HW 02: Docker and Configuration Management By VAIBHAV VASHISHT(10474363)

Integration : Let say a tech firm is performing functions on different environments, maybe those can range from IDE tools to testing platforms. Also , there are some parallel developments , rapid development with increment delivery and on top of this the firm needs to maintain multiple releases as well. It is not easy as it sounds , there might be cases where the team is not in sync like using different software versions to update , one might rework as well. So to resolve this Docker helps to maintain a common repository and this is how all the team can be sync and work on the same environment.

Testing : Docker deals with the commendable issue of ensuring that you test a comparable application you transport. Since everything the application needs to run is packaged in the compartment, it can run commonly and dependably over the pipeline, and with different plans - no more inconvenient components to discover. If a Bug is there, by then the bug can be focused on in the particular holder picture.

Deployment : Docker manages to reduce deployment to seconds. This is because it creates a container for every process and does not boot an OS. The three reasons which are key to streamline production deployments are that it supports packaged applications, it supports "Build Once, Deploy Many Times in Multiple locations", it supports easy rollback.

Customer Support : One of the critical benefits of Docker is the manner in which it facilitates issue goals and gives client assistance. Customers can take their own arrangement, put it into code, and send it without any issues.

Internal and external hackers who might attack the system : According to a security point of view, Docker ensures that applications that are running on holders are completely separated and detached from each other, permitting you full oversight over traffic streams and the board. For instance, to address security issues ADP utilizes Docker Datacenter. Docker Content Trust empowers their IT operations group to sign pictures and guarantee that the main marked double will run underway. They additionally perform mechanized compartment checking.

Citaton :
https://dzone.com/articles/top-10-benefits-of-using-docker
http://www.mccabe.com/pdf/Real_Challenges_of_CM.pdf