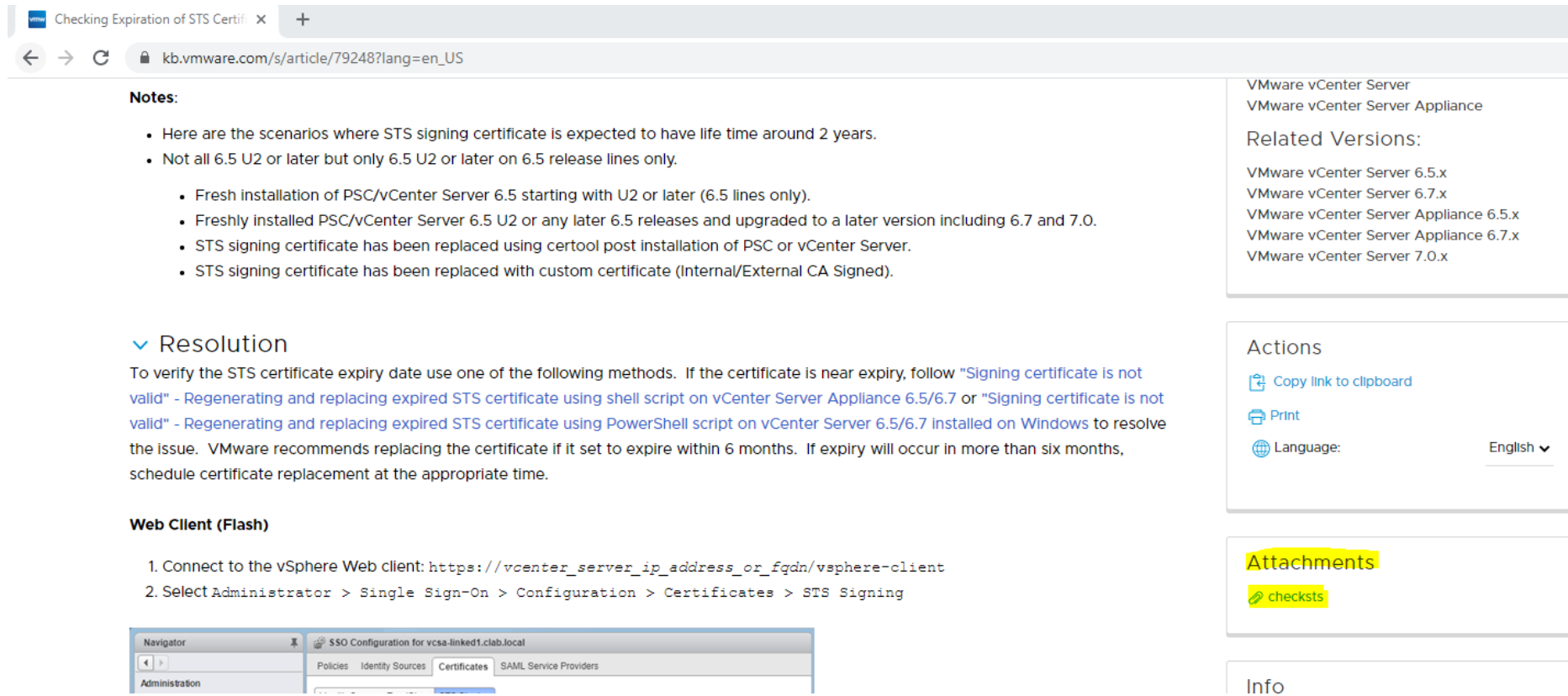


## Checking STS Certificate Validity on vCenter Server

1. Download the Python script "**checksts.py**" from the KB <https://kb.vmware.com/s/article/79248>



The screenshot shows a web browser window with the URL [kb.vmware.com/s/article/79248?lang=en\\_US](https://kb.vmware.com/s/article/79248?lang=en_US). The page content includes:

- Notes:**
  - Here are the scenarios where STS signing certificate is expected to have life time around 2 years.
  - Not all 6.5 U2 or later but only 6.5 U2 or later on 6.5 release lines only.
    - Fresh installation of PSC/vCenter Server 6.5 starting with U2 or later (6.5 lines only).
    - Freshly installed PSC/vCenter Server 6.5 U2 or any later 6.5 releases and upgraded to a later version including 6.7 and 7.0.
    - STS signing certificate has been replaced using certtool post installation of PSC or vCenter Server.
    - STS signing certificate has been replaced with custom certificate (Internal/External CA Signed).
- Resolution**

To verify the STS certificate expiry date use one of the following methods. If the certificate is near expiry, follow "Signing certificate is not valid" - Regenerating and replacing expired STS certificate using shell script on vCenter Server Appliance 6.5/6.7 or "Signing certificate is not valid" - Regenerating and replacing expired STS certificate using PowerShell script on vCenter Server 6.5/6.7 installed on Windows to resolve the issue. VMware recommends replacing the certificate if it set to expire within 6 months. If expiry will occur in more than six months, schedule certificate replacement at the appropriate time.
- Web Client (Flash)**
  1. Connect to the vSphere Web client: `https://vcenter_server_ip_address_or_fqdn/vsphere-client`
  2. Select Administrator > Single Sign-On > Configuration > Certificates > STS Signing

The right sidebar contains:

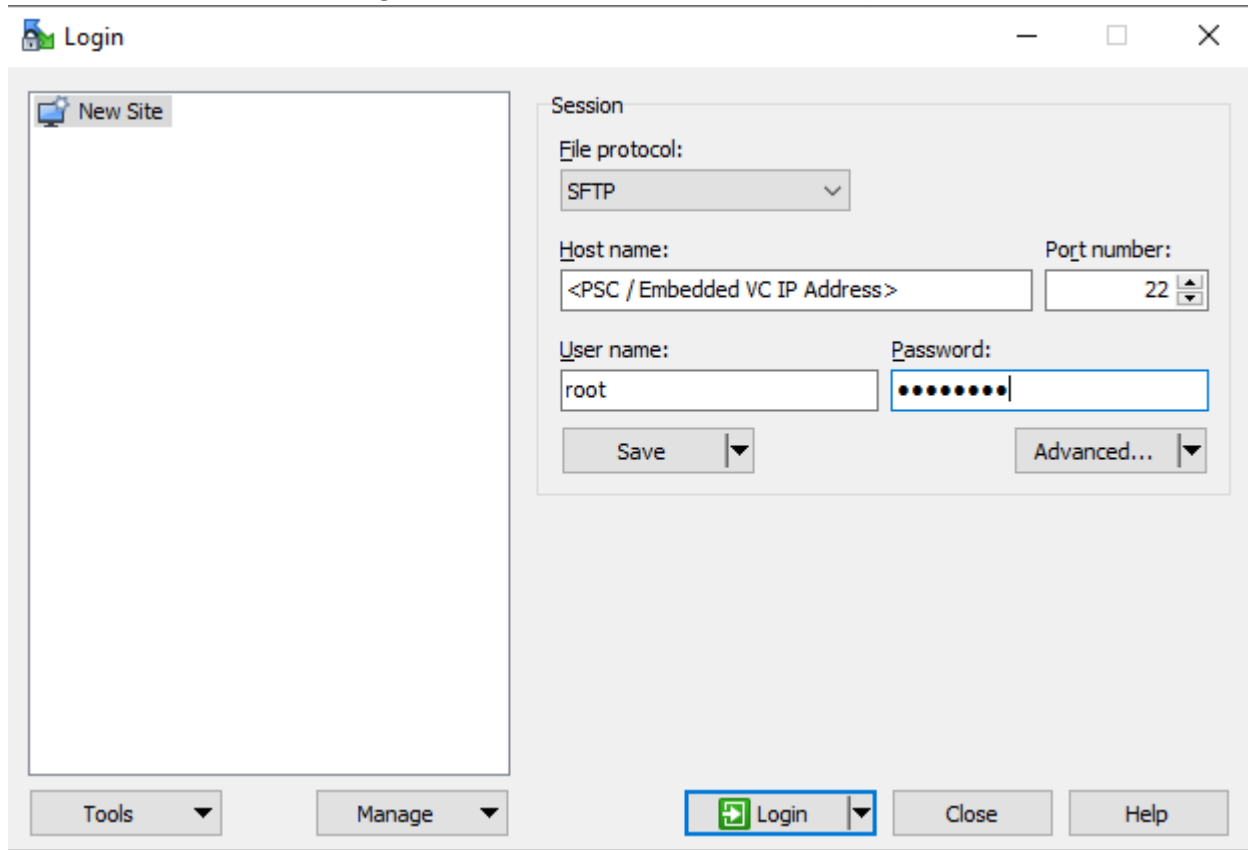
- VMware vCenter Server
- VMware vCenter Server Appliance
- Related Versions:**
  - VMware vCenter Server 6.5.x
  - VMware vCenter Server 6.7.x
  - VMware vCenter Server Appliance 6.5.x
  - VMware vCenter Server Appliance 6.7.x
  - VMware vCenter Server 7.0.x
- Actions:**
  - Copy link to clipboard
  - Print
  - Language: English
- Attachments:**
  - checksts
- Info**

### Steps for vCenter Server Appliance (VCSA)

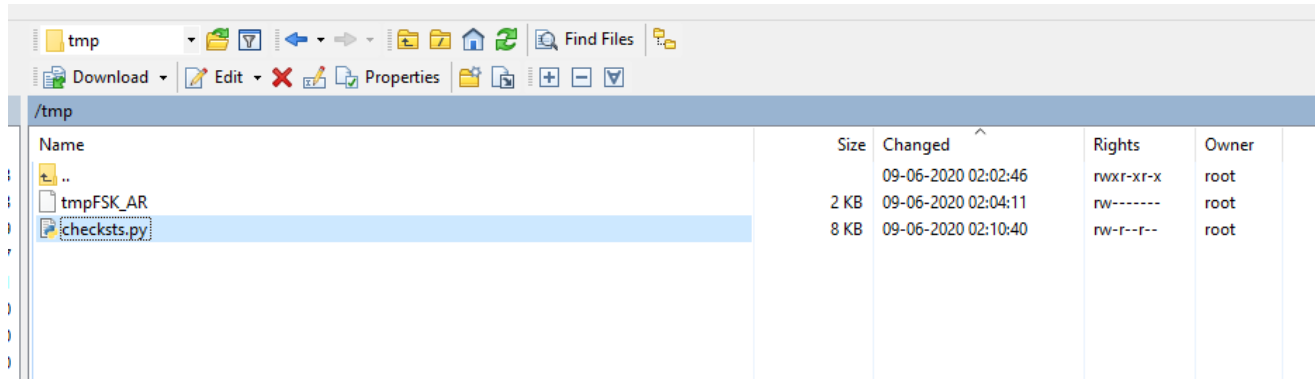
2. Upload the script to VCSA using WinSCP
  - a. Change Shell to Bash by following KB <https://kb.vmware.com/s/article/2107727>

```
root@vcsal [ ~ ]# chsh -s /bin/bash root
root@vcsal [ ~ ]#
```

b. Connect to vCenter Server using root account



c. Copy the file to /tmp



- Execute the script using python "python checksts.py"

Sample result:

```
root@vcsal [ /tmp ]# python checksts.py

1 VALID CERTS
=====

    LEAF CERTS:

    None

    ROOT CERTS:

    [] Certificate 10:18:34:A7:6C:C5:92:44:E8:F3:DC:6D:BF:96:0A:8D:8A:0C:17:98 will expire in 2885 days (7.0 years).

1 EXPIRED CERTS
=====

    LEAF CERTS:

    [] Certificate: 72:94:38:92:92:51:B4:C8:A4:56:DE:73:D5:A6:9E:44:5C:D6:53:4D expired on 2020-05-07 19:59:28 GMT!

    ROOT CERTS:

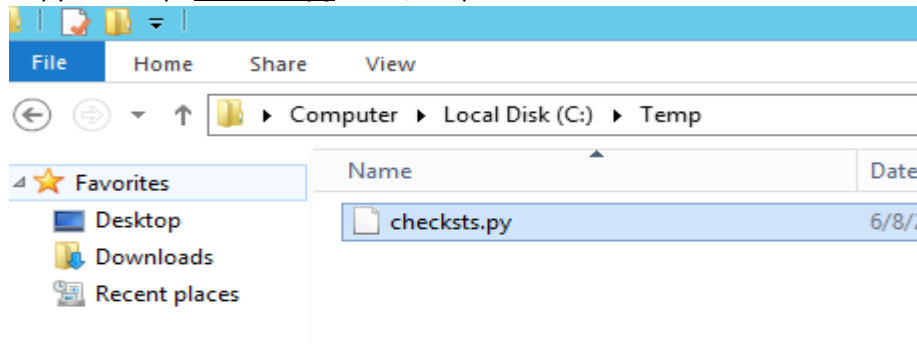
    None

WARNING!
You have expired STS certificates. Please follow the KB corresponding to your OS:
VCSA: https://kb.vmware.com/s/article/76719
Windows: https://kb.vmware.com/s/article/79263

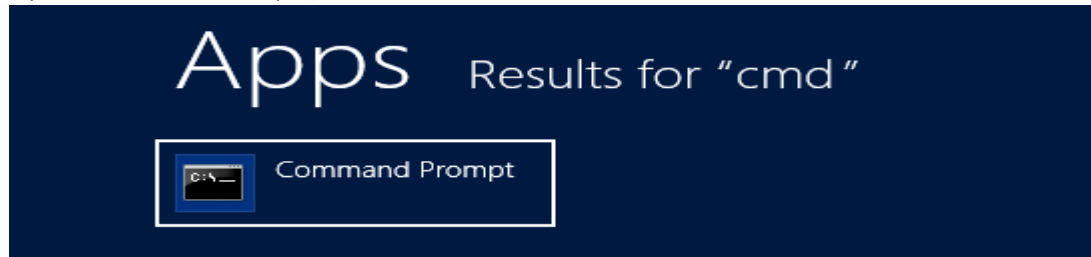
root@vcsal [ /tmp ]#
```

## Steps for Windows vCenter Server

- Copy the script **checksts.py** to C:\Temp folder in Windows vCenter Server



- Open Command Prompt (with Run As Administrator)



- Execute the script using python **"%VMWARE\_PYTHON\_BIN%" C:\Temp\checksts.py**

Sample result:

```
C:\>cd Temp
C:\Temp>"%VMWARE_PYTHON_BIN%" checksts.py
1 VALID CERTS
=====
LEAF CERTS:
None
ROOT CERTS:
[] Certificate 3A:10:3F:72:BA:4B:85:B1:97:39:5D:0F:C9:23:9C:4A:05:91:00:20 will expire in 2850 days (7.0 years).
1 EXPIRED CERTS
=====
LEAF CERTS:
[] Certificate: B0:70:52:E1:16:DB:0D:49:A5:F9:D3:75:46:F3:D6:6D:F6:0C:3A:71 expired on 2020-05-23 13:11:04 GMT!
ROOT CERTS:
None
WARNING!
You have expired STS certificates. Please follow the KB corresponding to your OS:
UCSA: https://kb.vmware.com/s/article/76719
Windows: https://kb.vmware.com/s/article/79263
C:\Temp>
```