

Assignment 2-6

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Create Docker Container Environment (NVIDEIA Docker or any other)

DOCKER:

Docker is a popular containerization platform
that enables developers to package their applicants
applications and their dependencies into a container.
These containers can then be deployed on any system with Docker Installed, making it a highly portable and flexible solution for deploying applications

Features of Docker

- by providing a smaller footprint of the operating system
- e With containers it becomes easier for teams across different units, such as development, QA and operations to work seamlessly across application.
- physical and virtual machines and even on the cloud.
- o Sinco Docker containers are pretty lightweight.

 They are very easily scalable.



PICT, PUNE	
#	Components.
\Rightarrow	Docker has the following components.
	o Docker for Mac - It allows one to run Docker contained on the Mac OS
	o Dacker for Linuxe - it allows one to run Dacker containers on Linuxe OS.
	· Dacker for Windows - it allows one to run Dacker containers
	• Docker Engine - it is used for building Docker images and creating Docker containers
	o Docker Hub - This is the registry which is used to host various Docker images.
	Docker Compose - This is used to define applications using multiple Docker Containers.
	Conclusion:
	Using Docker containers, including NVIDIA Docker, for machine Learning and data science applications can improve portability, reproducibility, scalability, and security.

It, also Simplify the development process and make it easier

to share applications with others.