synapse-haproxy container in CrashLoopBackOff state

Issue

We are seeing

```
[karl1@element ~]$ kubectl get pods -n element-onprem
NAME                              READY   STATUS           RESTARTS   AGE
server-well-known-8c6bd8447-fts78        1/1    Running          2      39h
app-element-web-c5bd87777-745gh          1/1    Running          2      39h
postgres-0                        1/1    Running          2      39h
instance-synapse-haproxy-5b4b55fc9c-jv7pp  0/1    CrashLoopBackOff  40       39h
instance-synapse-main-0                  1/1    Running          6      39h
```

and the synapse-haproxy container never leaves the `CrashLoopBackOff` state.

Environment

- Red Hat Enterprise Linux 8.5
- Element Enterprise On-Premise PoC Installer 0.6.1

Resolution

Add the following lines to /etc/security/limits.conf:

```
*          soft    nofile  100000
*          hard    nofile  100000
```

and reboot the box. After a reboot, the microk8s environment will come back up and the synapse-haproxy container should run without error.

Root Cause

Check the logs of synapse-haproxy with this command:

```
kubectl logs -n element-onprem instance-synapse-haproxy-5b4b55fc9c-jv7pp
```

You will want to replace the instance name with your specific instance. See if you have this message:

```
'[haproxy.main()] Cannot raise FD limit to 80034, limit 65536.'
```

If so, you have run out of open file descriptors and as such the container cannot start.

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