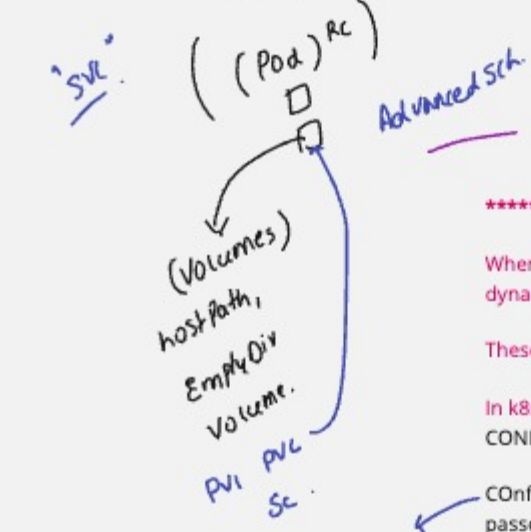


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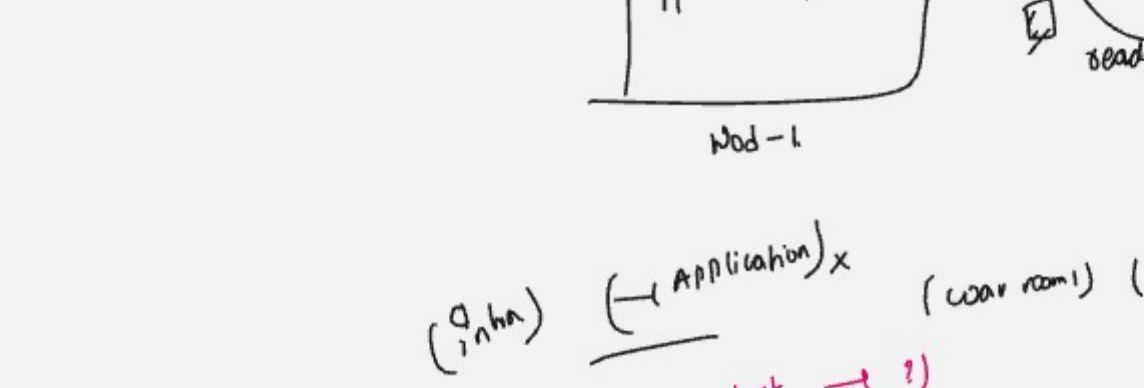
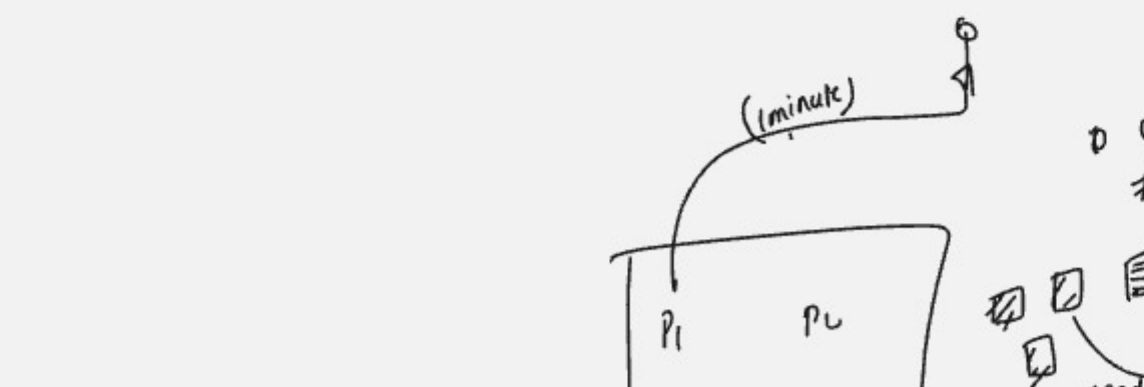
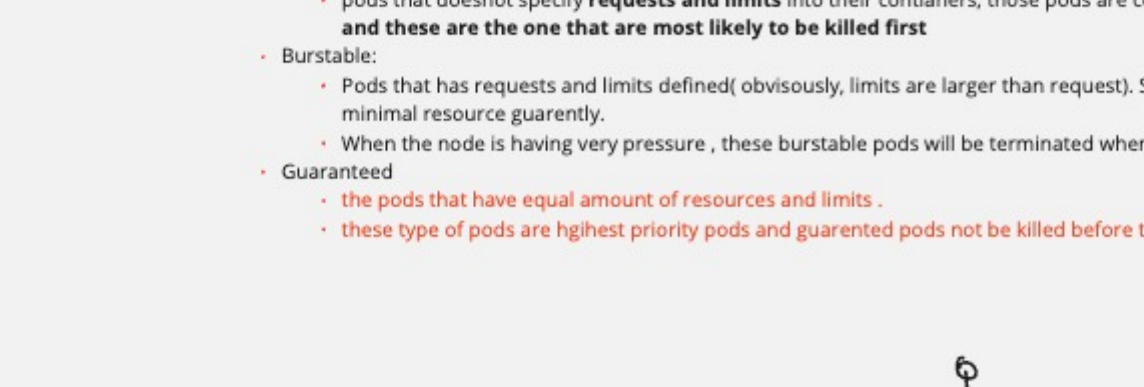
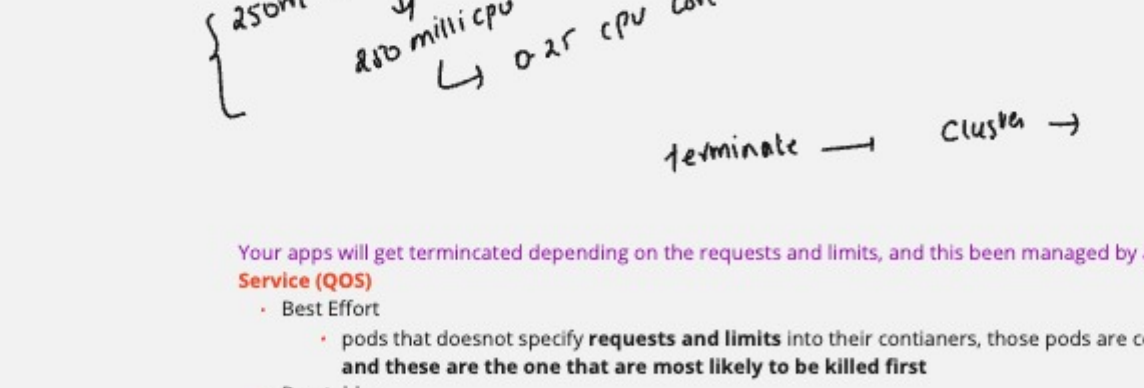
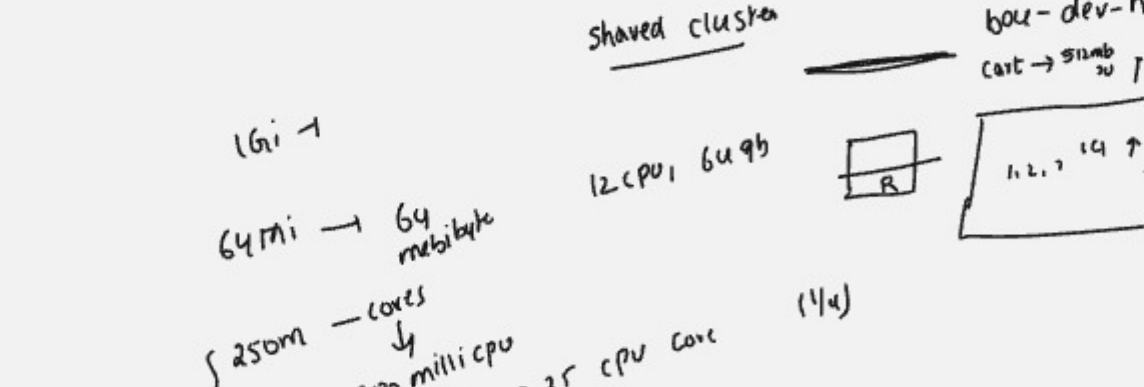
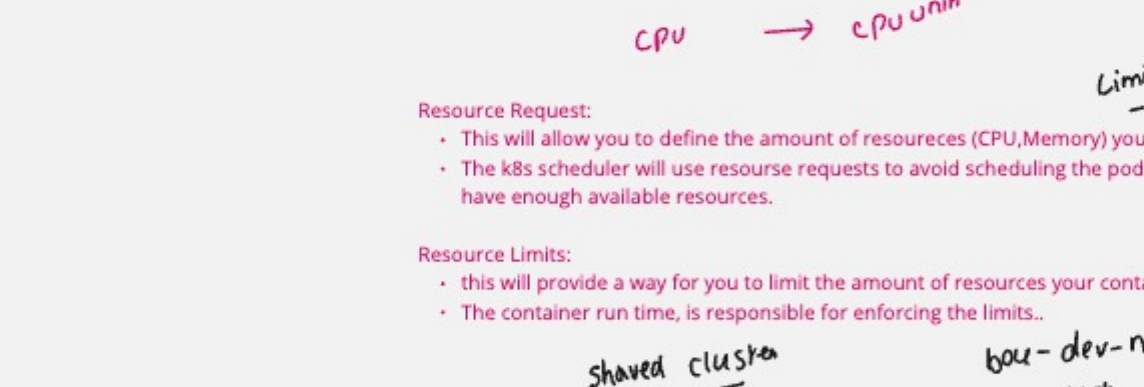
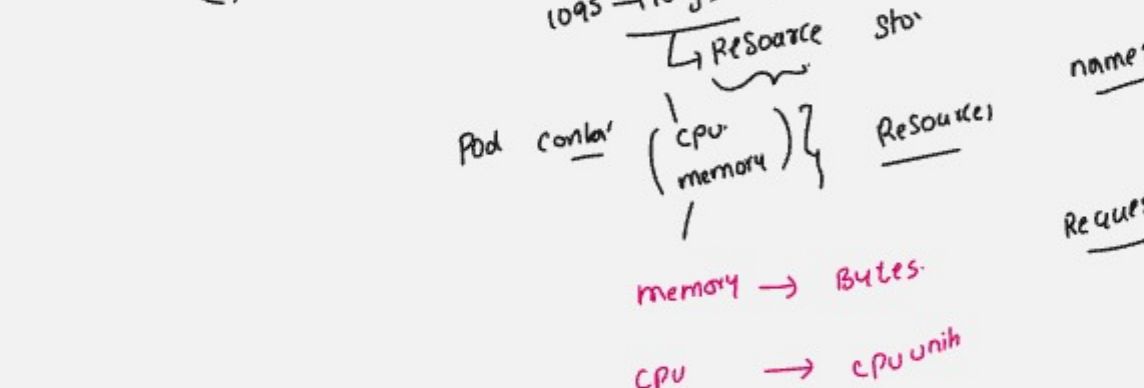
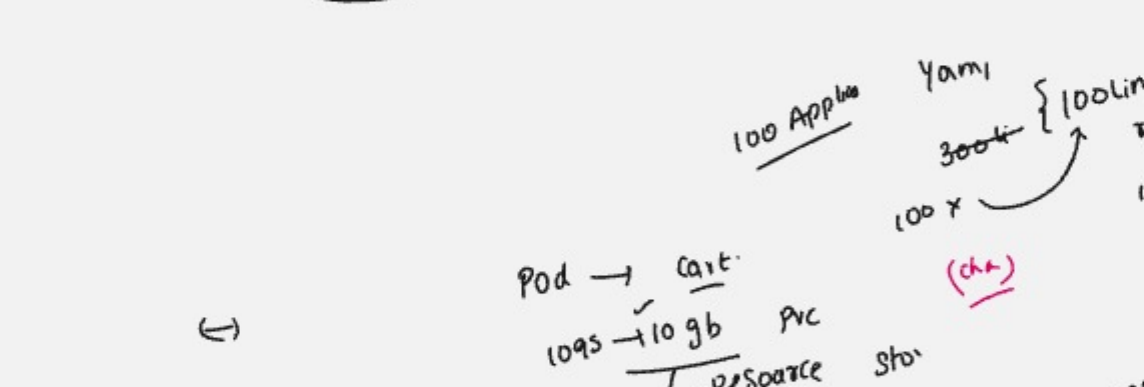
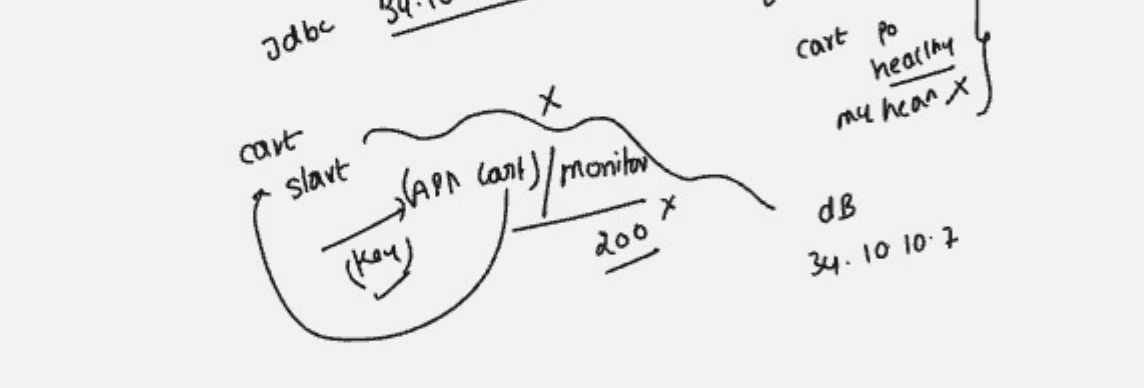
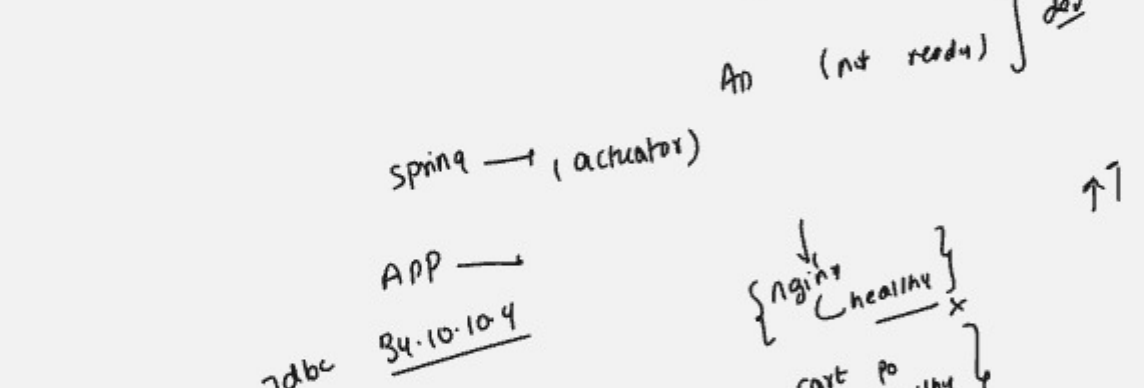
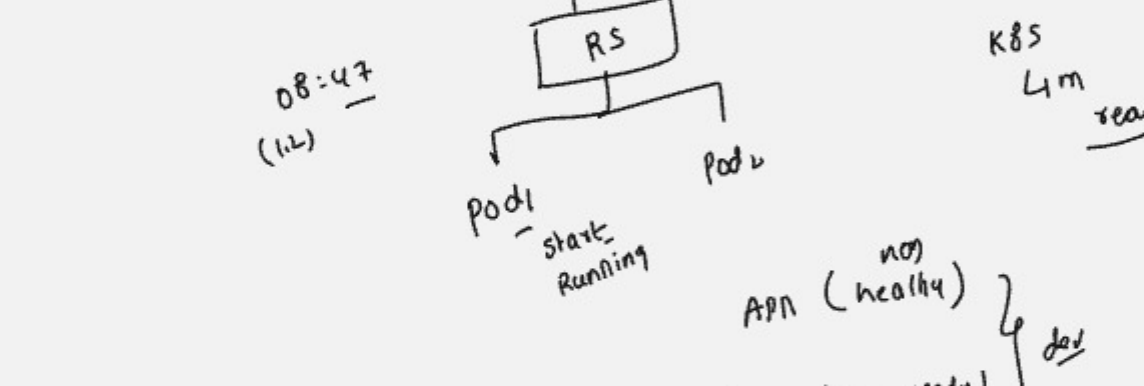
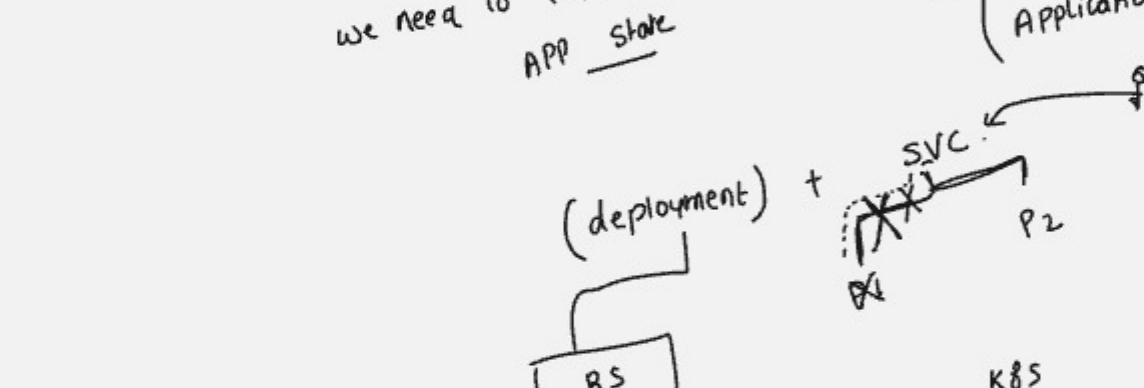
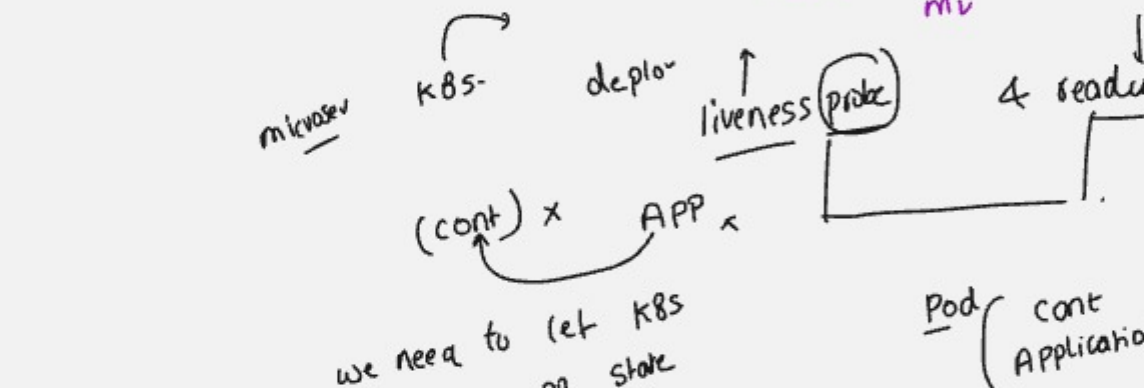
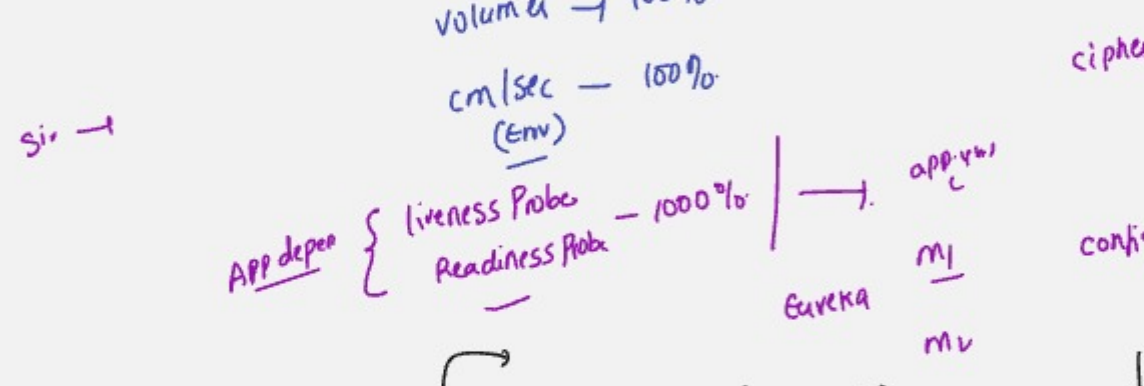
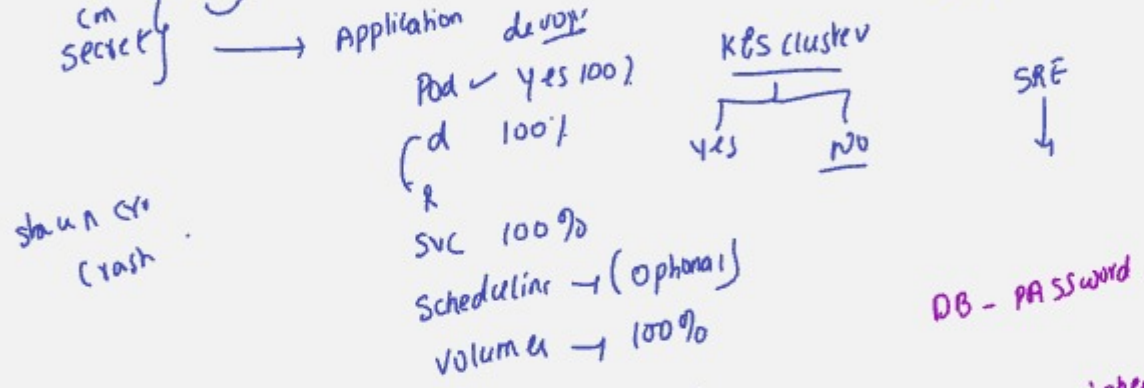
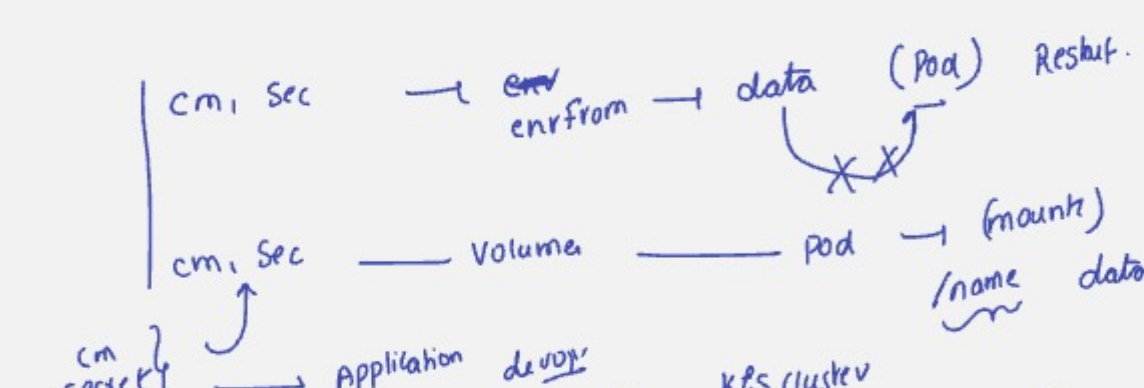
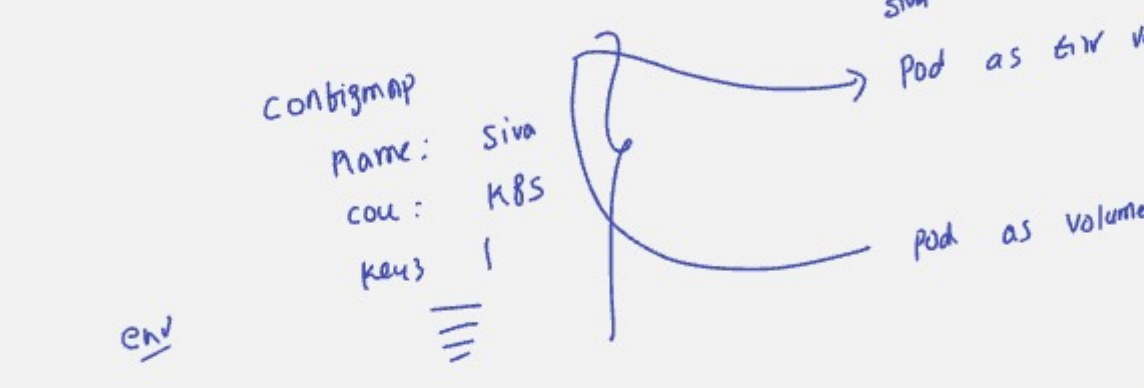
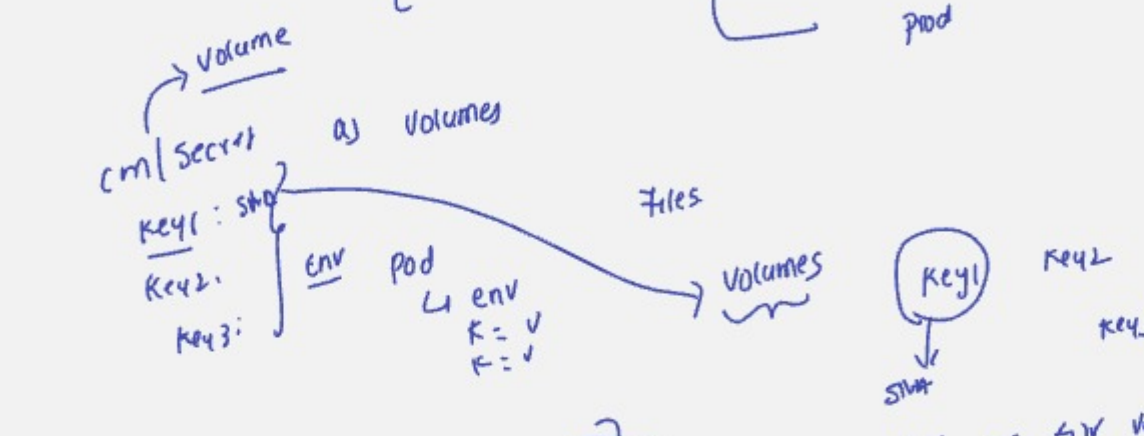
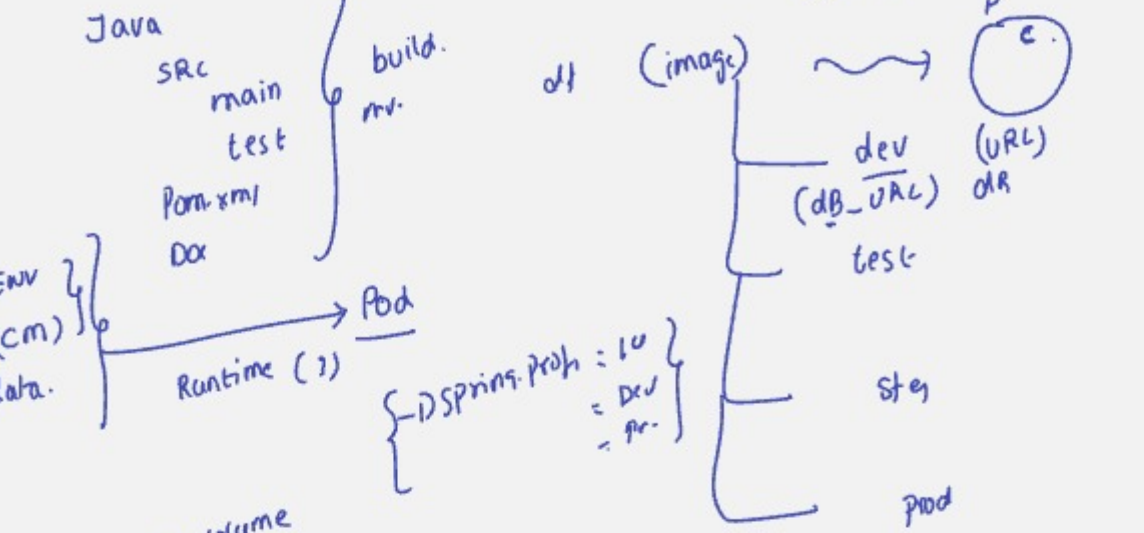
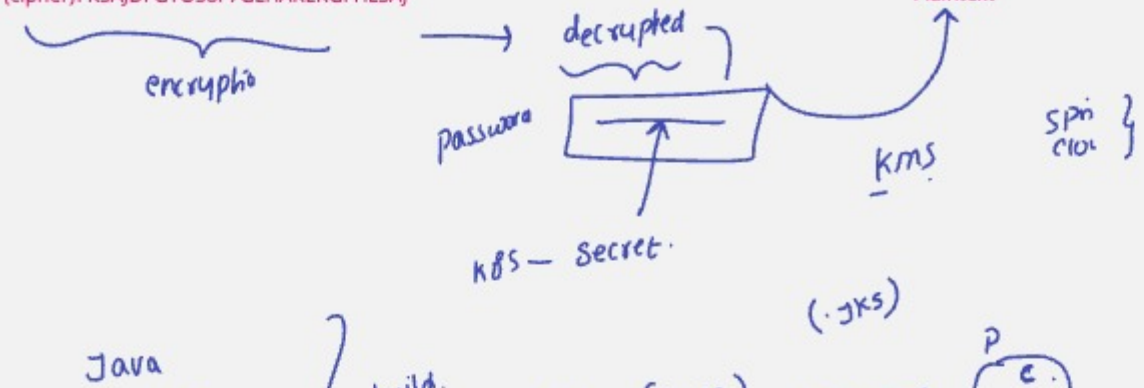
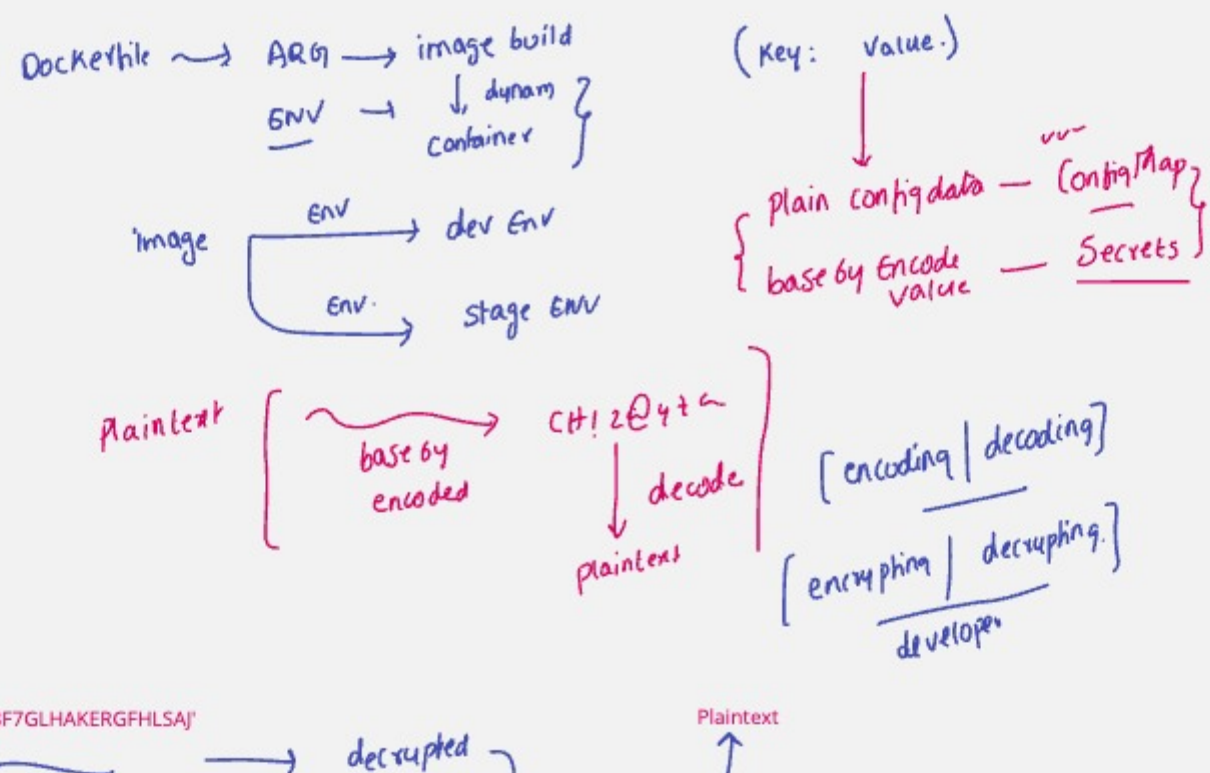
*****IMP*****

When we are running applications in Kubernetes, you may need to pass dynamic values to your application at the run time.

These are called as application configurations.

In k8s, you can store the configurational data in an object called as CONFIGMAP

Configmap, stores the data in the form a key-value pair. This data can be passed to your container application

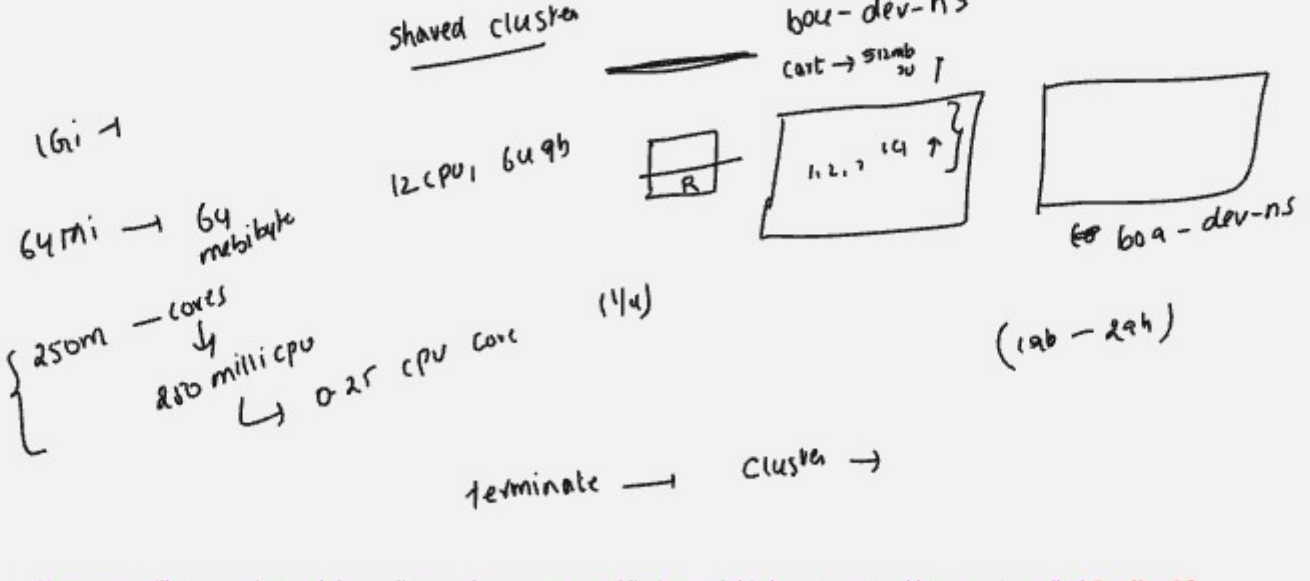


Resource Request:

- This will allow you to define the amount of resources (CPU, Memory) you expect a container to use.
- The k8s scheduler will use resource requests to avoid scheduling the pods on the nodes that do not have enough available resources.

Resource Limits:

- This will provide a way for you to limit the amount of resources your container can use.
- The container runtime, is responsible for enforcing the limits..



Your apps will get terminated depending on the requests and limits, and this been managed by a service called **Quality Of Service (QOS)**

- Best Effort
 - pods that doesnot specify **requests and limits** into their containers, those pods are considered as **Lowest priority** and **these are the one that are most likely to be killed first**
- Burstable:
 - Pods that has requests and limits defined (obviously, limits are larger than request). Such pods will be having minimal resource priority.
 - When the node is having very pressure, these burstable pods will be terminated when there are no best effort pods
- Guaranteed
 - the pods that have equal amount of resources and limits.
 - these type of pods are highest priority pods and guaranteed pods not be killed before the above 2

