

Pause

- What is the significance of pause image?
- Special container that Kubernetes creates and manages as "parent" for every pod
- It's a small image that simply goes to sleep and never wakes up
- It establishes and works the pod's network namespace
 - allows all containers in a pod to join pause container's network namespace thereby allowing to share same IP, port space and communicate with each other in localhost
 - if pause container dies, all containers in the pod would lose NW connectivity

and IP address

→ It also establishes and holds pods' Inter process communication (IPC) namespace
- provides containers to communicate using IPC mechanisms like System V IPC, message queues

→ Pause container is the first process in a pod's linux namespace. It is responsible for reaping zombie processes from other containers in a pod

→ If a pause container terminates, kube considers the entire pod to have terminated and will reschedule a new one

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