/console
5 /dev/ptmx
5 ttyprintk
7 vcs
10 misc
13 input
21 sg
29 fb
89 i2c
99 ppdev
108 ppp
128 ptm
136 pts
180 usb
189 usb_device
249 bsg
250 watchdog
251 rtc
252 dimmctl
253 ndctl
254 tpm
```

○

```
Block devices:
  1 ramdisk
  2 fd
259 blkext
  7 loop
  8 sd
  9 md
11 sr
65 sd
66 sd
67 sd
68 sd
69 sd
70 sd
71 sd
128 sd
129 sd
130 sd
131 sd
132 sd
133 sd
134 sd
135 sd
252 device-mapper
253 virtblk
254 mdp
```

-
- /proc/filesystems
 - Linux Kernel 支援與目前掛載的檔案系統

```
[root@ubuntu-16:/home/henrybear327# cat /proc/filesystem
nodev    sysfs
nodev    rootfs
nodev    ramfs
nodev    bdev
nodev    proc
nodev    cpuset
nodev    cgroup
nodev    tmpfs
nodev    devtmpfs
nodev    debugfs
nodev    tracefs
nodev    securityfs
nodev    sockfs
nodev    bpf
nodev    pipefs
nodev    devpts
nodev    ext3
nodev    ext2
nodev    ext4
nodev    squashfs
nodev    hugetlbfs
nodev    vfat
nodev    ecryptfs
nodev    fuseblk
nodev    fuse
nodev    fusectl
nodev    pstore
nodev    mqueue
nodev    btrfs
nodev    autofs
```

-
- /proc/modules
 - 系統目前載入的模組，與 lsmod 結果相同

```

root@ubuntu-16:/home/henrybear327# cat /proc/modules
ppdev 20480 0 - Live 0xffffffffc045b000
kvm_intel 172032 0 - Live 0xffffffffc0482000
kvm 540672 1 kvm_intel, Live 0xffffffffc03d6000
irqbypass 16384 1 kvm, Live 0xffffffffc03d1000
joydev 20480 0 - Live 0xffffffffc03cb000
serio_raw 16384 0 - Live 0xffffffffc03b2000
parport_pc 32768 0 - Live 0xffffffffc03bd000
pvpanic 16384 0 - Live 0xffffffffc03b8000
parport 49152 2 ppdev,parport_pc, Live 0xffffffffc03a5000
ip6t_REJECT 16384 1 - Live 0xffffffffc03a0000
nf_reject_ipv6 16384 1 ip6t_REJECT, Live 0xffffffffc039b000
nf_log_ipv6 16384 5 - Live 0xffffffffc0396000
xt_hl 16384 22 - Live 0xffffffffc0391000
ip6t_rt 16384 3 - Live 0xffffffffc038c000
nf_conntrack_ipv6 20480 8 - Live 0xffffffffc0382000
nf_defrag_ipv6 36864 1 nf_conntrack_ipv6, Live 0xffffffffc0374000
ipt_REJECT 16384 1 - Live 0xffffffffc036f000
nf_reject_ipv4 16384 1 ipt_REJECT, Live 0xffffffffc036a000
nf_log_ipv4 16384 5 - Live 0xffffffffc0365000
nf_log_common 16384 2 nf_log_ipv6,nf_log_ipv4, Live 0xffffffffc0360000
xt_LOG 16384 10 - Live 0xffffffffc035b000
xt_limit 16384 13 - Live 0xffffffffc0356000
xt_tcpudp 16384 34 - Live 0xffffffffc0351000
xt_addrtype 16384 4 - Live 0xffffffffc034c000
nf_conntrack_ipv4 16384 8 - Live 0xffffffffc0343000
nf_defrag_ipv4 16384 1 nf_conntrack_ipv4, Live 0xffffffffc0335000
xt_conntrack 16384 16 - Live 0xffffffffc0322000
ip6table_filter 16384 1 - Live 0xffffffffc0310000
ip6_tables 28672 1 ip6table_filter, Live 0xffffffffc030b000
nf_conntrack_netbios_ns 16384 0 - Live 0xffffffffc0303000
ib_iser 49152 0 - Live 0xffffffffc0328000
nf_conntrack_broadcast 16384 1 nf_conntrack_netbios_ns, Live 0xffffffffc02f2000
rdma_cm 49152 1 ib_iser, Live 0xffffffffc0315000
nf_nat_ftp 16384 0 - Live 0xffffffffc02bc000
nf_nat 24576 1 nf_nat_ftp, Live 0xffffffffc0309000
iw_cm 45056 1 rdma_cm, Live 0xffffffffc02f7000
ib_cm 45056 1 rdma_cm, Live 0xffffffffc02e6000
nf_conntrack_ftp 20480 1 nf_nat_ftp, Live 0xffffffffc02dc000
ib_sa 36864 2 rdma_cm,ib_cm, Live 0xffffffffc029c000
nf_conntrack 106496 8 nf_conntrack_ipv6,nf_conntrack_ipv4,xt_conntrack,nf_conntrack_netbios_ns,nf_conntrack_broadcast,nf_nat_ftp,nf_nat,nf_conntrack_ftp, Live 0xffffffffc02c1000
ib_mad 49152 2 ib_cm,ib_sa, Live 0xffffffffc02af000
iptable_filter 16384 1 - Live 0xffffffffc025b000
ip_tables 24576 1 iptable_filter, Live 0xffffffffc02a8000

```

- /proc/version

- linux kernel 的版本

```

root@ubuntu-16:/home/henrybear327# cat /proc/version
Linux version 4.4.0-45-generic (build@lgw01-34) (gcc version 5.4.0 20160609 (Ubuntu 5.4.0-6ubuntu1~16.04.2) ) #66-Ubuntu SMP Wed Oct 19 14:12:37 UTC 2016

```

- /proc/cmdline

- linux kernel 的開機參數

```

root@ubuntu-16:/home/henrybear327# cat /proc/cmdline
BOOT_IMAGE=/boot/vmlinuz-4.4.0-45-generic root=UUID=1349ae81-def5-4589-9b71-9ee5fbc4db66 ro console=tty1 root=LABEL=DOROOT notsc clocksource=kvm-clock net.
ames=0

```

- /proc/timer_stats

- 系統正在使用的計時器

```

c100-c101 : ata_piix
[ root@ubuntu-16:/home/henrybear327# cat /proc/timer_stats
Timer Stats Version: v0.3
Sample period: 0.000 s
Collection: inactive
0 total events

```

- /proc/ioprocs

- 列出正在使用的 I/O port

```
[root@ubuntu-16:/home/henrybear327# cat /proc/ioproports
0000-0cf7 : PCI Bus 0000:00
    0000-001f : dma1
    0020-0021 : pic1
    0040-0043 : timer0
    0050-0053 : timer1
    0060-0060 : keyboard
    0064-0064 : keyboard
    0070-0071 : rtc0
    0080-008f : dma page reg
    00a0-00a1 : pic2
    00c0-00df : dma2
    00f0-00ff : fpu
    0170-0177 : 0000:00:01.1
        0170-0177 : ata_piix
    01f0-01f7 : 0000:00:01.1
        01f0-01f7 : ata_piix
    0376-0376 : 0000:00:01.1
        0376-0376 : ata_piix
    03f2-03f2 : floppy
    03f4-03f5 : floppy
    03f6-03f6 : 0000:00:01.1
        03f6-03f6 : ata_piix
    03f7-03f7 : floppy
    03f8-03ff : serial
0cf8-0cff : PCI conf1
0d00-ffff : PCI Bus 0000:00
    afe0-afe3 : ACPI GPE0_BLK
    b000-b03f : 0000:00:01.3
        b000-b003 : ACPI PM1a_EVT_BLK
        b004-b005 : ACPI PM1a_CNT_BLK
        b008-b00b : ACPI PM_TMR
        b010-b015 : ACPI CPU throttle
    b100-b10f : 0000:00:01.3
    c000-c03f : 0000:00:05.0
        c000-c03f : virtio-pci-legacy
    c040-c07f : 0000:00:06.0
        c040-c07f : virtio-pci-legacy
    c080-c09f : 0000:00:01.2
        c080-c09f : uhci_hcd
    c0a0-c0bf : 0000:00:03.0
        c0a0-c0bf : virtio-pci-legacy
    c0c0-c0df : 0000:00:04.0
        c0c0-c0df : virtio-pci-legacy
    c0e0-c0ff : 0000:00:07.0
```