## Docker 1) Hutory & Motivation 2) Tech overview 1) Containers 2) Docker 3) Installation / set up & hello world 4) Using third hauty containers 5) Domo Application 6) Building Container Images 1) Docker file Basis 1) Wocker file Basis 1) Wocker file Basis 1) Builds + multiarchitecture

7) Container Registories
8) Rumning Containers
9) Container Security
10) Anterading with docker Objects
11) Development Work flow
12) Defloying Containers

Virtual Machines (Nunthedated) I) Molivation for Containus (Physical) Machine Vestual Machine# 1 Vistual Hackin # 2 developer docker (wee) ARB2 April ) Ben/Ub) La makes the war's system Benaries/46 as close or favourable 05 to run the foodest OS Virtual fall Vistual Jarduary Docker - It's a standone, executable Hypervisos Container package of software that includes every thing needed populary septim (if "type?" hy fewisor) No defundancy conflicts Physical Landware to run an application · Betta idilli zali on · Small Host radius Container image (class) · Fast provisiony a de comissioning (moredes) where as the container we run is an instance Most (Vistual of Physical
machine)

Containwr#1 Contain #2

Ahp # 1

Ahp#2 (OCI) Ofun Container and Hatire · Run Time Spurfication · Amage Specification Distribution specification Bin/lib Bin/lib \* Hellish defending conflict Most 45 Jalons

· How railing at onefficiency container runkm offerating system Virtual or Physical Large Blant radius Host (Physical) Machine · Slow stout upt shutdown sfeed Note => Spans dinux Kennel App # 1 App # 3 · No defending conflicts · Very slow provisioning Binaries / librarie · Even Better welgation ( how to days) · Small blast Operating System · Cours laster starub Physical Hardward Faster Browser rung highboargt mough to use in other.

VM + Containus + Orchestratox! Host (Physical) Machine VM#2 Bin / Lib Budlib Runting Contanus Container Rinkon Operating system Operating Sys Virtual hardware Vistuel Ravidware Hypricon Physical Kardware Containe -=> yellow -> green Virtuel Machine Bare Newfal Defendency Uti Cization Godati on start rep Dev/Prod Parety Control Performanu Gerational overled

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I Tech Overview

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Changes to the global occounce are visible to the other members of mamafase, but are invested to

Part-3

Union Filesystem Control Growing (frome Front overlay 1 1 1,2 1,3 Limit & mone for access of witaen upp 1 126 por resources (cou shares) book 15 App A · The repto 30 / con eyely # Marry com shari Un repto 50 MB Homog (memory) Same · Throffe nads to SMB/2 10 wer (blue, throtherealths duris) leve! withor 40% of the Cycles · aufto 100 M B Newsy · Throffle reads to 10 MB/s (Heis, Howtle read the derive Alvoid Noise Resource Meighbour Droblem 7. problemy

