

## 如何更新 SAS Viya 授權碼步驟

SAS Viya 授權更新時，請務必使用 root 帳號或具有 Superuser(sudo)權限，

可以使用 `sudo -v` 或 `sudo -l` 確認。

詳情可參考: [SAS® Viya® 3.4 Administration Guide – License: How to](#)

### 1.1 上傳新的 SID 檔案至 Ansible playbook 目錄

- 到 Ansible playbook 目錄(依當初規劃路徑)，輸入以下指令：

```
# cd /< sas_viya_playbook路徑>
# ll
```

```
[sasinstall@ viya]$ cd /home/sasinstall/viya
[sasinstall@ viya]$ ll
total 36748
-rwxr--r-- 1 sasinstall sasinstall 37340982 Oct 28 2019 sas-orchestration
-rw-r--r-- 1 sasinstall sasinstall 24949 Dec 9 07:50 SAS_Viya_deployment_data.zip
drwxr-xr-x 14 sasinstall sasinstall 4096 May 21 00:51 sas_viya_playbook
-rw-rw-r-- 1 sasinstall sasinstall 250185 Dec 16 08:49 SAS_Viya_playbook.tgz
```

- 先將新的 SID 檔案上傳至 linux 主機的 /tmp 目錄下，可透過 ssh 終端機的功能，或是 winscp 軟體上傳。將此 SID 檔案複製到 sas\_viya\_playbook 下。指令如下：

```
cp /tmp/SASViyaV0300_<order number>_Linux_x86-64.txt
./sas_viya_play_book/

cp /tmp/SASViyaV0300_<order number>_<site number>_Linux_x86-64.jwt
./sas_viya_play_book/
```

```
[sasinstall@ viya]$ cp /tmp/SASViyaV0300_6-64.txt ./sas_viya_playbook/
[sasinstall@ viya]$ cp /tmp/SASViyaV0300_Linux_x86-64.jwt ./sas_viya_playbook/
```

## 1.2 修改 playbook 中 vars.yml 內的授權檔名參數

- 輸入以下指令，進入 `sas_viya_playbook` 目錄內，打開 `vars.yml` 檔案編輯，找到 `LICENSE_FILENAME` 和 `LICENSE_COMPOSITE_FILENAME` 參數，修改為新的 SID 檔名，儲存後離開。

```
cd sas_viya_playbook
vim vars.yml
```

```
[sasinstall@ viya]$ cd sas_viya_playbook/
[sasinstall@ sas_viya_playbook]$ vim vars.yml
```

修改 `LICENSE_FILENAME`，請在“ ”內輸入新的SID檔名，參考如下：

`LICENSE_FILENAME="SASViya新的SID檔名.txt"`

`LICENSE_COMPOSITE_FILENAME="SASViya新的SID檔名.jwt"`

```
# The name of the license file on the Ansible machine.
LICENSE_FILENAME: "SASViyaV0300_ _linux_x86-64.txt"

# The name of the composite license file on the Ansible machine.
# If both files are present, the playbook will use the
# composite license file.
LICENSE_COMPOSITE_FILENAME: "SASViyaV0300_ _Linux_x86-64.jwt"
```

## 1.3 透過 Ansible 啟用新的 SID 檔案

- 輸入以下 Ansible 指令，套用新的 SID 檔案到 SAS CAS。

```
ansible-playbook apply-license.yml
```

```
[sasinstall@  sas_viya_playbook]$ ansible-playbook apply-license.yml
```

執行過程中，要求使用者按下 **Ctrl+C** 後，再按下 **C**，完成後會看到以下畫面。

```
ok: [deployTarget -> 127.0.0.1]
TASK [include /home/sasinstall/viya/sas_viya_playbook/internal/./cluster_defn_vars.yml] *****
ok: [deployTarget]
TASK [If CLUSTER_DEFINITIONS.cas is not empty, copy contents] *****
ok: [deployTarget]
TASK [casserver-license : include] *****
included: /home/sasinstall/viya/sas_viya_playbook/tasks/set_license_file.yml for deployTarget
TASK [casserver-license : set_fact] *****
ok: [deployTarget]
TASK [casserver-license : set_fact] *****
skipping: [deployTarget]
TASK [casserver-license : Create directory /opt/sas/viya/config/etc/cas/<cas-instance>] *****
ok: [deployTarget] => (item={'key': 'default', 'value': {'primary_host': 'deployTarget', 'secondary_host': None, 'work
sts': None, 'tenant': 'shared', 'casenv_user': 'cas', 'casenv_group': 'sas'}})
TASK [casserver-license : Copy license files] *****
ok: [deployTarget] => (item={'key': 'default', 'value': {'primary_host': 'deployTarget', 'secondary_host': None, 'work
sts': None, 'tenant': 'shared', 'casenv_user': 'cas', 'casenv_group': 'sas'}})
TASK [casserver-license : Set up symlink for license file] *****
ok: [deployTarget] => (item={'key': 'default', 'value': {'primary_host': 'deployTarget', 'secondary_host': None, 'work
sts': None, 'tenant': 'shared', 'casenv_user': 'cas', 'casenv_group': 'sas'}})
PLAY RECAP *****
deployTarget      : ok=60   changed=12   unreachable=0   failed=0
```

## 1.4 驗證 SAS Viya 產品授權

- 登入 <http://<SAServer name>/SASStudioV>

輸入並點選  執行以下指令：

```
proc setinit;run; /*驗證 SAS SPRE*/
```

- 查看 output 內，Expiration 日期。

```
82  proc setinit;run;
NOTE: PROCEDURE SETINIT used (Total process time):
      real time           0.00 seconds
      cpu time            0.00 seconds
```

```
Original site validation data  
Current version: V.03.05M0P110619  
Site name: '[REDACTED]'.  
Site number: 70251224.  
CPU A: Model name='' model number='' serial=''.  
CPU B: Model name='' model number='' serial='+8'.  
CPU C: Model name='' model number='' serial='+8'.  
Expiration: 30APR2021.  
Grace Period: 30 days (ending 30MAY2021).
```

- 輸入並點選  執行以下指令:

```
cas casauto;  
  
cas casauto listabout; /*驗證 SAS CAS*/
```

- 查看 `section:license` 內，`expires` 日期。

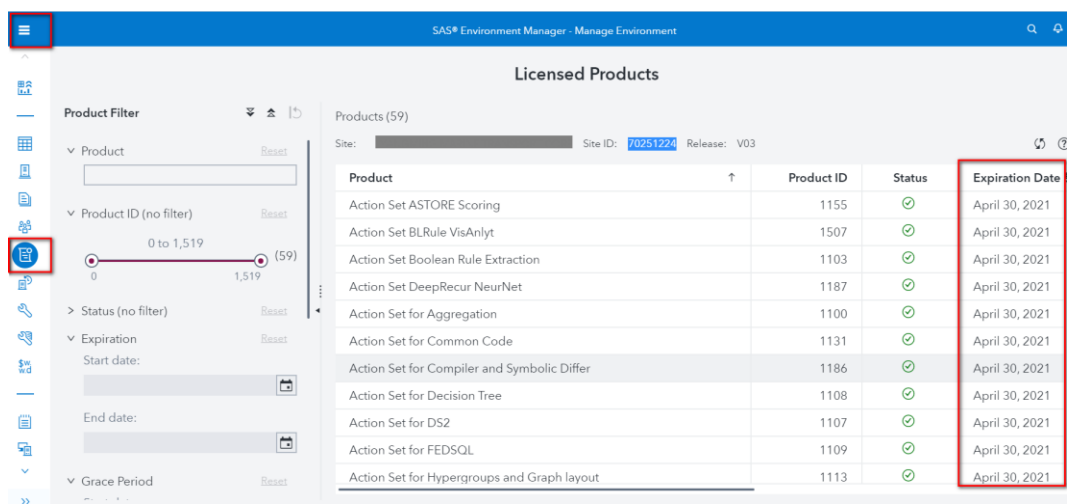
```
Model Number = x86_64
Linux Distribution = CentOS Linux release 7.5.1804 (Core)

Section: license
site = 
siteNum = 70251224
expires = 30Apr2021:00:00:00
gracePeriod = 30
warningPeriod = 30
maxCPUs = 8

NOTE: Request to LISTABOUT completed for session CASAUTO.
```

## 1.5 登入 SAS Environment Manager 查看

- 使用管理員帳號登入，點選【管理環境】>【授權產品】，可看到各產品授權時間等相關資訊，如下：



SAS® Environment Manager - Manage Environment

Licensed Products

Products (59)

Site: Site ID: 70251224 Release: V03

Product	Product ID	Status	Expiration Date
Action Set ASTORE Scoring	1155	✓	April 30, 2021
Action Set BLRule VisAnlyt	1507	✓	April 30, 2021
Action Set Boolean Rule Extraction	1103	✓	April 30, 2021
Action Set DeepRecur NeurNet	1187	✓	April 30, 2021
Action Set for Aggregation	1100	✓	April 30, 2021
Action Set for Common Code	1131	✓	April 30, 2021
Action Set for Compiler and Symbolic Differ	1186	✓	April 30, 2021
Action Set for Decision Tree	1108	✓	April 30, 2021
Action Set for DS2	1107	✓	April 30, 2021
Action Set for FEDSQL	1109	✓	April 30, 2021
Action Set for Hypergroups and Graph layout	1113	✓	April 30, 2021