



CONTAINERIZATION

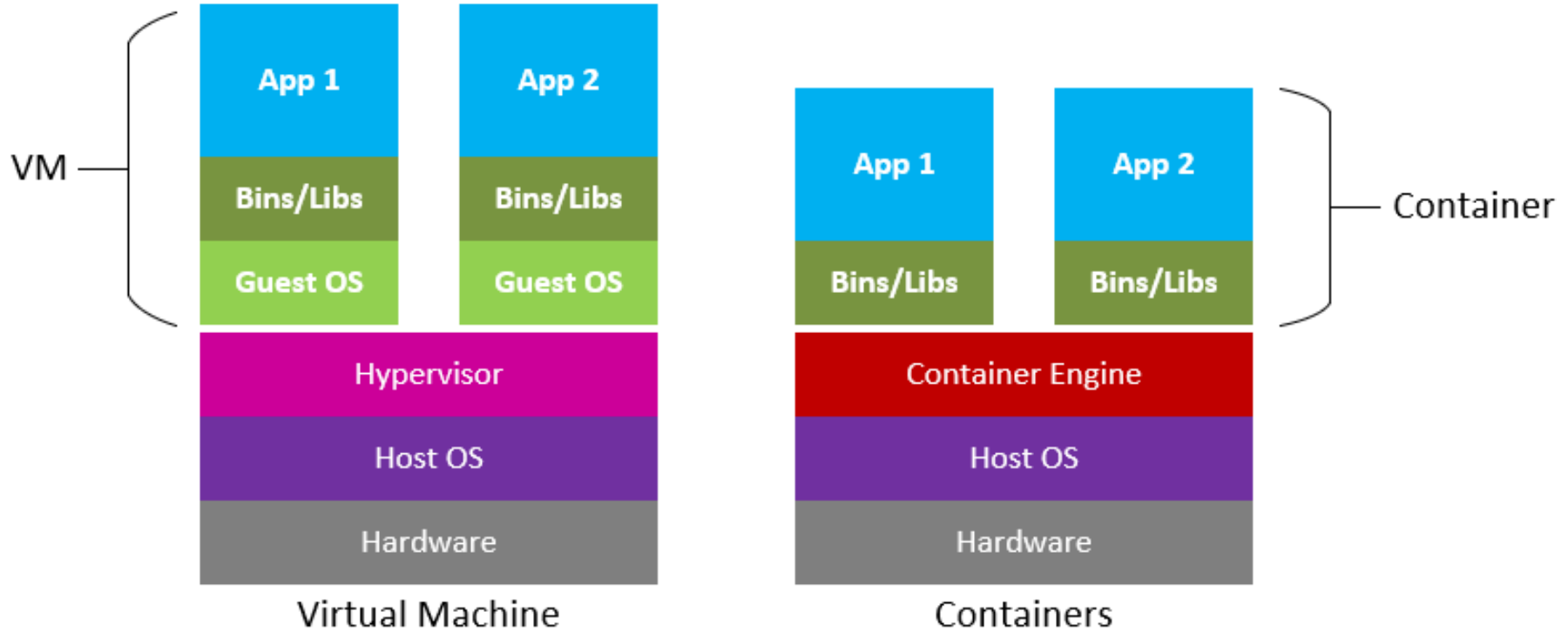
Genepi Group Presentation



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Virtual Machines Vs Containers



Containers

- Container are like sandbox process.
- Container are streamlined way to build, test, deploy and redeploy applications on multiple environments from a developer's local laptop to an on-premises data center and even the cloud.
- It will be used to isolate applications from one another.
- Examples: Docker, Kubernetes, Openshift

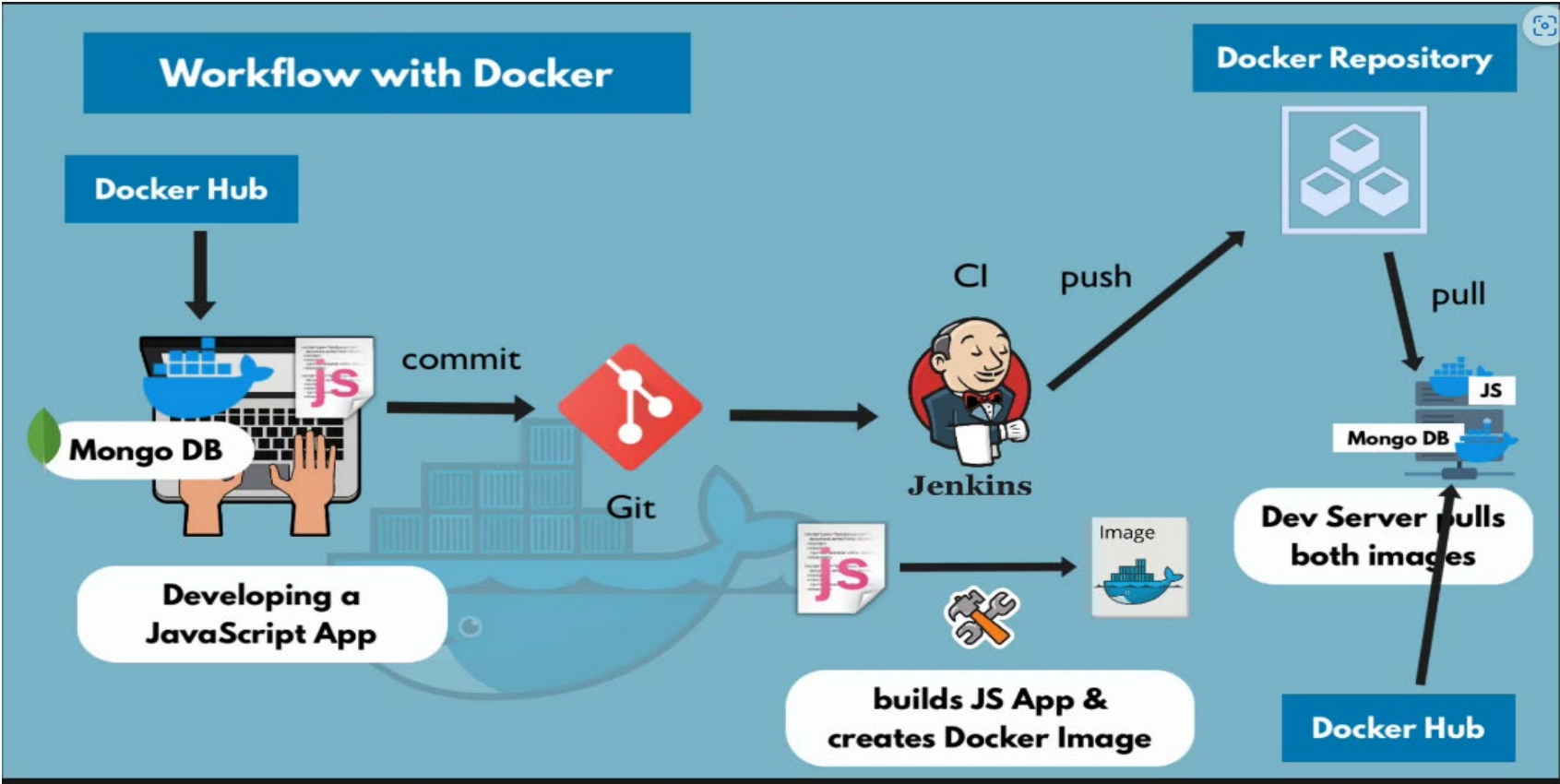
BENEFITS OF CONTAINERIZATION

- Portability - move the image anywhere
- Faster than VM's
- Memory limitations in VM's
- Consistent - work same irrespective of where they are deployed
- Easy deployed into multiple different OS and hardware platforms
- Scalable - copy instances of an application and to move instances between different environments easily.

Docker



Docker Workflow



Main idea of using container in LPF project

- To create a docker file including the main files, dependencies and packages, starting commands to launch and run the application anywhere.
- Template file will be available for easy access from github.

Rescued with container for LPF project

- Software version mismatch
- Missing files
- Whenever we change some code they will be able to pull the latest image and access the latest changes immediately.
- Docker images are immutable- which means alternative layer can be build on top of the image.

