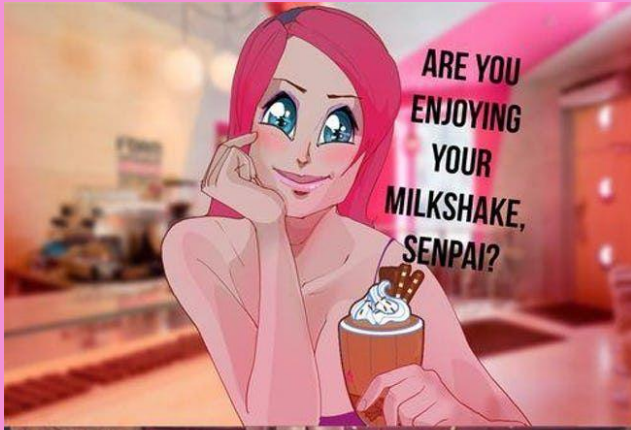


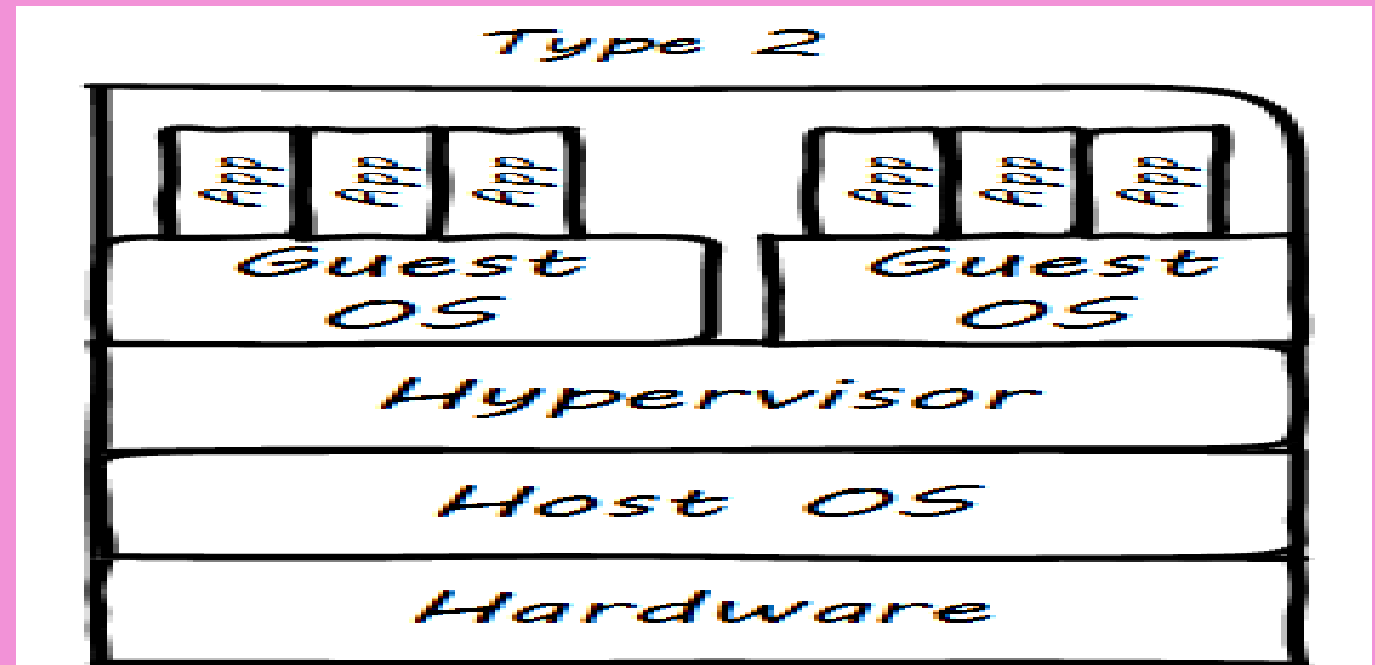
Virtualisation



Pretty Please with a Gherkin On Top Tell Me What That Means Please (Please)



Virtualisation is the process of simulating a computer within your computer. This computer can have a different operating system to the host but it still uses the same physical resources.





If you Don't Know What An Operating System Is

Please Leave

- The host operating system is responsible for managing processes in the host computer, including the hypervisor, and therefore the virtual machine as well. Very important. Gotta have it.

The Host
Operating system
is like a mother...

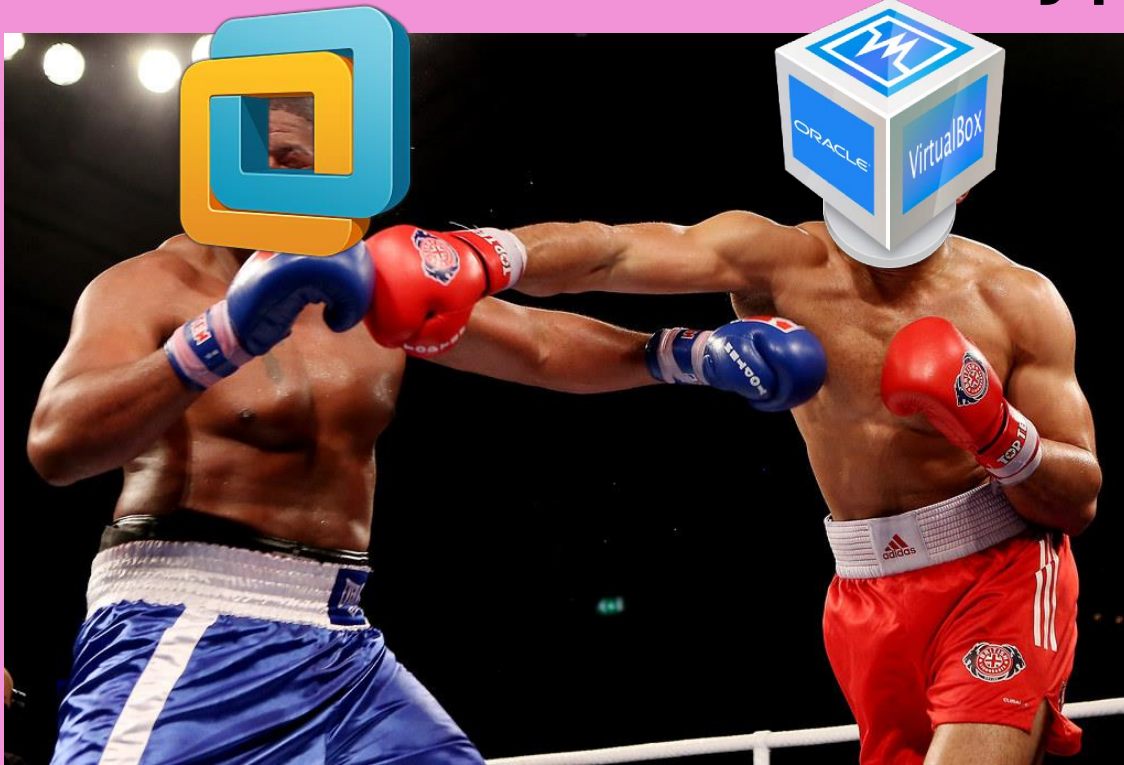
gentle, caring,
womb, kernel and
gentle



The Hypervisor



Hypervisor



- The hypervisor is like the umbilical cord of the computer – feeding your baby virtual machine the nutrients it needs to function
- The two most popular ones are VirtualBox and VMWare; we will be using VMWare in the labs but Virtual Box is better and we would recommend it for home use.



Hypervisor Part 2 – Resource Allocation Boogaloo

In a virtualisation setting you would use the hypervisor to format your virtual machine. In the creation process, you can decide the amount of resources allocated to simulated device as well as the version of the VDI save-states you're using and where they're stored.

There's a very handy video guide on our YouTube that goes over the recommended settings for VMs



Subscribe



A close-up photograph of a person's hand holding a small, curled-up, grey, pig-like creature. The creature has a wrinkled, pig-like skin texture and a small, dark eye. The text "THE VIRTUAL MACHINE" is overlaid in the center of the image in a blue, pixelated font with a black outline.

THE VIRTUAL MACHINE

What the **FUCK** is a virtual machine???

(No seriously, what is a virtual machine? I have no idea, please guys)

- A virtual version of a computer with it's own operating system running on the host system
- Host uses a hypervisation software to contain the machine
- Uses the physical resources of the host computer
- Virtual Machine is the baby

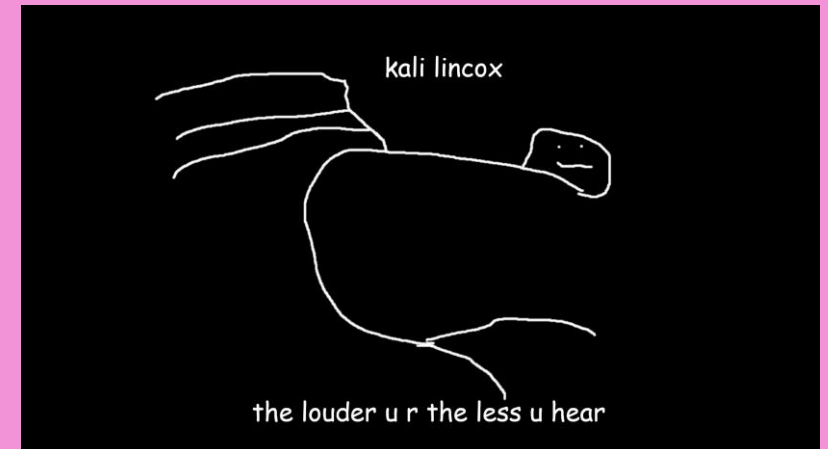


The Guest Operating System



KALI LINUX

- Hacker af
- We will be using Kali as our Virtual Operating system for pretty much everything in our sessions
- It is a linux-based operating system designed for ethical hackers – comes pre-installed with a bunch of useful hacking tools
- The guest Operating System is the soul of the child. It's the personality of your virtual machine.





Don't
forget...

YOU'RE THE DADDY

On a serious-ish note, the computers we will be using can be very dangerous in the wrong hands so it's important to not use the skills you *might* acquire here ONLY when you have permission. Raise your "child" to be good. Nat and I will not be held responsible for any damages done (but we would find it really funny)



You're the best, Dad!
I'm so blessed
to have a father
like you.