

Umbrella虛擬裝置命令

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簡介

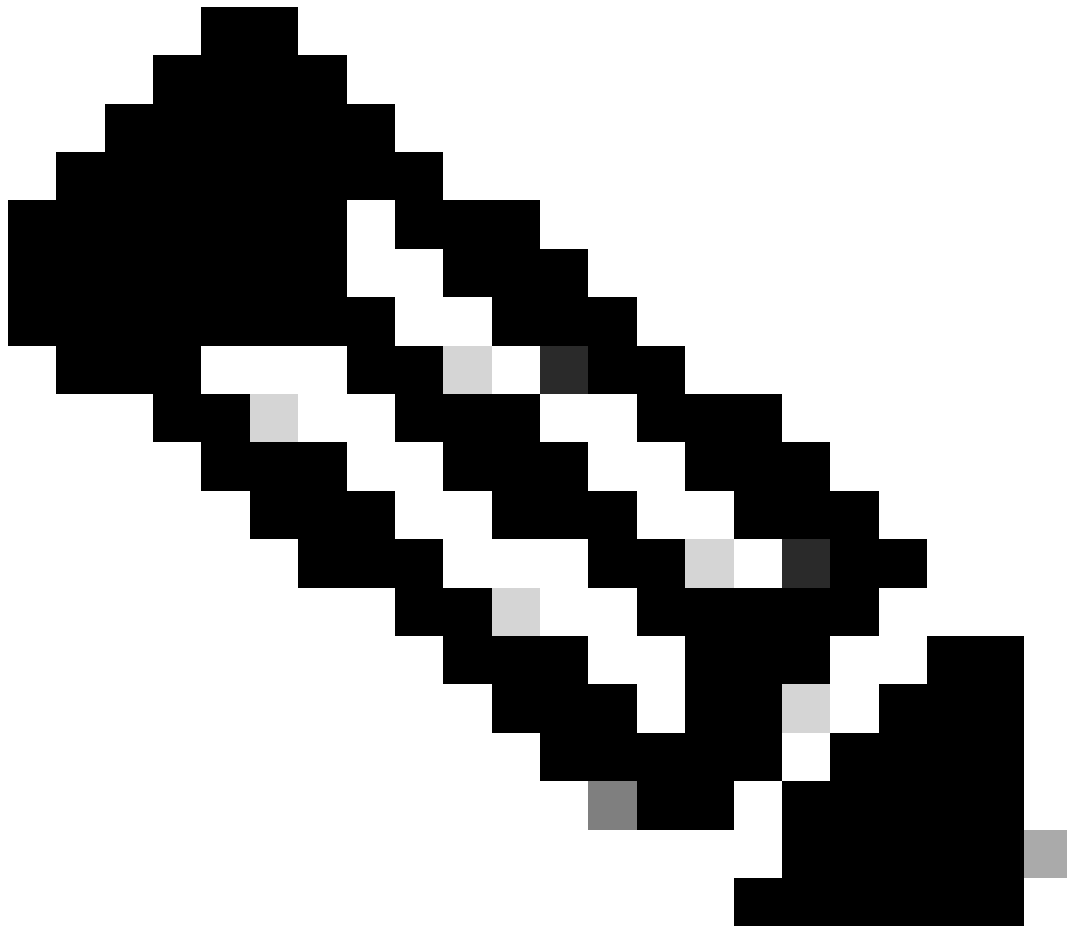
本檔案將說明Umbrella虛擬裝置(VA)的命令。

概觀

Umbrella VA運行在Ubuntu作業系統上，它是基於Debian的Linux發行版。在VA的「配置模式」命令列中，並非所有Linux中通常可用的命令都可供客戶使用。相反，VA使用受限制的shell環境，該環境提供許多故障排除/診斷命令以及config命令來更改VA中的相關設定。

有關使用配置模式配置VA的詳細資訊，請參閱<https://docs.umbrella.com/deployment-umbrella/docs/5-configuring-the-vas>

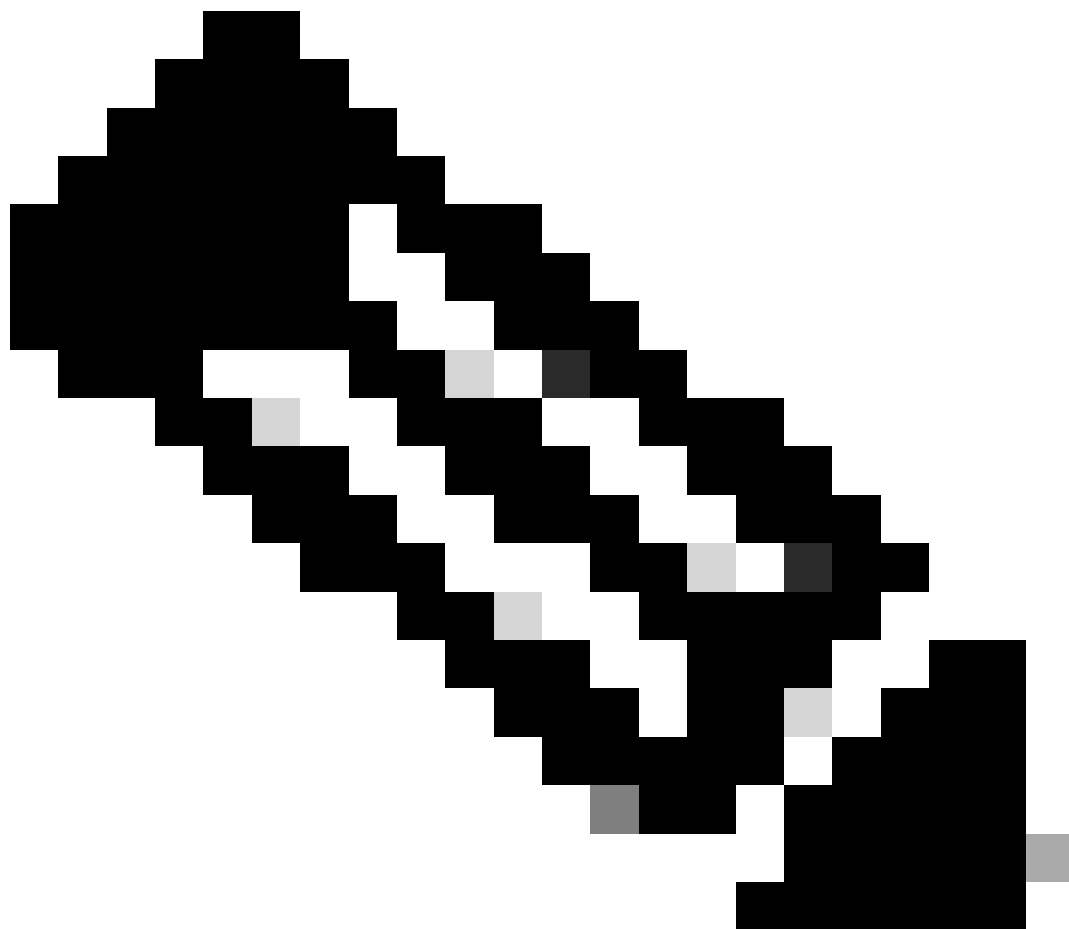
本文中的命令自VA軟體版本3.4起全部可用。



附註：命令說明涵蓋VA上支援的語法。提供了許多命令的連結，這些連結指向第三方資源以瞭解有關命令本身的附加資訊。請注意，並非所有Linux命令選項在VA上均受支援。

clear

clear指令會清除終端畫面。它相當於Windows命令提示符中的「cls」。



附註：這不是用於清除AD對映的命令。

設定

config用於配置虛擬裝置。config共有九個子命令：

- 通道
- snmp
- 任播
- va
- ntp
- admap
- logexport
- 本地DNS
- 負載均衡器

```
You have entered the Configuration Mode on this VA. Use the 'config' command for any configuration changes.
Type 'help' to get a list of supported commands.
test-VA-1 ~ $ config help
Usage : config <commands> help
      tunnel      for tunnel commands
      snmp        for snmp commands
      anycast     for anycast commands
      va          for Virtual Appliance Configuration.
      ntp         for ntp configuration command
      admap       for admap commands
      logexport   for logexport configuration commands.
      localdns    for localdns configuration commands.
      loadbalancer for configuring LoadBalancer that injects ECS.
```

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1) tunnel子命令用於啟用和配置支援隧道，與通過VA控制檯中的Ctrl+B執行類似。

```
Home-VA-01 ~ $ config tunnel ?
Usage : config tunnel <options> <args>

      options has to be one of the following -

      enable <int>      Enable the config tunnel connection.
      reenable <int>    ReEnable the config tunnel, if it was disabled.
      disable           Disable the config tunnel connection.
      status            Show status.
      -h, --help        Display this usage information.
      <int> is tunnel duration in hours, default would be 72 hours.
```

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命令示例：

```
config tunnel enable <optional time open, default is 72hrs, range is 7 to 240 hours>
config tunnel reenable <optional time open, default is 72hrs>
config tunnel disable
config tunnel status
```

有關配置支援隧道的詳細資訊，請參閱<https://docs.umbrella.com/deployment-umbrella/docs/appendix-d-troubleshooting-the-va-using-a-restricted-shell#tunnel>

2) snmp子命令用於啟用和配置SNMP支援。

```
Home-VA-01 ~ $ config snmp ?
Usage : config snmp <options> <args>

options has to be one of the following -

configure      -v2 [ -c <community string> ]
                  Enables SNMP v2
                  * c - Community string; Default public
                  -v3 -u <username> -p <password> [-a [MD5|SHA] -x [AES|DES] -X [password]]
                  Enables SNMP v3 with username and password
                  * u - Username consist of alphanumeric characters up to 32 characters.
                  * p - Password consist of alphanumeric characters 8 to 12 characters.
                  * a - Optional password hash algorithm; Default SHA
                  * x - Optional encryption algorithm; Default AES
                  * X - Privacy password to be used along with AES algorithm.

enable          Enable the SNMP.
disable         Disable the SNMP.
status          Show SNMP service status and Version information.
-h, --help      Display this usage information.
```

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命令示例：

```
config snmp enable
config snmp configure -v2 -c <community string>
config snmp status
```

有關配置SNMP的詳細資訊，請參閱<https://docs.umbrella.com/deployment-umbrella/docs/appendix-c-enable-snmp-monitoring>

3)anycast子命令用於配置AnyCast BGP。

```
Home-VA-01 ~ $ config anycast ?
Usage : config anycast bgp <options> <args>

'bgp' options has to be one of the following:

enable <anycast_ip> <bgp_info> : Enable the anycast mode.
disable                          : Disable anycast mode.
status                          : Show status of anycast.
summary                         : Show BGP Summary
stats                           : Show BGP Neighbour statistics
add <bgp_info>                  : Add additional peer routers
delete <router-ip>              : Delete additional peer routers
test                            : Test anycast connectivity
help                            : Display this usage information.

args :
anycast_ip : Anycast IP address
bgp_info   : ASN:ROUTER-IP:HOP-COUNT of the BGP router to publish
router-ip  : IP Address of the BGP Router

Range :
HOP-Count : 2 - 255 Default: 255
```

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命令示例：

```
config anycast enable <anycast ip> <ASN:ROUTER-IP:HOP-COUNT of BGP router>
config anycast status
config anycast disable
config anycast stats
config anycast add <ASN:ROUTER-IP:HOP-COUNT of BGP router>
config anycast delete <BGP router IP address>
```

有關配置AnyCast的詳細資訊，請參閱<https://docs.umbrella.com/deployment-umbrella/docs/appendix-e-other-configurations#anycast>

4)va子命令用於VA上的所有例行配置。

```
Home-VA-01 ~ $ config va ?

Usage : config va <commands> <args>

commands has to be one of the following -
```

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```

    interface <interface name> <ipaddress> <netmask> <gateway> : Configure the Interface.
    interface6 <interface name> <ipv6-address>/<prefix> <gw> : Configure the IPv6 address to
Interface
    name <string> : Name of this Virtual Appliance
    show : Show running configuration.
    status : Display the status of this VA.
    ssh [ enable | disable ] : Enable or Disable ssh access to
to VA
    dmz [ enable | disable ] : Enable or Disable DMZ mode to
VA
    ssl [ enable | disable | ( [ key | cert ] "hash" ) ] : Enable or Disable or Add Key a
and cert for HTTPS
    per-ip-rate-limit [ enable <pps> <burst> | disable ] : Configure the Per-IP based Rat
e Limiting to VA
    resolvers [US | US-v6 | global | global-v6 | alternate] : Configure the root resolvers
    dnssec [ enable | disable ] : Enable or Disable DNSSEC for i
nternal domains
    help : Display this usage information
.

    args -
    ipaddress : Ip Address for the interface
    netmask : Netmask for the interface
    gateway : Interface gateway ip address
    ipv6-address : IPv6 Address for the interface
    prefix : Prefix Length for IPv6 address
    gw : IPv6 Gateway
    hash : ssl/tls hash
    interface name : Name of the interface should be given when dual nic is enabled Ex: eth0,
ens32
    pps : Number of packets to be accepted per second for per IP. Range [ 10 - 10000
]
    burst : Packet Burst rate. Range [ 10 - 100 ]

```

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命令示例：

```

config va status
config va name <New name for the VA>
config va interface <interface name> <ip address> <subnet mask> <gateway>
config va interface6 <interface name> <IPv6 address/prefix> <IPv6 gateway>
config va show
config va ssh enable
config va dmz enable
config va dnssec enable
config va per-ip-rate-limit enable <packets/sec> <burst rate>

```

有關配置速率限制的詳細資訊，請參閱<https://docs.umbrella.com/deployment-umbrella/docs/appendix-e-other-configurations#section-configure-rate-limiting>

有關配置DNSSEC支援的詳細資訊，請參閱<https://docs.umbrella.com/deployment-umbrella/docs/appendix-e-other-configurations#section-configure-dnssec-support>

也可以使用resolvers子命令將VA配置為使用特定解析程式，這些選項可用：

```
config va resolvers US (Uses 208.67.221.76 and 208.67.223.76)
```

config va resolvers US-v6 (Uses 2620:119:17::76 and 2620:119:76::76)

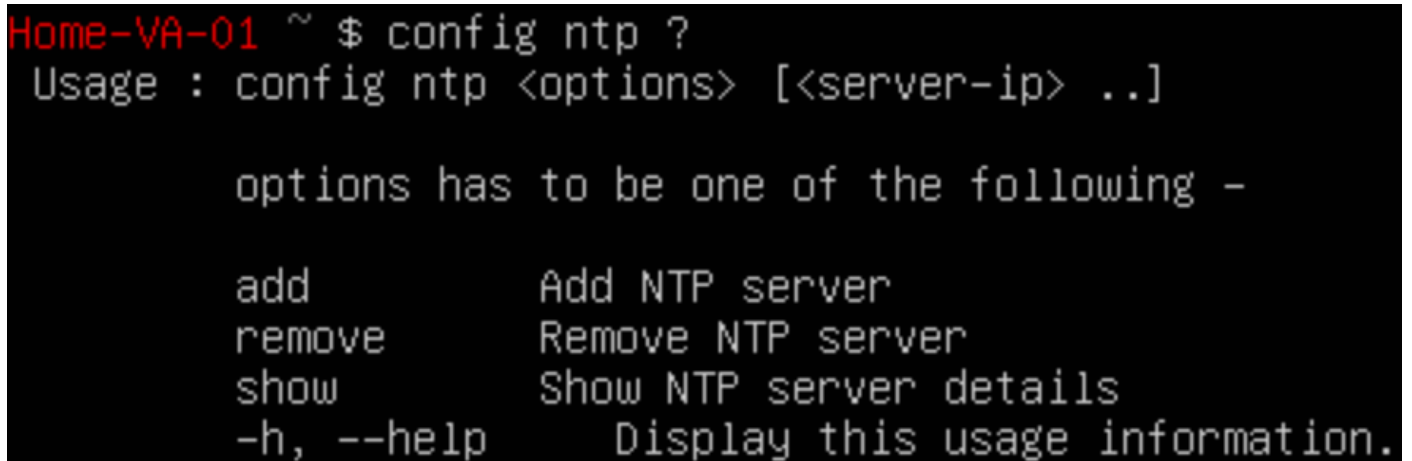
config va resolvers global (Uses 208.67.220.220 and 208.67.222.222)

config va resolvers global-v6 (Uses 2620:119:35::35 and 2620:119:53::53)

config va resolvers alternate (Uses 208.67.222.220 and 208.67.220.222)

有關詳細資訊，請參閱<https://docs.umbrella.com/deployment-umbrella/docs/appendix-e-other-configurations#section-configure-umbrella-resolvers>

5)ntp子命令可用於在VA上定義自定義NTP伺服器。



```
Home-VA-01 ~ $ config ntp ?
Usage : config ntp <options> [<server-ip> ..]

options has to be one of the following -

add          Add NTP server
remove       Remove NTP server
show         Show NTP server details
-h, --help   Display this usage information.
```

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命令示例：

```
config ntp add <New NTP server>
config ntp show
```

有關詳細資訊，請參閱<https://docs.umbrella.com/deployment-umbrella/docs/appendix-e-other-configurations#section-configure-ntp-servers>

6)admap子命令是用於配置身份關聯超時以及檢視或清除AD對映的命令。此時，只能清除單個IP地址的對映。當前沒有從受限制的外殼中清除所有AD對映的方法。

```
Home-VA-01 ~ $ config admap ?
```

```
Usage : config admap <commands> <args>
```

```
commands has to be one of the following -
```

```
view <ipaddress>           : view AD Mapping for IP address.  
clear <ipaddress>          : clear AD Mapping for IP address.  
set-host-timeout <time>    : set timeout for the host in seconds.  
set-user-timeout <time>    : set timeout for the user in seconds.  
show-timeout               : Display the host/user timeout.  
help                       : Display this usage information.
```

```
args -
```

```
ipaddress : Ip Address  
time      : time in seconds
```

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命令示例：

```
config admap view <ip address>  
config admap clear <ip address>  
config admap set-user-timeout 28800 (This would set it for 8hrs)  
config admap show-timeout
```

有關詳情，請參閱：

<https://docs.umbrella.com/deployment-umbrella/docs/appendix-e-other-configurations#identity>

有關其他資訊，請參閱以下知識庫文章：

[虛擬裝置：管理/刪除快取的AD使用者](#)

[虛擬裝置：調整使用者快取設定](#)

7)logexport子命令用於將稽核日誌、運行狀況日誌和/或內部DNS請求日誌匯出到遠端系統日誌伺服器。

```
test-VA-1 ~ $ config logexport help
Usage : config logexport <options> <args>

options has to be one of the following -

destination <rsyslog-ip:port> [tcp|udp|tls]    Add destination to send logs to remote server.
enable <service>                               Enable the service to send logs to destination.
disable <service>                             Disable the service.
[key|cert|ca] "hash"                          Add key, cert or CA hash for TLS
status                                         Show logexport status.
-h, --help                                    Display this usage information.

args:
service : internaldns | health | audit | all
```

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有關詳情，請參閱：

<https://docs.umbrella.com/deployment-umbrella/docs/appendix-e-other-configurations#syslog>

localdns子命令用於配置內部域到特定內部DNS伺服器的條件轉發。它是3.2版的新增版本。

```
test-VA-1 ~ $ config localdns help
Usage : config localdns <commands> <args>

commands has to be one of the following -

add <server-ip> <domains ... > : Add new localdns server and map the domains
remove <server-ip>              : Delete a localdns server
show                            : Show current localdns server-domain mapping

args -
server-ip      : IPv4/IPv6 address for the localdns
domains        : List of domains to be mapped to particular internal dns server.
                  Default value is all-internal-domains (domains configured in dashboard)
```

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有關詳細資訊，請運行「config localdns help」或檢視：

<https://docs.umbrella.com/deployment-umbrella/docs/6-local-dns-forwarding>

9)loadbalancer子命令用於配置注入ECS的負載平衡器。它是3.3版的新增版本。

```
test-VA-1 ~ $ config loadbalancer help
Usage : config loadbalancer <commands> <args>

commands has to be one of the following -

add <server-ip/prefix>          : Add new loadbalancer server
remove <server-ip/prefix>       : Delete a loadbalancer server
show                            : Show existing loadbalancers

args -
server-ip/prefix : IPv4/IPv6 address for the loadbalancer (or) subnet/prefix_length
                  Only loadbalancers that inject the source IP in the EDNS Client Subnet Field
                  of the DNS query are supported.
                  VA supports a maximum of 8 Load Balancer configurations.
```

有關詳細資訊，請運行「config loadbalancer help」或檢視：

<https://docs.umbrella.com/deployment-umbrella/docs/appendix-e-other-configurations#section-configure-load-balancing>

日期

date命令可用於在VA中列印當前的系統時間/日期。該時間以協調世界時(UTC)返回。無法重新配置日期、時間和時區。

```
test-VA-1 ~ $ date
Wed Dec  8 23:03:01 UTC 2021
test-VA-1 ~ $
```

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df

df命令可用於顯示VA的當前磁碟利用率。

有關詳細資訊，請參閱<http://manpages.ubuntu.com/manpages/focal/en/man1/df.1.html>

```
Home-VA-01 ~ $ df
Filesystem      1K-blocks    Used Available Use% Mounted on
udev            497232         4    497228   1% /dev
tmpfs           101564        876    100688   1% /run
/dev/sda1       2030736 1144928    764604  60% /
none              4           0         4   0% /sys/fs/cgroup
none             5120         0        5120   0% /run/lock
none            507808         0    507808   0% /run/shm
none            102400         0    102400   0% /run/user
/dev/sda4       2030768  316300   1593260  17% /data
```

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執行

execute命令在更新的內部版本3.4.6中可用

用法：execute <commands>

命令必須是以下其中一項：

force_upgrade :執行「disk_cleanup」>立即重新下載新的VA映像>強制VA升級。

disk_cleanup :刪除VA映像、升級錯誤檔案和Azure副檔名 (未刪除任何日誌)。

免費

free命令顯示系統中的可用記憶體和已用記憶體量。

有關詳細資訊，請參閱<http://manpages.ubuntu.com/manpages/focal/en/man1/free.1.html>

```
Home-VA-01 ~ $ free
              total        used        free      shared  buff/cache   available
Mem:          1015616      518656      195716          172       301244       335340
Swap:           522108       131052       391056
```

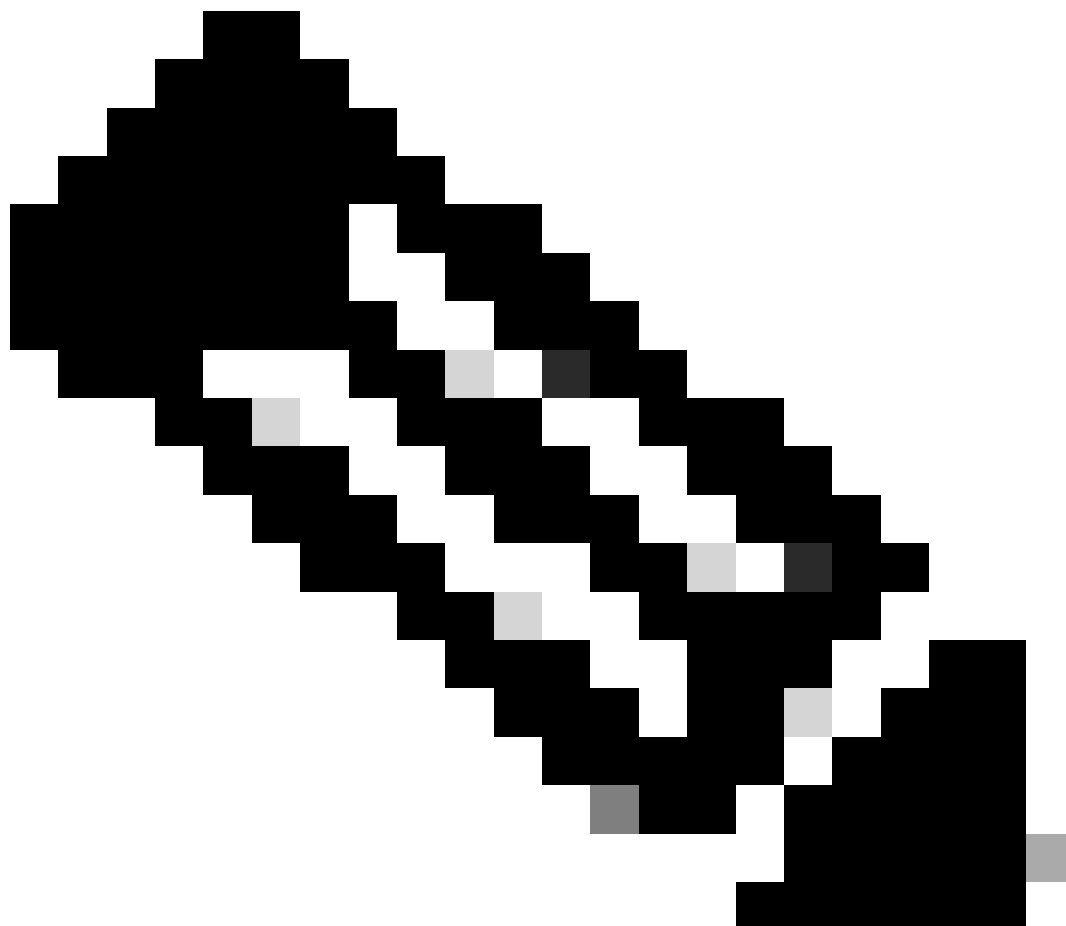
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說明

幫助可用於顯示受限制外殼環境中使用者可用的所有命令。

```
Home-VA-02 ~ $ help
Following is the list of commands available
clear config date df free help iostat netstat nslookup passwd ping ping6 tcptraceroute tr
aceroute traceroute6 version
```

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附註：雖然支援幫助，但人員不支援，因此您需要從其它位置調出所需的任何手冊頁。

本文頂部包含每個可用命令的連結。

iostat

iostat顯示裝置和分割槽的CPU統計資訊和輸入/輸出統計資訊。

有關詳細資訊，請參閱<http://manpages.ubuntu.com/manpages/focal/en/man1/iostat.1.html>

```
Home-VA-01 ~ $ iostat
Linux 4.8.0-53-generic (forwarder)      08/30/19      _x86_64_      (2 CPU)

avg-cpu:  %user   %nice %system %iowait  %steal   %idle
           0.47    0.00    0.47    0.01    0.00   99.04

Device:            tps    kB_read/s    kB_wrtn/s    kB_read    kB_wrtn
sda                 0.79         1.07         5.84    3463273    18971540
sdb                 0.00         0.00         0.00         406         0
```

netstat

netstat會列印網路連線、路由表、介面統計資訊、偽裝連線和多播成員資格。

有關詳細資訊，請參閱<http://manpages.ubuntu.com/manpages/focal/en/man8/netstat.8.html>

```
Home-VA-01 ~ $ netstat
Active Internet connections (w/o servers)
Proto Recv-Q Send-Q Local Address           Foreign Address         State
tcp        0      0 forwarder:42753         forwarder:domain        TIME_WAIT
tcp        0      0 192.168.1.223:19331     192.168.1.221:domain    TIME_WAIT
tcp        0      0 192.168.1.223:10221    resolver4.opendn:domain  TIME_WAIT
tcp        0      0 forwarder:ssh           forwarder:54991          ESTABLISHED
tcp        0      0 192.168.1.223:36857     192.168.1.222:domain    TIME_WAIT
tcp        0      0 192.168.1.223:22499     resolver3.opendn:domain  TIME_WAIT
tcp        0      0 192.168.1.223:18479     146.112.255.101:https    TIME_WAIT
tcp        0      0 192.168.1.223:33123     resolver1.opendn:domain  TIME_WAIT
tcp        0      0 forwarder:54991         forwarder:ssh            ESTABLISHED
tcp        0      0 192.168.1.223:28423     resolver2.opendn:domain  TIME_WAIT
Active UNIX domain sockets (w/o servers)
Proto RefCnt Flags               Type               State              I-Node   Path
unix    2      [ ]                DGRAM              -              /var/spool/postfix/dev/log
unix    7      [ ]                DGRAM              -              /dev/log
unix    3      [ ]                STREAM             CONNECTED          60456416
unix    3      [ ]                DGRAM              -              10616
unix    3      [ ]                STREAM             CONNECTED          10700     @/com/ubuntu/upstart
unix    3      [ ]                STREAM             CONNECTED          10578     @/com/ubuntu/upstart
unix    2      [ ]                DGRAM              -              60456413
unix    3      [ ]                STREAM             CONNECTED          9499
unix    3      [ ]                STREAM             CONNECTED          10698
unix    2      [ ]                DGRAM              -              60455600
unix    3      [ ]                DGRAM              -              10615
unix    3      [ ]                STREAM             CONNECTED          60456417
unix    2      [ ]                DGRAM              -              11419
unix    2      [ ]                DGRAM              -              60432351
unix    3      [ ]                STREAM             CONNECTED          10555     @/com/ubuntu/upstart
unix    2      [ ]                DGRAM              -              60296865
unix    3      [ ]                STREAM             CONNECTED          10551
```

nslookup

nslookup用於以互動方式查詢Internet名稱伺服器。命令結構與Windows、Mac和Linux的命令結構匹配。

```
nslookup <domain>
```

使用此語法運行查詢會導致VA將查詢傳送到我們的公共解析器而不是傳送到其本身。為了成功執行內部域的查詢，您需要指定您的內部DNS伺服器：

nslookup <Internal Domain> <Internal DNS Server IP>

要針對自身從VA運行內部或外部查詢，應運行如下：

nslookup <domain> 127.0.0.1

```
test-VA-1 ~ $ nslookup www.internetbadgirls.com.
Server:      127.0.0.1
Address:     127.0.0.1#53

Non-authoritative answer:
Name:   www.internetbadgirls.com
Address: 146.112.198.95
Name:   www.internetbadgirls.com
Address: ::ffff:146.112.198.95

test-VA-1 ~ $ nslookup www.examplemalwaredomain.com. 192.168.1.201
Server:      192.168.1.201
Address:     192.168.1.201#53

Non-authoritative answer:
Name:   www.examplemalwaredomain.com
Address: 146.112.61.107
Name:   www.examplemalwaredomain.com
Address: ::ffff:146.112.61.107

test-VA-1 ~ $ nslookup www.examplebotnetdomain.com. 127.0.0.1
Server:      127.0.0.1
Address:     127.0.0.1#53

Non-authoritative answer:
Name:   www.examplebotnetdomain.com
Address: 146.112.61.105
Name:   www.examplebotnetdomain.com
Address: ::ffff:146.112.61.105
```

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有關詳細資訊，請參閱<http://manpages.ubuntu.com/manpages/focal/en/man1/nslookup.1.html>

passwd

passwd用於重置VA密碼。語法如下：

passwd

然後系統將提示您輸入舊密碼，然後輸入新密碼（兩次）。或者，您也可以通過Umbrella控制面板將密碼重置為預設值，詳情請見[此處](#)。

```
test-VA-1 ~ $ passwd
Changing password for vmadmin.
Current password:
New password:
Retype new password:
passwd: password updated successfully
```

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ping

ping指令用於測試連線，語法再次與Windows、Mac和Linux中的語法相符。可用選項如下所示。

```
home-VA-01 ~ $ ping
Usage: ping [-aAbBdDfhLnOqrRUvV] [-c count] [-i interval] [-I interface]
          [-m mark] [-M pmtudisc_option] [-l preload] [-p pattern] [-Q tos]
          [-s packetsize] [-S sndbuf] [-t ttl] [-T timestamp_option]
          [-w deadline] [-W timeout] [hop1 ...] destination
```

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最常見的使用方式通常如下：

```
ping -c 4 <Domain or IP>
```

有關詳細資訊，請參閱<http://manpages.ubuntu.com/manpages/focal/en/man1/ping.1.html>

ping6

ping6命令用於測試與IPv6端點的連線，語法再次與Windows、Mac和Linux中的語法匹配。可用選項如下所示。

```
home-VA-02 ~ $ ping6
Usage: ping6 [-aAbBdDfhLnOqrRUvV] [-c count] [-i interval] [-I interface]
          [-l preload] [-m mark] [-M pmtudisc_option]
          [-N nodeinfo_option] [-p pattern] [-Q tclass] [-s packetsize]
          [-S sndbuf] [-t ttl] [-T timestamp_option] [-w deadline]
          [-W timeout] destination
```

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最常見的使用方式如下：

```
ping6 -c 4 <Domain or IPv6 address>
```

有關詳細資訊，請參閱<http://manpages.ubuntu.com/manpages/focal/en/man1/ping6.1.html>

重新引導

reboot指令會重新啟動VA。系統將提示您確認重新啟動(Y = yes)或取消重新啟動(N = no)。

```
test-VA-1 ~ $ reboot
Do you want to reboot the VA: Y/N: _
```

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tcptraceroute

tcptraceroute傳送功能與標準traceroute命令基本相同，但它使用TCP資料包，而不是標準UDP或ICMP資料包。

```
test-VA-1 ~ $ tcptraceroute www.cisco.com
Selected device ens160, address 192.168.1.101, port 32877 for outgoing packets
Tracing the path to www.cisco.com (23.77.71.127) on TCP port 80 (http), 30 hops max
 1 192.168.1.1 0.723 ms 0.340 ms 0.542 ms
 2 8.21.15.1 1.256 ms 0.923 ms 0.874 ms
 3 * * *
 4 * * *
 5 * * *
 6 a23-77-71-127.deploy.static.akamaitechnologies.com (23.77.71.127) [open] 3.393 ms 3.059 ms 2.774 ms
```

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有關詳情，請參閱：<https://manpages.ubuntu.com/manpages/focal/man1/tcptraceroute.mt.1.html>

traceroute

traceroute可用於測試不同網路上的兩個端點之間的UDP和ICMP連線，並提供它們之間的每一躍點的資訊。

最常見的使用方式如下：

```
traceroute <domain or IP>
```

```
test-VA-1 ~ $ traceroute www.cisco.com
traceroute to www.cisco.com (23.77.71.127), 30 hops max, 60 byte packets
 1 * * *
 2 * * *
 3 * * *
 4 * * *
 5 * * *
 6 * * *
 7 * * *
 8 * * *
 9 * * *
10 * * *
11 * * *
12 * * *
13 * * *
14 * * *
15 * * *
16 * * *
17 * * *
18 * * *
19 * * *
20 * * *
21 * * *
22 * * *
23 * * *
24 * * *
25 * * *
26 * * *
27 * * *
28 * * *
29 * * *
30 * * *
test-VA-1 ~ $ _
```

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有關詳細資訊，請參閱

<https://manpages.ubuntu.com/manpages/focal/en/man1/traceroute.db.1.html>

traceroute6

traceroute6可用於測試不同網路上的兩個IPv6終端之間的UDP和ICMP連線，並提供它們之間的每一跳的資訊。

有關詳細資訊，請參閱

<https://manpages.ubuntu.com/manpages/focal/man8/traceroute6.iputils.8.html>

正常運行時間

uptime命令顯示當前時間、VA已運行多長時間、當前登入的使用者數，以及過去1、5和15分鐘的系統負載平均值。

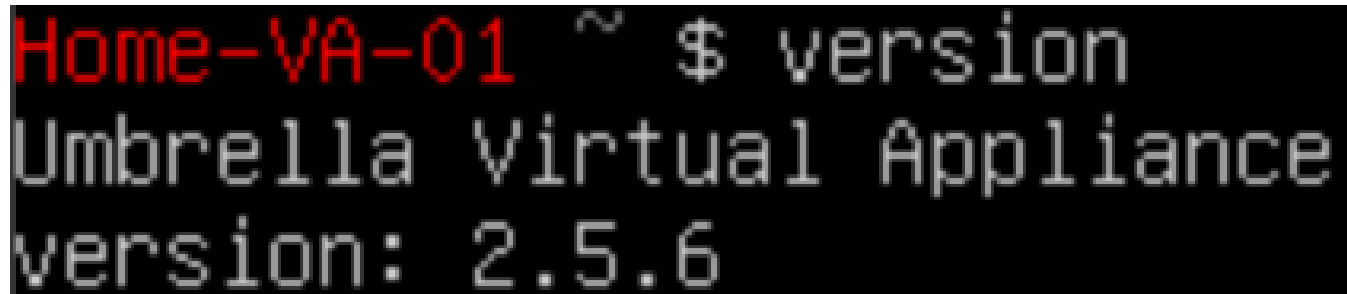
```
test-VA-1 ~ $ uptime
23:25:33 up 42 days, 23:40,  2 users,  load average: 0.04, 0.20, 0.21
```

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有關詳細資訊，請參閱<https://manpages.ubuntu.com/manpages/focal/en/man1/uptime.1.html>

版本

version將當前版本的VA軟體列印到螢幕。此資訊也可從VA控制檯獲得。



```
Home-VA-01 ~ $ version
Umbrella Virtual Appliance
version: 2.5.6
```

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關於此翻譯

思科已使用電腦和人工技術翻譯本文件，讓全世界的使用者能夠以自己的語言理解支援內容。請注意，即使是最佳機器翻譯，也不如專業譯者翻譯的內容準確。Cisco Systems, Inc. 對這些翻譯的準確度概不負責，並建議一律查看原始英文文件（提供連結）。