

伺服器連線操作工具

開車前要先拿到鑰匙

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目的

為何需要伺服器連線工具

- 伺服器設定
- 伺服器操作
- 指令組織化
- 檔案傳輸
- 伺服器之間的溝通
- 安全防護

01

通訊協議

TELNET

- TELNET 在1969年產生，是最早形成的網際網路協定之一
- 一種應用層協定，使用於網際網路及區域網中，屬於TCP/IP協定族的其中之一
- 使用虛擬終端機的形式，提供雙向、以文字字串為主的命令列介面互動功能
- 常用於伺服器的遠端控制，可供使用者在本地主機執行遠端主機上的工作
- 過去是網際網路遠端登錄服務的標準協定和主要方式

<https://zh.wikipedia.org/wiki/Telnet>

01

通訊協議

SSH (Secure Shell)

- 是一種加密的網路傳輸協定，可在不安全的網路中為網路服務提供安全的傳輸環境
- SSH通過在網路中建立安全隧道來實現SSH客戶端與伺服器之間的連接
- SSH最常見的用途是遠端登錄系統
- 利用SSH來傳輸命令行介面和遠端執行命令
- SSH使用頻率最高的場合は類Unix系統
- Windows作業系統也能有限度地使用SSH

https://zh.wikipedia.org/wiki/Secure_Shell



68.250.237

Time	Source	Destination	Protocol	Length	Info
521329	192.168.250.72	192.168.250.237	TELNET	56	Telnet Data ...
523453	192.168.250.237	192.168.250.72	TELNET	96	Telnet Data ...
564403	192.168.250.72	192.168.250.237	TCP	54	64901 → 23 [ACK] Seq=3 Ack=43 Win=2051 Len=0

es sent since last PSH flag: 42]

tamps]

ie since first frame in this TCP stream: 0.002124000 seconds]

ie since previous frame in this TCP stream: 0.002124000 seconds]

yload (42 bytes)

\r\n

hello\r\n

```

. fb 65 10 e2 00 50 56 a3 64 59 08 00 45 10 .Q.e...P V.dY..E.
! 0b c3 40 00 40 06 b8 4b c0 a8 fa ed c0 a8 .R..@.@. .K.....
! 00 17 fd 85 91 33 9a ac c0 a4 7b 45 50 18 .H.....3 ....{EP.
! f9 d9 00 00 0d 0a 68 65 6c 6c 6f 0d 0a 5b ..... hello..[
! 6c 6e 65 74 5f 75 73 65 72 40 69 6e 73 74 telnet_u ser@inst
! 6c 2d 70 6b 67 2d 6c 61 62 20 7e 5d 24 20 all-pkg- lab ~]$

```

Telnet 192.168.250.237

```

Kernel 3.10.0-1127.el7.x86_64 on an x86_64
install-pkg-lab login: telnet_user
Password:
Last login: Fri Feb 5 17:37:57 from ::ffff:192.
[telnet_user@install-pkg-lab ~]$ hello world
-bash: hello: command not found
[telnet_user@install-pkg-lab ~]$ echo hello
hello
[telnet_user@install-pkg-lab ~]$

```



ip.addr==192.168.250.237

No.	Time	Source	Destination	Protocol	Length	Info
281	4.962566	192.168.250.72	192.168.250.237	SSH	90	Client: Encrypted packet (len=36)
282	4.964319	192.168.250.237	192.168.250.72	SSH	154	Server: Encrypted packet (len=100)
284	5.004910	192.168.250.72	192.168.250.237	TCP	54	64049 → 22 [ACK] Seq=37 Ack=101 Win=256 Len=0

選取 root@install-pkg-lab:~

```
C:\Users\shaun>ssh root@192.168.250.237
root@192.168.250.237's password:
Last login: Mon Feb  8 11:52:51 2021 from 192.168.250.72
[root@install-pkg-lab ~]# echo hello
hello
[root@install-pkg-lab ~]#
```



- > Frame 281: 90 bytes on wire (720 bits), 90 bytes captured (720 bits) on interface 0
- > Ethernet II, Src: HewlettP_65:10:e2 (88:51:fb:65:10:e2), Dst: Vmware_a3:64:59 (00:50:56:a3:64:59)
- > Internet Protocol Version 4, Src: 192.168.250.72, Dst: 192.168.250.237
- > Transmission Control Protocol, Src Port: 64049, Dst Port: 22, Seq: 1, Ack: 1, Len: 36
- > SSH Protocol

0000	00 50 56 a3 64 59 88 51 fb 65 10 e2 08 00 45 00	·PV·dY·Q ·e···E·
0010	00 4c 77 01 40 00 40 06 4d 23 c0 a8 fa 48 c0 a8	·Lw·@·@· M#···H·
0020	fa ed fa 31 00 16 6d 7c ec 6b 3b 50 98 bb 50 18	···1··m ·k;P··P·
0030	00 fb 77 91 00 00 fb 5f ee b3 be 0c f1 85 85 6e	··w····· ······n
0040	62 7c 0c 13 78 8d c8 43 df 19 a8 b4 42 ab 3b e8	b ·x·C ····B·;
0050	f8 e0 ab 34 3d 83 bf 92 22 55	···4=··· "U



ip.addr==192.168.250.237

No.	Time	Source	Destination	Protocol	Length	Info
281	4.962566	192.168.250.72	192.168.250.237	SSH	90	Client: Encrypted packet (len=36)
282	4.964319	192.168.250.237	192.168.250.72	SSH	154	Server: Encrypted packet (len=100)
284	5.004910	192.168.250.72	192.168.250.237	TCP	54	64049 → 22 [ACK] Seq=37 Ack=101 Win=256 Len=0

選擇 root@install-pkg-lab:~

```
C:\Users\shaun>ssh root@192.168.250.237
root@192.168.250.237's password:
Last login: Mon Feb  8 11:52:51 2021 from 192.168.250.72
[root@install-pkg-lab ~]# echo hello
hello
[root@install-pkg-lab ~]#
```

中

- > Frame 282: 154 bytes on wire (1232 bits), 154 bytes captured (1232 bits) on interface 0
- > Ethernet II, Src: Vmware_a3:64:59 (00:50:56:a3:64:59), Dst: HewlettP_65:10:e2 (88:51:fb:65:10:e2)
- > Internet Protocol Version 4, Src: 192.168.250.237, Dst: 192.168.250.72
- > Transmission Control Protocol, Src Port: 22, Dst Port: 64049, Seq: 1, Ack: 37, Len: 100
- > SSH Protocol

0000	88 51 fb 65 10 e2 00 50 56 a3 64 59 08 00 45 10	·Q·e···P V·dY··E·
0010	00 8c 36 a0 40 00 40 06 8d 34 c0 a8 fa ed c0 a8	··6·@·@· ·4·.....
0020	fa 48 00 16 fa 31 3b 50 98 bb 6d 7c ec 8f 50 18	·H···1;P ··m ··P·
0030	00 25 56 1a 00 00 b0 65 e2 80 86 d3 80 72 1a 03	·%V····e ·····r··
0040	d9 de 58 a8 c5 58 27 9d c9 49 61 d9 aa 86 58 5b	··X·X'· ·Ia··X[
0050	a1 37 1c f7 6d 47 28 99 5d b7 fa 67 57 e3 67 c0	·7··mG(·]··gW·g·
0060	7d 69 5e 71 d2 c9 0b c0 9a 37 c8 ee ef 38 25 5d	}i^q·····7···8%]
0070	51 7a db 49 c7 ae 1d 75 ca 92 ba e1 c9 31 bb 22	Qz·I···u ····1·"
0080	b8 a0 d4 11 7a 97 3c cd c8 7d 1d 02 49 2a 17 6f	····z·<· ·}··I*·o
0090	94 2c 5f 63 c9 cf e7 1c d0 3d	·,·_C·····=·

- Windows 命令列模式 (windows 10 後直接支援)
 - 硬漢專用
- Putty
 - 硬漢專用
 - 可以儲存一些基本連線設定
- MobaXterm、**SecureCRT**
 - 可憐人專用
 - 多組連線工具儲存
 - 提供可視化檔案傳輸功能



PROD-01



PROD-XS



PROD-HT



PROD-POR...



E2-Service



E1-Service



QAT



QAT-02



QAT-XS



PROD-02



PROD-CGP



PROD-EX



PROD-FIN



E2-JUMP



E1-JUMP



QAT-HR01



QAT-HR02



QAT-HR03



PROD-03



PROD-OTG



PROD-BC



PROD-HR(CY
& XS)



E1-DMZ



E1-BIG-BO...



UAT-CY01



UAT-CY02



UAT-XS



PROD-04



PROD-MOME



PROD-TOP...



E1-HRS-T...



TRIAL-FIN



TRIAL-W...



UAT-WIN



PROD-DEEP



E1-HT-GCP



VEEAM



TRIAL-HR01



TRIAL-HR02



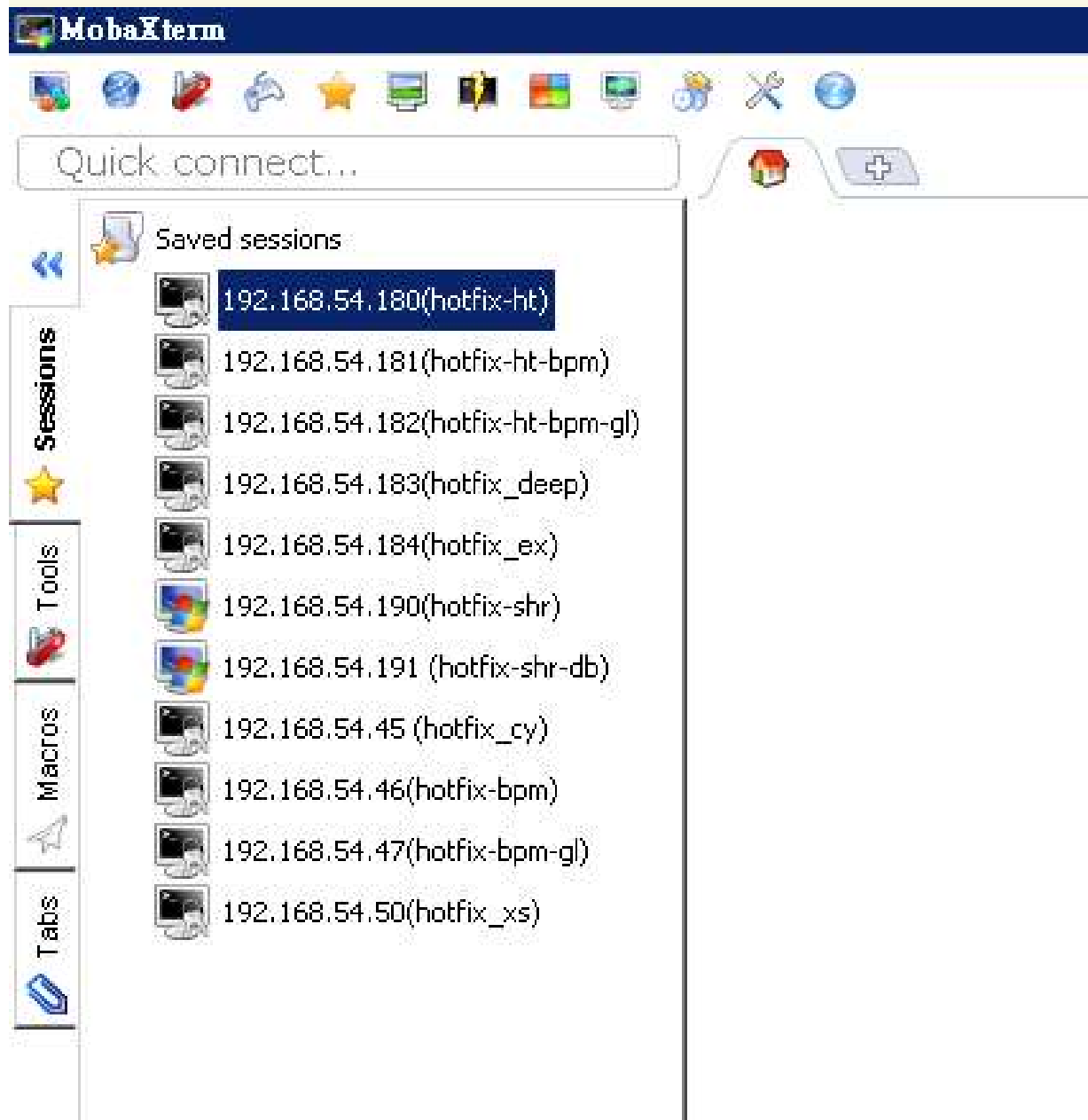
TRIAL-HR...



HOTFIX



HOTFIX-HR



Thank You

E6.A0.B9.E6.96.87.E4.BB.B6.E7.B3.BB.E7.BB.9F