DEVOPS EASY LEARNING

Class review
S5GROUP5
BrainCells
(DOCKER)

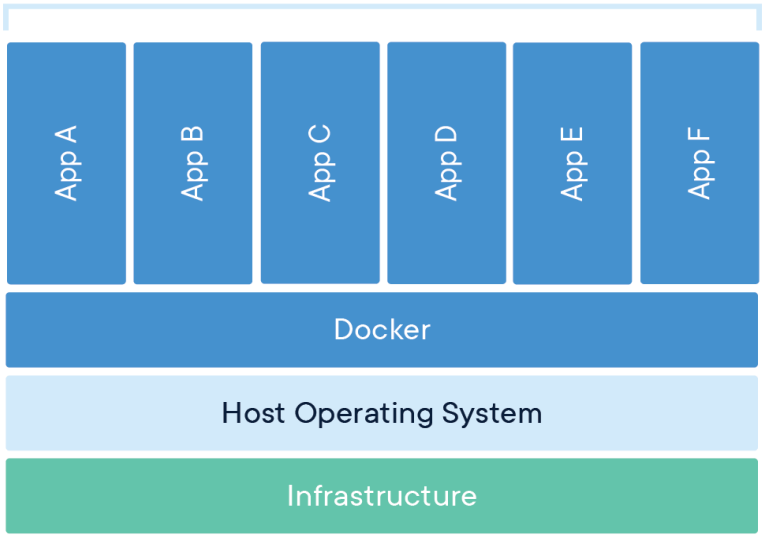
Some Docker Terminology and Architecture

1. What is Docker? it is a tool used to containerized applications
2. What are the characteristics or features of Docker? easily scalable, increase productivity, boot up fast, reduce infrasctructure and maintenance cost,
3. What is a container? is a software package that consist to all the dependencies, instructions, and configuration required to run our application
4. What are the advantages of using Docker container fast, light, required less resources, more productivity, availability of our application (they can in many containers), solve the dependencies issues
5. What is Virtualization? it is a process that consist to the creation of visual representation of computer, hardware, and network virtualization came to solve the issue that we have with the traditional deployment
6. What is Hypervisor? it is the software that handle virtualization. it helps to launch many virtuals machines in which we will run our application.
7. What is Containerization? it is a process uses to create a container and to package our application with his dependencies, configuration, and instruction inside that container.
8. Can you please briefly explain Docker Swarm?
9. What is a virtual machine it is a virtual representation of a physical computer, that can run programs and operating systems and do other computing functions such as maintenance, update, connect to networks and store data.
10. Differentiate between virtualization and containerization. containerization handle dependencies, virtualization does not handle dependencies. containers are light because they share the same kernel with the host operating system. they are also easy to boot up. virtual machine are heavy because each virtual has his own kernel, the boot up time is longer.

Some Docker Terminology and Architecture

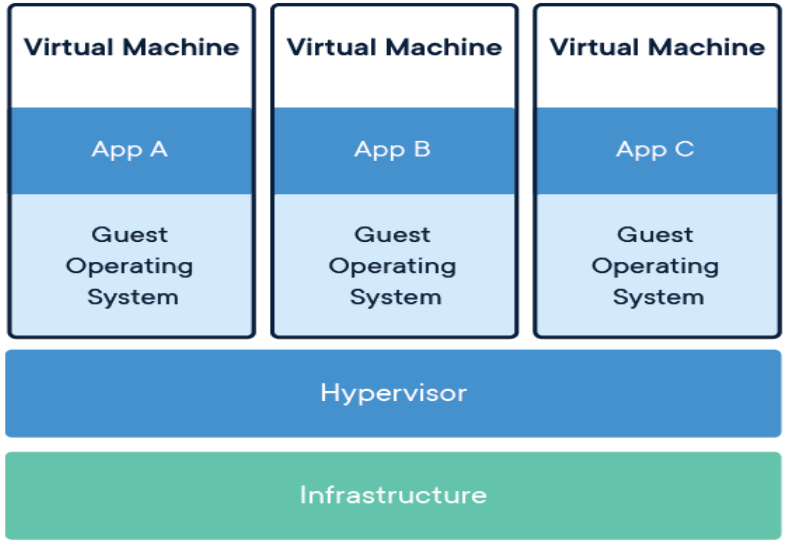
Look at the image(A and B) below and identify what type of application architecture is it?

A



containerization

B



virtualization

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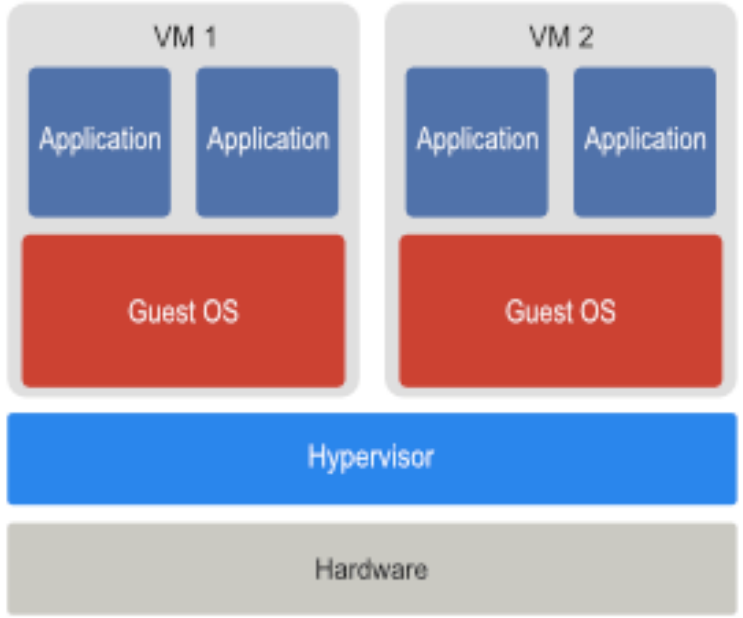
Some Docker Terminology and Architecture

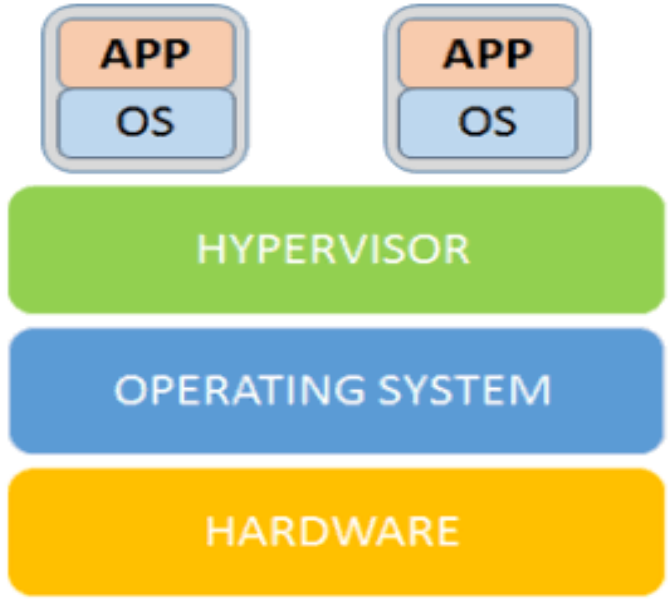
Can you please identify type of hypervisor and explain with example each layer on the image below?

A



type 1

B



type 2

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