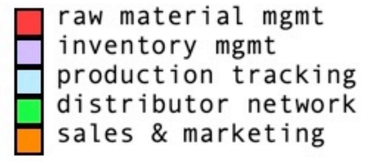
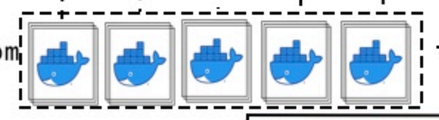
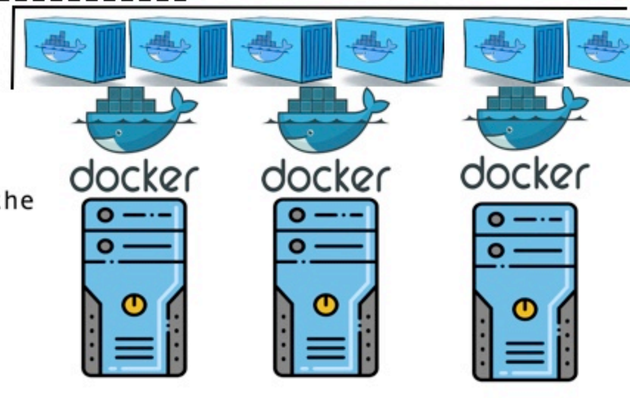
every microservice application should be independently deployable and should be isolated from another microservice
1. independently deployable = no library dependencies
2. isolated env = in its own jvm
bootJar = deploys and runs the microservice application on embedded servlet container

containerization technology

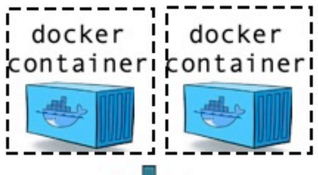
There are 2 things we achieve from docker
1. abstracts the delivery of the app
2. we can run applications isolated from other applications on the same machine by creating containers

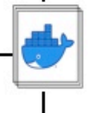






To run a software application we need
1. software packages/libraries needs to installed on the computer
2. configurations
3. the instructions on lauching the application





within the docker image we package
- software packages/libraries
- configurations
- instructions in lauching the application

computer/
docker workstation

run the image by creating an container out of it
container: application running out of an image (isolated)

Now the enduser dont need to know the details of how to run the application what env is required, which s/w packages and configurations needed to run, how to run is not needed. All that we need is the docker image, so that we can quick create container out of the image in running the application.