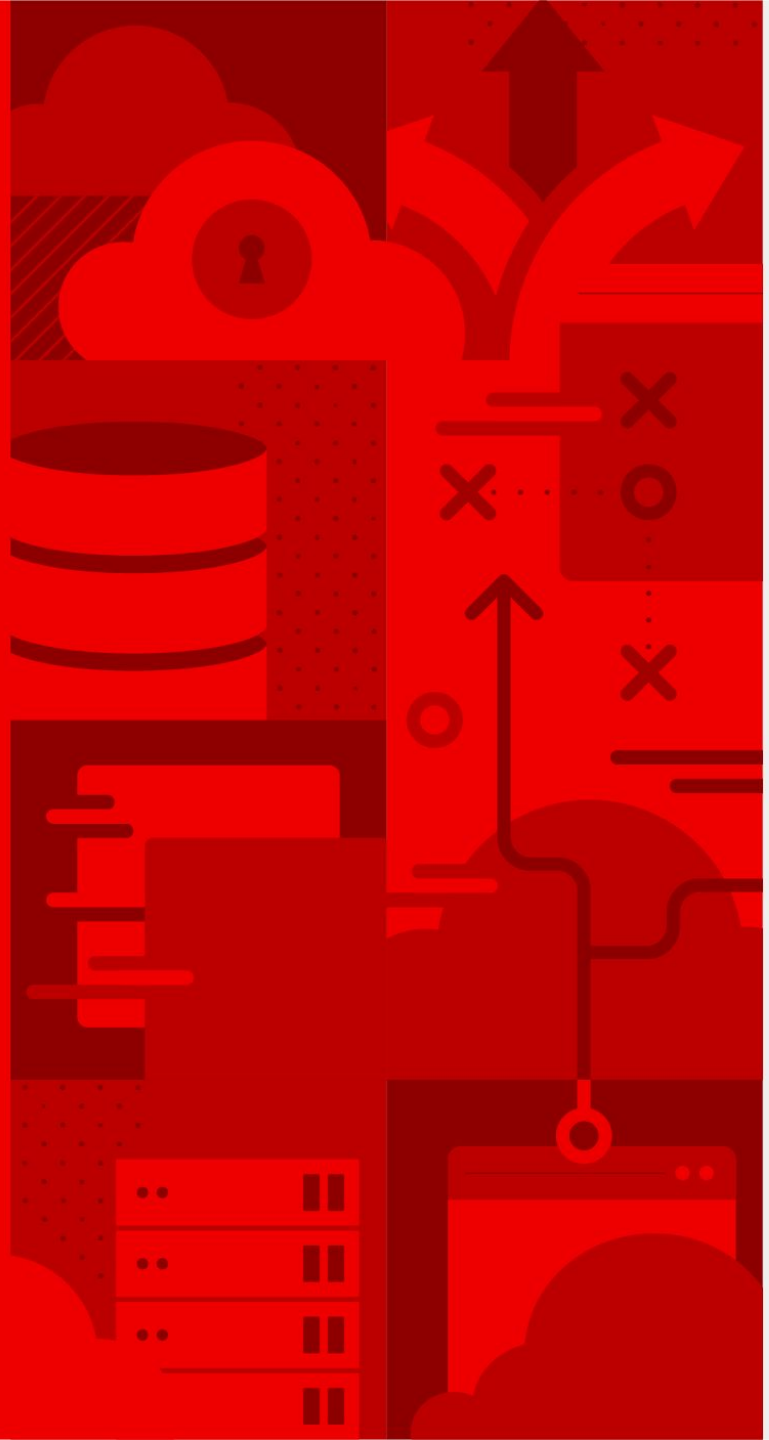

Containers, Kubernetes

Containers Deep Dive

linkedin.com/company/red-hat

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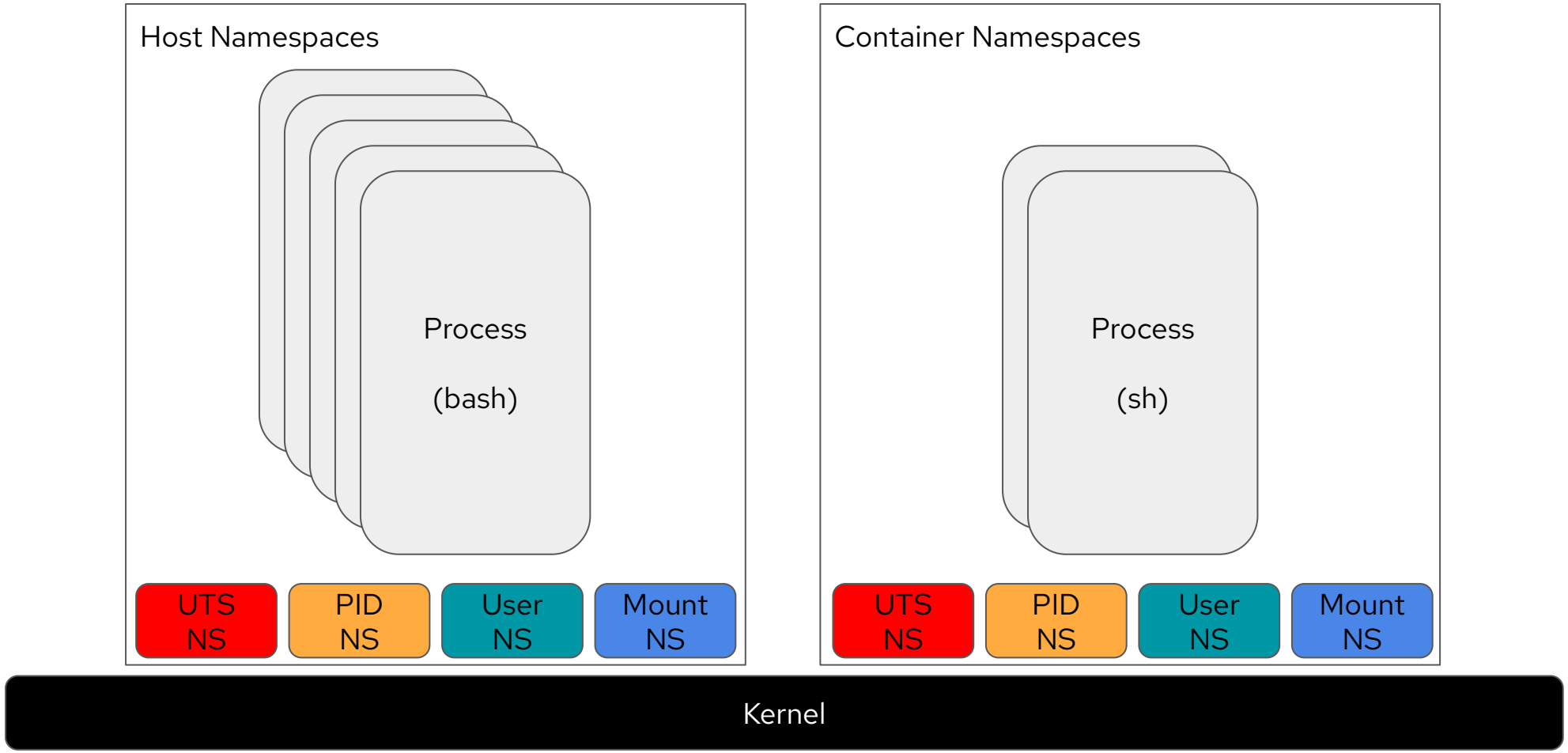
What is a Container Image?

http/https

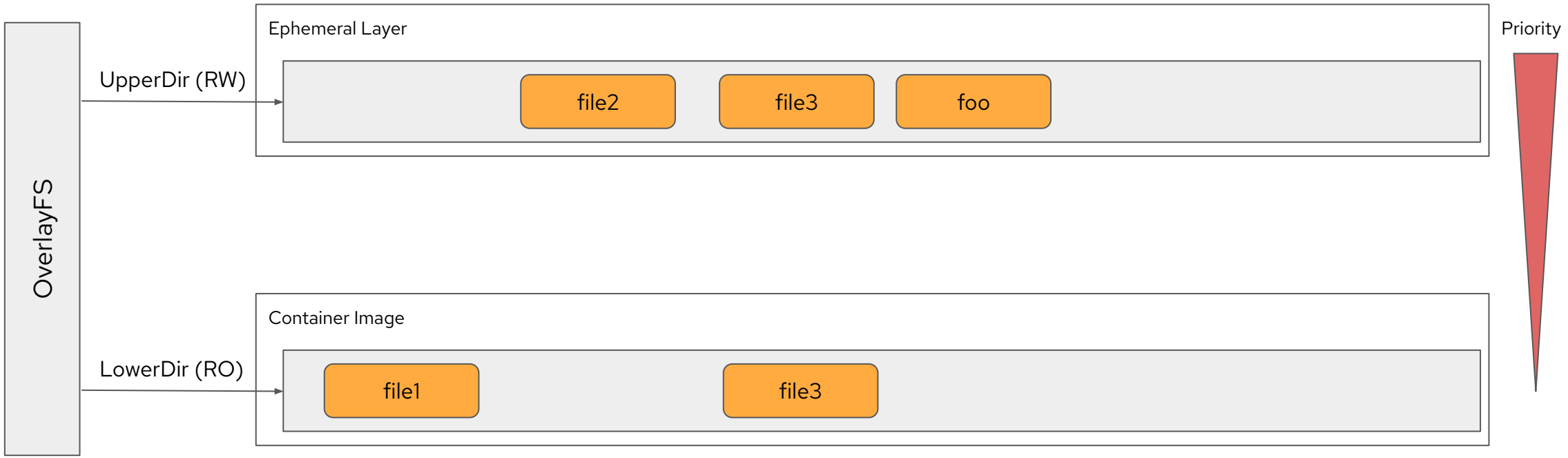
1. manifest (json)
2. config (json)
3. layers (tar(s))

```
sdavies@sdavies-thinkpadt14sgen2i:~$ podman pull docker.io/library/busybox
Trying to pull docker.io/library/busybox:latest...
Getting image source signatures
Copying blob a46fbb00284b done   |
Copying config 27a71e19c9 done   |
Writing manifest to image destination
27a71e19c95622dce4d60d4a3760707495c9875f5c5322c5bd535214799593ce
sdavies@sdavies-thinkpadt14sgen2i:~$
```

Namespaces



Overlay File System



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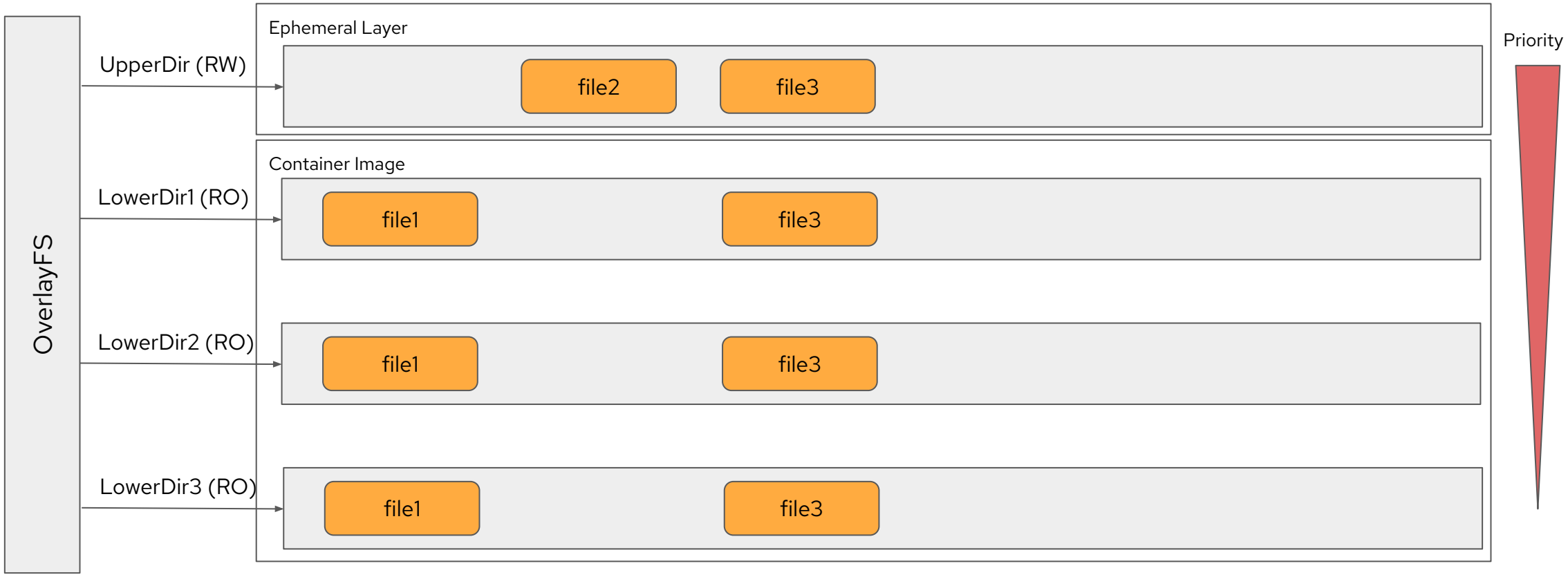
Overlay File System - Multi RO Layers



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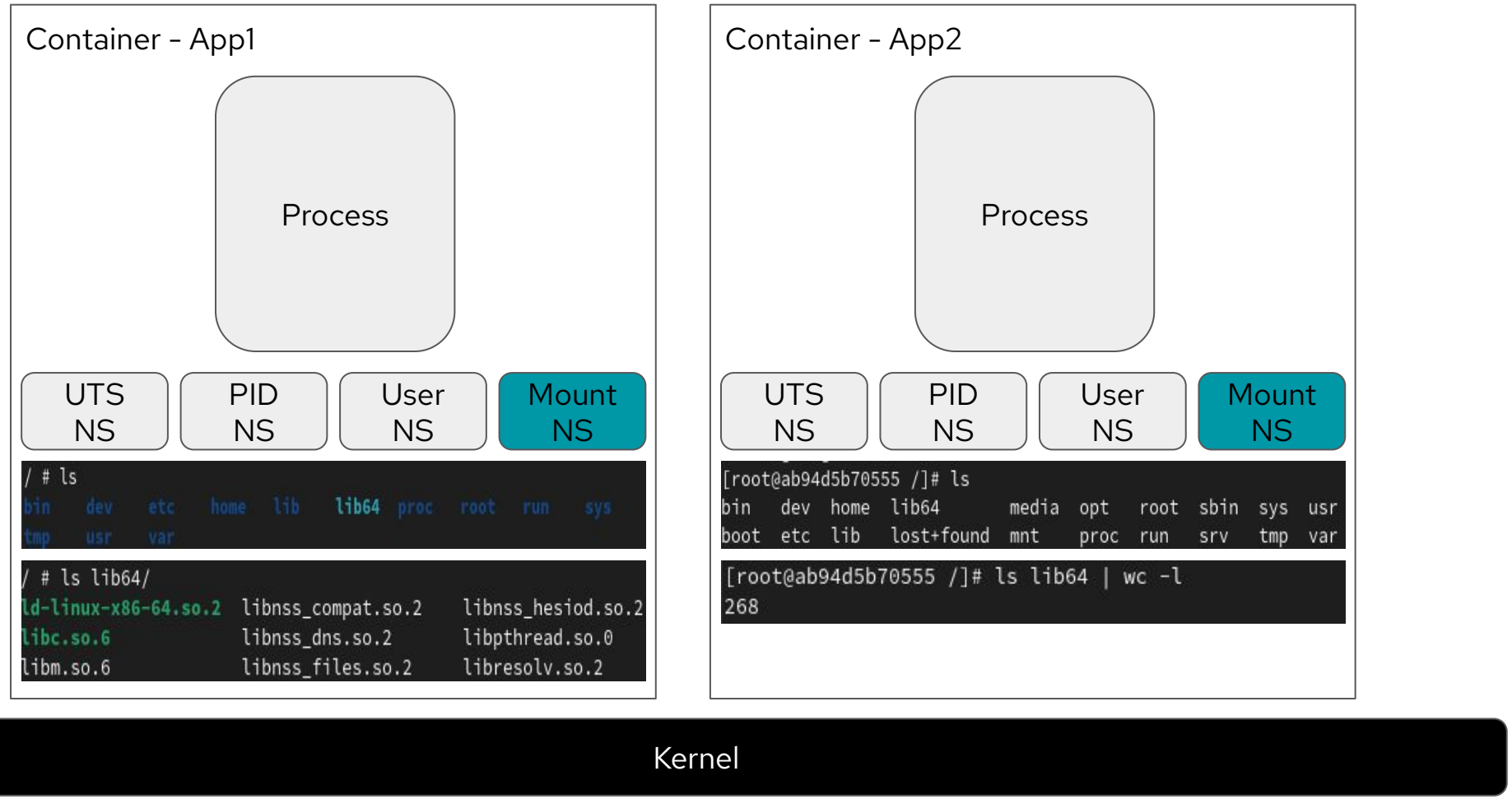
Why Containers?

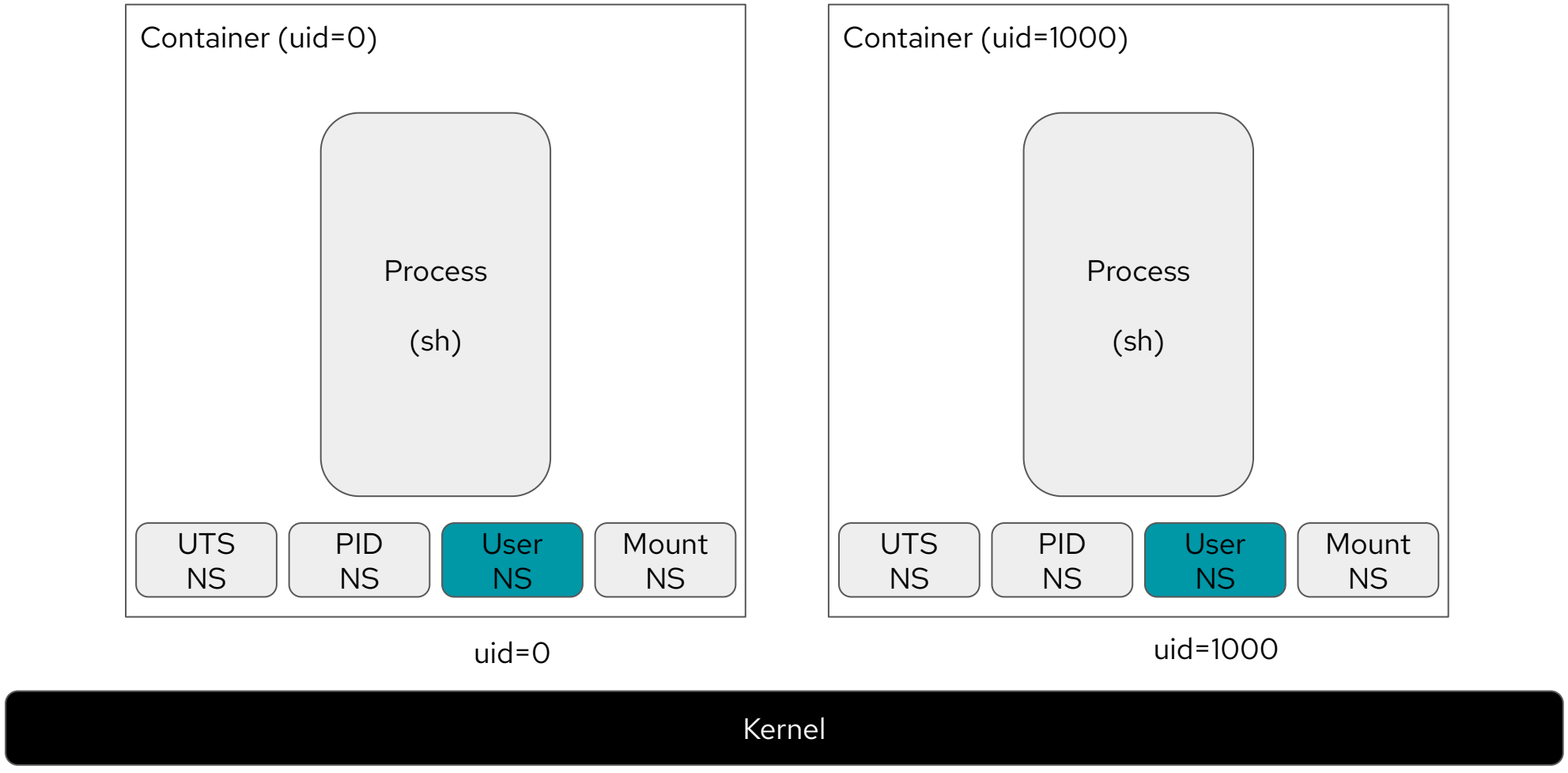


Summary

- A Container Image is:
  - JSON metadata
  - JSON config
  - TAR file(s) containing files

- A Container is:
  - Linux Process
  - Isolated from the host via namespaces
  - File system uses directory overlays

Podman - Rootful Containers



Podman - Rootless Containers