



Docker Certified Associate

Understanding Namespaces and Cgroups

Docker and Namespaces

Namespaces provide 'isolation' so that other pieces of the system remain unaffected by whatever is within that namespace.

Docker uses namespaces of various kinds to provide the isolation that containers need in order to remain portable and refrain from affecting the remainder of the host system.

Namespace Types

- Process ID
- Mount
- IPC
- User (currently experimental support for)
- Network



Docker and Control Groups (cgroups)

Control Groups provide resource limitation and reporting capability within the container space. They allow granular control over what host resources are allocated to the container(s) and when they are allocated.

Common Control Groups

- CPU
- Memory
- Network Bandwidth
- Disk
- Priority

