Check for ECP internal cluster certificate validity and renew it.

**Symptoms** of this cert expired is , User can’t login to cluster using CLI with 502 error or Unauthorized even with a latest kubeconfig.

Checking Validity:

kubeadm alpha certs check-expiration

cat /var/lib/kubelet/pki/kubelet-client-current.pem | openssl x509 -noout -enddate

kubectl get MutatingWebhookConfiguration hpecp-webhook -o jsonpath='{.webhooks[0].clientConfig.caBundle}' | base64 -d | openssl x509 -noout -enddate

kubectl get MutatingWebhookConfiguration kubedirector-webhook -o jsonpath='{.webhooks[0].clientConfig.caBundle}' | base64 -d | openssl x509 -noout -enddate

kubectl -n hpecp get secret hpecp-validator-secret -o jsonpath='{.data.ca\.crt}' | base64 -d | openssl x509 -noout -enddate

kubectl -n hpecp get secret hpecp-validator-secret -o jsonpath='{.data.app\.crt}' | base64 -d | openssl x509 -noout -enddate

kubectl -n hpecp get secret kubedirector-validator-secret -o jsonpath='{.data.ca\.crt}' | base64 -d | openssl x509 -noout -enddate

kubectl -n hpecp get secret kubedirector-validator-secret -o jsonpath='{.data.app\.crt}' | base64 -d | openssl x509 -noout -enddate

To check the stored "admin kubeconfig" for a cluster, go to the cluster page in the UI and use the "Download Admin Kubeconfig" button. Then, on the system where you downloaded the file, use this command:

cfg\_filename=my\_admin\_kubeconfig # substitute the name of the downloaded file

cat $cfg\_filename | grep client-certificate-data | cut -d' ' -f 6 | base64 -d | openssl x509 -noout -enddate

Follow the document only if any certificate has expired i.e., end date is earlier than current date and follow each step carefully.

Document: <https://gist.github.hpe.com/joel-baxter/99f77e7941445dd378f66f45ac97b51b>

P.S. - Just in case the above document is not available, attached a copy [here](https://hpe.sharepoint.com/:t:/s/CaaSDocs/EQZuCXUX9NVHqLoD4XNhK7sB2Ig2OJMk1WaGI1EWeka_4w?e=66oWbp) dated [October 11th, 2021]. Please refer to this old copy only when above document is unavailable and after checking with Team internally.