SecureAuth IdP Appliance Certificate Renewal Utility (ACRU)

Be sure that all of the **Prerequisites** have been met before installing and running the **ACRU**

For any questions regarding the **Prerequisites** as they pertain to the existing environment, please contact **SecureAuth Support**

Introduction

Use this guide to install, run (update), and confirm the actions of the SecureAuth IdP Appliance Certificate Renewal Utility (ACRU).

The **ACRU** tool is for use on SecureAuth IdP pre-8.1 appliances to update the Operating System (OS) to support SecureAuth's new SHA-2 Cloud Services' infrastructure. ACRU updates all of the certificate information to reflect the SHA-2 hashing algorithm and updates the URLs used by the appliance to communicate with the SecureAuth cloud services.

Prerequisites

1. If SecureAuth IdP is integrated with any VPN or Gateway (Juniper, Cisco, Citrix, F5) using a vendor-specific thick client and a native X.509 personal certificate, then upload the **SHA-2 SecureAuth Public CA Certificates** to the VPN or Gateway, and all client workstations *before* running the ACRU

    If no VPNs or Gateways are integrated with SecureAuth IdP, then the ACRU can be utilized immediately

- SecureAuth recommends that the CA certificates be deployed via an Active Directory Group Policy to ensure that most if not all client systems have the required CA certificates
- Also available is a **Certificates Installer**, which can be downloaded and executed on the end-user's Windows system, to install the certificates in the proper certificate stores
- Manual installation of the certificates can be accomplished by end-users downloading the individual **Root** and **Intermediate** certificate **CRT files** located on the **SecureAuth CA Public Certificates** page

2. If any Firewalls are in place, open the following ports to enable access the necessary IP Addresses and URLs:

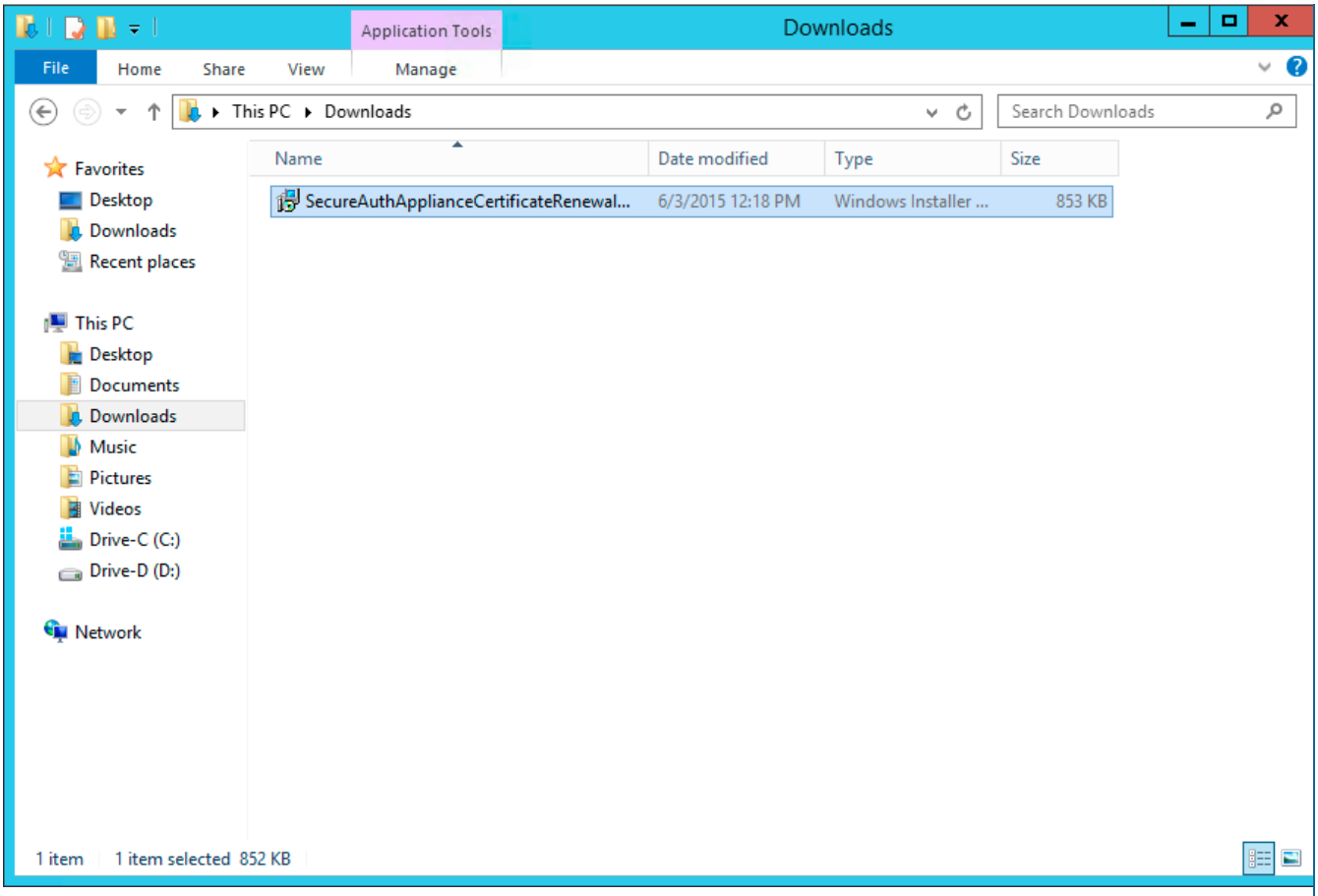
- **TCP 80 and 443 - IP:** 208.82.207.89; **URL:** cloud.secureauth.com / us-cloud.secureauth.com
- **TCP 80 and 443 - IP:** 208.74.31.114; **URL:** trx.secureauth.com / us-trx.secureauth.com
- **TCP 80 and 443 - IP:** 146.88.110.112: **URL:** cloud.secureauth.com / us-cloud.secureauth.com
- **TCP 80 and 443 - IP:** 146.88.110.114; **URL:** trx.secureauth.com / us-trx.secureauth.com
- **TCP 80 and 443 - IP:** 162.216.42.110; **URL:** cloud.secureauth.com / us-cloud.secureauth.com
- **TCP 80 and 443 - IP:** 162.216.42.111; **URL:** trx.secureauth.com / us-trx.secureauth.com
- **TCP 443 -** See **SecureAuth Cloud Services IP Addresses**; **URL:** us-audit.secureauth.com
- **TCP 443 -** See **SecureAuth Cloud Services IP Addresses**; **URL:** us-services.secureauth.com

3. **Download** the **SecureAuth IdP Appliance Certificate Renewal Utility**

- **Filename**: SecureAuthApplianceCertificateRenewalUtility.msi
- **Filesize**: 856 KB (876,544 bytes)
- **MD5 hash**: c15520a622ae207e07be3f67a9ce4535

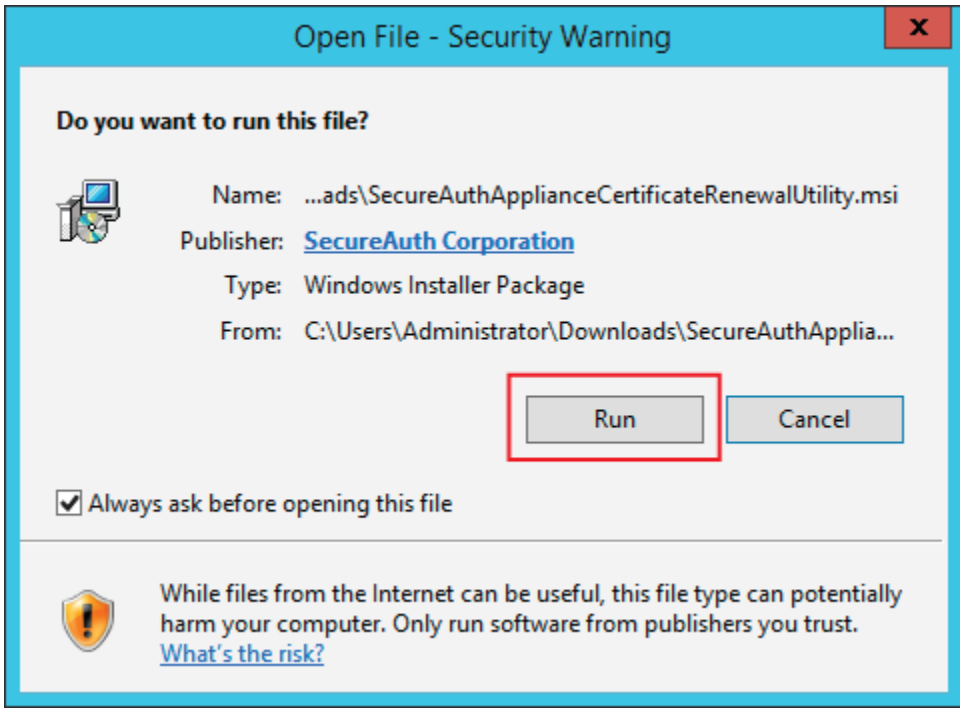
ACRU Steps

ACRU Installation



1. Locate and **open** (double-click) the downloaded ACRU file, **SecureAuthApplianceCertificateRenewalUtility.msi**

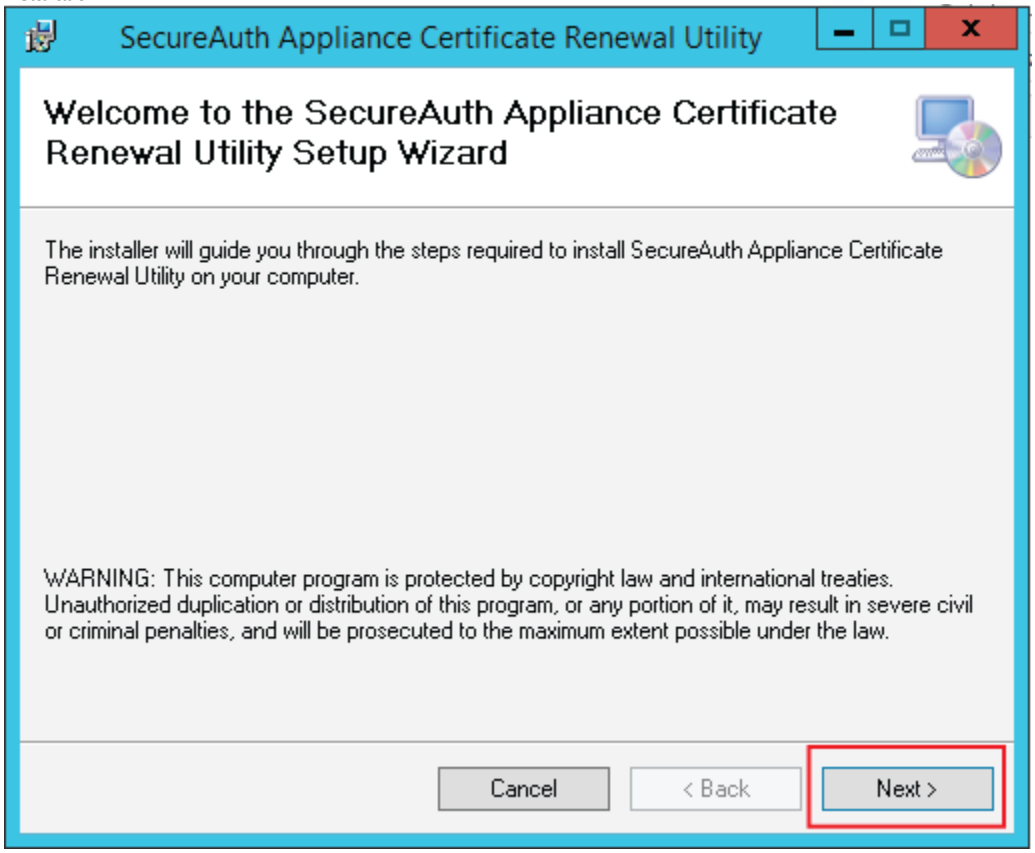
Open File

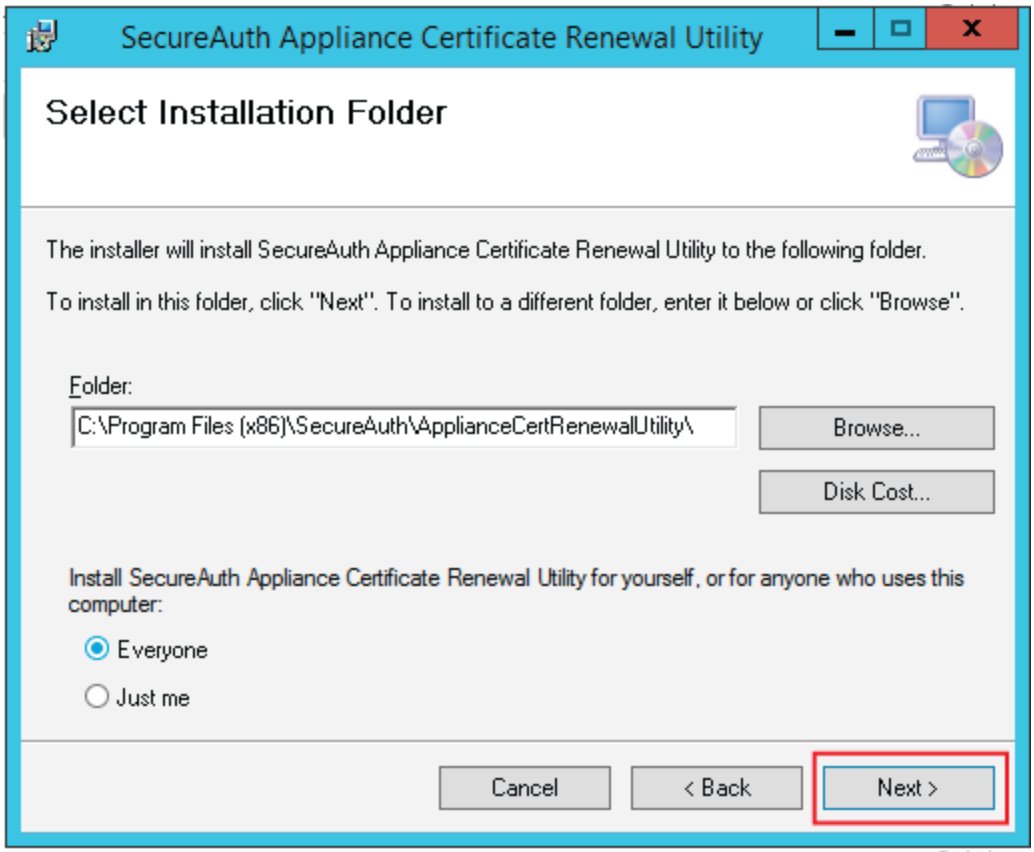


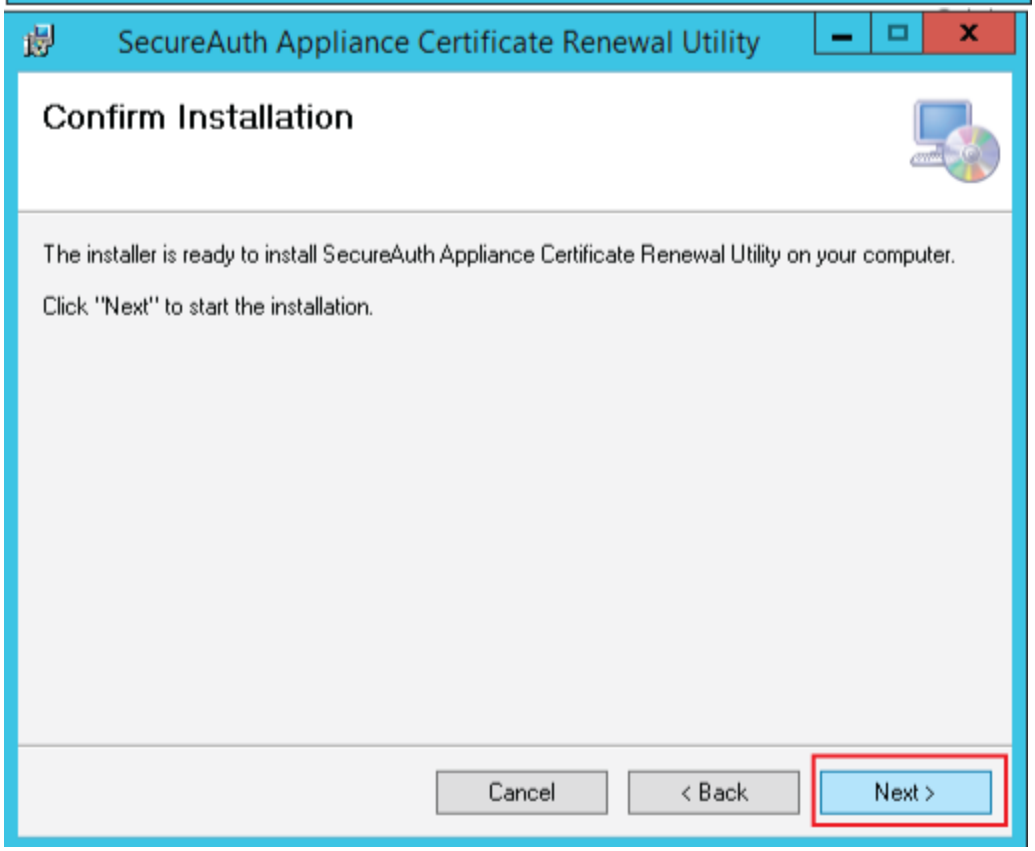
2. Click **Run** to open the file

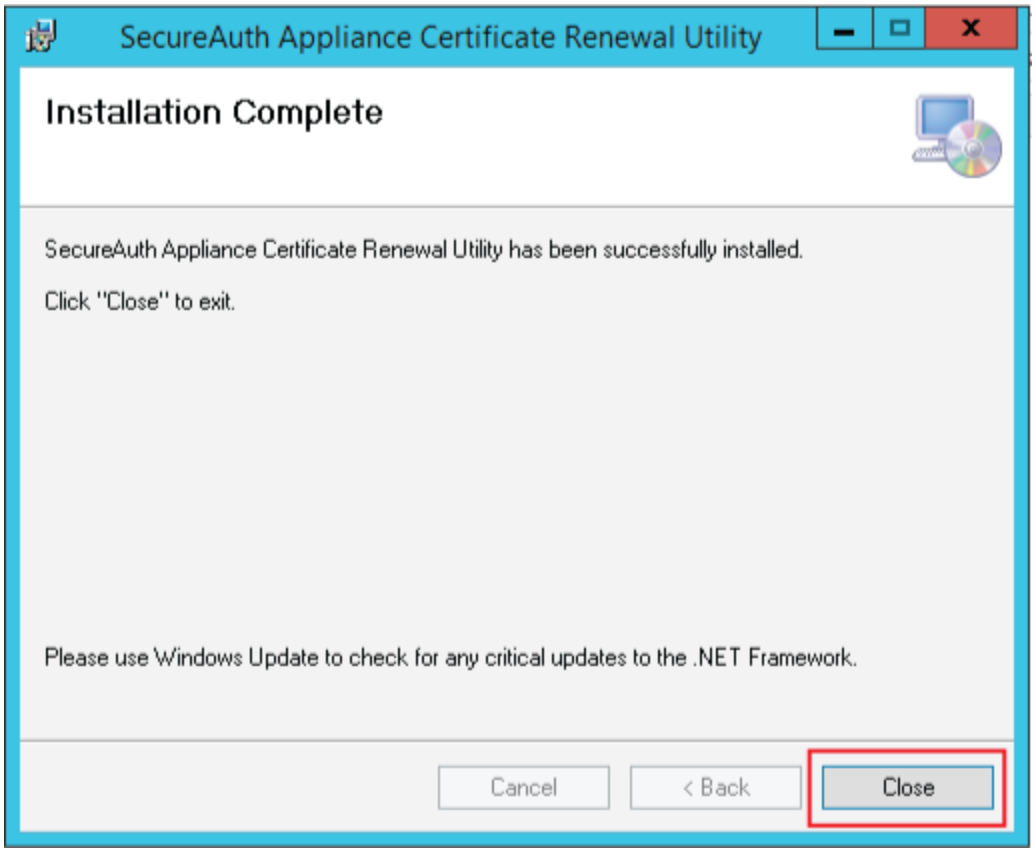
ACRU Installation Wizard

3. Once the **ACRU Installation Wizard** opens, click **Next**
4. Leave the values as default, and click **Next**
5. Click **Next** to confirm the installation
6. Click **Close** to complete the installation

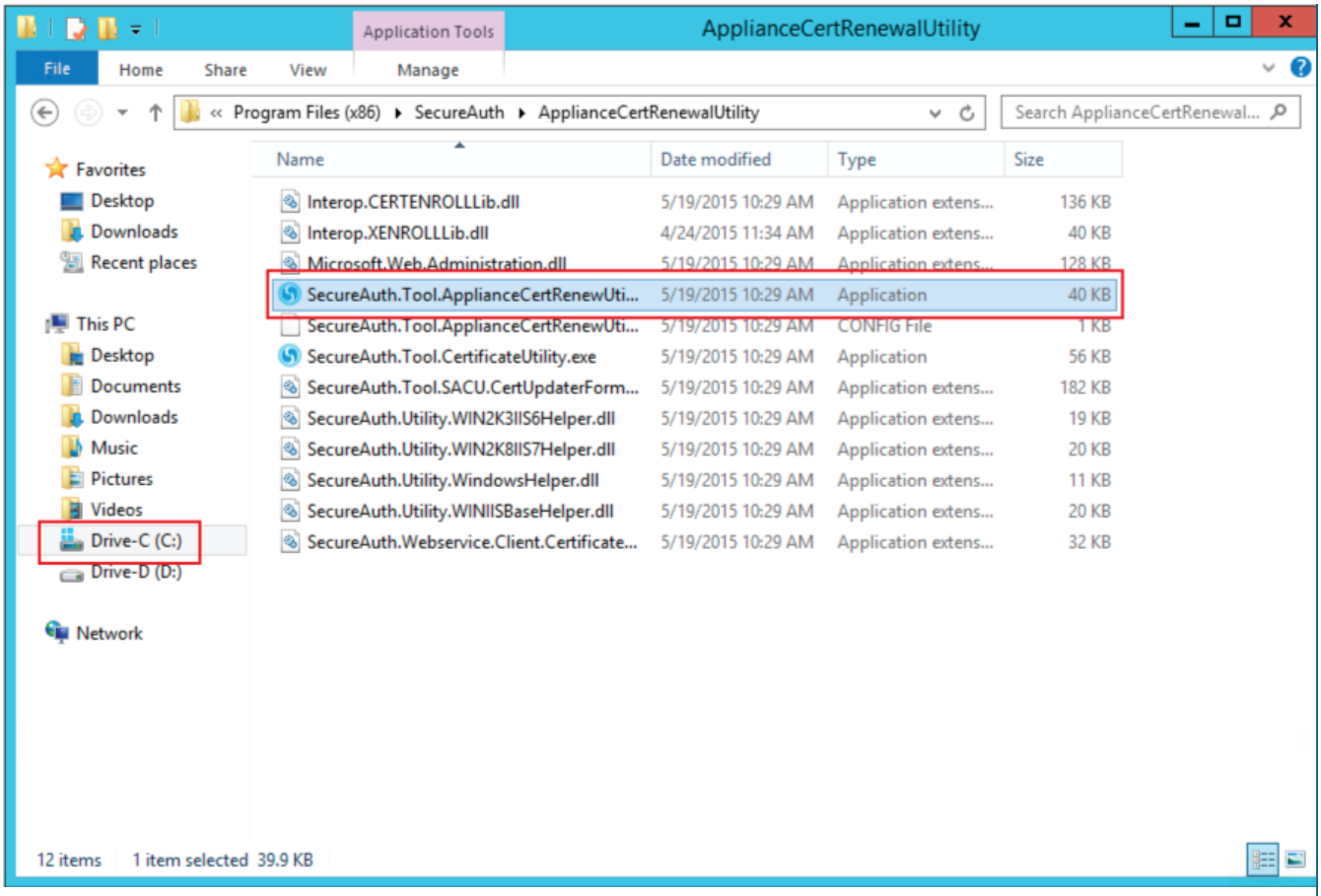



SecureAuth Appliance Certificate Renewal Utility
Select Installation Folder
The installer will install SecureAuth Appliance Certificate Renewal Utility to the following folder.
To install in this folder, click "Next". To install to a different folder, enter it below or click "Browse".
Folder:
C:\Program Files (x86)\SecureAuth\ApplianceCertRenewalUtility\
Browse...
Disk Cost...
Install SecureAuth Appliance Certificate Renewal Utility for yourself, or for anyone who uses this computer:
Everyone
Just me
Cancel
< Back
Next >


SecureAuth Appliance Certificate Renewal Utility
Confirm Installation
The installer is ready to install SecureAuth Appliance Certificate Renewal Utility on your computer.
Click "Next" to start the installation.
Cancel
< Back
Next >


SecureAuth Appliance Certificate Renewal Utility
Installation Complete
SecureAuth Appliance Certificate Renewal Utility has been successfully installed.
Click "Close" to exit.
Please use Windows Update to check for any critical updates to the .NET Framework.
Cancel
< Back
Close

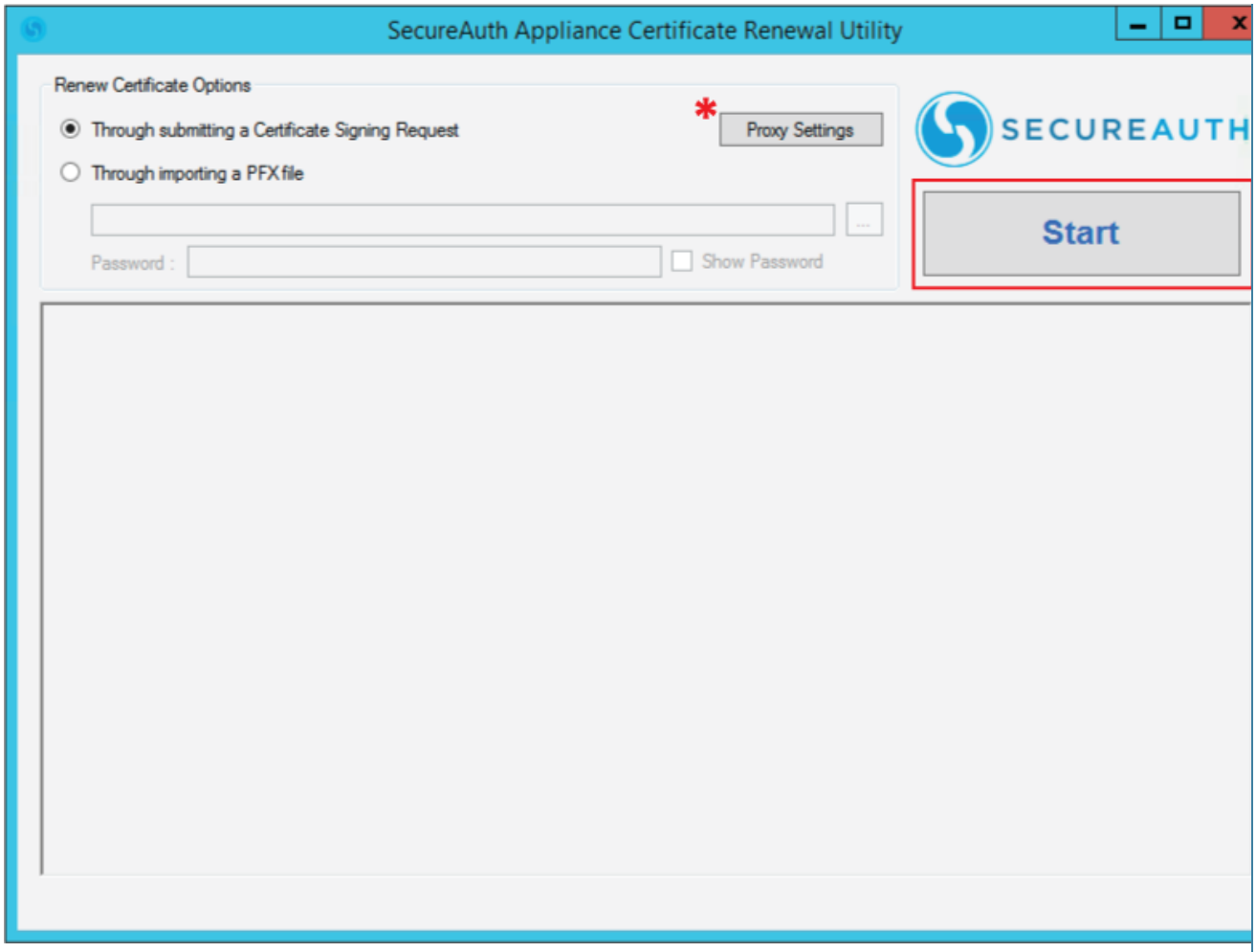
Run ACRU



7. Once the **ACRU Tool** is installed, locate it in **Drive-C -> Program Files (x86) -> SecureAuth -> ApplianceCertRenewalUtility**

8. Open (double-click) the **SecureAuth.Tool.ApplianceCertRenewUtility.exe** file

ACRU Update Wizard

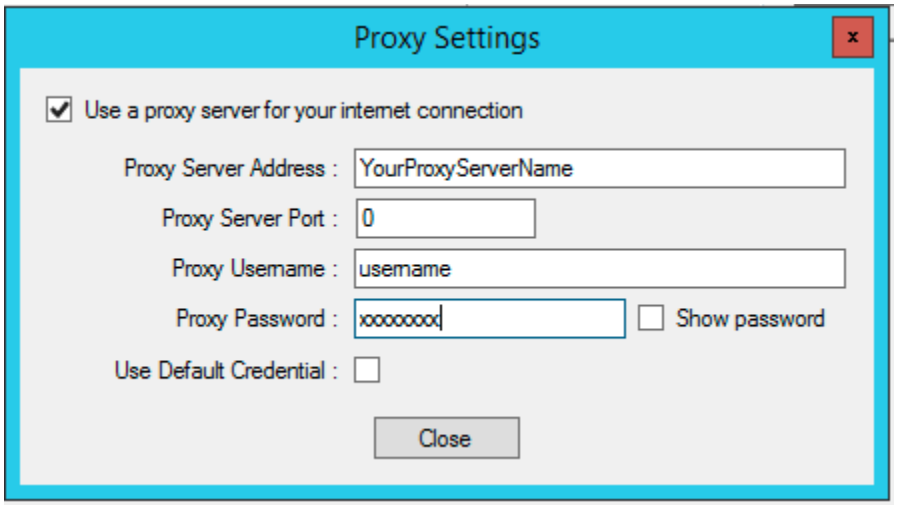

SecureAuth Appliance Certificate Renewal Utility
Renew Certificate Options
Through submitting a Certificate Signing Request
Through importing a PFX file
Proxy Settings
Password :
Show Password
SECUREAUTH
Start

9. Once the **ACRU Update Wizard** opens, leave the configurations as default and click **Start**

Select **Through importing a PFX file** *only if* explicitly instructed to do so by SecureAuth

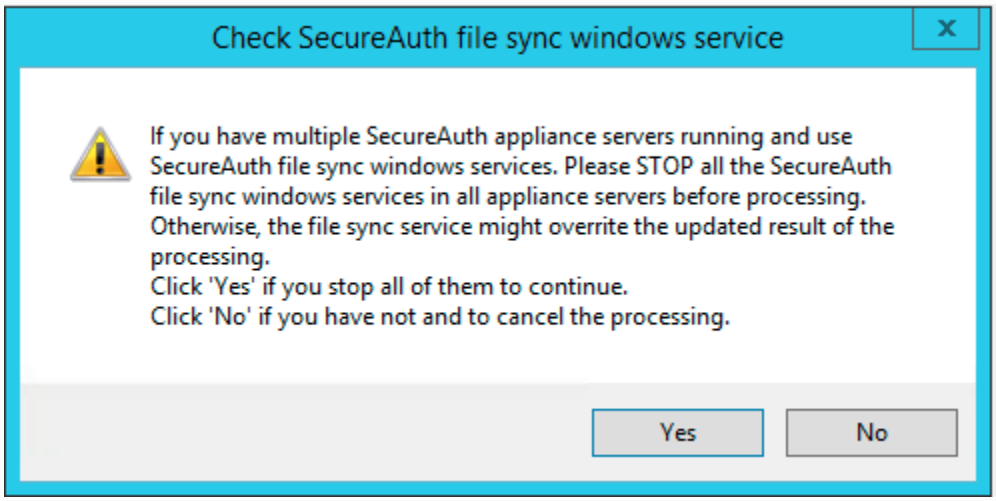
If a proxy is configured on the SecureAuth IdP appliance, click **Proxy Settings** *first*

Proxy Settings

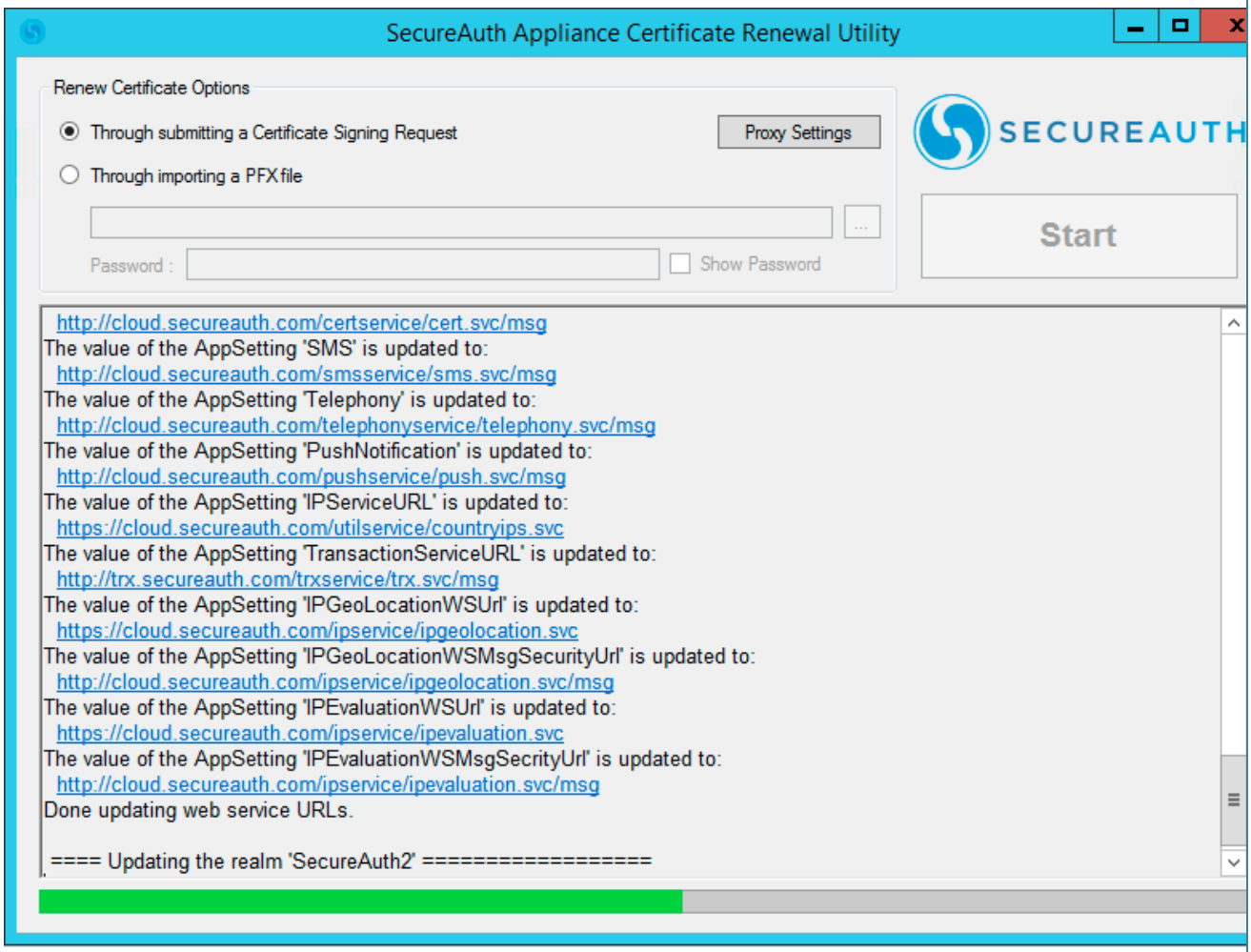


1. Check **Use a proxy server for your internet connection**
2. Provide the **Proxy Server Address**, **Proxy Server Port**, **Proxy Username**, and **Proxy Password**
3. Click **Close**

A **Check SecureAuth file sync windows service** prompt may appear; if so, ensure that all file sync windows services are stopped and click **Yes**

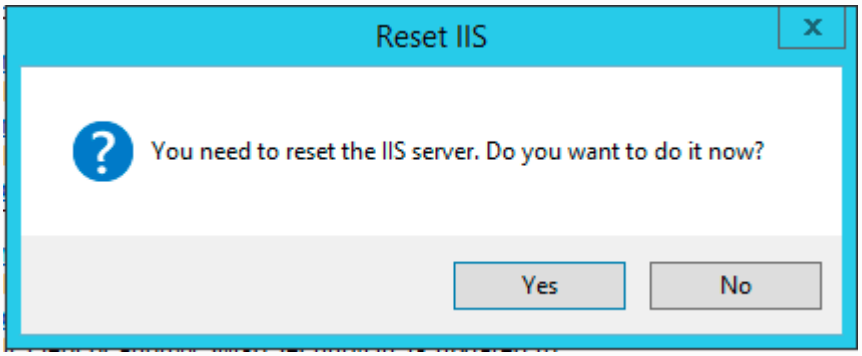


Progress

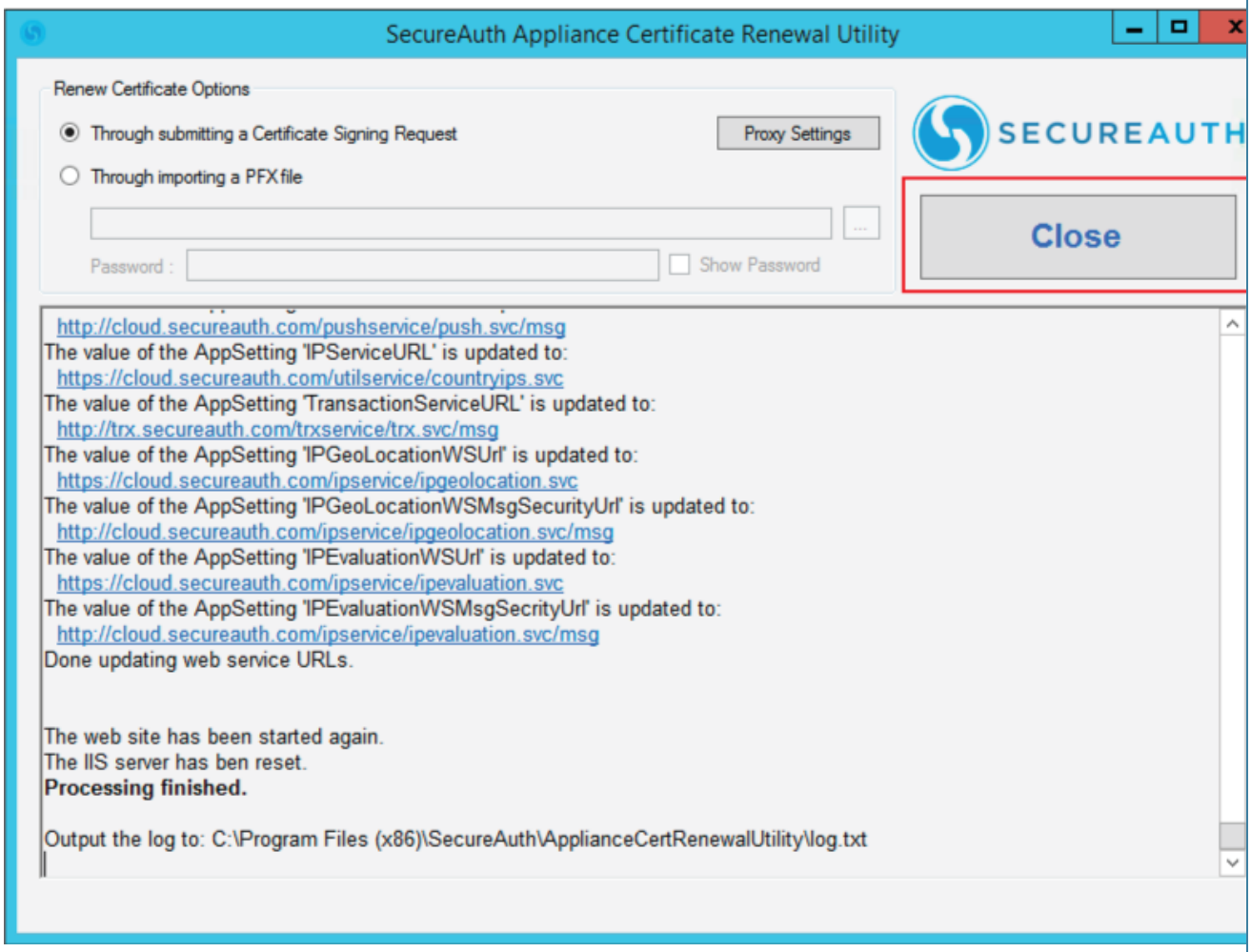


10. Wait for the **ACRU Tool** to update

A **Reset IIS** prompt may appear; if so, click **Yes** to reset IIS

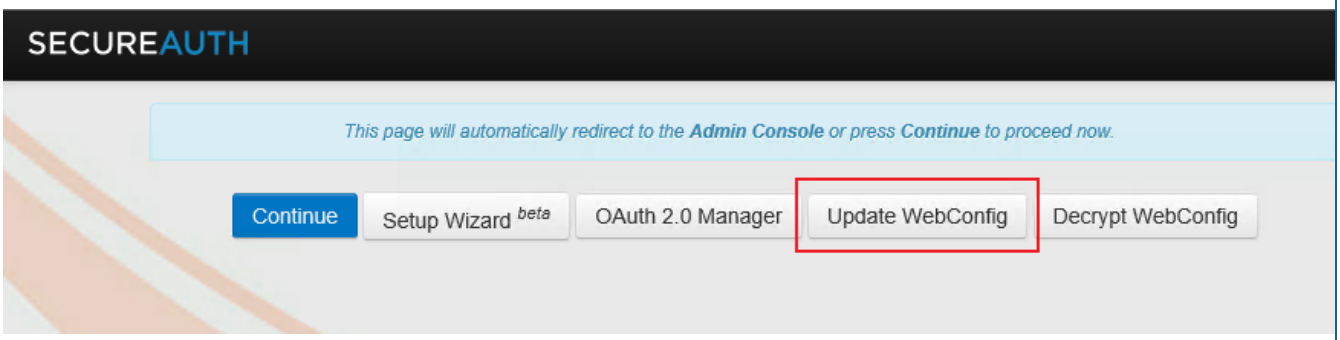


ACRU Update Wizard Complete



11. Once the **ACRU** updates are complete, click **Close**

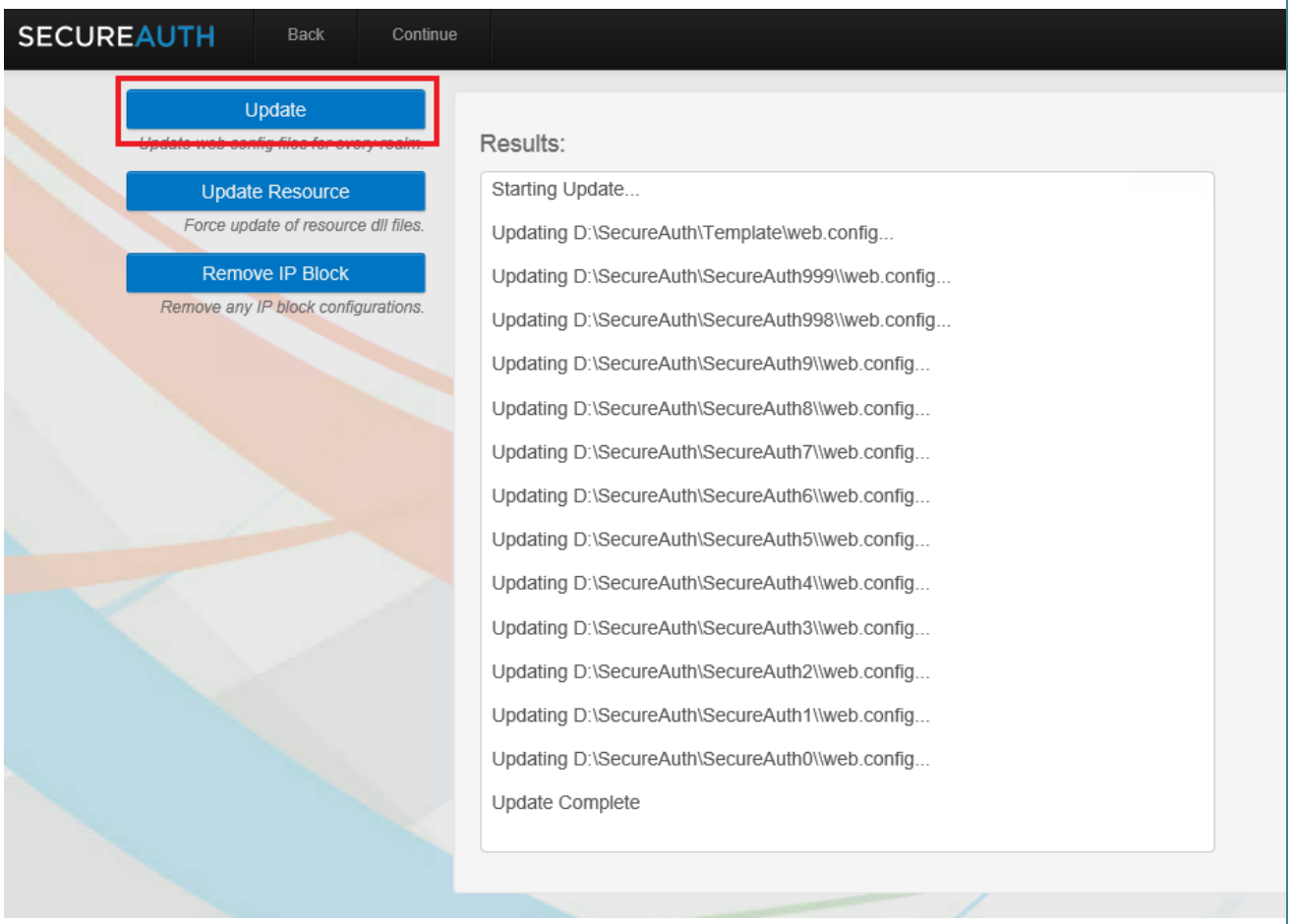
SecureAuth IdP Web Admin



12. Start Internet Explorer and click the **SecureAuth Admin** bookmark

13. On the initial screen, click **Update WebConfig**

Update WebConfig



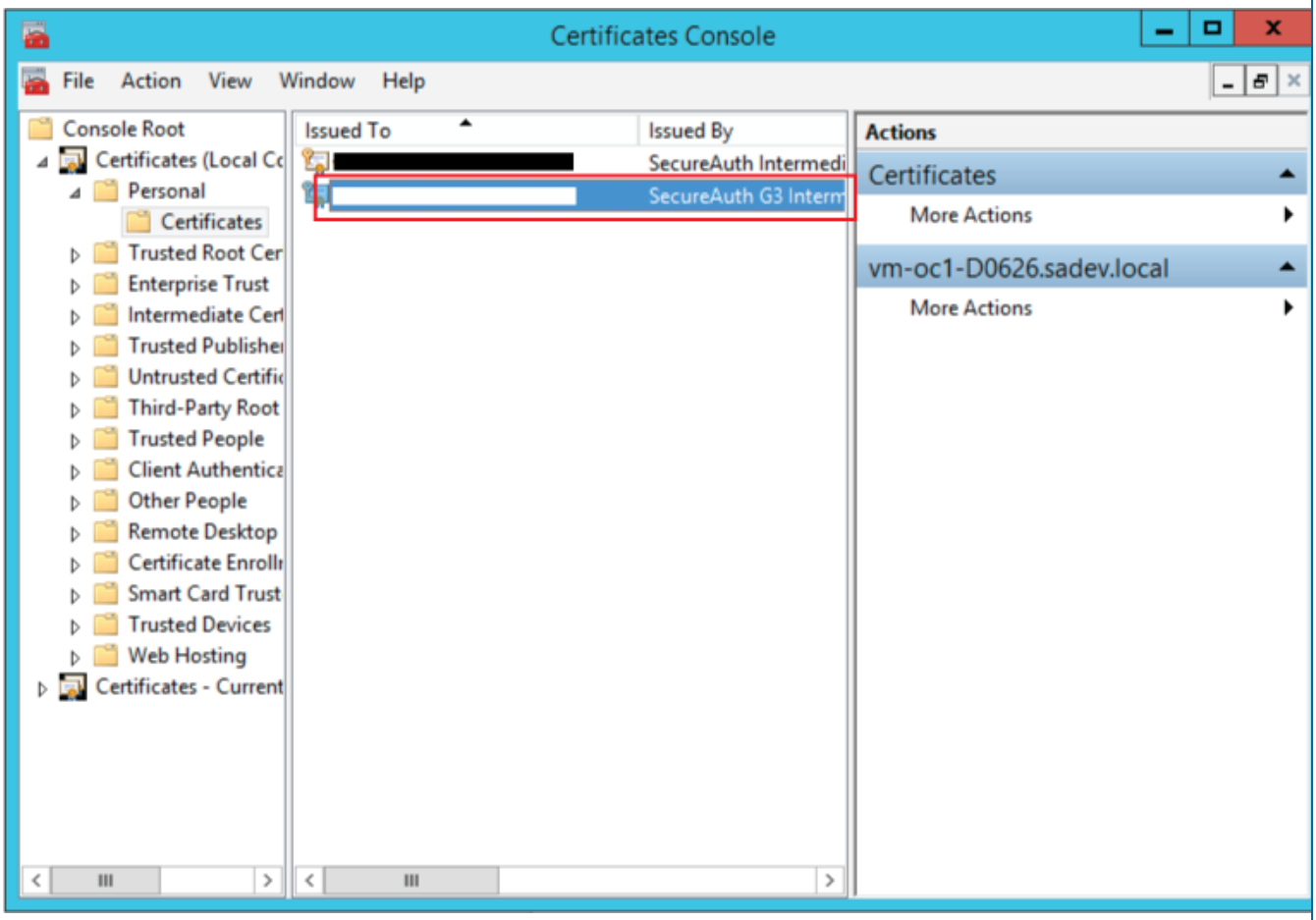
14. Click **Update** and see the **Results** listed and **Update Complete** when it is finished

> For SecureAuth IdP versions 8.0.0 and earlier, the **Transaction (Trx) Log URL** must be modified to avoid license errors
>
> See **below** for more information

Confirm Changes

Once the installation and update has been completed, confirm that the changes have been applied to the appliance's OS

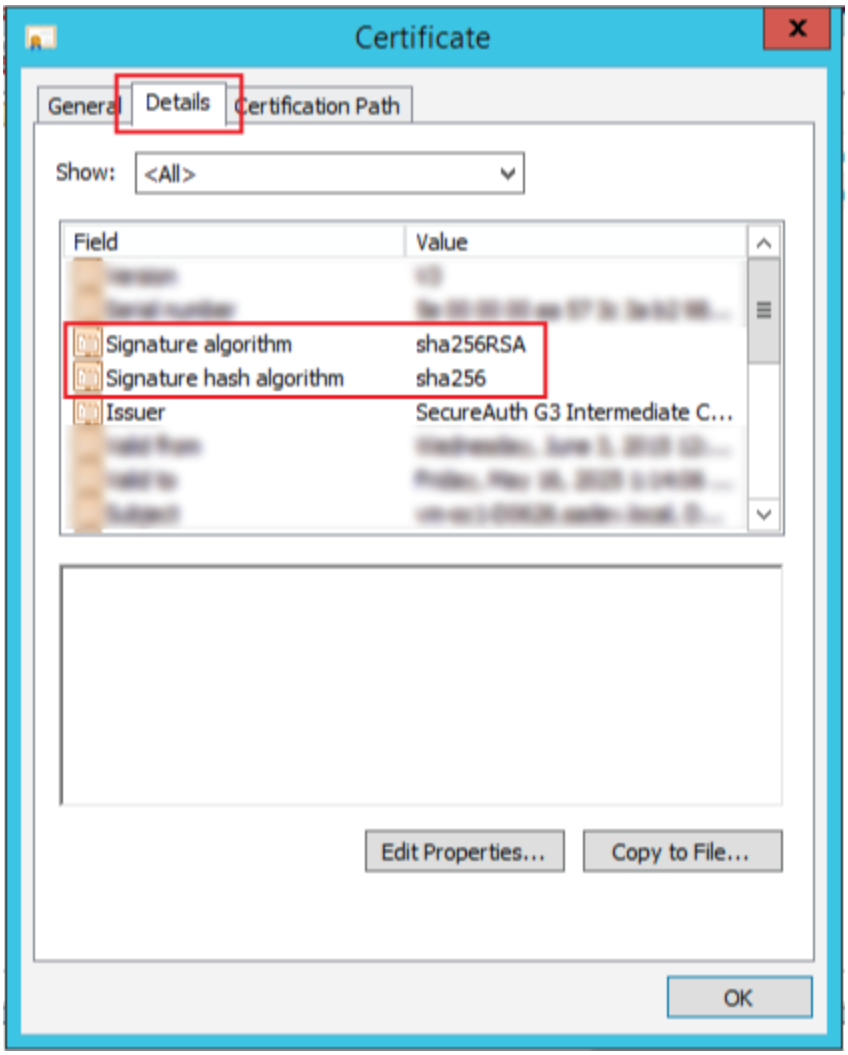
Certificates Console



In the **Certificates Console**, open (double-click) the **SecureAuth G3** certificate

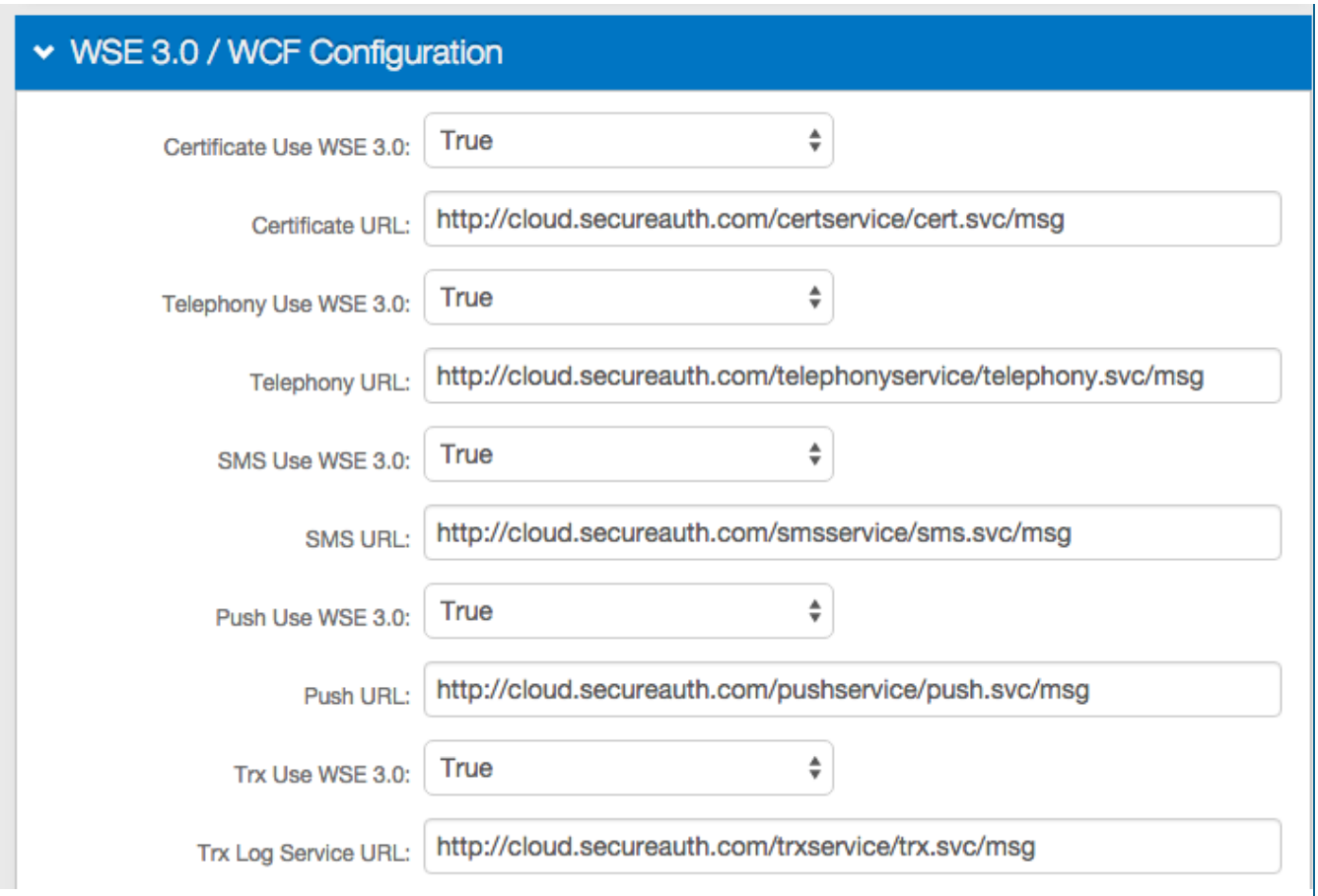
> Old SHA-1 certificates may still be present in the **Certificates Console**, so be sure to select the correct one

Certificate Details



In the **Details** section, ensure that the **Signature algorithm** is **sha256RSA**, and that the **Signature hash algorithm** is **sha256**

SecureAuth IdP Web Admin - System Info

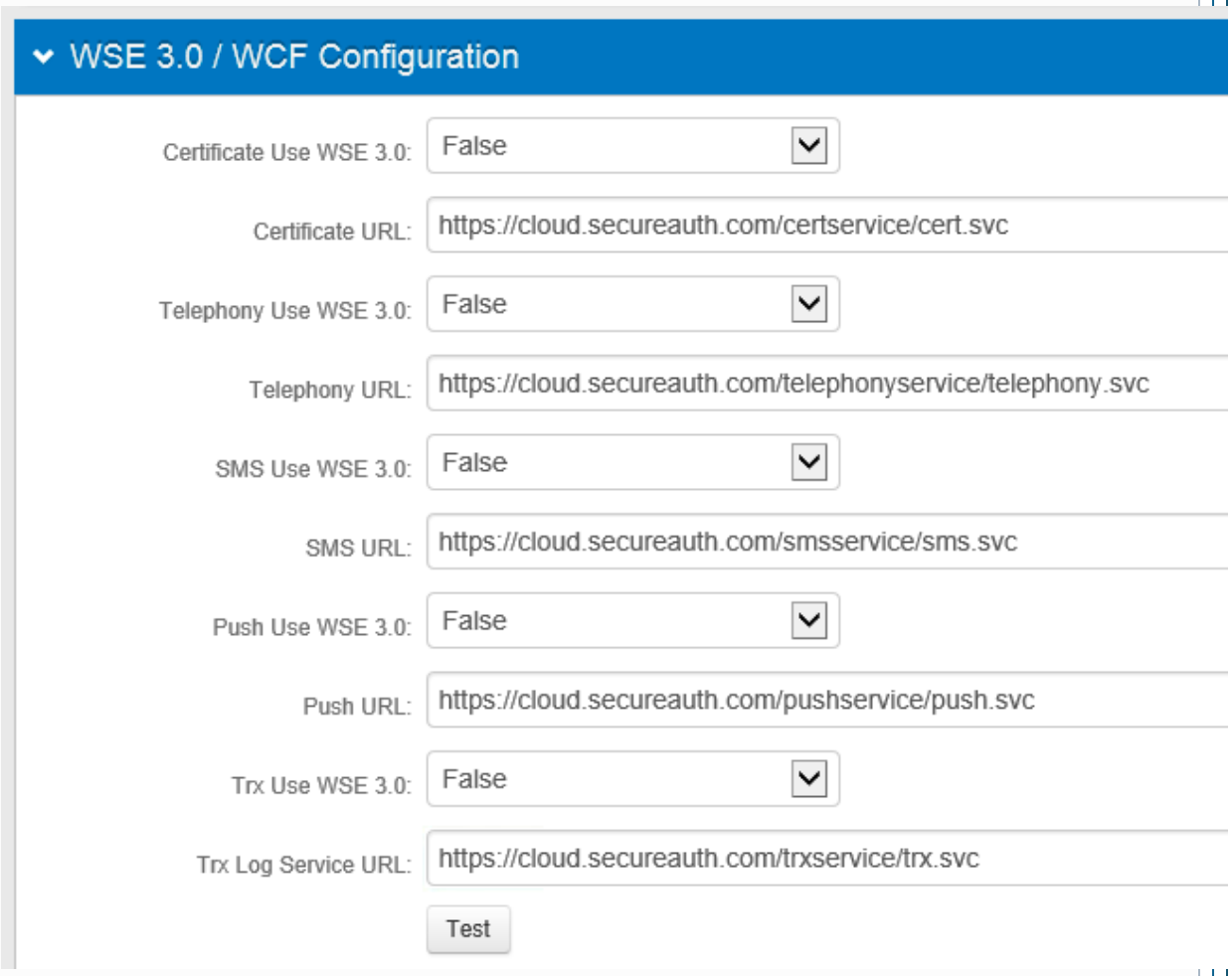


In the SecureAuth IdP Web Admin, in the **System Info** tab, the URLs in the **WSE 3.0 / WCF Configuration** section are updated to properly communicate with the SecureAuth cloud services

For SecureAuth IdP versions 8.0.0 and earlier, in the **Admin Realm (SecureAuth0)**, set the **Trx Log Service URL** to **http://cloud.secureauth.com/trxservice/trx.svc/msg** if **True** is selected from the **Trx Use WSE 3.0** dropdown

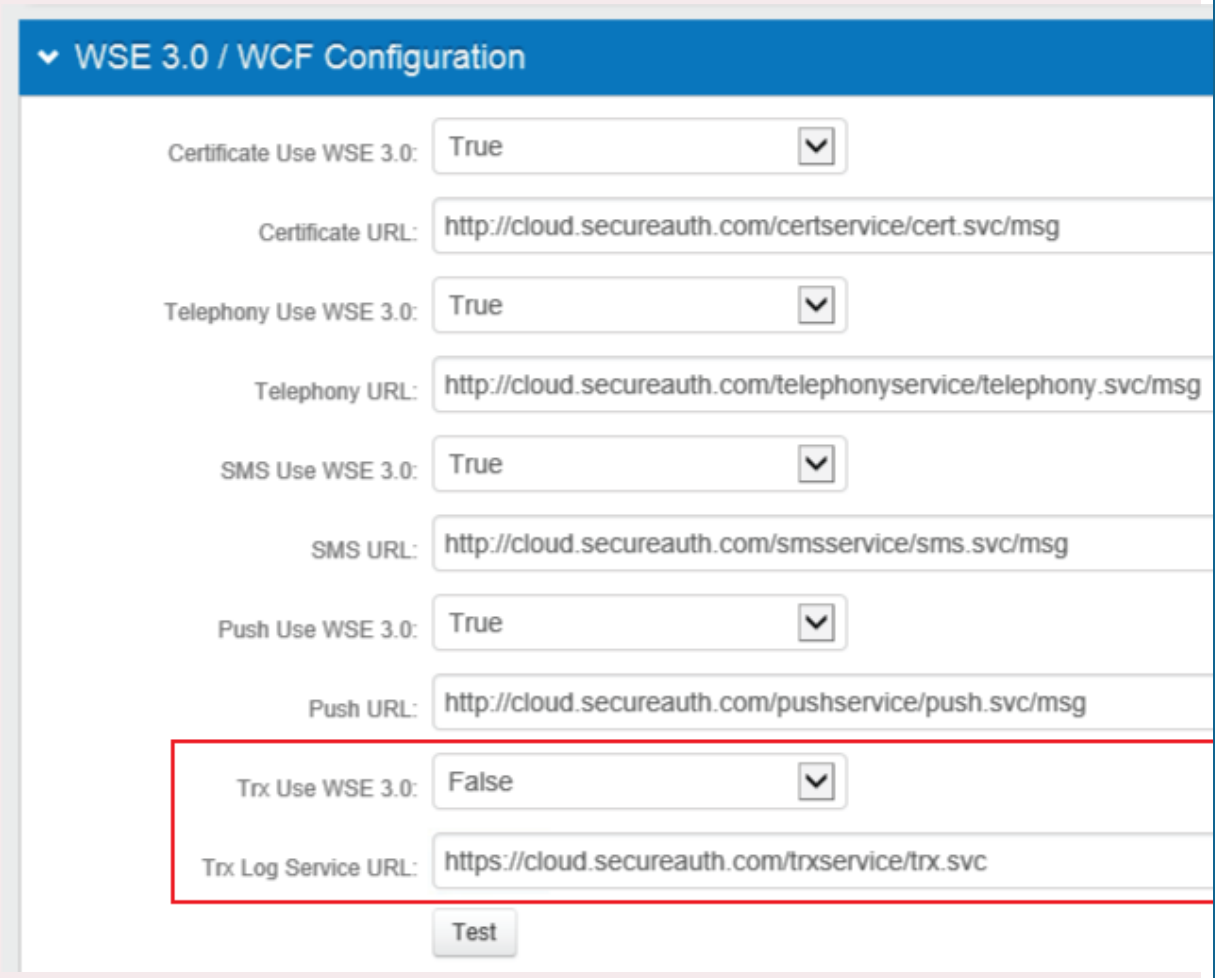
Set the **Trx Log Service URL** to **https://cloud.secureauth.com/trxservice/trx.svc** if **False** is selected from the **Trx Use WSE 3.0** dropdown

If a proxy is already configured on the appliance, the **WSE 3.0** dropdowns and **URLs** are updated accordingly



Refer to **Web Proxy Server Configuration Guide** for more information

SecureAuth recommends to select **False** from the **Trx Use WSE 3.0** dropdown, and set the **Trx Log Service URL** to **https://cloud.secureauth.com/trxservice/trx.svc** to utilize HTTPS encryption rather than Message Level Encryption (msg)



Related Documentation

- SecureAuth Cloud Services
- SecureAuth ACRU Lite