

Default state

Only one namespace for everything:

- networking (devices, routing ..)
- processes (pids)
- filesystems



It slices, it dices!

A new namespace is born
with a new process. `clone()`
`systemcall`.

Splitting the default
namespace



It slices, it dices, it chops!

A new namespace is born with a new process. `clone()` syscall.



```
pid 27634  
clone(CLONE_NEWPID)  
=> pid 1 (pid 27635)
```

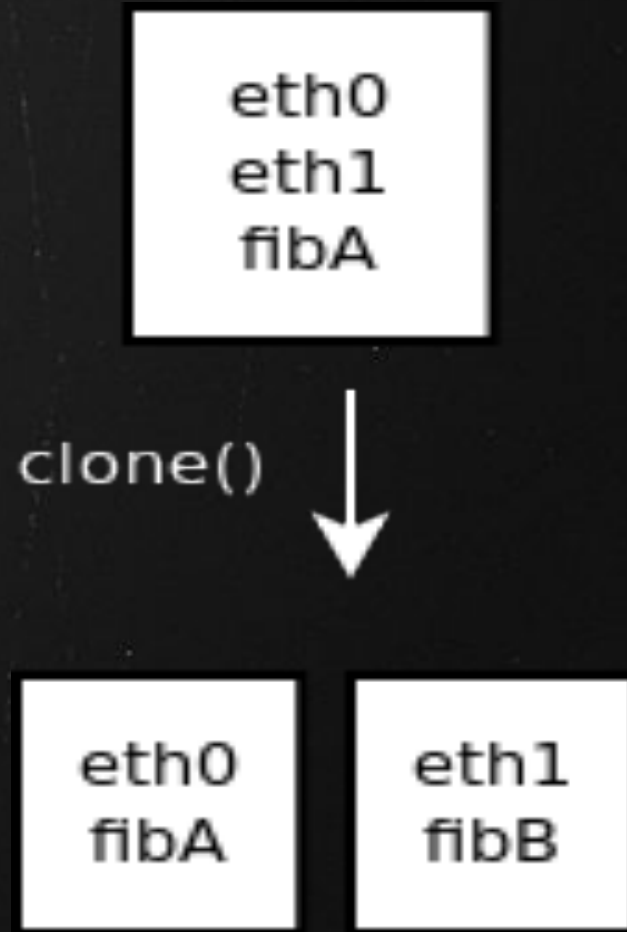
Creating a new pid namespace.



It slices, it dices, it chops --
but wait, there's more!

A new namespace is born
with a new process. `clone()`
`systemcall`.

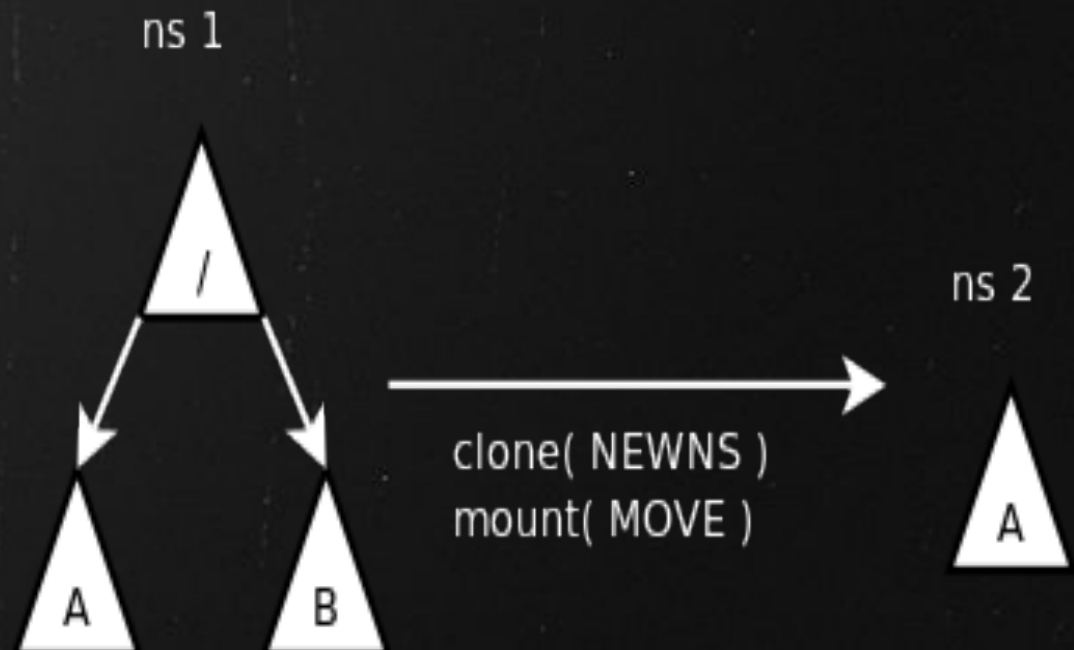
pid 27634
`clone(CLONE_NEWNET)`
=> pid 1 (pid 27635)



It slices, it dices!

A new namespace is born with a new process. `clone()` syscall.

pid 27634
`clone(CLONE_NEWNS)`
=> pid 27635



Special devices

veth

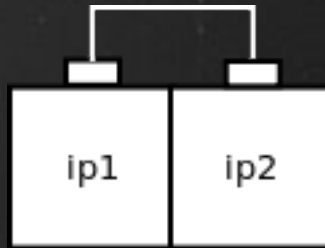


macvlan



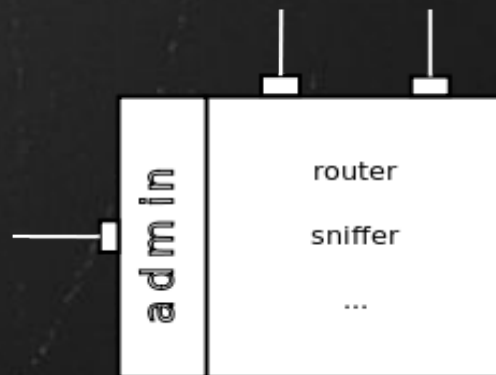
What is it good for?

- Testing.

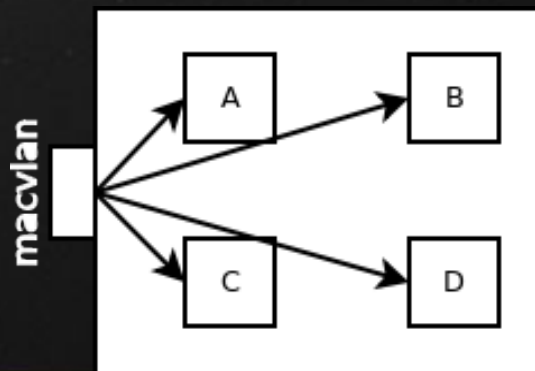


- Isolation.

Separate administrative part from operations part.



- Containers.



What is it good for?

- Intricate problems.
When your usual tools don't suffice.
- Resource control.
control groups etc
- Education.
"virtual" router.
- Shared hardware, separate routing domains.