SEK - Cert renewal (x509: certificate has expired or is not yet valid)

When you use kubectl in order to check the status of your Kubernetes (K8s) pods. you got the following error:

x509: certificate has expired or is not yet valid

Troubleshooting

```
{\it kubeadm~certs~check-expiration}
```

To check for the expiration, and:

```
kubeadm certs renew all
```

To renew all of them.

Steps to fix

First get the container_id:

```
docker ps -a
```

Then exec interactively in it with bash:

```
docker exec -it <container_id> bash
```

Now, run the kubeadm certs renew all command and, finally, restart kubelet for the changes to take effect:

```
systemctl restart kubelet
```

You will probably see an error like this when trying to run kubectl outside of the container:

```
error: You must be logged in to the server (the server has asked for the client to provide credentials)
```

As outside the docker instance I only have kubect1 installed and not K8s, I don't have the ~/.kube/config file defined (even if I did, the certificates would not be updated automatically).

sudo cp -i /etc/kubernetes/admin.conf \$HOME/.kube/config sudo chown \$(id -u):\$(id -g) \$HOME/.kube/config