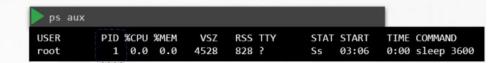
Docker Security





| Security





Container

|Security - Users



Host

USER

1000

PID %CPU %MEM

1 0.0 0.0

VSZ

4528

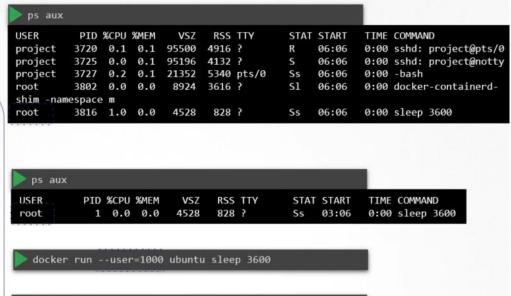
RSS TTY

828 ?

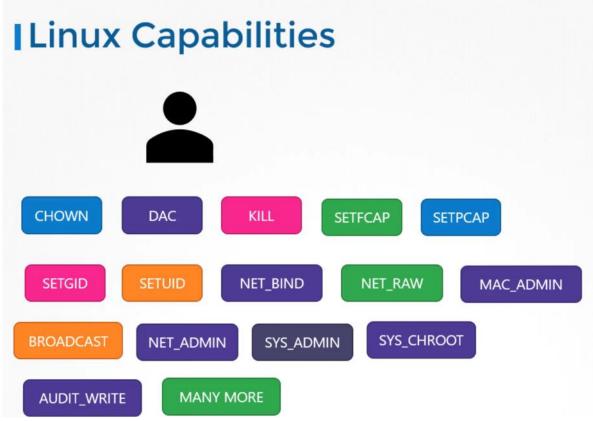
STAT START

03:06

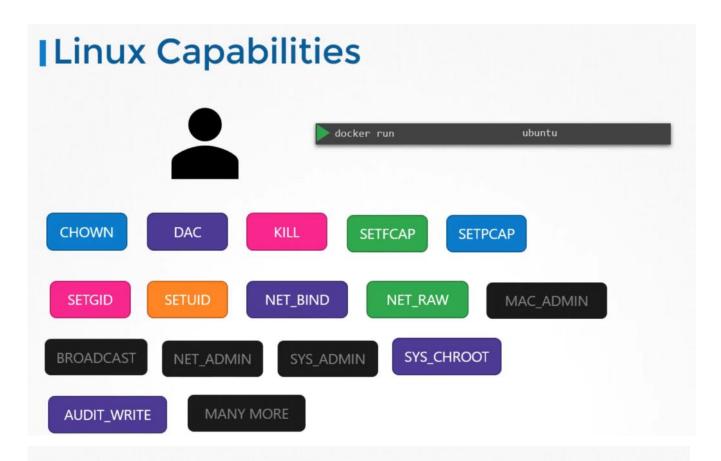
TIME COMMAND 0:00 sleep 3600



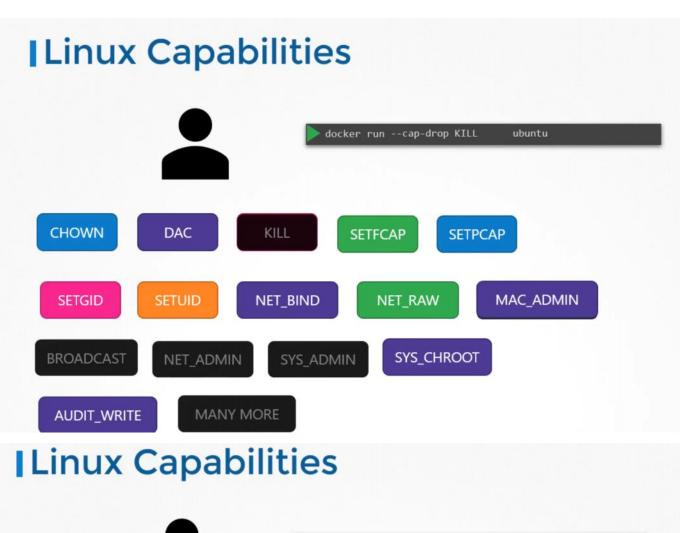




/usr/include/linux/capability.h









Container Security | docker run --user=1001 ubuntu sleep 3600 | docker run --cap-add MAC_ADMIN ubuntu

| Kubernetes Security



CONTAINER LEVEL

| Kubernetes Security



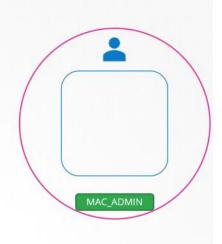


```
apiVersion: v1
kind: Pod
metadata:
   name: web-pod
spec:
   containers:
        - name: ubuntu
        image: ubuntu
        command: ["sleep", "3600"]
```

| Security Context

```
apiVersion: v1
kind: Pod
metadata:
   name: web-pod
spec:
   securityContext:
    runAsUser: 1000

containers:
   - name: ubuntu
    image: ubuntu
    command: ["sleep", "3600"]
```



ISecurity Context

```
apiVersion: v1
kind: Pod
metadata:
   name: web-pod
spec:
   containers:
        - name: ubuntu
        image: ubuntu
        command: ["sleep", "3600"]
        securityContext:
        runAsUser: 1000
```



ISecurity Context

```
apiVersion: v1
kind: Pod
metadata:
   name: web-pod
spec:
   containers:
        - name: ubuntu
        image: ubuntu
        command: ["sleep", "3600"]
        securityContext:
        runAsUser: 1000
        capabilities:
        add: ["MAC_ADMIN"]
```



Note: Capabilities are only supported at the container level and not at the POD level

controlplane ~ → kubectl exec ubuntu-sleeper -- whoami
root

```
apiVersion: v1
kind: Pod
metadata:
name: multi-pod
spec:
securityContext:
runAsUser: 1001
containers:
- image: ubuntu
name: web
command: ["sleep", "5000"]
securityGontext:
runAsUser: 1002
- image: ubuntu
name: sidecar
command: ["sleep", "5000"]
```

So there's one at the pod level and then there's one at the container level.

So as we've learned, the container level is less security.

Context is going to override whatever is specified here.

And the sidecar container does not have a security context specified, so it's always going to use this.

runAsUser: 1001