

# Too many Open files

- [Too many open files debug in k8s](#)

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## ulimit -n

Output : 1048576

## kubelet limit

```
systemctl show kubelet | grep NOFILE
```

Output :

```
LimitNOFILE=524288  
LimitNOFILESoft=1024
```

## systemd global

```
systemctl show --property=DefaultLimitNOFILE
```

Output: DefaultLimitNOFILE=524288

## container runtime

```
systemctl show containerd | grep NOFILE
```

Output:

```
LimitNOFILE=infinity  
LimitNOFILESoft=infinity
```

# Socket summary

ss -s

|                                                            |       |    |      |
|------------------------------------------------------------|-------|----|------|
| Total: 795                                                 |       |    |      |
| TCP: 2101 (estab 22, closed 2066, orphaned 0, timewait 20) |       |    |      |
|                                                            |       |    |      |
| Transport                                                  | Total | IP | IPv6 |
| RAW                                                        | 1     | 0  | 1    |
| UDP                                                        | 8     | 5  | 3    |
| TCP                                                        | 35    | 27 | 8    |
| INET                                                       | 44    | 32 | 12   |
| FRAG                                                       | 0     | 0  | 0    |

# System-wide (all processes)

cat /proc/sys/fs/file-nr Output:

|       |   |         |
|-------|---|---------|
| 17784 | 0 | 2097152 |
|-------|---|---------|

# Kubelet FD usage

pidof kubelet ls /proc/\$(pidof kubelet)/fd | wc -l

Output: 1953

# Edit Container runtime

sudo systemctl edit containerd

# Per-pod socket usage (ADVANCED)

```
crictl ps  
crictl inspect <container_id> | grep pid
```

## Correct fix for kubelet (DO THIS)

```
sudo systemctl edit kubelet
```

```
[Service]  
LimitNOFILE=524288
```

```
sudo systemctl daemon-reload  
sudo systemctl restart kubelet
```