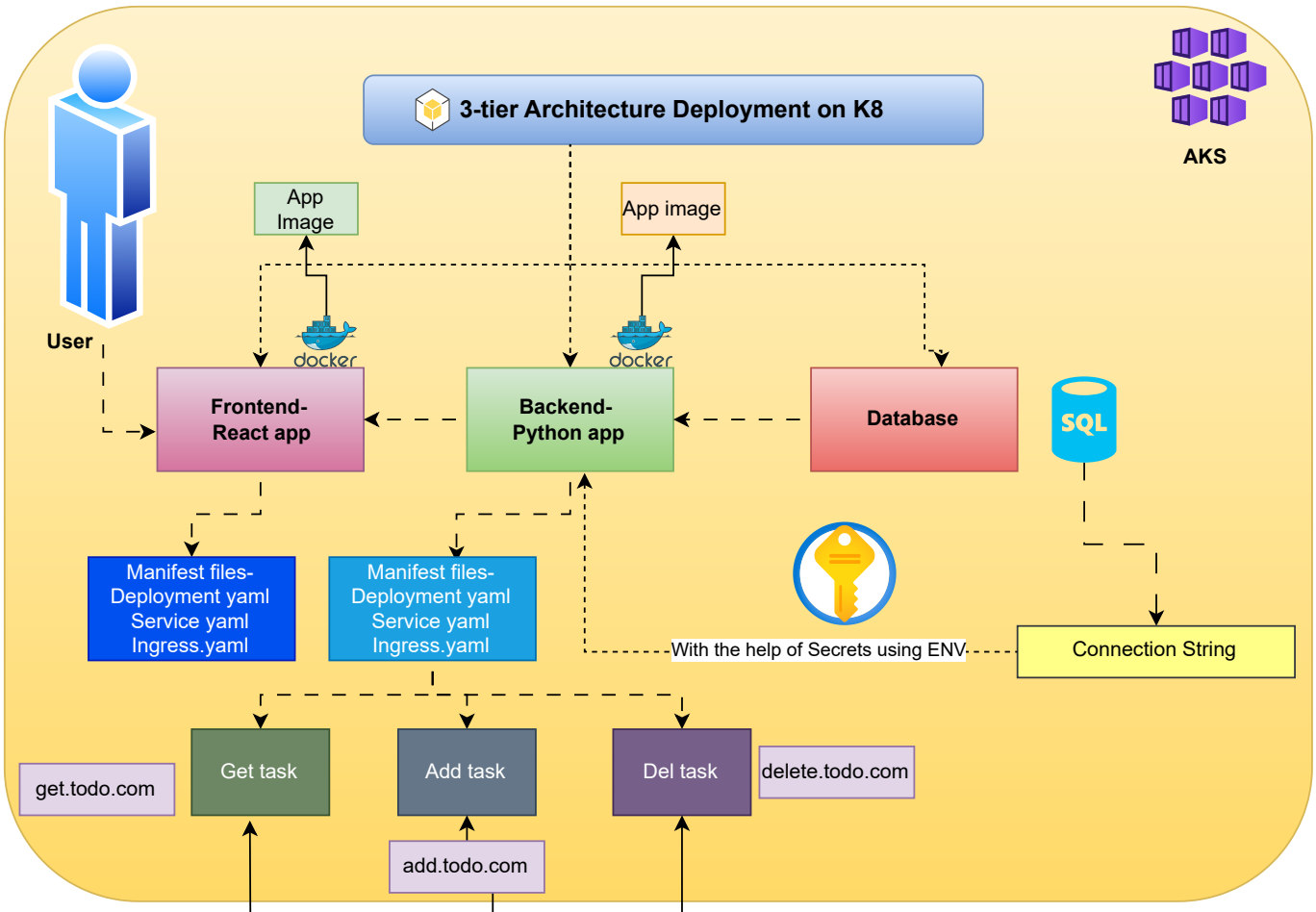
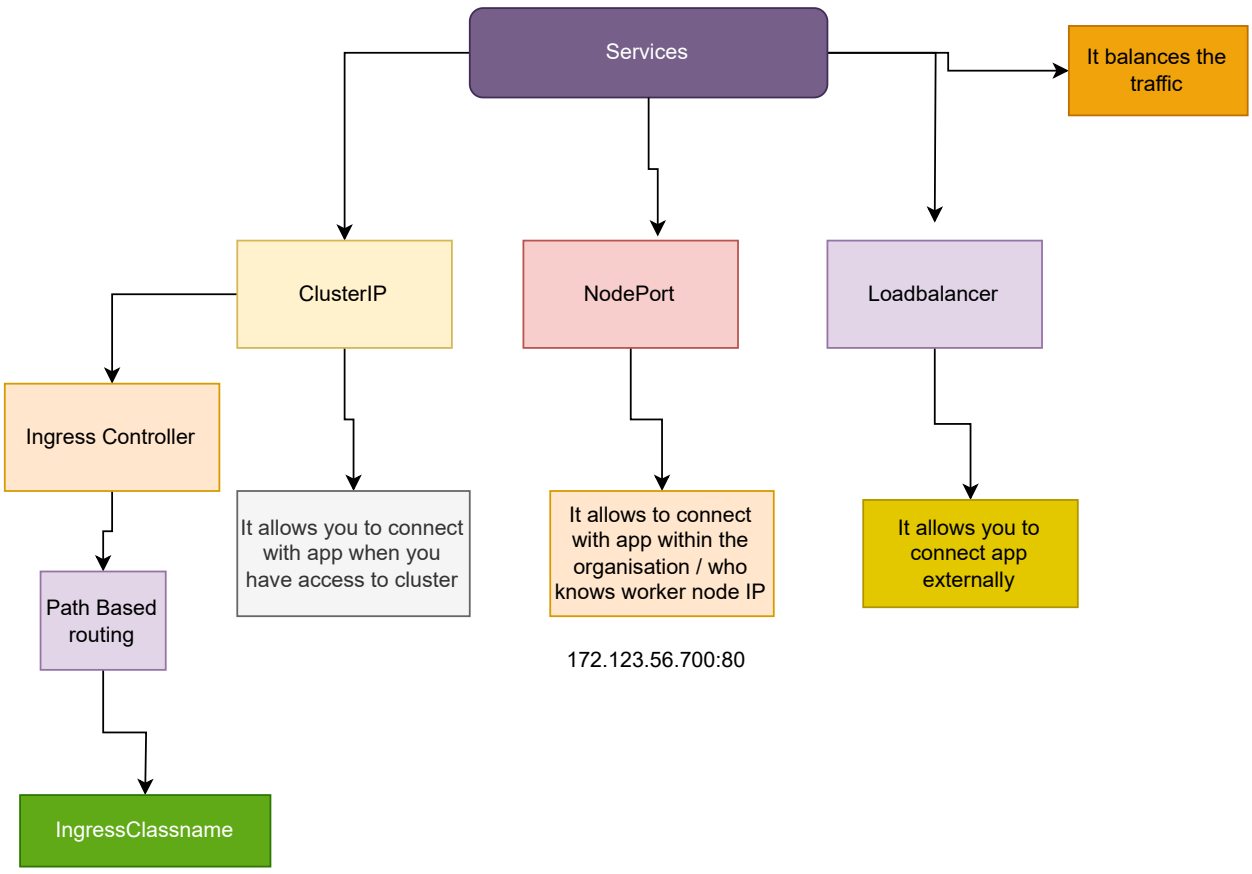
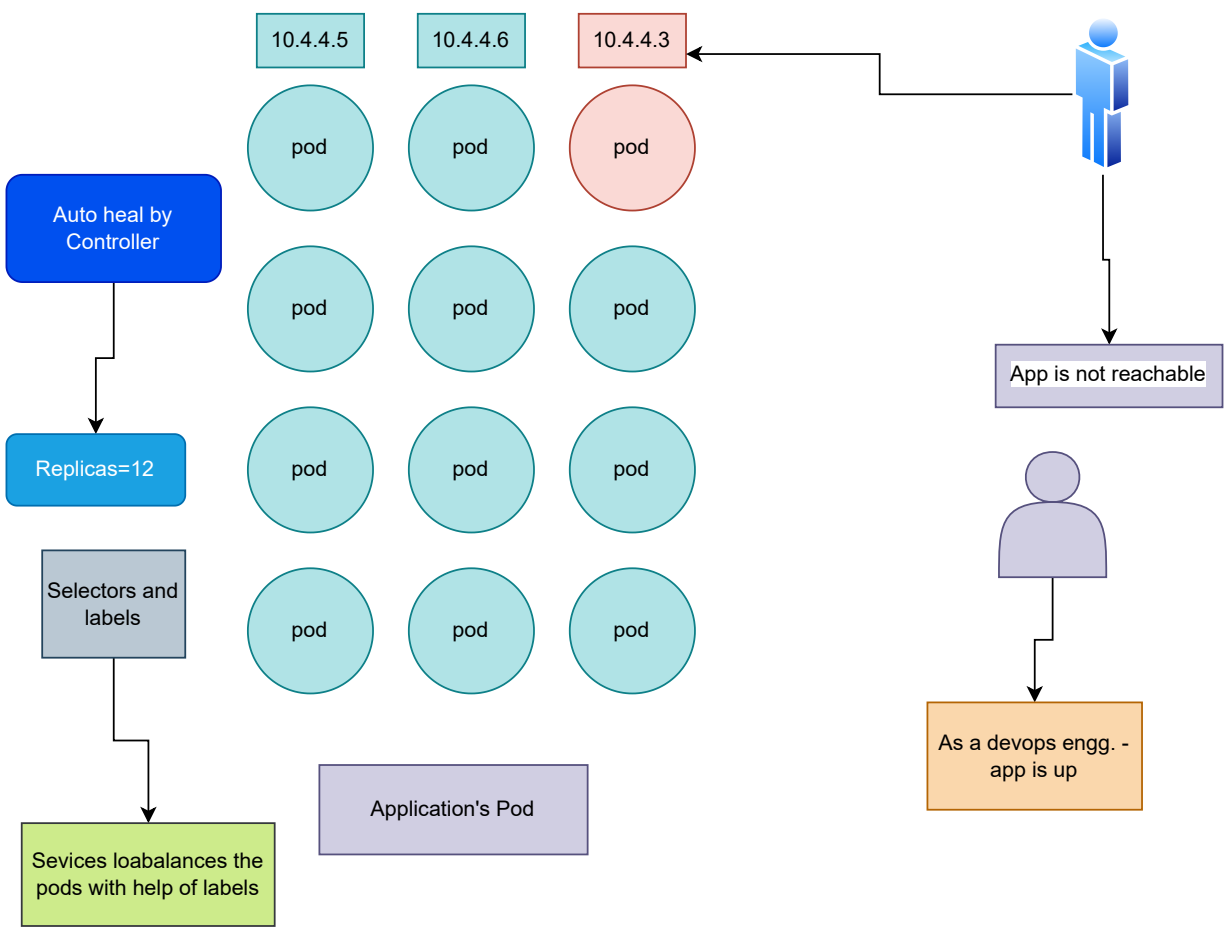

3-tier Architecture Deployment on K8
AKS
User
App Image
App image
docker
docker
Frontend-
React app
Backend-
Python app
Database
SQL
Manifest files-
Deployment yaml
Service yaml
Ingress.yaml
Manifest files-
Deployment yaml
Service yaml
Ingress.yaml
With the help of Secrets using ENV
Connection String
get.todo.com
Get task
Add task
Del task
delete.todo.com
add.todo.com

10.2.3.4.5


Services
It balances the traffic
ClusterIP
NodePort
Loadbalancer
Ingress Controller
It allows you to connect with app when you have access to cluster
It allows to connect with app within the organisation / who knows worker node IP
It allows you to connect app externally
Path Based routing
172.123.56.700:80
IngressClassname


10.4.4.5
10.4.4.6
10.4.4.3
pod
Auto heal by Controller
App is not reachable
Replicas=12
Selectors and labels
As a devops engg. - app is up
Application's Pod
Sevices loabalances the pods with help of labels