# **Certificate Manual**

We remind you that this manual is unique and exclusive, this manual will explain the steps taken in the last certificate exchange.

**WARNING**: We remind you once that the steps described on the document reflect the work performed on the last certificate renewal. It does not necessarily mean the next time it will be the same case. There might be different or additional steps.

We will proceed with the steps we performed last time to change the certificates, and next, we will show you images of how to do all these steps.

- 1. Keystore Explorer application.
- 2. WinSCP/FileZilla application.
- 3. New certificate.
- 4. Import the old ".keystore" file into the Keystore Explorer application.
- 5. Go to the Keystore Explorer application where the old ".keystore" will be and we will exchange the old certificate for the new one inside that ".keystore" key.
- 6. Import the Root certificate and the Intermediate one.
- 7. Save the new ".keystore" to a folder.
- 8. Import the new ".keystore" into the appliance.
- 9. Access the appliance by putty or other SSH.
- 10. Import the certificate from the CMI menu.
- 11. Restart Tomcat for the import to be successful.
- 12. Check if Tomcat is running, and verify that everything is working normally after importing the new certificate.

#### 1. Keystore Explorer Application.

You can download the Keystore Explorer application for free from the official site:

https://keystore-explorer.org/downloads.html

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No KeyStore Loaded		

2. WinSCP Application.

You can download the WinSCP application for free from the official site:

https://winscp.net/eng/download.php



## Log into the appliance via WinSCP to fetch/grab the ".Keystore" file.

The old/in-use .keystore that needs to be renewed is in the "/home/swivel" folder.

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We remind you that if you are not seeing the .keystore, it is because you have to activate the option "Show Hidden Files - (Ctrl+Alt+H) in the "Panels" menu in the settings.

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After getting the ".keystore" into your computer, rename it to ".keystore-old" so we can identify it and differentiate it from the future new ".keystore".

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keystore-old	3 KB	KEYSTORE-OLD File	5/5/2021 8:26:07 AM	java		7/8/2015 3:42:08 PM	rwxrwxr-x	swivel	
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#### 3. Need to have the new certificate.

Warning: The certificate we will show in this manual, is just an example of a certificate.

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hanual images	5/5/2021 9:34 AM 5/5/2021 8:26 AM	File folder KEYSTORE-OLD File		3 KB	General Details Certification Path
keystore-old	5/5/2021 8:26 AM 10/26/2020 8:41 AM	KEYSTORE-OLD File Security Certificate		3 KB 3 KB	Certificate Information This certificate is intended for the following purpose(s): Proves your identity to a remote computer Ensures the identity of a remote computer 3.3.6.1.4.1.6449.1.2.2.7 2.23.140.1.2.1 * Refer to the certification authority's statement for details. Issued to: *.swiveldoud.com
					Issued by: Sectigo RSA Domain Validation Secure Server CA Valid from 10/24/2020 to 11/24/2021 Install Certificate Issuer Statement

### 4. Import the old ".keystore" into the Keystore Explorer application.



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CERT								
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🔿 Network 🗸 🗸								
File na	me: .keystore-old			~	All Files (*.*)			~
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	VouCtors Evalues         Unlock KeyStore '.keystore-old'         Enter Password:         Enter Password:         OK         Cancel         tore         Open the CA         Certificates KeyStore         Certificates KeyStore		

It will ask you for the Keystore password, which by default by SwivelSecure is "lockbox".

When you enter the password and open ".keystore-old", it should look like this:

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🃅 🚊 🖷 swivel	RSA	2048	11/23/2021 11:59:59 P	10/26/20	20 9:52:2	2 A
KeyStore Type: 1KS_Size: 1 entry_Path: 'C:\Users\marco\De	skton\CERT\m	anual\ keysto	vre-old'			

Next, we have to unlock the Keystore entry by doing the following steps:

🍌 .keystore-old -	KeySt	tore Explorer 5.4.4					_		×
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	D	Сору	Ctrl+C						
	1	Export		>					
	F	Generate CSR							
	*	Import CA Reply		>					
	9	Edit Certificate Chain		>					
	7.u <b>/</b>	Sign		>					
	ſ	Unlock							
		Set Password							
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Unlock the Key Pair en	trv								

It will ask for a password that should be "lockbox" by default

🚴 .keystore-old - KeyStore Explorer 5.4	1.4				_		$\times$
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🃅 🔒 😐 swivel		RSA	2048	11/23/2021 11:59:59 P	10/26/20	020 9:52:	22 A
	Unlock Entry	y'swivel'	Car				

After entering the password, we can confirm that the Entry has been unlocked by the Padlock symbol:



We recommend that you also check the KeyStore Type, which should be **JKS**, you can see in the following image where to check the Type:



#### 5. Export the old certificate to a folder.

After checking the KeyStore Type, it's time to export the certificate from the Keystore to a folder.

We can do this by accessing the **Certificate Chain Details**, and this can be done in two ways, we can **right-click** on the Keystore Entry Name "**swivel**", go to "**View Details**" and click on "**Certificate Chain Details**" or we can just **double-click** on the KeyStore Entry Name "**swivel**" and the Certificate Chain Details will open.

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	Certificate Details for	Entry 'swivel'					×		
	Certificate Hierarchy:								
	🁮 *.swivelcloud.com								
	Version:	3							
	Subject:	CN=*.swivelclou	id.com						
	,								
	Issuer:	CN=Sectigo RSA	Domain Validati	on Secure Serv	er CA,O=Secti	go Li 🧕			
	Serial Number:	0xCC4C99D5BE6	51B62BCAA6853	315127C036					
	Valid From:	10/24/2020 1:00	0:00 AM BST						
	Valid Until:	11/23/2021 11:5	59:59 PM GMT						
	Public Kev:	RSA 2048 bits		7					
	r dbire rrey.			B					
Display details of the Ke	Signature Algorithm:	SHA256WITHRS	A						
	Fingerprint:	SHA-1 $\lor$	AB:20:05:FE:	EE:9A:3A:9A:3	8:15:98:DE:6E	:A9:DE			
			Export	Extensi	ons PEN	ASN.1			
						OK			

We remind you that this certificate in the manual was generated just for this purpose.

	Certificate Details for Entry 'swivel'
	Certificate Hierarchy:
	Reference in the second
	Version:       3         Subject:       CN=*.swiveldoud.com         Issuer:       CN=Sectigo RSA Domain Validation Secure Server CA,O=Sectigo Li         Serial Number:       0xCC4C99D5BE61B62BCAA685315127C036         Valid From:       10/24/2020 1:00:00 AM BST         Valid Until:       11/23/2021 11:59:59 PM GMT         Public Key:       RSA 2048 bits         Signature Algorithm:       SHA256WITHRSA         Fingerprint:       SHA-1         Valid Evenct       Extensions
Export Cer	ificate from entry '*.swivelcloud.com (Sectigo RSA Domain Validat $ imes$
Export For	mat: • X.509 $\bigcirc$ PKCS #7 $\bigcirc$ PKI Path $\bigcirc$ SPC PEM: $\checkmark$
Export	File: igo_RSA_Domain_Validation_Secure_Server_CAcer
	<u>Export</u> Cancel

Now we have to export the certificate to a folder.

Chose the fold you want to export the ".Keystore-old" certificate and rename it.

Choose Certificate Export File							×
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Organize 🔻 New folde	r					:== ▼	?
🖺 Documents 🖈 ^	Name	Date modified	Туре	Size			
📰 Pictures 🛛 🖈	manual images	5/5/2021 12:24 PM	File folder				
CERT	.keystore-old	3/22/2021 6:13 PM	KEYSTORE-OLD File		7 KB		
- manual	🔄 new-certificate for manual example.cer	10/26/2020 8:41 AM	Security Certificate		3 KB		
📙 manual images							
PKCS7 File							

6. Go to the Keystore Explorer application where the old ".Keystore" will be and we will exchange the old certificate for the new one inside the old ".Keystore" key.

Now you have to exchange the old certificate for the new one we made.



*	manual images	5/6/2021 11:00 AM	File folder		
*	.keystore-old	5/6/2021 10:22 AM	KEYSTORE-OLD File		3 KB
lat [	new-certificate for manual example.cer	10/26/2020 8:41 AM	Security Certificate		3 KB
E	🙀 new-keystore-certificate.cer	5/6/2021 11:00 AM	Security Certificate		3 KB
is 🗖					
-1					
all					
~					
File name:	new-keystore-certificate.cer			~	All Files (*.*)
					Open



Now we have the new CA in the Keystore.

#### Import the Root certificate and the Intermediate one

You have to import the root certificate and the intermediate to complete the certificate path for it to be complete for importing into the appliance.

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	View Details	>			
~	Cut	Ctrl+X			
Ē	Сору	Ctrl+C			
<u> </u>	Export	>			
	Generate CSR				
	Import CA Reply	>			_
9	Edit Certificate Chain	] {	۶,	Append Certificate	
7	Sign	,	<b>£</b>	Remove Certificate	:

The steps are as follows:

🔄 Intermediate.crt	10/26/2020 8:41 AM	Security Certificate	2 KB
🔄 new-certificate for manual example.cer	10/26/2020 8:41 AM	Security Certificate	3 KB
📮 Root.crt	10/26/2020 8:41 AM	Security Certificate	3 KB
e: Root.crt			✓ All Files (*.*)
			Open

Append Certificate	$\times$
Append Certificate Successful.	
ОК	

swivel			RSA	2	048	11/23/2021	11:59:59
	Q	View Details	3	2	Certific	ate Chain Det	ails
	×	Cut	Ctrl+X	9	Private	Key Details	
	L)	Сору	Ctrl+C	¥.	Public	Key Details	

#### Certificate Details for Entry 'swivel'

Certificate Hierarchy:		
👮 Sectigo RSA Domain Va	idation Secure Server CA	
👮 *.swivelcloud.com		-

Now the Keystore already has the Root certificate, but the intermediate still missing:



📮 Intermediate.crt	10/26/2020 8:41 AM	Security Certificate	2 KB
🔄 new-certificate for manual exa	mple.cer 10/26/2020 8:41 AM	Security Certificate	3 KB
🔄 Root.crt	10/26/2020 8:41 AM	Security Certificate	3 KB

ime:	Intermediate.crt ~	All Files (*.*)
		Open

swivel			RSA	2	048 11/23/2021 11:59:	59
	Q	View Details	;		Certificate Chain Details	
	×	Cut	Ctrl+X	2	Private Key Details	
	D,	Сору	Ctrl+C	1	Public Key Details	

Certificate Details for Entry 'swivel'							
Certificate Hierarchy:							
👮 USERTrust RSA Certification A	Authority						
🖃 👷 Sectigo RSA Domain Validation Secure Server CA							
🦙 🁮 *.swivelcloud.com							
26							

Now the Keystore is compiled and almost ready to be stored and imported into the appliance.

Now we recommend doing some important steps before saving our new ".keystore".

We will start by checking the "Entry Name - Alias" of the certificate and the password of the certificate and the ".keystore".



You will have to rename the alias to "swivel"

New Entry Alias				
Enter Alias: swivel				
ОК	Cancel			

Next, you have to verify the passwords.

Start with the "Key Pair Entry Password":



The "Key Pair Entry Password" must be "lockbox".

Set Key Pair Entry Password					
Enter Old Password:	•••••				
Enter New Password:	•••••				
Confirm New Password:	•••••				
	OK Cancel				



Then check the Keystore password:

A starter with the second starter of the second starter in the second starter in the second starter is the second starter in the second starter in the second starter is the second starter in the second starter is the second starter in the second starter is the sec							
File Edit View Tools Examine Help							
🗋 🖻 🔜 🔄	R	- Generate Key Pair	Ctrl+G	e			
.keystore-old *	94	Generate Secret Key	Ctrl+Alt+G				
	鳧	Import Trusted Certificate	Ctrl+T	F			
	R	Import Key Pair	Ctrl+K				
	••	Set KeyStore Password	Ctrl+P				
	2	Change KeyStore Type		>			
1	0	KeyStore Properties	Alt+Enter				
		Preferences	Ctrl+Comma				

The

Password" must be "lockbox".

Set KeyStore Password		×
Enter New Password:	•••••	
Confirm New Password:	•••••	
	ОК	Cancel

"KeyStore



Now the certificate is ready, all you have to do is save it.

# 7. Save the new ".keystore" to a folder.



The certificate should be named ".keystore".

F	.keystore-old	5/6/2021 10:22 AM	KEYSTORE-OLD File	3 KB
anual	🔄 Intermediate.crt	10/26/2020 8:41 AM	Security Certificate	2 KB
anual images	🔄 new-certificate for manual example.cer	10/26/2020 8:41 AM	Security Certificate	3 KB
eDrive	🙀 Root.crt	5/24/2021 10:23 PM	Security Certificate	3 KB
nexos de email				
ocumentos				
nagens				
PC				
work 🗸				
File name .keysto	re			
ve as type: All Files	(*.*)			
olders				Save

Now you will have the certificate ready to be imported into the appliance.

8 Import the new .Keystore to the appliance

Now by WinSCP, we have to access the appliance and go to the folder /backups/upload.

📮 soc 🗙 💣 New Session									
📃 Desktop 🔹 🧉	💶 Desktop 🔹 🚰 🗸 🛐 🗸 🐗 🗸 🔶 👔 🔂 🔂 🔁 💁					] •   🔶 •	🔶 - 🖻 🗖 🏠 🛃	🔍 Find Files	2.
🗐 Upload 👻 🌈 Edit 👻 🛃 🔓 Properties 🎽 New 🗸 🗄 🖃 💟					🛛 📄 Download 👻 📝 Edit	- 🗙 🚮	Properties 🍯 New -	+ - V	
C:\Users\marco\Desktop\Cl	ERT\manual\				/backups/upload/				
Name	Size	Туре	Changed		Name	Size	Changed	Rights	Owner
<b>t</b> _1		Parent directory	5/24/2021 10:33:23 PM		<b>⊾</b>		5/24/2021 4:50:02 AM	rwxr-xr-x	root
🔤 manual images		File folder	5/24/2021 10:33:11 PM		Nova pasta		3/22/2021 5:41:31 PM	rwxrwxr-x	admin
🗞 .keystore	6 KB	KEYSTORE File	5/24/2021 10:33:23 PM		🗞 .keystore	11 KB	11/2/2020 4:34:45 AM	rw-rw-r	admin
.keystore-old	3 KB	KEYSTORE-OLD File	5/6/2021 10:22:07 AM		AAACertificateService	2 KB	1/1/2004 12:00:00 AM	rw-rw-r	admin
🔄 Intermediate.crt	2 KB	Security Certificate	10/26/2020 8:41:46 AM		📔 new 9.txt	3 KB	3/22/2021 5:56:41 PM	rw-rw-r	admin
🔄 new-certificate for m	3 KB	Security Certificate	10/26/2020 8:41:46 AM		🔄 sar_at_gov_pt.crt	3 KB	3/19/2021 12:00:00 AM	rw-rw-r	admin
Root.crt	3 KB	Security Certificate	5/24/2021 10:23:29 PM		🔄 SectigoRSAOrganizati	3 KB	11/2/2018 12:00:00 AM	rw-rw-r	admin
					SERTrustRSAAAACA	2 KB	3/12/2019 12:00:00 AM	rw-rw-r	admin

Rename the old ".Keystore" file to ".Keystore\_old".

C:\Users\marco\Desktop\CERT\manual\ /				/backups/upload/			
Name	Size	Туре	Changed		Name	Size	Changed
<b>±</b>		Parent directory	5/24/2021 10:33:23 PM		±		5/25/2021 4:4
🔤 manual images		File folder	5/24/2021 10:46:12 PM		Nova pasta		3/22/2021 5:4
条 .keystore	6 KB	KEYSTORE File	5/24/2021 10:33:23 PM		🗞 .keystore	11 1/10	11/2/2020 4.2
.keystore-old	3 KB	KEYSTORE-OLD File	5/6/2021 10:22:07 AM		🔄 AAACertificateS 📛	Open	. Þ
🔄 Intermediate.crt	2 KB	Security Certificate	10/26/2020 8:41:46 AM		📓 new 9.txt 🛛 📝	Edit	► 5
🔄 new-certificate for m	3 KB	Security Certificate	10/26/2020 8:41:46 AM		🔄 sar_at_gov_pt.cr 🙀	Download	F5 🕨 :
Root.crt	3 KB	Security Certificate	5/24/2021 10:23:29 PM		🔄 SectigoRSAOrga 💫	Duplicate	Shift+F5
					🔄 USERTrustRSAAA 💫	Move To	Shift+F6
					×	Delete	F8
					<b>⊡</b>	Rename	F2
					Ē	Сору	Ctrl+C
						File Custom Co	mmands 🕨
						File Names	•
					L.	Properties	F9

Upload the new ".Keystore" file to the appliance (/backups/upload).



C:\Users\marco\Desktop\CERT\manual\			/backups/upload/							
Name	Size	Туре	Changed		Name	Size	Changed	Rights	Owner	
±		Parent directory	5/24/2021 10:33:23 PM		<b>t.</b>		5/25/2021 4:43:03 AM	rwxr-xr-x	root	
🔄 manual images		File folder	5/24/2021 10:46:12 PM		Nova pasta		3/22/2021 5:41:31 PM	rwxrwxr-x	admin	
🗞 keystore	6 KB	KEYSTORE File	5/24/2021 10:33:23 PM		💊 .keystore	6 KB	5/24/2021 10:33:23 PM	rw-rw-r	admin	٦.
.keystore-old	3 KB	KEYSTORE-OLD File	5/6/2021 10:22:07 AM		.keystore_old	11 KB	11/2/2020 4:34:45 AM	rw-rw-r	admin	Γ.
🔄 Intermediate.crt	2 KB	Security Certificate	10/26/2020 8:41:46 AM		AAACertificateService	2 KB	1/1/2004 12:00:00 AM	rw-rw-r	admin	
🔄 new-certificate for m	3 KB	Security Certificate	10/26/2020 8:41:46 AM		📔 new 9.txt	3 KB	3/22/2021 5:56:41 PM	rw-rw-r	admin	
Root.crt	3 KB	Security Certificate	5/24/2021 10:23:29 PM		🔄 sar_at_gov_pt.crt	3 KB	3/19/2021 12:00:00 AM	rw-rw-r	admin	
					🔄 SectigoRSAOrganizati	3 KB	11/2/2018 12:00:00 AM	rw-rw-r	admin	
					USERTrustRSAAAACA	2 KB	3/12/2019 12:00:00 AM	rw-rw-r	admin	

9. Access the appliance by putty or other SSH.

#### you must access the appliance

🕵 PuTTY Configuration		? ×
Category:		
Category: Session Category: Session Constant Category: Session Constant Selection Colours Colours Connection Proxy Telnet Rlogin SSH Serial	Basic options for your PuTTY sess Specify the destination you want to connect Host Name (or IP address) F Connection type: Raw O Telnet O Rlogin O SSH Load, save or delete a stored session Saved Sessions soc Default Settings Close window on exit: Always Never O Only on clear	ion to Port 22 O Serial Load Save Delete
About Help	Open	Cancel

#### Sign in



Once inside the appliance in the CMI menu, you can orient yourself and see which menu you are in in the upper right corner.

Swivel Maintenance (c) 2019	Main Menu	Amazon Single
Hostname : single.local		
Interface : eth0 :		
Date & Time : Tue May 25 21:22:5	58 UTC 2021	
WARNING: Password still default. This car	n be changed	in Administration
WARNING: No alert email set. This can be	set in Tool	s -> Alerts
1) Tomcat		
<ol><li>Network</li></ol>		
<ol><li>Appliance</li></ol>		
<ol><li>Backup and Restore</li></ol>		
<ol><li>Tools and Utilities</li></ol>		
<ol><li>Administration</li></ol>		
<ol><li>System Status</li></ol>		
<ol><li>Version Information</li></ol>		
0) Exit		
Select:		

now in the CMI menu, go to menu 1 "Tomcat"



Then go to menu 4 "Certificates"

Swivel Maint	enance (c)	2019		Tomcat	Menu	Amazon	Single
Tomcat Status	3 :	Running					
Port 8080	:	HTTPS = 1	frue				
Port 8443	:	HTTPS = 7	frue				
1) Stop							
2) Restart							
<ol><li>HTTPS</li></ol>							
<ol> <li>Certifica</li> </ol>	ates						
5) SSL Proto	cols						
0) Back							
Select:							

Enter menu 8 "Import / Roll Back to Previous Keystore"

Swi	ivel Maintenance (c) 2019 Certi	ficate Menu	Amazon	Single				
Priv	vateKevEntrv :							
Keys	store Password :							
1)	Create Local Certificate							
2)	Generate CSR							
3)	Import to New / Existing Alias							
4)	View Keystore							
5)	Delete Certificate from Keystore							
6)	Generate Self-Signed Certificate							
7)	Clone Certificate							
3)	Import / Roll Back to Previous Keystore							
9)	Change Keystore Password							
0)	Back							
Sele	Select:							

Enter menu 1 "Import Keystore"



Chose the new certificate ".Keystore", in this example it turned out to be option number 6, but it all depends on what files are in the "/backups/upload" folder.

Swivel Maintenance (c) 201	9 Replace	Keystore Menu	Amazon	Single
######################################	*****			
Contents of /backups/upload	l			
1) 2) 3) 4)				
6) .keystore 7) .keystore old				
9) REFRESH DIRECTORY 0) Cancel				
Select filename: 6				

You will ask to confirm the "Replace Keystore" you should say/type "y" or "Y"



After you have confirmed the replacement of the new ".Keystore" on the appliance, you will be asked if you want to restart Tomcat immediately to apply the changes.

This choice is made by you since you can choose these options since restarting Tomcat will bring the system down for the 30s - 3m, not affecting those who are already authenticated, but it will affect users who want to authenticate themselves in that period of Tomcat restart:

- You can choose to restart Tomcat and apply the changes you made to the ".keystore" immediately;
- You can choose not to restart Tomcat right away and go check if the new ".Keystore" is correct in the "Certificate Menu" by choosing option number 4 "View Keystore" and then choose the aliases that should be the one we chose when making the new ".keystore" which was "swivel", and you will be able to see all the information about the new ".keystore"
- You can choose not to restart Tomcat right away and just do it when it suits you best.

Swivel Maintenance	(c)	2019		Tomcat	Menu	Amazon	Single
barrer indriffendiffe	101	2010		1011040		1111012-011	bingie
Tomcat Status	:	Running	1				
Port 8080		HTTPS =	True				
Port 8443		HTTPS =	True				
1) Stop							
2) Restart							
<ol><li>HTTPS</li></ol>							
<ol><li>Certificates</li></ol>							
5) SSL Protocols							
0) Back							
Select:							

After restarting Tomcat, check that it is "Running" in the "Tomcat Menu.

If it is in "Running" everything should be running fine as expected and you only need to check if you can access the platforms and log in to them.

We take this opportunity to indicate that if you have any questions or problems, you can contact our SOC team by sending an email to <u>supportdesk@swivelsecure.com</u>.