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pacman & sqlite 資料庫指令

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Arch Linux：套件管理工具 pacman

- 1. 在以git shell操作之前，要以系統管理員身份進入git bash
(git bash 右鍵點選”以系統管理員身份”執行)
- 2. 以最新的 webui-dist來操作
`git clone https://github.com/wade-fs/webui-dist`
- 3. 進入根目錄
`cd/`
- 4. 對pacman.tgz，進行解壓縮 (tar -xf [解壓縮檔名])
`tar xf ~/desktop/webui-dist/pacman.tgz`
- 5. 確認pacman 能執行
`pacman --version`



```
MINGW64:/
User@DESKTOP-0GU3U94 MINGW64 ~
$ cd /

User@DESKTOP-0GU3U94 MINGW64 /
$ tar xf ~/desktop/webui-dist/pacman.tgz

User@DESKTOP-0GU3U94 MINGW64 /
$ pacman --version

  .--.
< -.-'  :~:  :~:  :~:
\  '-.  :~:  :~:  :~:
  '--'

Pacman v6.0.1 - libalpm v13.0.1
Copyright (C) 2006-2021 Pacman Development Team
Copyright (C) 2002-2006 Judd Vinet

This program may be freely redistributed under
the terms of the GNU General Public License.
```

Pacman 功能種類

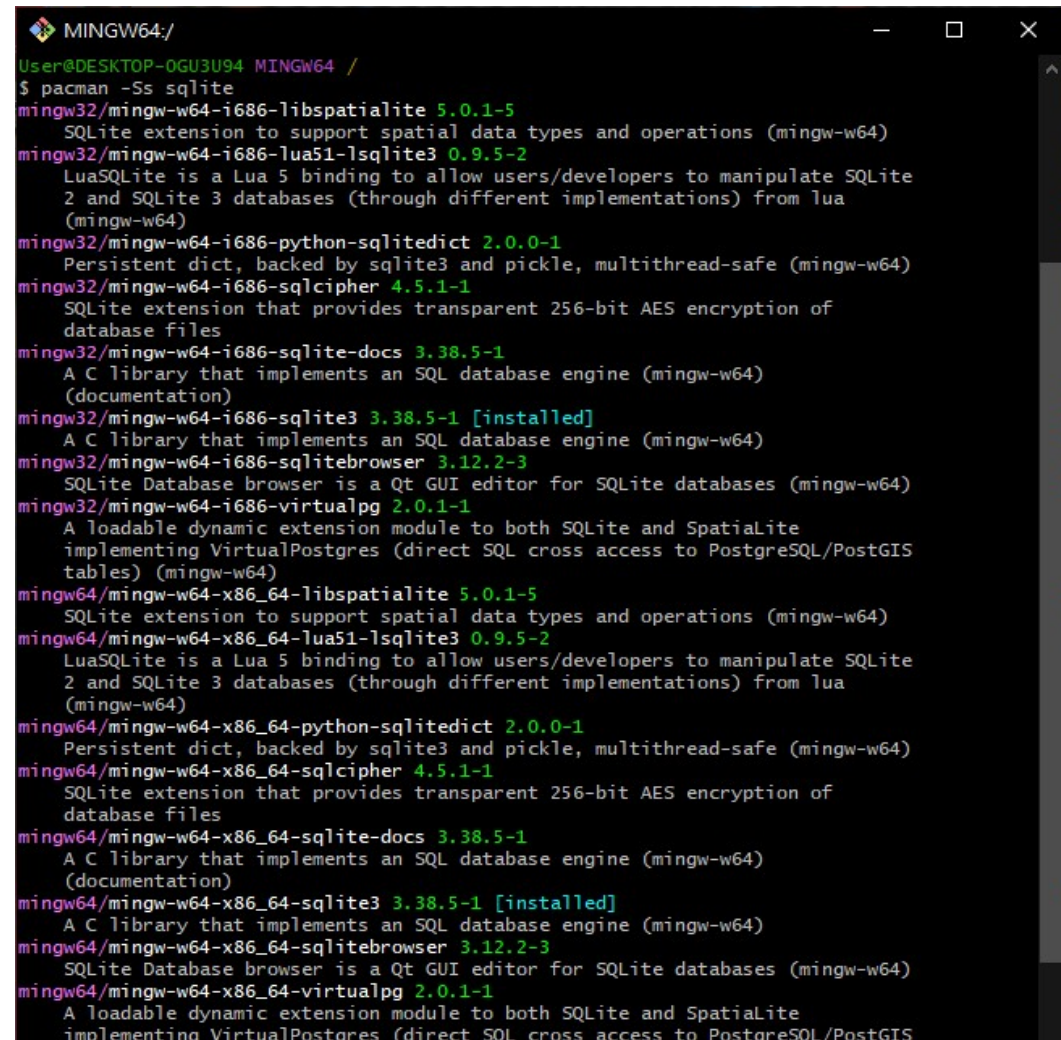
- 1. Search for packages with *pacman*
- 2. Search for packages with *pacman*
- 3. List installed packages with *pacman*
- 4. Install packages with *pacman*
- 5. Updating and Upgrading with *pacman*
- 6. Removing packages with *pacman*

-以下將以SQLite來當作搜尋、安裝、移除的範例

Pacman – Search

pacman -Ss <package-name>

pacman -Ss sqlite

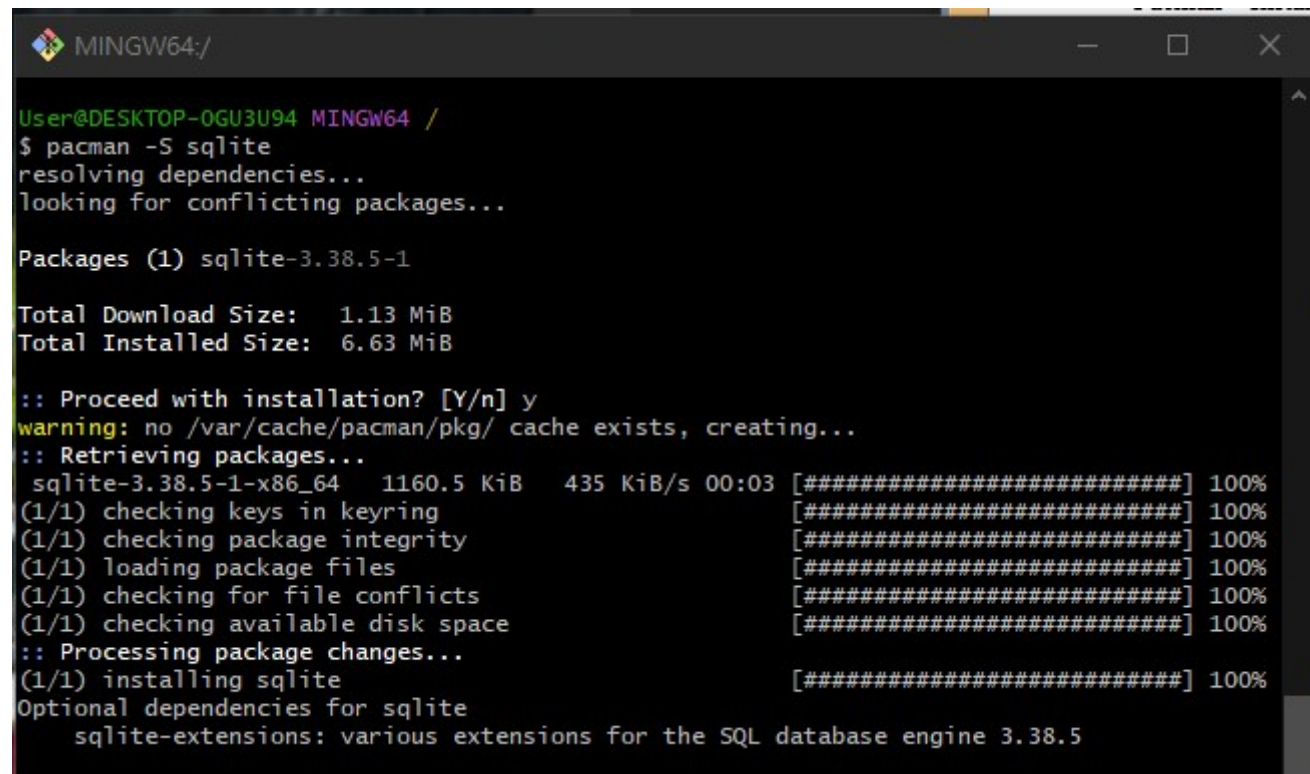


```
MINGW64:/
User@DESKTOP-OGU3U94 MINGW64 /
$ pacman -Ss sqlite
mingw32/mingw-w64-i686-libspatialite 5.0.1-5
  SQLite extension to support spatial data types and operations (mingw-w64)
mingw32/mingw-w64-i686-lua51-lsqlite3 0.9.5-2
  LuaSQLite is a Lua 5 binding to allow users/developers to manipulate SQLite
  2 and SQLite 3 databases (through different implementations) from lua
  (mingw-w64)
mingw32/mingw-w64-i686-python-sqlitedict 2.0.0-1
  Persistent dict, backed by sqlite3 and pickle, multithread-safe (mingw-w64)
mingw32/mingw-w64-i686-sqlcipher 4.5.1-1
  SQLite extension that provides transparent 256-bit AES encryption of
  database files
mingw32/mingw-w64-i686-sqlite-docs 3.38.5-1
  A C library that implements an SQL database engine (mingw-w64)
  (documentation)
mingw32/mingw-w64-i686-sqlite3 3.38.5-1 [installed]
  A C library that implements an SQL database engine (mingw-w64)
mingw32/mingw-w64-i686-sqlitebrowser 3.12.2-3
  SQLite Database browser is a Qt GUI editor for SQLite databases (mingw-w64)
mingw32/mingw-w64-i686-virtualpg 2.0.1-1
  A loadable dynamic extension module to both SQLite and Spatialite
  implementing VirtualPostgres (direct SQL cross access to PostgreSQL/PostGIS
  tables) (mingw-w64)
mingw64/mingw-w64-x86_64-libspatialite 5.0.1-5
  SQLite extension to support spatial data types and operations (mingw-w64)
mingw64/mingw-w64-x86_64-lua51-lsqlite3 0.9.5-2
  LuaSQLite is a Lua 5 binding to allow users/developers to manipulate SQLite
  2 and SQLite 3 databases (through different implementations) from lua
  (mingw-w64)
mingw64/mingw-w64-x86_64-python-sqlitedict 2.0.0-1
  Persistent dict, backed by sqlite3 and pickle, multithread-safe (mingw-w64)
mingw64/mingw-w64-x86_64-sqlcipher 4.5.1-1
  SQLite extension that provides transparent 256-bit AES encryption of
  database files
mingw64/mingw-w64-x86_64-sqlite-docs 3.38.5-1
  A C library that implements an SQL database engine (mingw-w64)
  (documentation)
mingw64/mingw-w64-x86_64-sqlite3 3.38.5-1 [installed]
  A C library that implements an SQL database engine (mingw-w64)
mingw64/mingw-w64-x86_64-sqlitebrowser 3.12.2-3
  SQLite Database browser is a Qt GUI editor for SQLite databases (mingw-w64)
mingw64/mingw-w64-x86_64-virtualpg 2.0.1-1
  A loadable dynamic extension module to both SQLite and Spatialite
  implementing VirtualPostgres (direct SQL cross access to PostgreSQL/PostGIS
```

Pacman – Install

`pacman -S <package-name>`

`pacman -S sqlite`



```
MINGW64:/
User@DESKTOP-0GU3U94 MINGW64 /
$ pacman -S sqlite
resolving dependencies...
looking for conflicting packages...

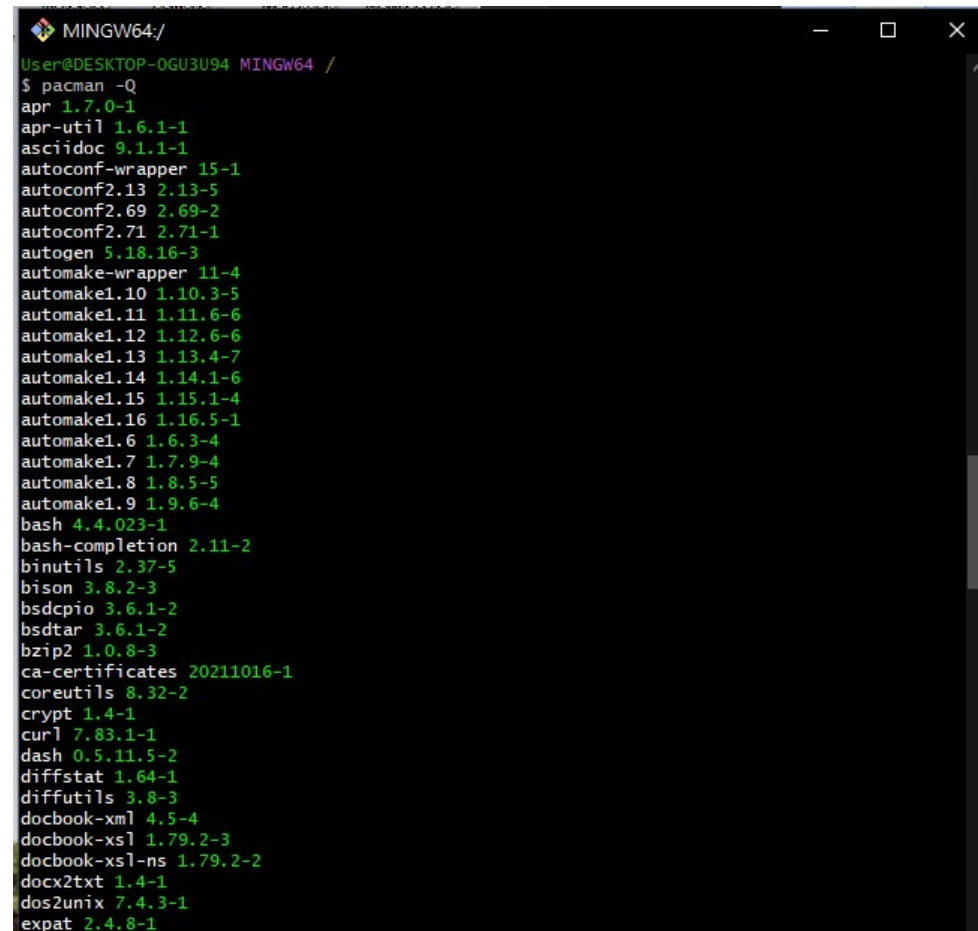
Packages (1) sqlite-3.38.5-1

Total Download Size:  1.13 MiB
Total Installed Size: 6.63 MiB

:: Proceed with installation? [Y/n] y
warning: no /var/cache/pacman/pkg/ cache exists, creating...
:: Retrieving packages...
sqlite-3.38.5-1-x86_64 1160.5 KiB  435 KiB/s 00:03 [#####] 100%
(1/1) checking keys in keyring [#####] 100%
(1/1) checking package integrity [#####] 100%
(1/1) loading package files [#####] 100%
(1/1) checking for file conflicts [#####] 100%
(1/1) checking available disk space [#####] 100%
:: Processing package changes...
(1/1) installing sqlite [#####] 100%
Optional dependencies for sqlite
  sqlite-extensions: various extensions for the SQL database engine 3.38.5
```

Pacman – List installed packages

pacman -Q



```
MINGW64/  
User@DESKTOP-0GU3U94 MINGW64 /  
$ pacman -Q  
apr 1.7.0-1  
apr-util 1.6.1-1  
asciidoc 9.1.1-1  
autoconf-wrapper 15-1  
autoconf2.13 2.13-5  
autoconf2.69 2.69-2  
autoconf2.71 2.71-1  
autogen 5.18.16-3  
automake-wrapper 11-4  
automake1.10 1.10.3-5  
automake1.11 1.11.6-6  
automake1.12 1.12.6-6  
automake1.13 1.13.4-7  
automake1.14 1.14.1-6  
automake1.15 1.15.1-4  
automake1.16 1.16.5-1  
automake1.6 1.6.3-4  
automake1.7 1.7.9-4  
automake1.8 1.8.5-5  
automake1.9 1.9.6-4  
bash 4.4.023-1  
bash-completion 2.11-2  
binutils 2.37-5  
bison 3.8.2-3  
bsdcpio 3.6.1-2  
bsdtar 3.6.1-2  
bzip2 1.0.8-3  
ca-certificates 20211016-1  
coreutils 8.32-2  
crypt 1.4-1  
curl 7.83.1-1  
dash 0.5.11.5-2  
diffstat 1.64-1  
diffutils 3.8-3  
docbook-xml 4.5-4  
docbook-xsl 1.79.2-3  
docbook-xsl-ns 1.79.2-2  
docx2txt 1.4-1  
dos2unix 7.4.3-1  
expat 2.4.8-1
```

Pacman – Update & Upgrade

pacman -Syy
(Update)

```
User@DESKTOP-0GU3U94 MINGW64 /  
$ pacman -Syy  
:: Synchronizing package databases...  
git-for-windows           46.8 KiB   47.4 KiB/s  00:01 [#####] 100%  
git-for-windows-mingw32   16.5 KiB   19.8 KiB/s  00:01 [#####] 100%  
mingw32                   1614.0 KiB  212 KiB/s  00:08 [#####] 100%  
mingw64                   1623.2 KiB  338 KiB/s  00:05 [#####] 100%  
ucrt64                    1681.1 KiB  731 KiB/s  00:02 [#####] 100%  
clang32                   1580.7 KiB  644 KiB/s  00:02 [#####] 100%  
clang64                   1612.5 KiB  290 KiB/s  00:06 [#####] 100%  
msys                      394.3 KiB   144 KiB/s  00:03 [#####] 100%
```

pacman -Syu
(Upgrade)

```
User@DESKTOP-0GU3U94 MINGW64 /  
$ pacman -Syu  
:: Synchronizing package databases...  
git-for-windows is up to date  
git-for-windows-mingw32 is up to date  
mingw32 is up to date  
mingw64 is up to date  
ucrt64 is up to date  
clang32 is up to date  
clang64 is up to date  
msys is up to date  
:: Starting core system upgrade...  
warning: bash: ignoring package upgrade (4.4.023-1 => 4.4.023-2)  
there is nothing to do  
:: Starting full system upgrade...  
resolving dependencies...  
looking for conflicting packages...  
  
Packages (11) mingw-w64-i686-boost-1.79.0-4 mingw-w64-i686-brotli-1.0.9-5  
mingw-w64-i686-gdb-12.1-2 mingw-w64-i686-libxml2-2.9.14-4  
mingw-w64-i686-python-3.10.5-1 mingw-w64-x86_64-brotli-1.0.9-5  
mingw-w64-x86_64-gdb-12.1-2 mingw-w64-x86_64-git-2.37.0.rc1.windows.1-1  
mingw-w64-x86_64-git-doc-html-2.37.0.rc1.windows.1-1  
mingw-w64-x86_64-libxml2-2.9.14-4 mingw-w64-x86_64-python-3.10.5-1  
  
Total Download Size: 69.81 MiB  
Total Installed Size: 518.44 MiB  
Net Upgrade Size: 5.47 MiB  
  
:: Proceed with installation? [Y/n] n
```


Pacman – Remove

- `pacman -Rcns <package-name>`
- `pacman -Rcns sqlite`

```
User@DESKTOP-0GU3U94 MINGW64 /  
$ pacman -Rcns sqlite  
checking dependencies...  
  
Packages (1) sqlite-3.38.5-1  
  
Total Removed Size: 6.63 MiB  
  
:: Do you want to remove these packages? [Y/n] y  
:: Processing package changes...  
(1/1) removing sqlite [#####] 100%
```


git shell 中管理 q8s.db

1. 進入webui-dist 資料夾

`cd ~/desktop/webui-dist`

2. 以sqlite3 打開q8s.db

`sqlite3 q8s.db`

3. 查看q8s.db 中的tables

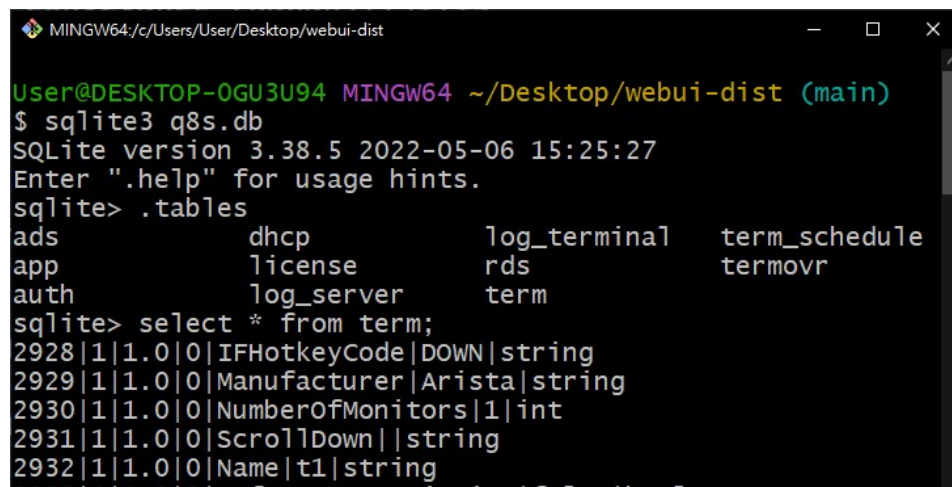
`.tables`

```
User@DESKTOP-0GU3U94 MINGW64 /  
$ cd ~/desktop/webui-dist  
  
User@DESKTOP-0GU3U94 MINGW64 ~/desktop/webui-dist (main)  
$ sqlite3 q8s.db  
SQLite version 3.38.5 2022-05-06 15:25:27  
Enter ".help" for usage hints.  
sqlite> .tables  
ads          dhcp          log_terminal  term_schedule  
app          license       rds           termovr  
auth         log_server   term
```

git shell 中管理 q8s.db

4. 要查看各種不同tables裡面的資料

select * from [table 名稱]; (*查看全部資料)



```
MINGW64:/c:/Users/User/Desktop/webui-dist
User@DESKTOP-0GU3U94 MINGW64 ~/Desktop/webui-dist (main)
$ sqlite3 q8s.db
SQLite version 3.38.5 2022-05-06 15:25:27
Enter ".help" for usage hints.
sqlite> .tables
ads          dhcp          log_terminal  term_schedule
app          license       rds           termovr
auth         log_server   term
sqlite> select * from term;
2928|1|1.0|0|IFHotkeyCode|DOWN|string
2929|1|1.0|0|Manufacturer|Arista|string
2930|1|1.0|0|NumberOfMonitors|1|int
2931|1|1.0|0|ScrollDown||string
2932|1|1.0|0|Name|t1|string
```

git shell 中管理 q8s.db

5. 但只出現資料卻不知這些資料代表什麼意義，就要用 .schema 來看資料的定義

.schema [table 名稱]

```
sqlite> .schema term
CREATE TABLE term ( Id INTEGER PRIMARY KEY AUTOINCREMENT, ObjId INTEGER DEFAULT 1, Major TEXT DEFAULT '1.0', Minor TEXT DEF
'0', Attr TEXT DEFAULT 'UNKNOWN', Val TEXT DEFAULT 'UNKNOWN', Typ TEXT DEFAULT 'UNKNOWN', UNIQUE(ObjId,Attr));
^C\ite> ^C
User@DESKTOP-OGU3U94 MINGW64 ~/Desktop/webui-dist (main)
$ |
```

所以其實 q8s.db 中 term tables 的一部分，用表格看起來是長得像右邊這樣。

Id	ObjId	Major	Minor	Attr	Val	Typ
2928	1	1.0	0	IFHotkeyCode1	Down	string
2929	1	1.0	0	Manufacturer	Arista	string

6. 退出 sqlite

.exit

auto test api

1. 請閱讀 docs/test-api.md
2. 配合上面的 sqlite3 了解資料庫

auto test api

- 目前藉由sqlite 中.tables 指令
可得知在q8s.db中的所有table (如下右圖)
與docs/test-api.md中描述的吻合(如下左圖)

<pre>3 ~ ## 表格 4 5 - API: /test/ids/:tb 6 - 常用的表格有 term, rds, app, 7 - log 相關: log_terminal, log_server 8 - 其它: license, termovr, term_schedule, dhcp, auth, ads</pre>	<pre>User@DESKTOP-0GU3U94 MINGW64 ~/Desktop/webui-dist (main) \$ sqlite3 q8s.db SQLite version 3.38.5 2022-05-06 15:25:27 Enter ".help" for usage hints. sqlite> .tables ads dhcp log_terminal term_schedule app license rds termovr auth log_server term</pre>
--	---

那在瀏覽器的url也能夠輸入/test 的相關指令來看到資料庫中的table資料

1. Table 中的資料有幾個id **API: /test/ids/[table 名稱]**
(例如：<http://localhost:8088/test/ids/term>) → [1, 2] 因為目前terminal只有 t1 與 t2
2. Table 中的所有item **API: /test/items/[table 名稱]** → 等於取得table 中所有細節資料
3. 只顯示table 中特定id 的item **API: /test/item/[table 名稱] / [id代號]**
(例如：<http://localhost:8088/test/item/term/1>) → 就只會顯示term中 id = 1 的 item

auto test api

4. 取得terminal的status (通常是指目前有哪些terminal 正在運作，要先用
./terminal.sh -s -M 112233445561 -S ACTIVE 來控制使termianl 的狀態變成active

然後API: /test/status/

<http://localhost:8088/test/status/>

```
{  
  "112233445561": {  
    "Id": 1,  
    "Ip": "127.0.0.1",  
    "Manu": "",  
    "Model": "",  
    "Class": "",  
    "Status": "ACTIVE",  
    "Last": 1655635208  
  }  
}
```

- 5.取得 status 中占 license 的 terminal 及 max license

API: /test/licensed/

<http://localhost:8088/test/licensed/>

```
{  
  "112233445561": "127.0.0.1",  
  "MaxLicenses": "10"  
}
```

[問題1] 以表格term來說，像tid=1，照文件操作時，如果是t1，在資料庫中要如何查這筆資料？

答案：select * from term where objId = 1

[問題2.1] 為什麼表格是這樣設計(vertical table)

答案：在webui中會有很多新增terminal與app...等等不固定的新增資料，若使用水平式，那在新增新一列資料時，UI的顯示可能需要跟著做調整，此時使用垂直式設計，資料藉由id以邏輯形式連繫在一起，就不用做UI上的更動。

[問題2.2] 這樣設計有什麼優點與缺點？

答案：vertical table的優點在於，靈活性好、顯示數據分類便利、速度比horizon table快，缺點在於，數據規範化難維護、易讀性差、操作sql語法較複雜，但可用一個函式同時對所有表格實行相同操作。

[問題3] 請編輯terminal中的display，使下面變數進行資料取出，並報告不同變數與原始的差異

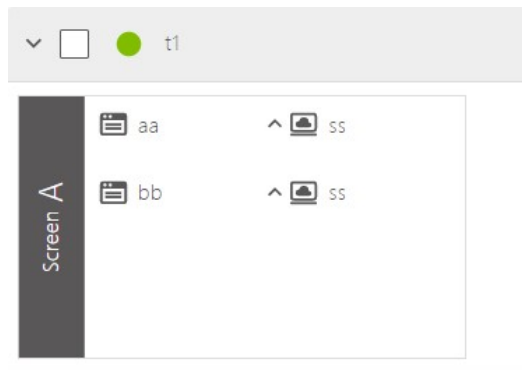
- (1) app數從1到2 (ps: 要先建共3個app)
- (2) monitor數由1到2，screen個數維持1個，擺放2個app
- (3) screen數由1到2，保持monitor數為2，每個screen擺一個app
- (4) 第2個screen放2個app

原始狀況



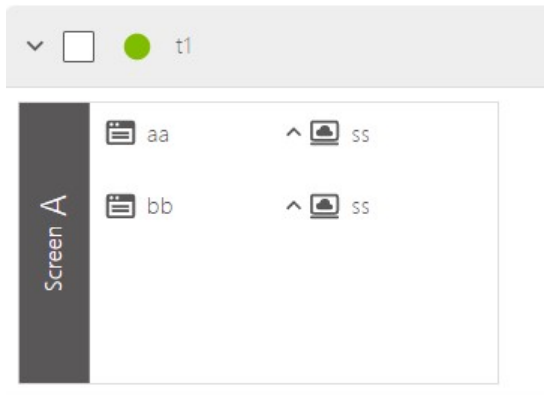
```
"MAC": "112233445566",
"MainMenu": "NONE",
"MainMenuHotkeyCode": "F1",
"MainMenuHotkeyState": "CTRL",
"MainMonitor": 1,
"Manufacturer": "Arista",
"Model": "BoxPC-138-G01",
"ModifiedTS": 1654916655,
"Monitor1_ScreenId": 1,
"Monitor1_Video": "1024x768,16M,60Hz",
"Monitor1_XPosition": 0,
"Monitor1_YPosition": 0,
"Monitor2_ScreenId": 2,
"Monitor2_Video": "1024x768,16M,60Hz",
"Monitor2_XPosition": 1024,
"Monitor2_YPosition": 0,
"Monitor3_ScreenId": 2,
"Monitor3_Video": "1024x768,16M,60Hz",
"Monitor3_XPosition": 2048,
"Monitor3_YPosition": 0,
"Name": "t1",
"NeedToRestart": false,
"NumberOfMonitors": 1,
"NumberOfScreens": 1,
"ParentId": 0,
"Password": "",
"RebootDependentTerminals": false,
"Replaceable": true,
"RightMouseButton": "",
"Schedules": "",
"Screen1_Applications": "1",
"Screen1_EnableTiling": true,
"Screen1_Height": 768,
"Screen1_TileOnStartup": true,
"Screen1_Width": 1024,
"Screen1_XPosition": 0,
"Screen1_YPosition": 0,
"Screen2_Applications": "2,3",
"Screen2_EnableTiling": true,
"Screen2_Height": 768,
"Screen2_TileOnStartup": true,
"Screen2_Width": 2048,
"Screen2_XPosition": 1024,
"Screen2_YPosition": 0,
"ScreenOfAppIds": "1",
"ScrollDown": "",
"ScrollUp": "",
"ShadowMode": "YES",
"ShowDeviceStatusBar": false,
>Status": "OFF",
"Type": "MONITOR"
```

(1) app數從1到2



```
Monitor1_Video": "1024x768,16M,60Hz",
"Monitor1_XPosition": 0,
"Monitor1_YPosition": 0,
"Monitor2_ScreenId": 2,
"Monitor2_Video": "1024x768,16M,60Hz",
"Monitor2_XPosition": 1024,
"Monitor2_YPosition": 0,
"Monitor3_ScreenId": 2,
"Monitor3_Video": "1024x768,16M,60Hz",
"Monitor3_XPosition": 2048,
"Monitor3_YPosition": 0,
"Name": "t1",
"NeedToRestart": false,
"NumberOfMonitors": 1,
"NumberOfScreens": 1,
"ParentId": 0,
"Password": "",
"RebootDependentTerminals": false,
"Replaceable": true,
"RightMouseButton": "",
"Schedules": "",
"Screen1_Applications": "1,2",
"Screen1_EnableTiling": true,
"Screen1_Height": 768,
"Screen1_TileOnStartup": true,
"Screen1_Width": 1024,
"Screen1_XPosition": 0,
"Screen1_YPosition": 0,
"Screen2_Applications": "3",
"Screen2_EnableTiling": true,
"Screen2_Height": 768,
"Screen2_TileOnStartup": true,
"Screen2_Width": 2048,
"Screen2_XPosition": 1024,
"Screen2_YPosition": 0,
"ScreenOfAppIds": "1,2",
"ScrollDown": "",
"ScrollUp": "",
"ShadowMode": "YES",
```

(2) monitor數由1到2，
screen個數維持1個，擺
放2個app



```
"LogOnRelevanceUser": "NONE",
"MAC": "112233445566",
"MainMenu": "NONE",
"MainMenuHotkeyCode": "F1",
"MainMenuHotkeyState": "CTRL",
"MainMonitor": 1,
"Manufacturer": "Arista",
"Model": "BoxPC-138-G01",
"ModifiedTS": 1654916655,
"Monitor1_ScreenId": 1,
"Monitor1_Video": "1024x768,16M,60Hz",
"Monitor1_XPosition": 0,
"Monitor1_YPosition": 0,
"Monitor2_ScreenId": 1,
"Monitor2_Video": "1024x768,16M,60Hz",
"Monitor2_XPosition": 1024,
"Monitor2_YPosition": 0,
"Monitor3_ScreenId": 2,
"Monitor3_Video": "1024x768,16M,60Hz",
"Monitor3_XPosition": 2048,
"Monitor3_YPosition": 0,
"Name": "t1",
"NeedToRestart": false,
"NumberOfMonitors": 2,
"NumberOfScreens": 1,
"ParentId": 0,
"Password": "",
"RebootDependentTerminals": false,
"Replaceable": true,
"RightMouseButton": "",
"Schedules": "",
"Screen1_Applications": "1,2",
"Screen1_EnableTiling": true,
"Screen1_Height": 768,
"Screen1_TileOnStartup": true,
"Screen1_Width": 2048,
"Screen1_XPosition": 0,
"Screen1_YPosition": 0,
"Screen2_Applications": "3",
"Screen2_EnableTiling": true,
"Screen2_Height": 768,
"Screen2_TileOnStartup": true,
"Screen2_Width": 2048,
"Screen2_XPosition": 1024,
"Screen2_YPosition": 0,
"ScreenOfAppIds": "1,2",
"ScrollDown": "",
"ScrollUp": "",
"ShadowMode": "YES",
```


(3) screen數由1到2，保持monitor數為2，每個screen擺一個app



```
"LogOnRelevanceUser": "NONE",
"MAC": "112233445566",
"MainMenu": "NONE",
"MainMenuHotkeyCode": "F1",
"MainMenuHotkeyState": "CTRL",
"MainMonitor": 1,
"Manufacturer": "Arista",
"Model": "BoxPC-138-G01",
"ModifiedTS": 1654916655,
"Monitor1_ScreenId": 1,
"Monitor1_Video": "1024x768,16M,60Hz",
"Monitor1_XPosition": 0,
"Monitor1_YPosition": 0,
"Monitor2_ScreenId": 2,
"Monitor2_Video": "1024x768,16M,60Hz",
"Monitor2_XPosition": 1024,
"Monitor2_YPosition": 0,
"Monitor3_ScreenId": 2,
"Monitor3_Video": "1024x768,16M,60Hz",
"Monitor3_XPosition": 2048,
"Monitor3_YPosition": 0,
"Name": "t1",
"NeedToRestart": false,
"NumberOfMonitors": 3,
"NumberOfScreens": 2,
"ParentId": 0,
"Password": "",
"RebootDependentTerminals": false,
"Replaceable": true,
"RightMouseButton": "",
"Schedules": "",
"Screen1_Applications": "1",
"Screen1_EnableTiling": true,
"Screen1_Height": 768,
"Screen1_TileOnStartup": true,
"Screen1_Width": 1024,
"Screen1_XPosition": 0,
"Screen1_YPosition": 0,
"Screen2_Applications": "2",
"Screen2_EnableTiling": true,
"Screen2_Height": 768,
"Screen2_TileOnStartup": true,
"Screen2_Width": 2048,
"Screen2_XPosition": 1024,
"Screen2_YPosition": 0,
"ScreenOfAppIds": "1;2",
"ScrollDown": "",
"ScrollUp": "",
"ShadowMode": "YES",
```

(4) 第2個screen放2個app



```
"LogOnRelevanceUser": "NONE",
"MAC": "112233445566",
"MainMenu": "NONE",
"MainMenuHotkeyCode": "F1",
"MainMenuHotkeyState": "CTRL",
"MainMonitor": 1,
"Manufacturer": "Arista",
"Model": "BoxPC-138-G01",
"ModifiedTS": 1654916655,
"Monitor1_ScreenId": 1,
"Monitor1_Video": "1024x768,16M,60Hz",
"Monitor1_XPosition": 0,
"Monitor1_YPosition": 0,
"Monitor2_ScreenId": 2,
"Monitor2_Video": "1024x768,16M,60Hz",
"Monitor2_XPosition": 1024,
"Monitor2_YPosition": 0,
"Monitor3_ScreenId": 2,
"Monitor3_Video": "1024x768,16M,60Hz",
"Monitor3_XPosition": 2048,
"Monitor3_YPosition": 0,
"Name": "t1",
"NeedToRestart": false,
"NumberOfMonitors": 3,
"NumberOfScreens": 2,
"ParentId": 0,
"Password": "",
"RebootDependentTerminals": false,
"Replaceable": true,
"RightMouseButton": "",
"Schedules": "",
"Screen1_Applications": "1",
"Screen1_EnableTiling": true,
"Screen1_Height": 768,
"Screen1_TileOnStartup": true,
"Screen1_Width": 1024,
"Screen1_XPosition": 0,
"Screen1_YPosition": 0,
"Screen2_Applications": "2,3",
"Screen2_EnableTiling": true,
"Screen2_Height": 768,
"Screen2_TileOnStartup": true,
"Screen2_Width": 2048,
"Screen2_XPosition": 1024,
"Screen2_YPosition": 0,
"ScreenOfAppIds": "1;2,3",
"ScrollDown": "",
"ScrollUp": "",
"ShadowMode": "YES",
```