



Containerized Deployment

PDS Technical Session
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Topics



- Overview
- Container vs. VM
- Proposed Containers
- Wrap Up



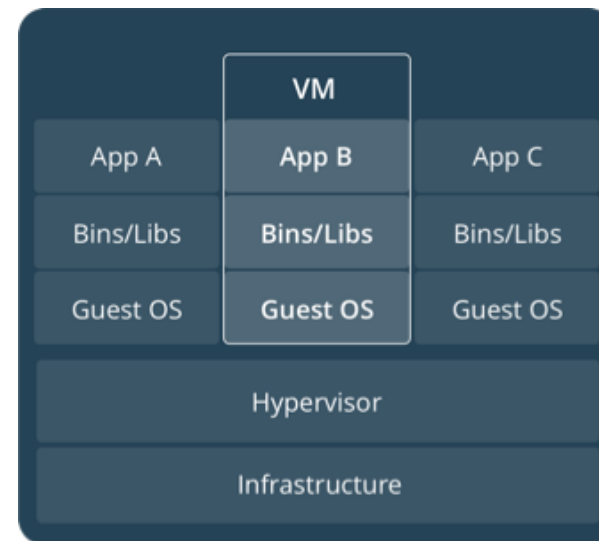
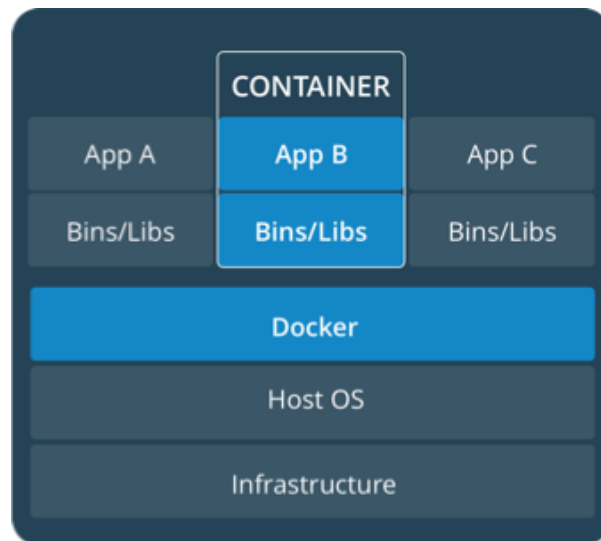
Overview

- EN is investigating the use of container technology for deploying PDS4 software
 - Mainly focused on PDS4 services and not necessarily tools
- Goal is to simplify deployments at the EN as well as the Nodes
- Docker is a technology commonly in use at JPL and will be used in the first prototype



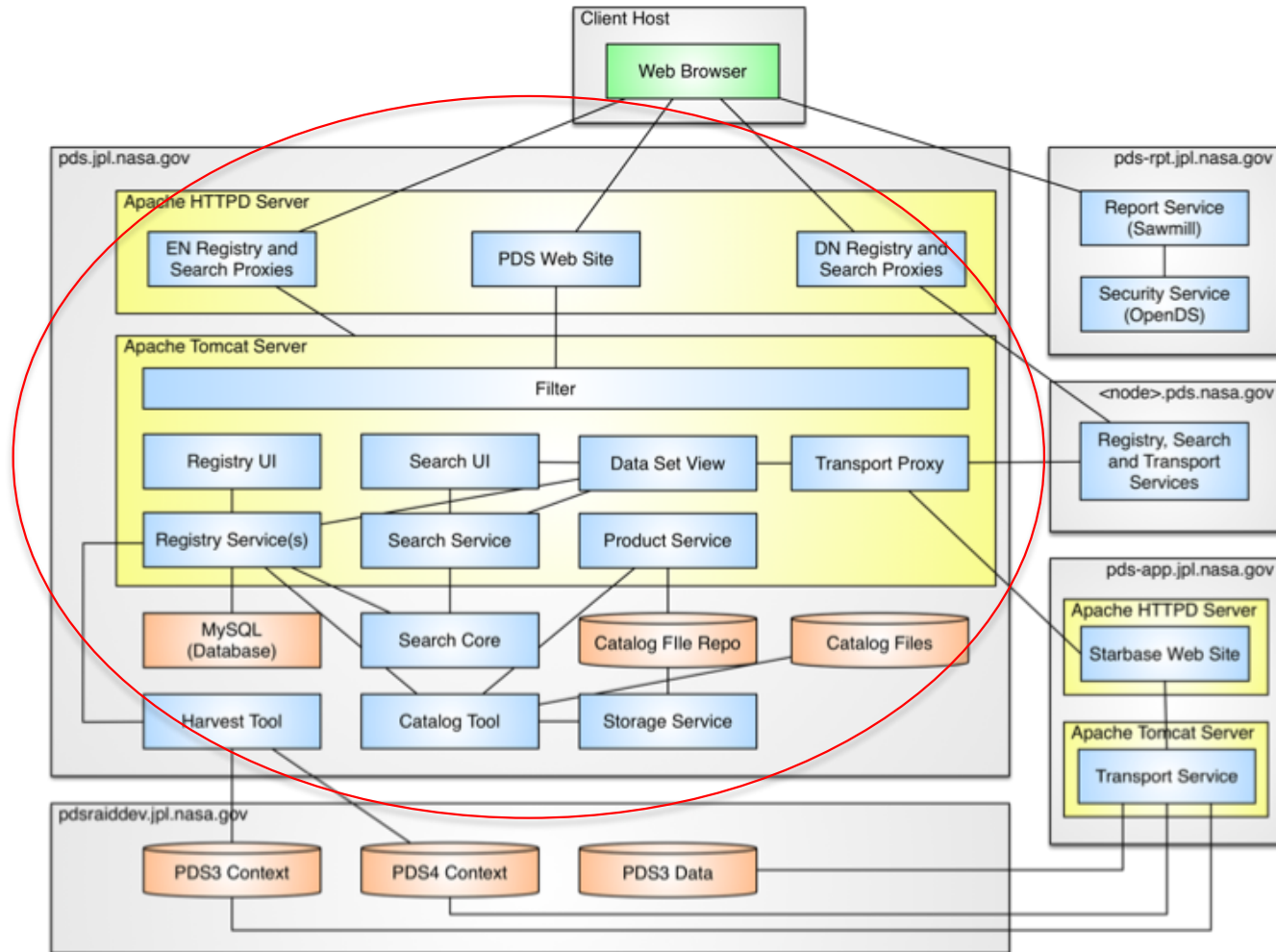
Container vs. VM

- A **container** runs *natively* on Linux and shares the kernel of the host machine with other containers.
- By contrast, a **virtual machine** (VM) runs a full-blown “guest” operating system with *virtual* access to host resources through a hypervisor.



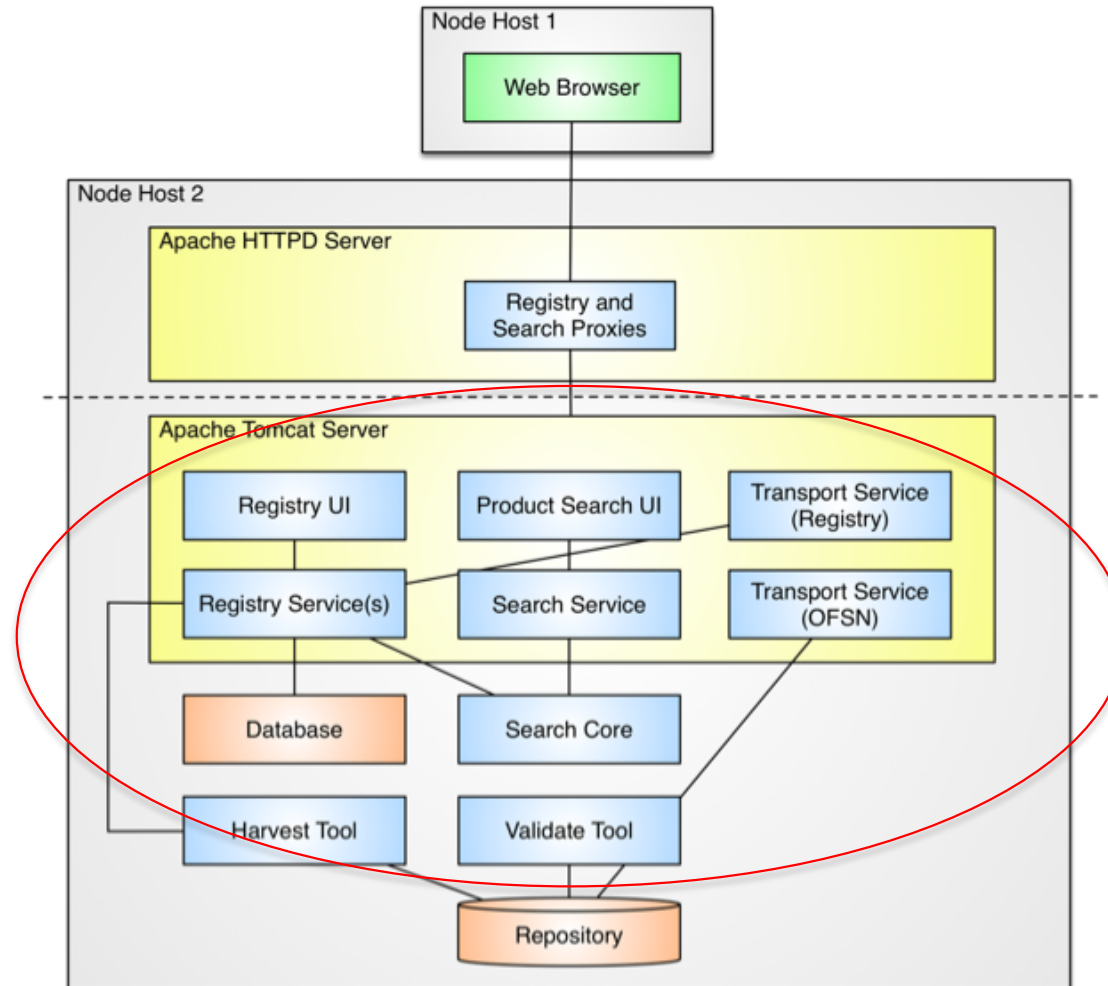


Proposed EN Container(s)





Proposed DN Container





Wrap Up

- Develop a plan for utilizing container technologies to improve software installations
- Create prototype container deployments
- After testing at the EN draft DN testers
- Assuming all goes well, Build 9a deployments will be containerized

Questions/Comments