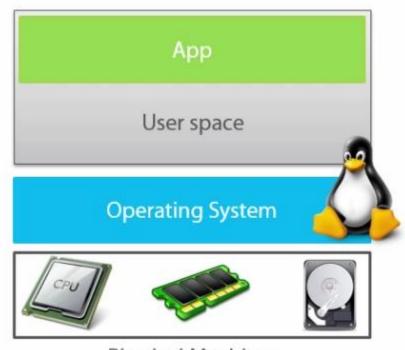
# **How Containers Work**

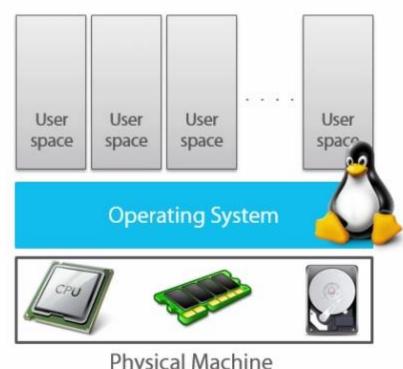


#### Physical Machine



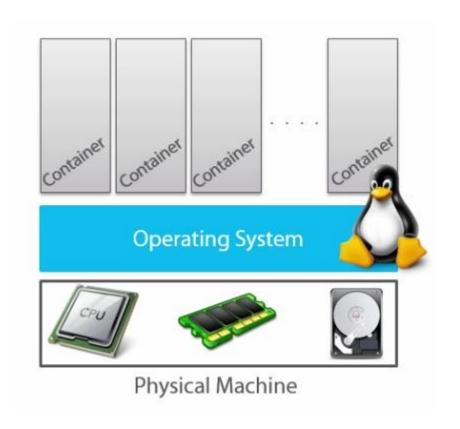
Physical Machine

#### What containers Do?

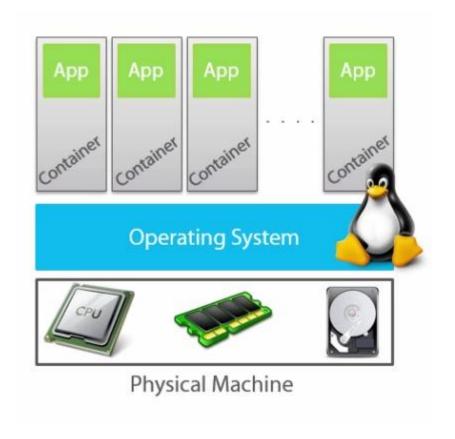


Physical Machine

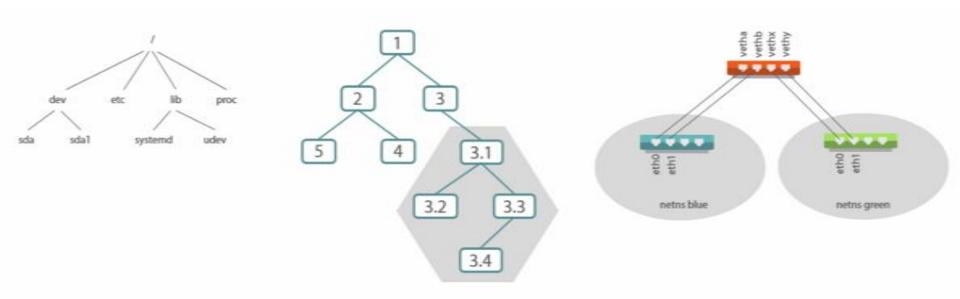
## Each isolated User space is container

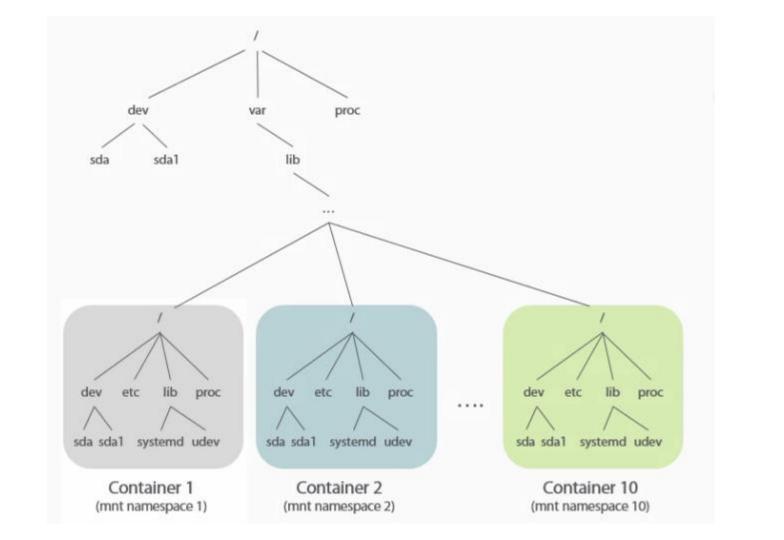


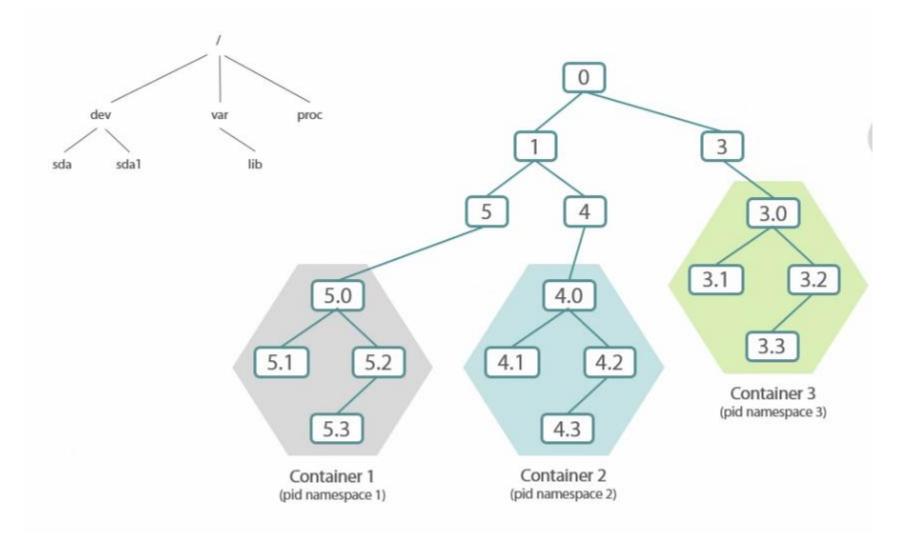
### In each container we install App

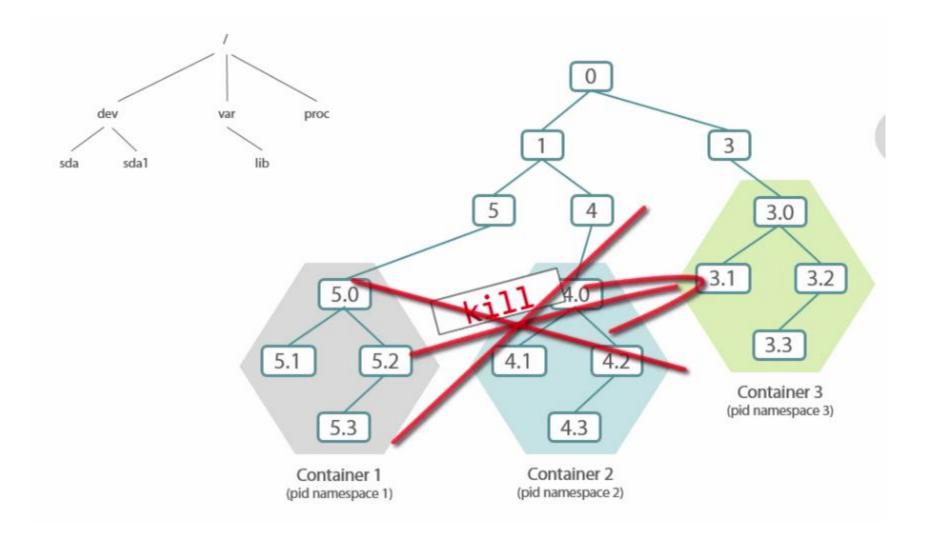


## Process Tree, File System, Network





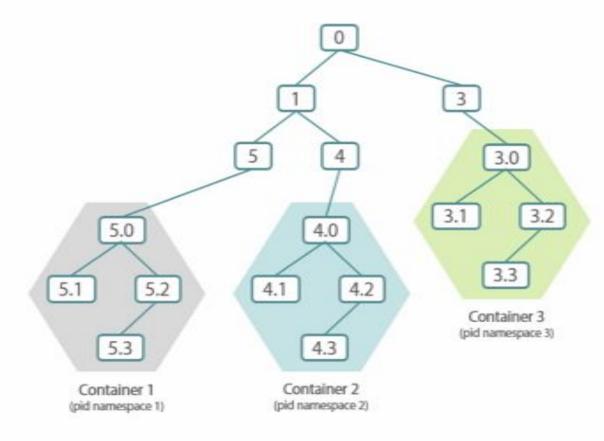




How are these isolations created ???

# Kernel Namespaces

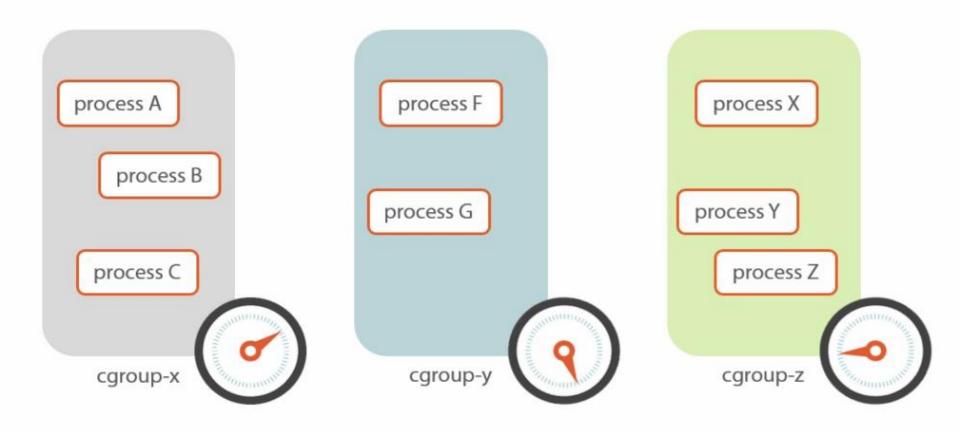
The pid Namespace



## Only Process Namespace

The pid Namespace The net Namespace The mnt Namespace The user Namespace

# Control Groups (cgroups)



# Capabilities

#### root











# Capabilities

#### root

CAP\_AUDIT\_CONTROL

CAP\_CHOWN >

CAP\_DAC\_OVERRIDE

CAP\_KILL

CAP\_NET\_BIND\_SERVICE

CAP\_SETUID 🧼

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