⇒ Containers > 1 way to parliage application with all the necessary dependencies and configuration > Portable, can be easily should and moved around.

-> Docher hub

Application Development,

Before Containers

-> Applications required

every developers had

had to install services

and dependencies in

their local environment

ond then configure

them and un them

in local operating

system

Acquired many steps

where things could

go wrong.

Application Deployment:
Refore Containers

I configuration on the server

needed.

-) dependencies version conflicts.

-) textual guide of deploy must.

-) mis understandings

After Containers

Doesn't have to instant
services and dependies
directlyon your operating
system. Is nown Os layer
ontainers is nown Os layer
package with all the
configuration

-) checkout the container,
doubload on your local
machine and start
the projects

-) one command to install the cupp.

After Containely

-) Developers and operations work together to package the application in a container

needed on server, except with a pull the docter mage from containers upo and sun it.

Docher Image vs Pocker Container actually start the actual package application application application application and local machine and starting () artifact, that can be moved around, ? contained envisonment not sunning is weated, ru nning With different version with no problem at all.

Buth are virtualization tools. Docker vs Vintral Machine ? It has both) Operating system has two layers

1) as hered torners application and as beened layer, Dales
Vintralizes the applications layer. hence vistualizes the complete aper-ating system. of so when you. and uses the same kelvel download virtea machine image on your host, it) so when pull docter images it daelle 4 uses host actually confusus applications, instead boost op layer of operating system and have some applications installed own host in top of it and wes the kunel of the host as it doesn't TO VM STE 11 larger (in have it's own keenel.) podu size is smaller (in MBI)

) slads and som much faster

) soulies image have compatibility rives I run slower -> Vm of any Os can

QA Test Environments -> Chality Assurance Environments Lesting for perform software testing for validation of it's warling. Containers make development and deployment more easy and efficient → Containerizing the applications. ⇒ Docherizing the application Container is nothing but a combination of layers of images combined running in a environment.

Slayers of image

Mongo Image

Myser Image

Anacorda & Image