

pfSense 防火牆暑期班 2015 鄭明彰老師

新增第二顆硬碟

BIOS 硬碟選擇 AHCI

```
# dd if=/dev/zero of=/dev/ada1 count=2 bs=1k (一般第二顆硬碟為/dev/ada1)
```

```
# fdisk -BI ada1
```

```
# bsdlablel -w ada1s1
```

```
# newfs -U /dev/ada1s1
```

```
# mkdir /cache
```

```
# mount -t ufs /dev/ada1s1 /cache
```

```
# vi /etc/fstab
```

新增以下

```
/dev/ada1s1          /cache          ufs          rw          1          1
```

SSD 開啟 Trim

```
# /usr/local/sbin/ufslabels.sh (Press y)(2.2 版可省略)
```

```
# /sbin/reboot
```

Single user mode 單人模式 (Press 2)

Enter full pathname of shell or RETURN for /bin/sh: 按 Enter 鍵

```
# /sbin/tunefs -t enable / (開啟 Trim)
```

```
# /sbin/tunefs -t enable /cache若有第二顆硬碟
```

```
# /sbin/reboot
```

確認是否 enable Trim

```
# /sbin/tunefs -p /
```

```
# /sbin/tunefs -p /cache
```

硬碟相關查詢

```
# camcontrol identify /dev/ada0
```

```
# smartctl -a /dev/ada0
```

```
# diskinfo -c -t /dev/ada0
```

查詢主機資源

```
# top -SH
```

```
# top -aSH (完整 command)
```

```
# top -SH -mio (硬碟使用率)
```

```
# ps -auxw
```

Squid 快取資訊查詢

```
# squidclient -p 3128 -h 127.0.0.1 mgr:info
```

封包擷取與偵測

```
# tcpdump -ni em0
# tcpdump -ni em0 host 192.168.1.100
# tcpdump -ni em0 src host 192.168.1.100
# tcpdump -ni em0 dst host 168.95.1.1
# tcpdump -ni em0 src host 192.168.1.100 and dst host 168.95.1.1
# tcpdump -ni em0 tcp port 80
# tcpdump -ni em0 host 192.168.1.100 and tcp port 80
# tcpdump -ni vlan0
```

pf 相關

```
# pfctl -d (關閉 pf)
# pfctl -e (啟動 pf)
# pfctl -sr
# pfctl -sn
# pfctl -vsr
# pfctl -t webConfiguratorlockout -Tshow
# pfctl -T flush -t webConfiguratorlockout
# pfctl -f /tmp/rules.debug
# pfctl -Fr -f /tmp/rules.debug
# pfctl -Fa -f /tmp/rules.debug (清除所有連線，重新載入規則)
# pfctl -k 192.168.1.100 (清除連線)
# pfctl -k 192.168.2.0/24
```

異地備份，兩步驟都需要

```
# wget -qO/dev/null --keep-session-cookies --save-cookies cookies.txt \
--post-data 'login=Login&usernamefld=admin&passwordfld=pfsense' \
--no-check-certificate https://192.168.1.1/diag_backup.php

# wget --keep-session-cookies --load-cookies cookies.txt \
--post-data 'Submit=download&donotbackuprrd=yes'
https://192.168.1.1/diag_backup.php \
--no-check-certificate -O config-router-`date +%Y%m%d%H%M%S`.xml
```

查詢 log

```
clog /var/log/filter.log | tail
```

```
clog -f /var/log/filter.log
```

easyrule

```
# easyrule block wan x.x.x.x
```

```
# easyrule pass wan tcp x.x.x.x y.y.y.y 443
```

南投版設定檔 IP 相關資訊

em0 (網卡代號需依照硬體狀況修改)

```
IPv4 : 10.87.0.33/30
```

```
IPv4 : _____
```

```
IPv6 : 2001:288:C2FF::CC:FFFF/112
```

```
IPv6 : _____
```

```
IPv4 GW : 10.87.0.34/30
```

```
IPv4 GW : _____
```

```
IPv6 GW : 2001:288:C2FF:CC:1/112
```

```
IPv6 GW : _____
```

em1

```
IPv4 : 163.22.172.254/25
```

```
IPv4 : _____
```

```
IPv6 : 2001:288:C2CC::FFFF/64
```

```
IPv6 : _____
```

em2

```
IPv4 : 192.168.1.254/23
```

```
IPv6 : 2001:288:C2CC:1::FFFF/64
```

em3

```
IPv4 : 192.168.10.254/23
```

```
IPv6 : 2001:288:C2CC:10::FFFF/64
```