

Install TLS Ingress Certificate into k8s from pfx file

Sunday, 9 January 2022 12:07 AM

Note: instructions written using CluedIn version 3.2.5

Method

Extract server.key and cert.pem from pfx file

server.key and cert.pem were extracted from the pfx file downloaded from the Azure Key Value using the following code from created batch file `extract_certs_from_pfx.bat`

Note: I'm using the `openssl.exe` that comes with [git bash](https://gitforwindows.org/) (see <https://gitforwindows.org/>)

```
set PFX_FILE=apac-cert-kv-wildcard-k1-cluedin-me-20220108.pfx

rem extract private key
"C:\Program Files\Git\usr\bin\openssl.exe" pkcs12 -in %PFX_FILE% -nocerts -out key.pem -
passin pass: -passout pass:xxxx

rem remove the password (paraphrase) from the private key
"C:\Program Files\Git\usr\bin\openssl.exe" rsa -in key.pem -out server.key -passin
pass:xxxx

rem extract public key
"C:\Program Files\Git\usr\bin\openssl.exe" pkcs12 -in %PFX_FILE% -clcerts -nokeys -out
cert.pem -passin pass:
```

Create secret

using server.key and cert.pem from previous step

```
PS> cat .\add_certs_as_tls_secret.ps1
kubectl create secret tls ingress-cert-secret --key server.key --cert cert.pem

PS> .\add_certs_as_tls_secret.ps1
secret/ingress-cert-secret created
```

note: if the secret already exists then delete first with this command

```
PS> kubectl delete secret ingress-cert-secret
secret "ingress-cert-secret" deleted
```

Update values yaml

update as below

```
ingress:
# RUDI 8 Jan 2022 - turn on ssl, set forceHttps and ssl-redirect to true and set secretName
forceHttps: true
annotations:
  kubernetes.io/ingress.class: haproxy
  ingress.kubernetes.io/ssl-redirect: "true"
tls:
  hosts: [] # Provide list of hosts to use
  secretName: "ingress-cert-secret" # TLS Secret to use for ingress - If no
hosts create a wildcard host
hasClusterCA: false # If certificates are generated by a local CA (secret has
'ca.crt' section)
```

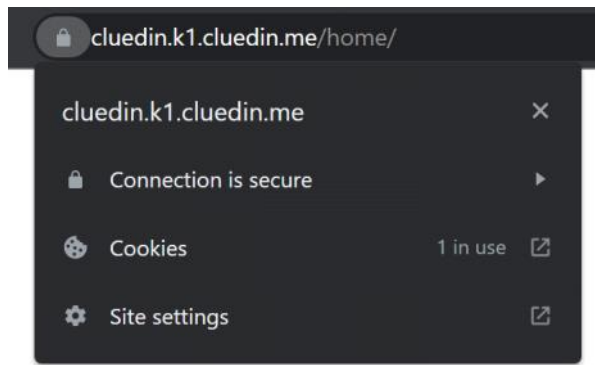
Restart ingress and ui

```
PS> cat .\restart_ingress_ui.ps1
kubectl delete pod -l app.kubernetes.io/name=haproxy-ingress
kubectl delete pod -l app=ui


PS> .\restart_ingress_ui.ps1
pod "haproxy-ingress-5c9cb6796f-wc8rf" deleted
pod "cluedin-demo-ui-6fbfddcbf7-v89np" deleted
```

Success!

note the padlock in each of these screenshots



cluedin.k1.cluedin.me/signin



Sign in

Welcome back, you are signing into the **cluedin** account.

Email

Password

SIGN IN

[I forgot my password](#)

ElementsConsoleSourcesNetworkPerformance

Filter

☐ Preserve log☐ Disable cache☐ No throttling

☐ Has blocked cookies☐ Blocked Requests☐ 3rd-party requests

Name	Status	Type	Initiator
<input type="checkbox"/> available?clientId=cluedin	200	fetch	requestRe
<input type="checkbox"/> graphql	200	fetch	createHtt
<input type="checkbox"/> graphql	200	fetch	createHtt
<input type="checkbox"/> graphql	200	fetch	createHtt
<input type="checkbox"/> graphql	200	fetch	createHtt

5 / 19 requests | 1.6 kB / 6.7 MB transferred | 781 B / 6.8 MB resources

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