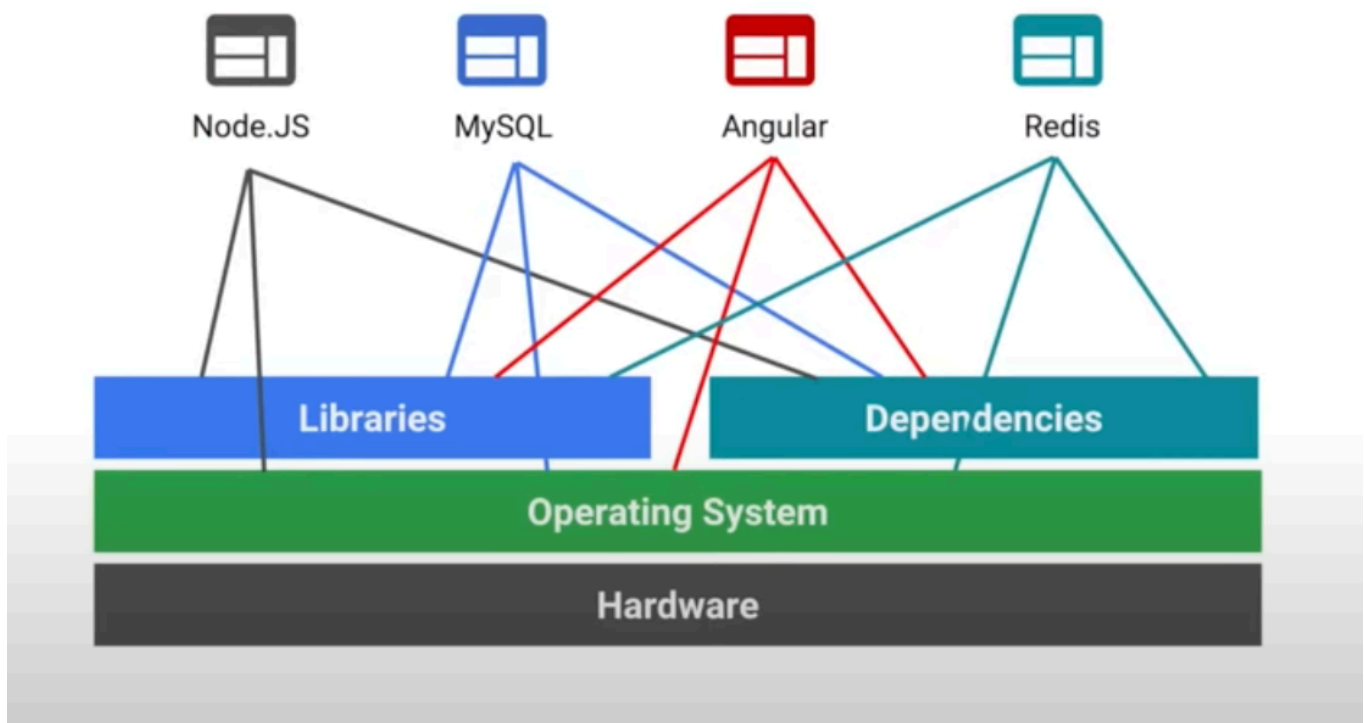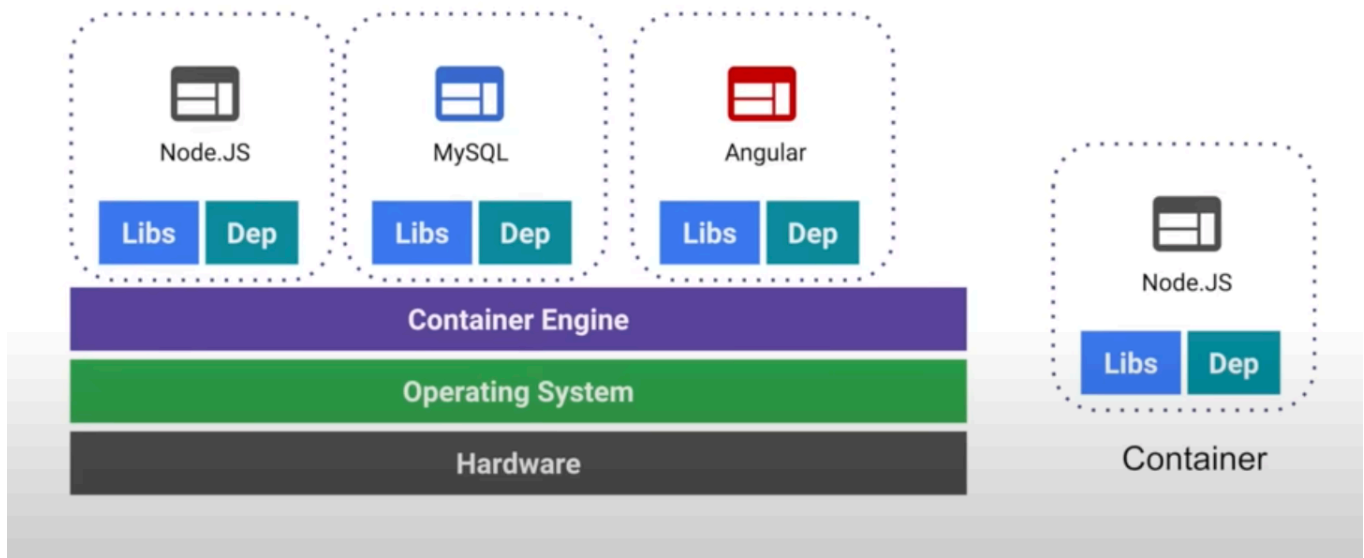# Containers

Traditional Deployment -> you would have Hardware which you run the OS on and then you would have your application that has to use different libraries and dependencies, now within this application each has its different libraries it needs to use and different dependencies and even from this they might have issue causing version such as MySQL needing version 10 for example by Node.JS needing version 12 within a particular library.

This is known as Dependency Matrix Hell, when you can't really update or improve your application.

Containers help by

- Building, Shipping, Deploying, Scale, all with ease.

as we can see that on top of the regular hardware and OS, we will now have a container engine, in which we will have different code files, all with their own libraries and dependencies

Basically it makes the application much much easier to manage, deploy and maintenance.