

SSL Certificate renewal steps, (for web servers only ssl is there)

- First we have to backup in server in which we are going to do certificate renewal. For that login to that server through particular(wcs,oms,cto,wesb) build server as wcsuser,

- For c0006107,(Build servers ask username & password for wcsuser)

Wcsuser

EtrProd#@741

Sample server,

Ssh g1t2999g.austin.hp.com

cd /opt/apps/IBM/HTTPServer/conf

```
-rw-r--r-- 1 wcsuser wcsgroup 15080 May 3 2016 glbecomtran-ext_keyfile.kdb
-rw-r--r-- 1 wcsuser wcsgroup 5080 May 3 2016 glbecomtran-ext_keyfile.rdb
-rw-r--r-- 1 wcsuser wcsgroup 129 May 3 2016 glbecomtran-ext_keyfile.sth
```

Take backup of above three latest files. (cp filename bkp_filename)

Renew the SSL cert

1. Login to the HIS(web) server as wcsuser. For load balanced certs, log in to one of the IHS servers. [Path: /home/wcsuser](#)
[./renewssl.sh](#)

It will ask password **Ecommerce@2016**

2. At the first prompt asking for the installation path just hit ENTER
3. At the next prompt,
 1. If this SSL cert is for a **single server**, enter the server FQDN
(Ex. **c0008101.itcs.hp.com**).
 2. If this server is **load balanced**, enter the full FQDN of the load balancer.
(Ex. **glbecomtran-wcsweb-dev7.glb.itcs.hp.com**)
4. At the next prompt, enter the short name of the FQDN above. (**c0008101** or **glbecomtran-wcsweb-dev7**)
[Give password When it prompts.](#)
5. Next, you should see the path to the httpd.conf file which should be /opt/apps/IBM/HTTPServer/conf. Hit ENTER.

Refer the below screenshots for above mentioned steps,

```
wcsuser@glbt2998g ~$ . /renwssl.sh
[wcsuser@glt2998g ~]$ ./renwssl.sh
httpd (pid 15283?) not running
Please enter the HTTP Installation Path:/opt/apps/IBM/HTTPServer
Please enter the FQDN of the load balancer or single server for the SSL Certificate. i.e. c9t00387.itcs.hp.com: glbecomtran-ext.austin.hp.com
Your CN for certificate will be glbecomtran-ext.austin.hp.com.
Please enter the a short name for the SSL Certificate. i.e. c9t00387: glbecomtran-ext
Your shorten name will be glbecomtran-ext.
mkmdir: cannot create directory '/home/wcsuser/sslCerts2': File exists
Please input the WCSUser password to copy the HP root certificate
Password:
Password:
HPSignedCA.cer          100% 1376      1.3KB/s   00:00
HPSignedIntCA.cer       100% 1051      1.0KB/s   00:00
cp: cannot stat '/tmp/HPSigned*': No such file or directory
Please enter the HTTP Configuration Folder Path:/opt/apps/IBM/HTTPServer/conf
Creating your certificate request...
Certificate requests in database /opt/apps/IBM/HTTPServer/conf/glbecomtran-ext_keyfile.kdb:
glbecomtran-ext key
Please go to https://mydigitalbadge.hp.com/hp/client/sslPrivateStart.php to order your internal certificate.
Please copy the following text into your certificate order form to order your certificate. This is your CSR.
IMPORTANT: If this is a load balancer certificate, please remember to include your individual server names as Subject Alternative Names.
Please use the following information for your order form:
Enterprise Directory Global Group is etr_ssl_cert_renewal or Global_Ecommerce_DEV. You must be an OWNER of the group.
EPR-ID is 200536
-----BEGIN NEW CERTIFICATE REQUEST-----
MIICyjbCCABICAQAwYQXczA7BgNVBAYTAlVTRMRWwEQYDVQQIEwZDQXJkRj9STktBMRIWEIYDVQOQH
EWlQWxvIFFadG8eXzARBgNVBAStCK3wZXJndGlwbmMxdzANBgNVBAoTBkhkbjElIUyZEmMcQAIAUw
AgMdZ2Z1ZWVnbXRyITZKhOlMFlc3RpbSIocCc5jb2wgweGEiMAOGCSqGSItb3QFEBAQUAA1IBDAwE
ggEKAOIKDCkOCwU8YFUKN0ZyFuotBw7BHLffhdZcpKb6frfPvMtF+CGdOrV0TrnVs+mESctcbTqp
LsnKusFuGaPQA3AA3m191kvHCNHxgiCmZvNJLKopSJKBlBjNp1tjKSvB7mdZvvUp//4ceboK7ngC
VRQL56l74VUQj1vnNUFRUSci4kaaIFSPKYRHsIrDsGU4XAIA4gRBBr9PLltjLx3+EMVzVMpuM3Xj17
NcgKg6ogjnwjY2kdCaowd+W2jzmWH6KSOUUMzJ1GLyVaf6riqkZM3RpGS6yV/TeR3+GBWRQPu+dS0Y
hkclMMvdSG6SwkwgcwtCTZWMft63zd4nJugSH1+Syy+bO4InAgMBAAgGAADANBgkqhkiG9w0BAQUF
AAOCAQEArhtue6K57dG9tenuEdio5k1iw2jDLbf+/gNCPhvp9+GoZm42WNfVTMS0JtbD5UDVFXUAU
Yb7A1mLRNS2ML+OYGdnbn17RNugw/rzoXWFgrI5vrEW9Twan52tbg1A0YnJFXH6CypGVRRwsBmUX
OIZy6245pOfAhqGSJNTitQtUsfnJQ27MKSlXCfs7/RjnVQfcM361cAMWRLJxooLR8EOo4FL1JqukbOgVd
OEmsShJI5AhoQbJ8PfVS1f8HYaV+q9y3CEbgUFbvMbSYk8S4CiMWnv6LxcNeop6RznNveQIPf8jk
kWtYHeWzzgp7FWx1RAaxsKQWhmwda2udBQZWf+s1281/Dw==
-----END NEW CERTIFICATE REQUEST-----Press [Enter] key to continue....
```

6. Follow the on screen instructions. Go to this link <https://mydigitalbadge.hp.com/hp/client/sslPrivateStart.php> and fill out all the information.

Please find the screenshot below and fill the details as per mentioned in the screenshot

←

→

hp

https://mydigitalbadge.hp.com/hp/client/sslPrivateEnroll.php

SSL Private enrollment

This information will be used to complete your enrollment:

Your Name:	Sriram Krishnamoorthy
Your E-mail Address:	sriram.krishnamoorthy@hp.com

Required: Alternate Contact E-mail

You must enter an Email enabled Enterprise Directory Global Group that meets the [ownership requirements](#).

Enterprise Directory Global Group:	etr_ssl_cert_renewal
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Optional: Additional information you may like associated with your certificate

Provide information to identify the business application or unit that owns this certificate such as the HPIT EPR-ID, application name and other descriptors up to 100 characters.

Check this box if this certificate is for an HP IT-Owned Asset as listed in Apatch :	<input checked="" type="checkbox"/>
Enter EPR-ID and/or description here:	200536

Required: Choose the CA to sign your certificate

You must now use the new HP Private CA to sign your certificates. The new CA can only sign requests generated with a minimum of 2048-bit keys. Check the [New SSL FAQ](#) for full details about the CA change, key requirements and timing.

NEW HP Private CA:	<input checked="" type="radio"/>
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Below is example of certificate key generation you give the details according to what you have generated: (in the server we are working copy in putty and paste here and server names you are going to do ssl)

Required: Server generated CSR

[Click here](#) for instructions on generating your CSR on most server types. Please also check the [CSR guidelines](#) to avoid common mistakes in CSR content.

```
-----BEGIN NEW CERTIFICATE REQUEST-----
MIICzzCCAbcCAQAwgYkxCzAJBgNVBAYTAlVTMRMwEQYDVQOEIwPDUxJrK9STklBMRIwEAYDVQQH
EwlQYWxwvIEFsDG8xExZARBgNVBASTCk9wZXJhdGlvbnMxZDZANBgNVBAoTBkhQIEluYzErMCKGAlUE
AxMiZ2xiZWVnbXRyYw4tZWZlZGluLmhwLmNvbTCCASIwDQYJKoZIhvcNAQEBBQAD
ggEPADCCAQoCggEBAK7A7yDC/oIDVBtpoj4X/vNALy81aCBe6Z79jrUKivYEEUxgQx0792ygNW9j
xXesW4ABr1tLv+HwMdQsM5grddb1NdRhi6CB70wzjObbyApfff0hkw94IIX9ggckIvJnhBuzB5JT
qtkbRwnbBHe73R+N15FpqtAK8DIF9k+4/eJrPnUH6dJCDfBs+e8jSWIDCERefI9wS+9GuTiTXtUk
fgVjzeRtxeuJPNptOhdR/gfHRWrABYfYAxgUMZCno7Li5GLyx8WEXK04m0/VyG3WmnO4EhIw6FP5
9S0DDTtyvm+k7Lx4vmZZWh/5ptJHN1cDA+da6K9v51MV5YA6A2EPgqnsCAwEAAAaAAMA0GCSqGSIb3
DQEBcwUAA4IBAQCgj134su05Z35uV/YX3Ya5TO026qUJOYUo3vMxR2i6aF4QOdRs0eXRc8vpjV8n
h0+p2hctmL4LNwAMKiCdLUIr0azpBs5TwAXiSYvlETZSeiX+jE09Y2mDMIGoof5yICtYpa+r57c7
p5PSGF/louVRBZLfC00oriNJRXYwbJO+tlaiUpeE4R7VNSFVPbS02cKyZSQUntSVlLEm6fX03M0
mQyUtFptew3xY0K2XdNheq6dFDWlBmLb/yp3F3uZWeJe4eIre6Av2l/RSqgIb8nzOlK7ujNL3RfB
8Ac+avfTnYmiHhktQ24ilFOMZDQda3RtMnuk329B8x+EItWp4IIC
-----END NEW CERTIFICATE REQUEST-----
```

Optional: Subject Alternative Names

The use of subject alternative name is specifically to handle the situation when one system must respond to more than one system name. This is common in a load balanced or highly available environment. Please enter any additional Subject Alternative Name (dnsName) entries you would like included in your certificate. The Common Name (CN) from your CSR will automatically be included for you.

[illegible]

Click here to Cancel

Click here to Continue Enrollment

In Next page:

SSL Private enrollment

A valid certificate for glbecomtran-edit-web.austin.hp.com has been found.

In order to get a new certificate with this name we must first revoke the current valid certificate. By revoking this certificate you become responsible for any loss of business that occurs because of this action. When you revoke this certificate some clients (such as Windows Vista and Windows 7) will become aware of the revocation immediately while others (such as Windows XP) may not until 12:01am 08 Jan 2016 Pacific Time. Therefore you will need to update every system/application that uses this certificate as quickly as possible.

Please consider your actions. If this revocation is for you to get a new certificate, you may be able to avoid any loss of business by waiting and renewing this certificate later. If you can wait and request this certificate any time after 09 Dec 2016 then you will have until 08 Jan 2017 to update all these systems and/or applications giving you a much longer period to test and validate that there will be no loss of business.

To Proceed you must type "I understand" in the text box:

I understand x

Click here to Cancel

Click here to Revoke this Certificate

Copy the certificate from this below page and paste it in Unix box:

You will need to install your certificate on your server. [Click here](#) for instructions. For your convenience a copy of this certificate will be emailed to you.

In order to use a DigitalBadge to secure web-based applications containing HP Confidential or Private information, the application must check the HP Certificate Revocation List (CRL) which meets the Standards and Policies of HP Information Security. [Click here](#) for more information.

Copy this key to putty server where we are working,

After pasting this in Unix server press “ctrl D” twice and it will create certificate key files in /opt/apps/IBM/HTTPServer/conf folder, copy the three key files to other web servers in path: /opt/apps/IBM/HTTPServer/conf.

Last step: Restart web servers.

To restart web servers follow screenshot steps,

```
[wcsuser@gl1t2998g bin]$ sudo ./adminctl stop
./adminctl stop: admin http stopped
[wcsuser@gl1t2998g bin]$ sudo ./apachectl stop
[wcsuser@gl1t2998g bin]$ ps -ef | grep httpd
wcsuser 13379 11619 0 06:35 pts/1 00:00:00 grep httpd
[wcsuser@gl1t2998g bin]$ sudo ./adminctl start
./adminctl start: admin http started
[wcsuser@gl1t2998g bin]$ sudo ./apachectl start
[wcsuser@gl1t2998g bin]$ ps -ef|grep java
wcsuser 14022 11619 0 06:36 pts/1 00:00:00 grep java
[wcsuser@gl1t2998g bin]$ ps -ef|grep httpd
root 13383 1 0 06:35 ? 00:00:00 /opt/apps/IBM/HTTPServer/bin/httpd -f /opt/apps/IBM/HTTPServer/conf/admin.conf
root 13384 13383 0 06:35 ? 00:00:00 /opt/apps/IBM/HTTPServer/bin/httpd -f /opt/apps/IBM/HTTPServer/conf/admin.conf
wcsuser 13385 13383 0 06:35 ? 00:00:00 /opt/apps/IBM/HTTPServer/bin/httpd -f /opt/apps/IBM/HTTPServer/conf/admin.conf
root 13399 1 5 06:35 ? 00:00:01 /opt/apps/IBM/HTTPServer/bin/httpd -d /opt/apps/IBM/HTTPServer -k start
wcsuser 13402 13399 0 06:35 ? 00:00:00 /opt/apps/IBM/HTTPServer/bin/httpd -d /opt/apps/IBM/HTTPServer -k start
wcsuser 13404 13399 0 06:35 ? 00:00:00 /opt/apps/IBM/HTTPServer/bin/httpd -d /opt/apps/IBM/HTTPServer -k start
wcsuser 13815 13399 9 06:35 ? 00:00:01 /opt/apps/IBM/HTTPServer/bin/httpd -d /opt/apps/IBM/HTTPServer -k start
wcsuser 14028 11619 0 06:36 pts/1 00:00:00 grep httpd
[wcsuser@gl1t2998g bin]$
```

And please check the site for latest SSL certificate date and expiry.

Note: Check in folder for latest file.

```
[wcsuser@gl1t1476g sslcerts2]$ ll
total 16
-rw-r--r-- 1 wcsuser wcsgroup 1068 Jan 8 01:54 glbecomtran-edit-web.csr
-rw-r--r-- 1 wcsuser wcsgroup 2212 Jan 8 01:56 glbecomtran-edit-web_ssl_cert.crt
-rw-r--r-- 1 wcsuser wcsgroup 1376 Jan 8 01:54 HPSignedCA.cer
-rw-r--r-- 1 wcsuser wcsgroup 1051 Jan 8 01:54 HPSignedIntCA.cer
[wcsuser@gl1t1476g sslcerts2]$ pwd
/home/wcsuser/sslcerts2
[wcsuser@gl1t1476g sslcerts2]$
```

Below can be checked by, (For sample server)

https: g1t2999g.austin.hp.com(click on https lock symbol)

