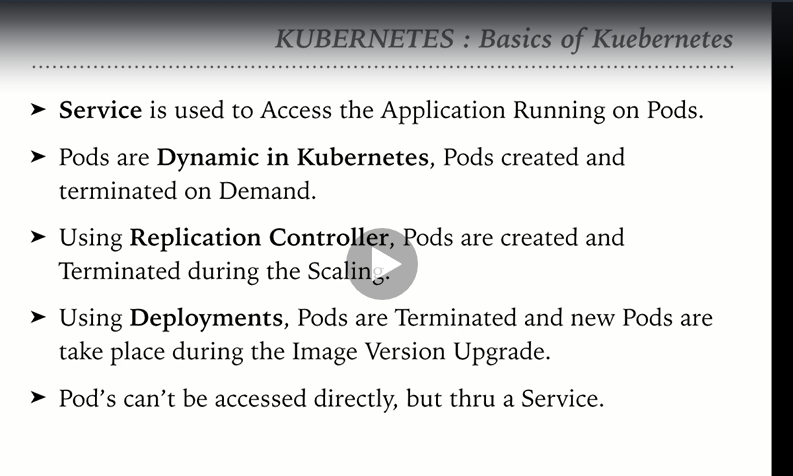
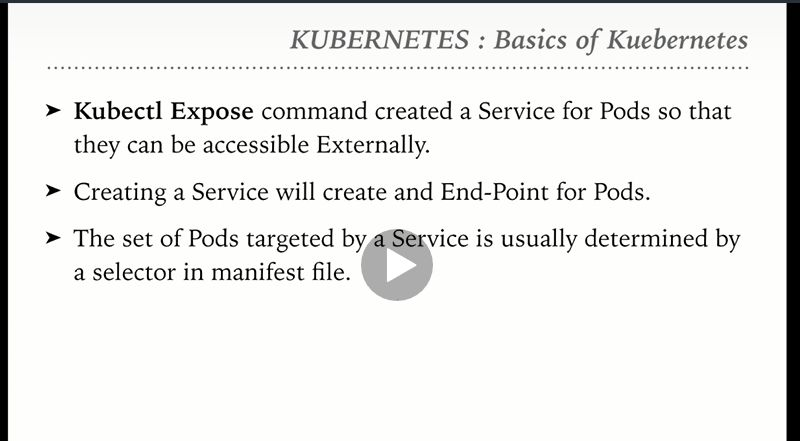
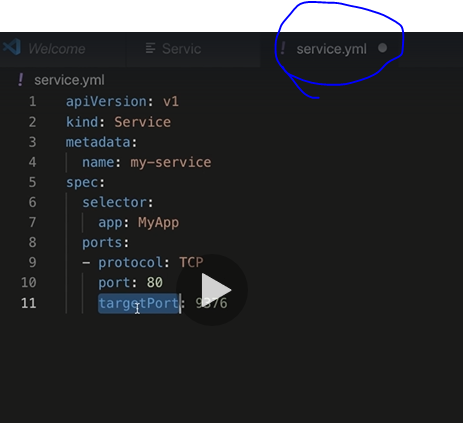
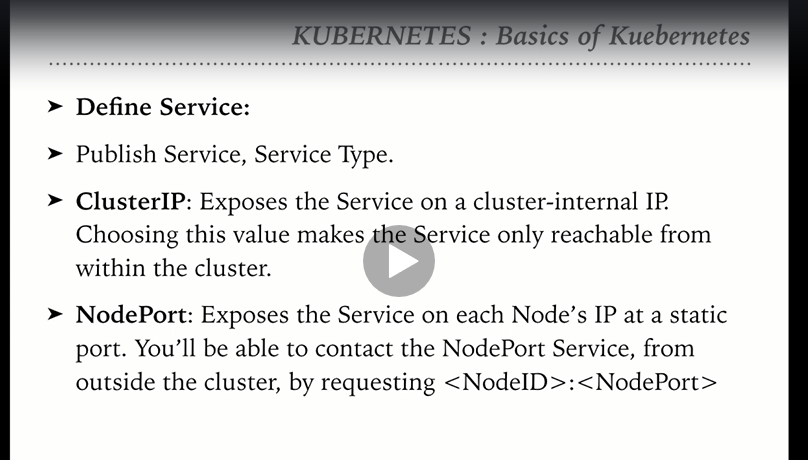
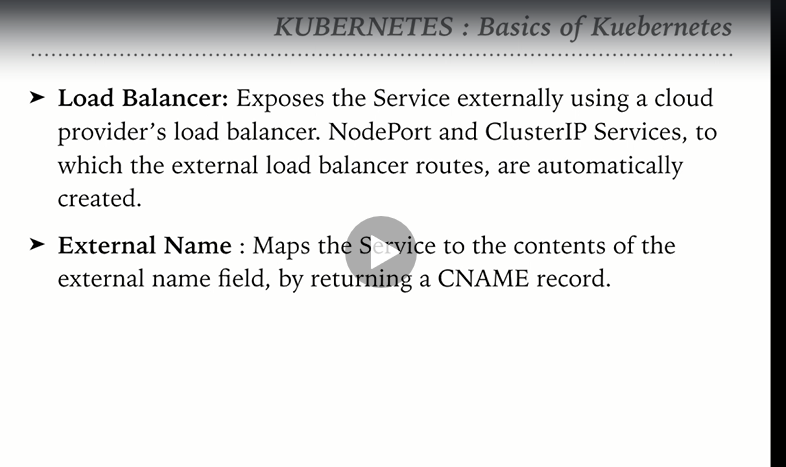
**Topic-1: Services in Kubernetes**

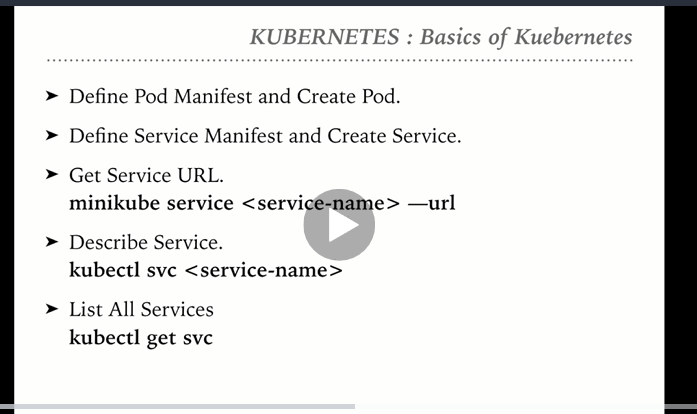


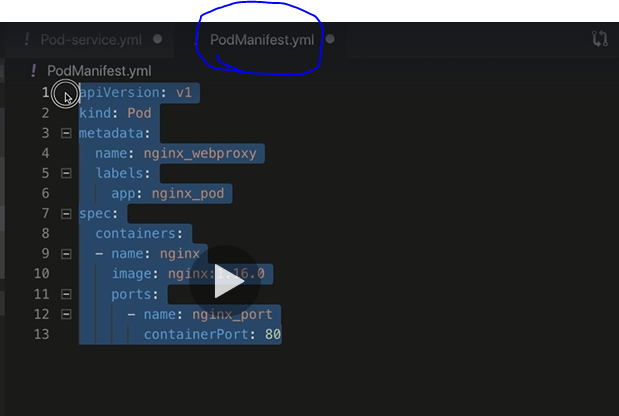




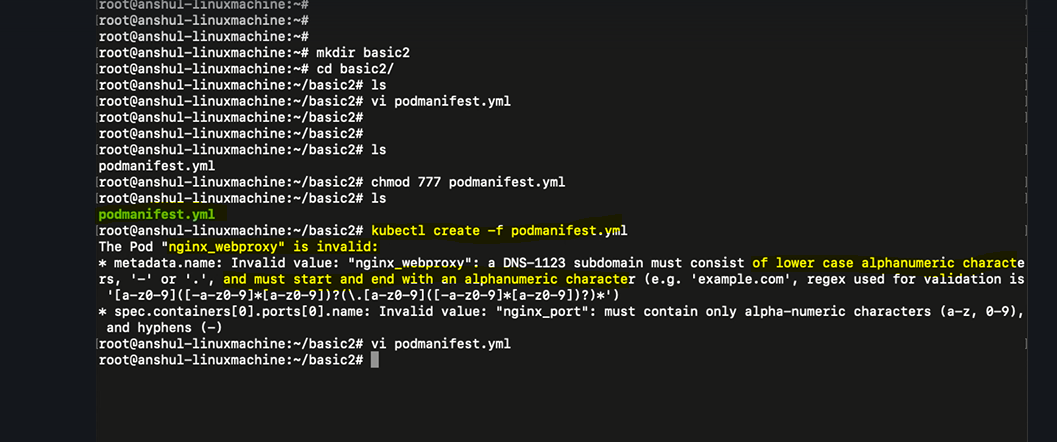




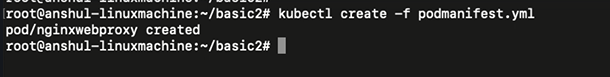


Lab section:

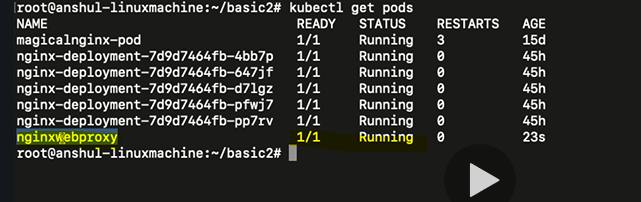
Create pod using the manifest file. In the below screenshot observe that there is an error as the name or label inside the manifest file contains \_. Only alphanumeric are allowed

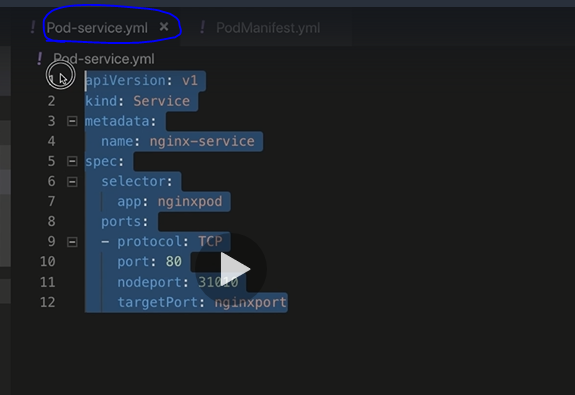


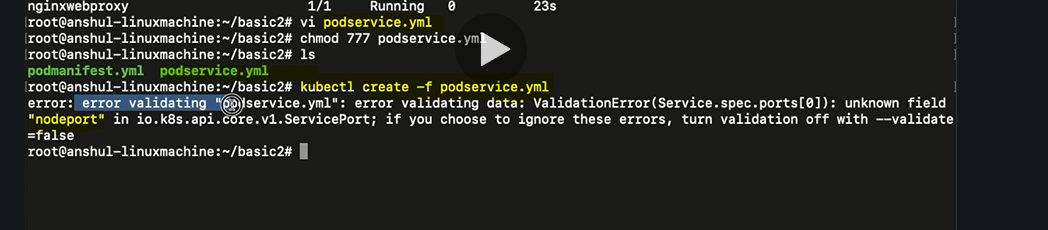
Change the file contents and again create the pod



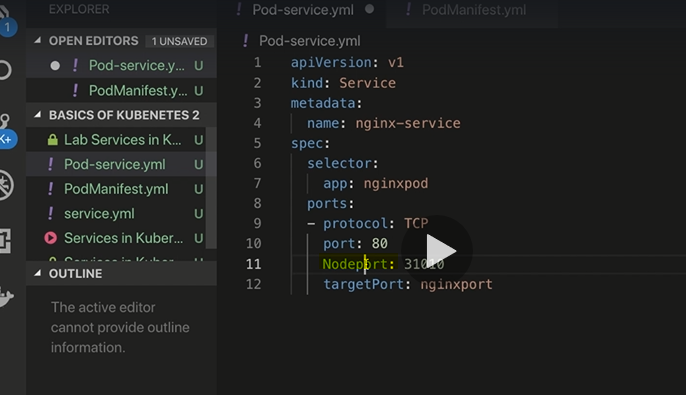
Get the pods



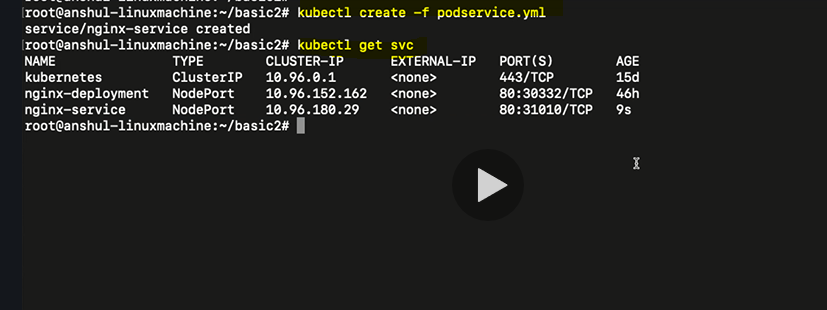




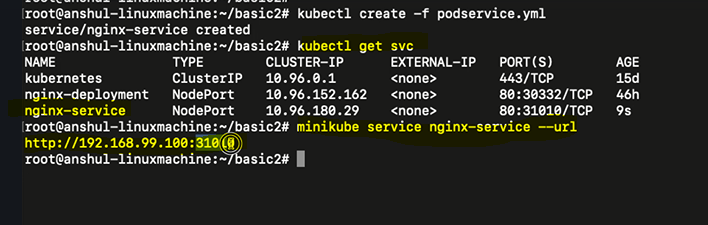
Correct the spelling of NodePort in the manifest file



Create the service again after modifying the spelling



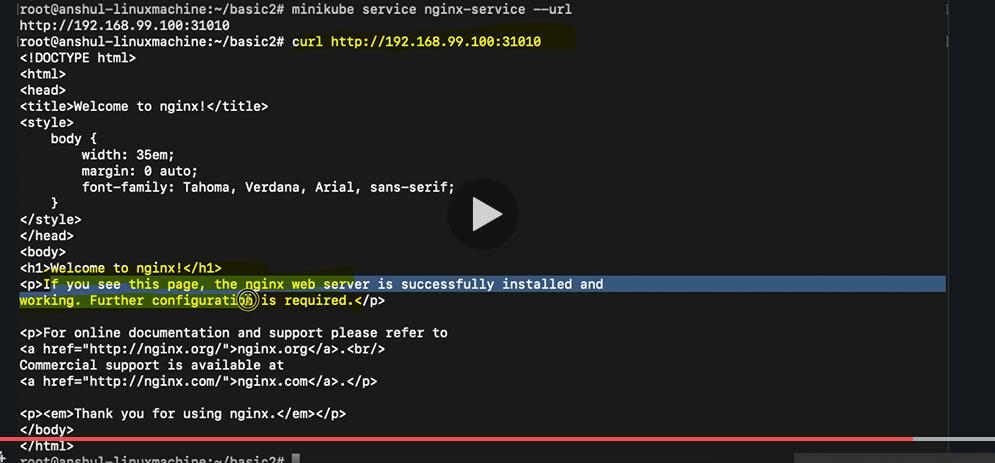
How to get the service



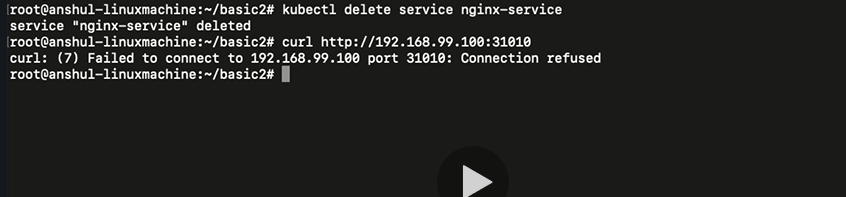


The above port highlighted is the same port mentioned in the manifest

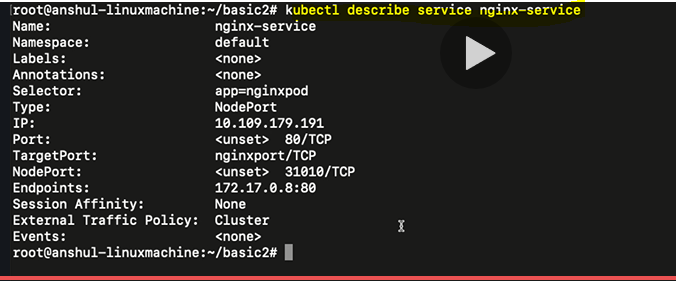
Access the service



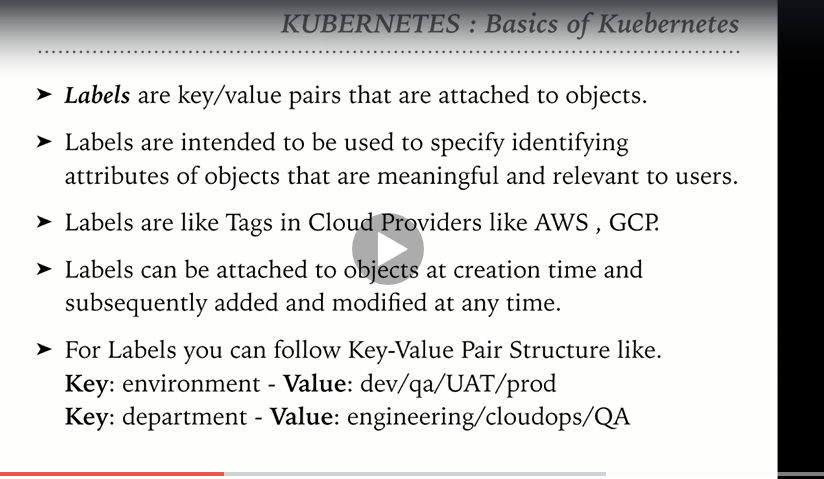
Delete the service

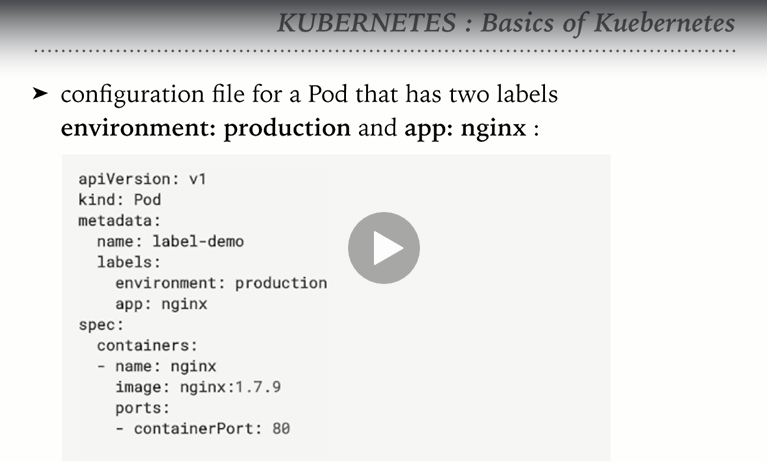


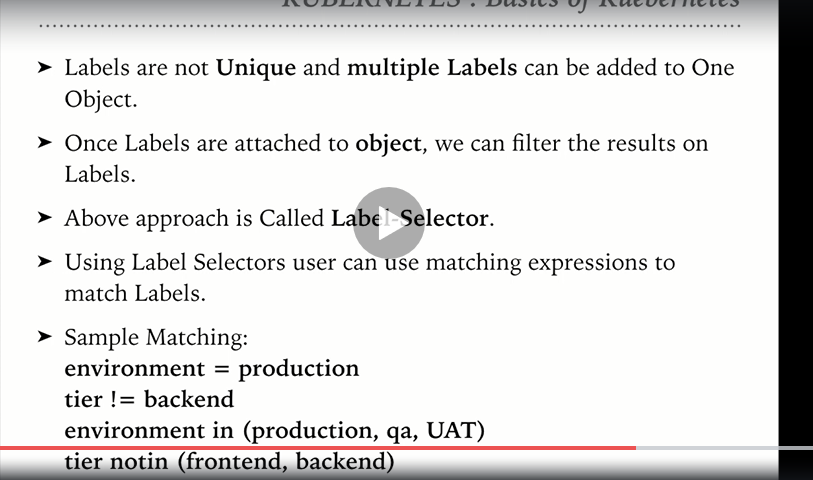
Describe the service

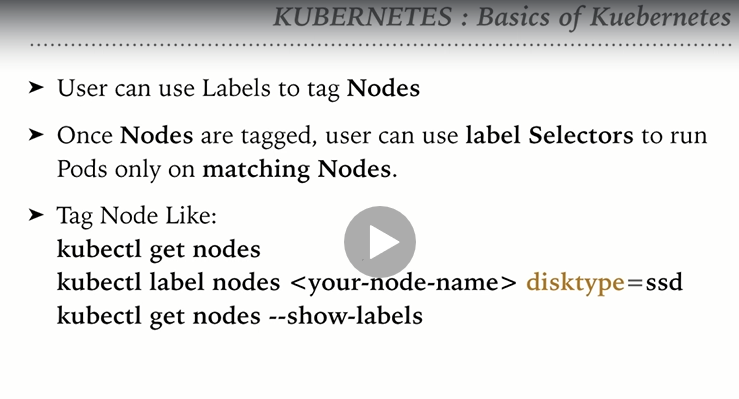


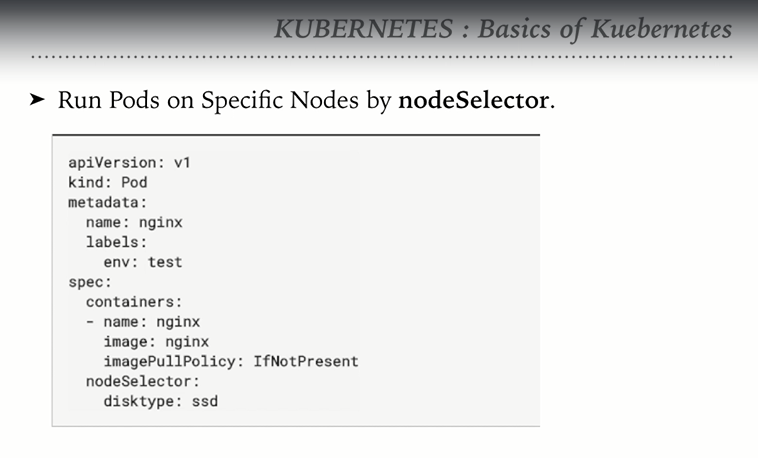
**Topic-2: Labels**



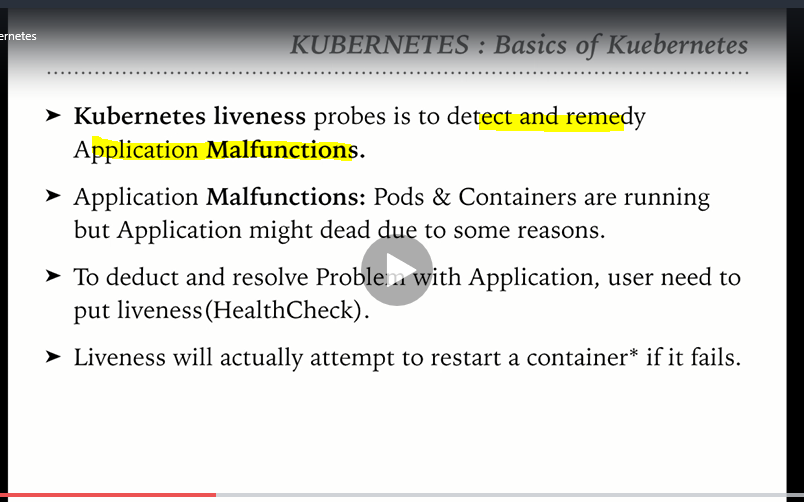


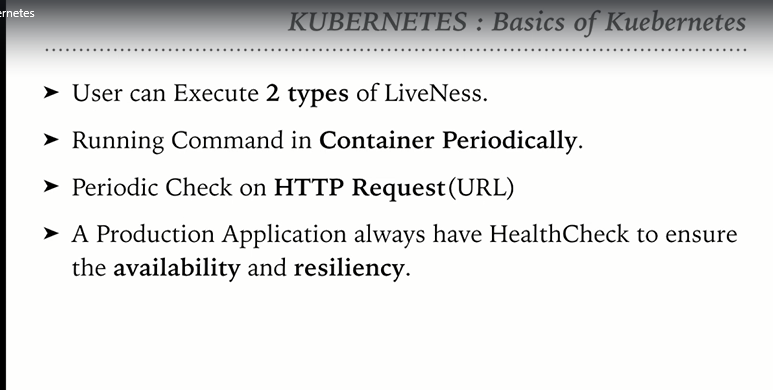


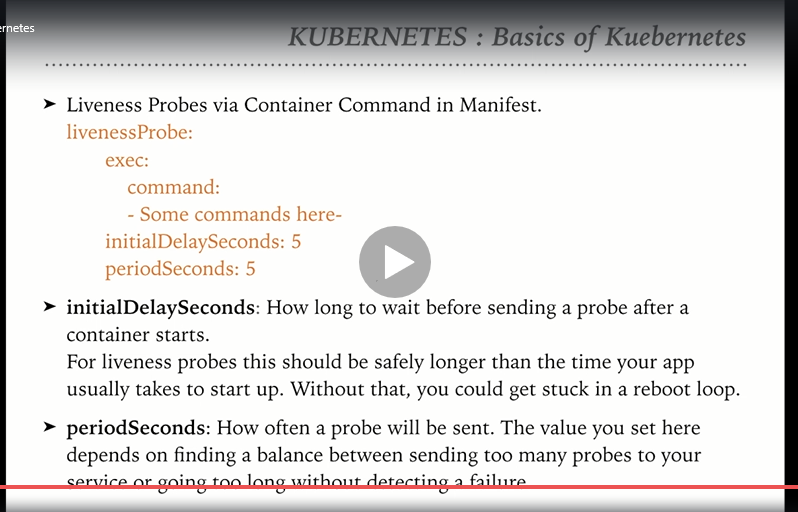


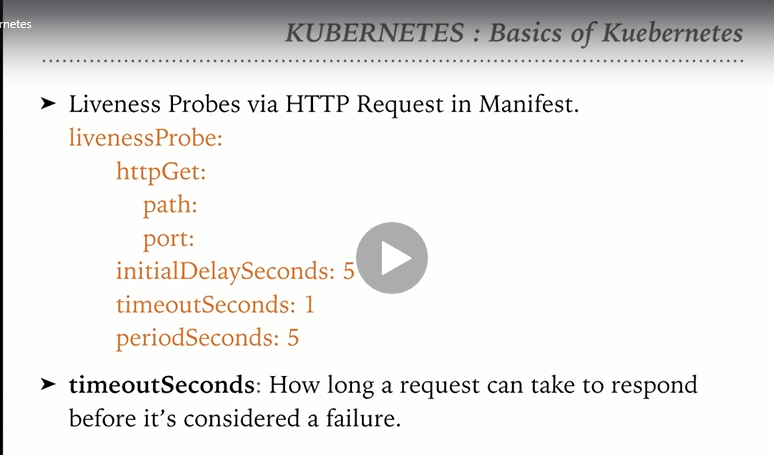


**Topic-3: Liveness and Health check**

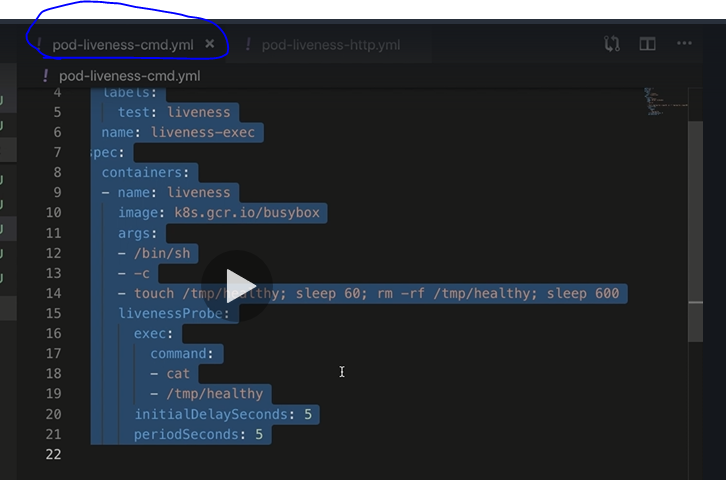


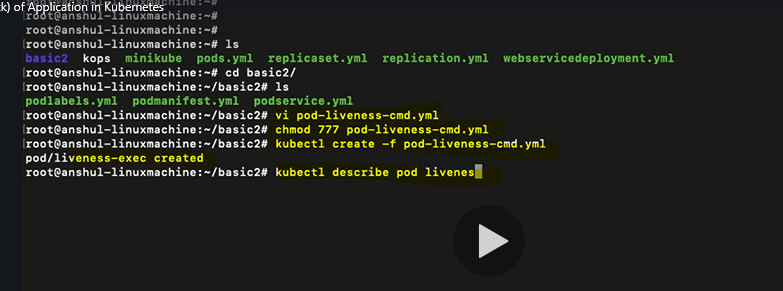




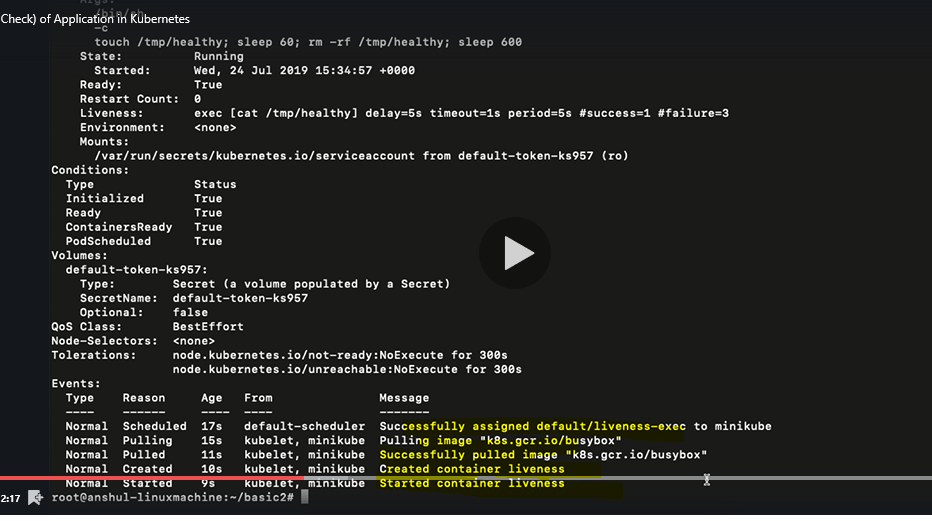


Create a pod manifest file with the live check enabled:

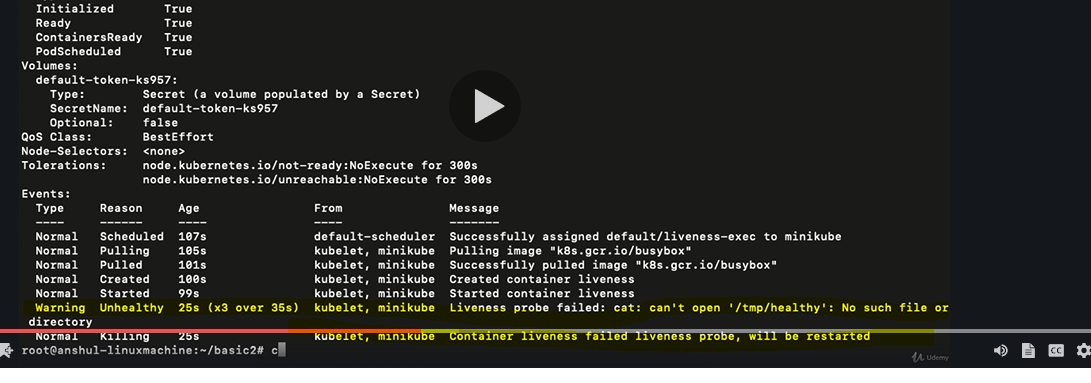


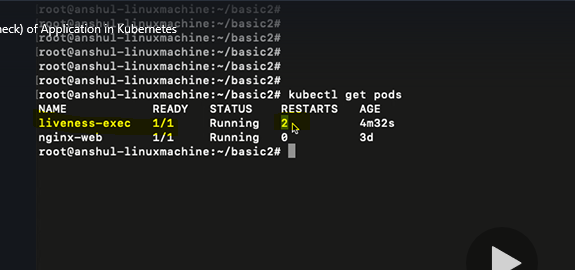


Describe the pods

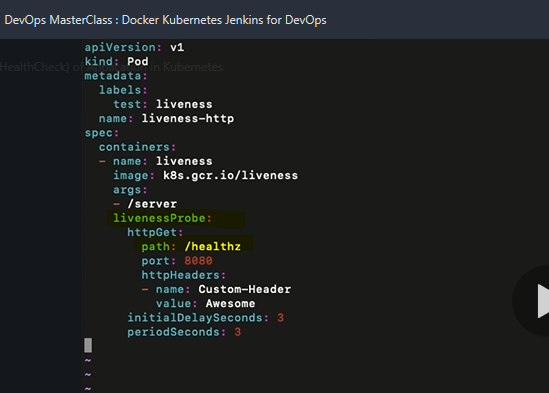


After 60 seconds





Liveness using http:

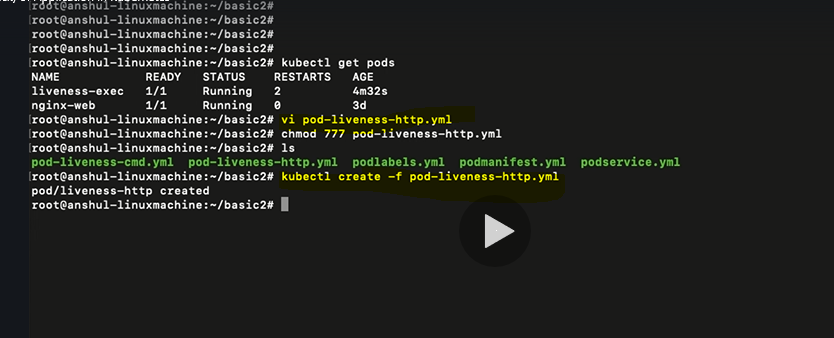


Path: /healthz is part the url.

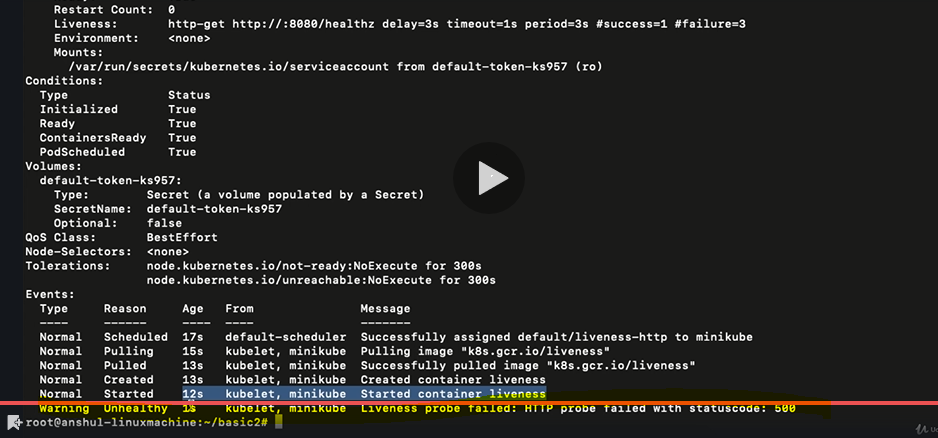
Eg: [www.facebook.com/pages](http://www.facebook.com/pages)

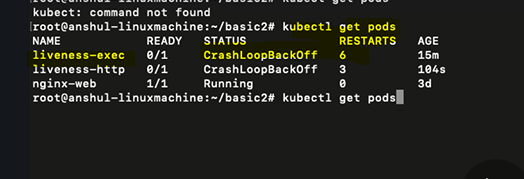
Here path=pages

Create a pod with the liveness check:

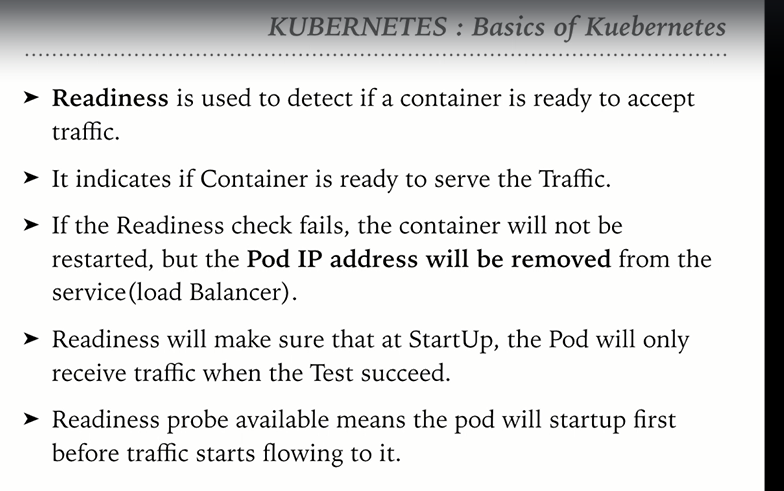


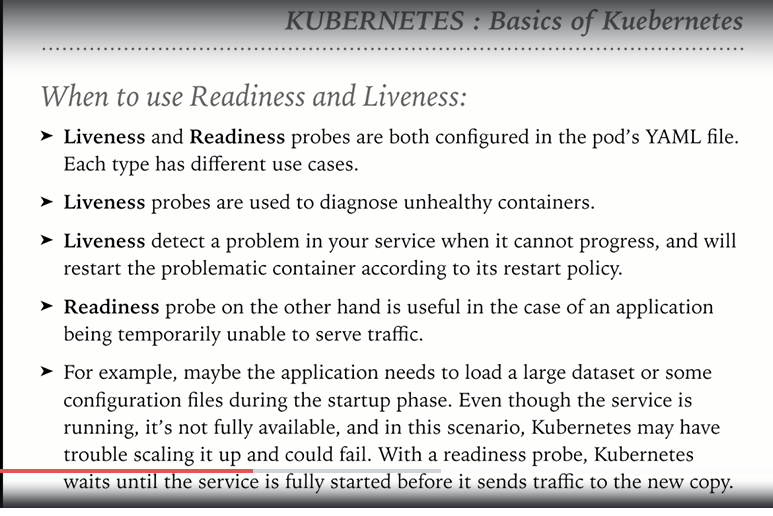
The above service starts failing after 10 seconds

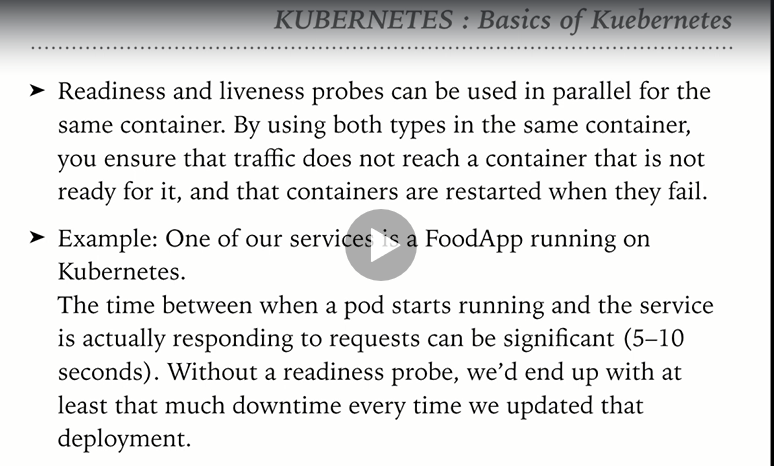


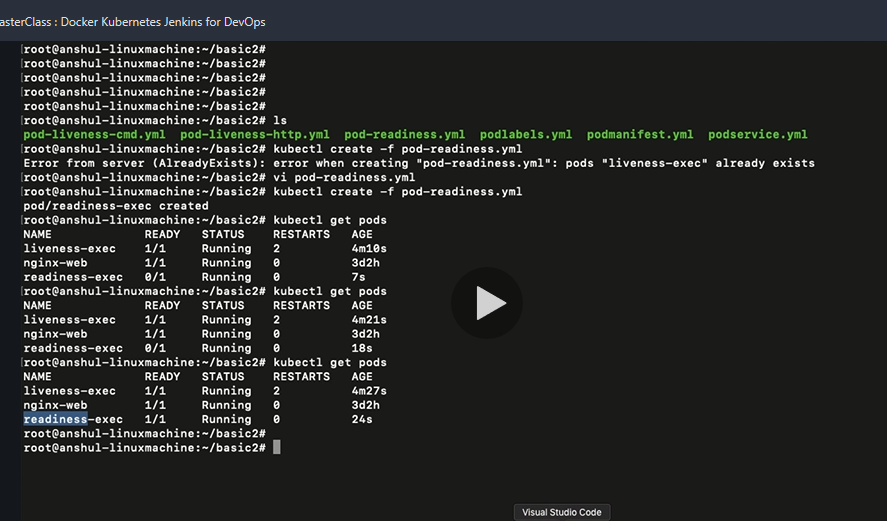


**Topic-4: Readiness check**

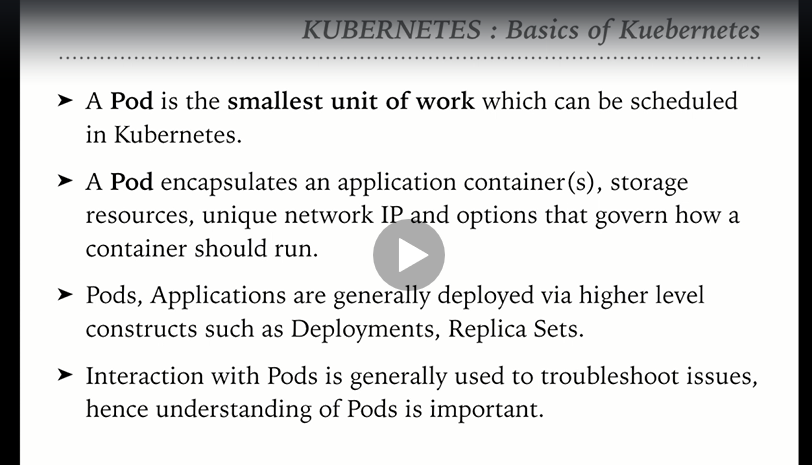


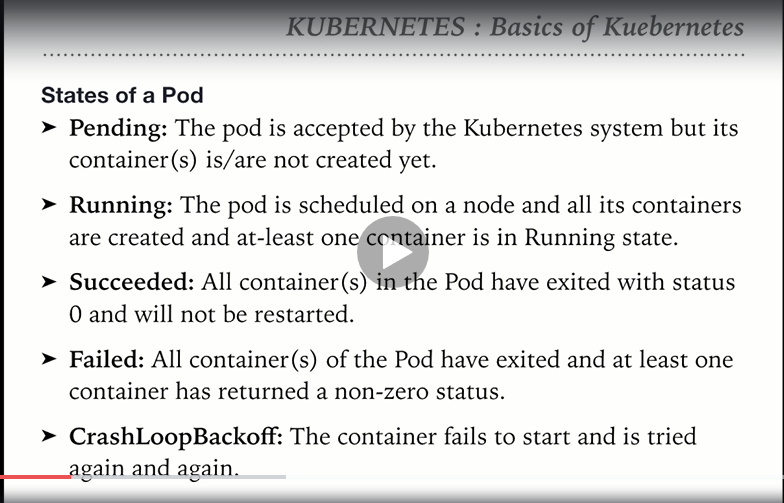


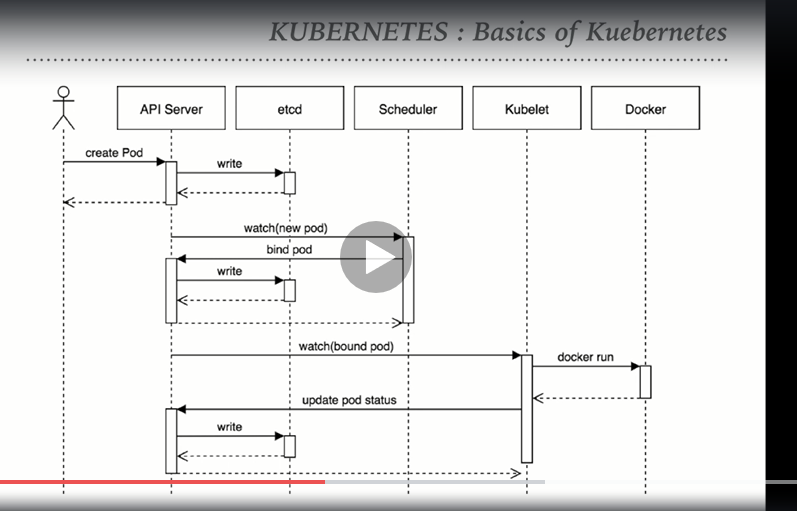


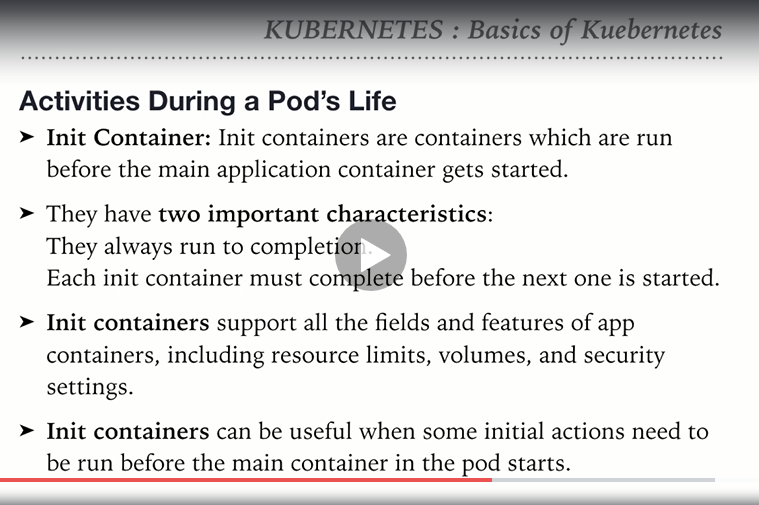


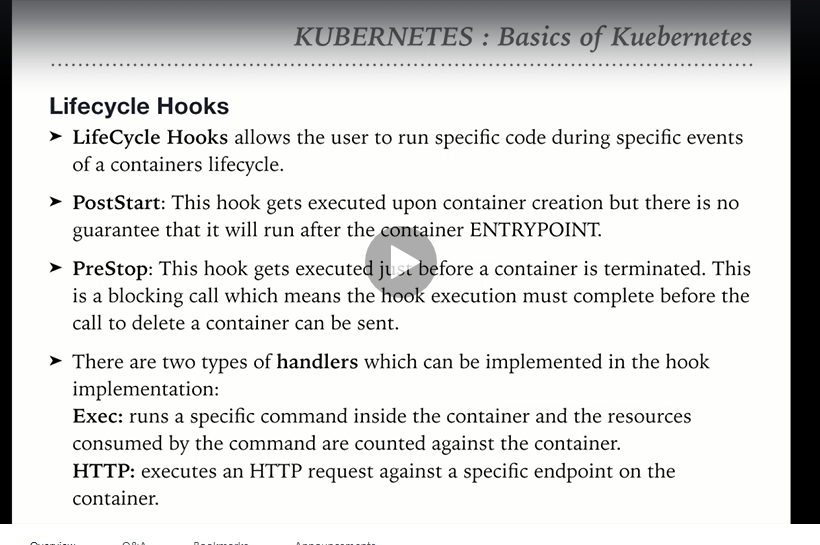
**Topic-5: Pod life cycle**

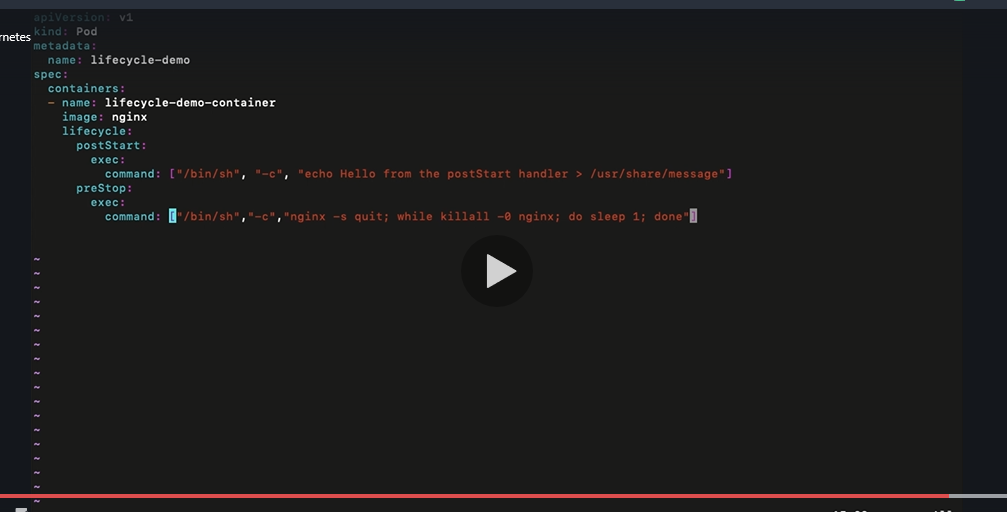


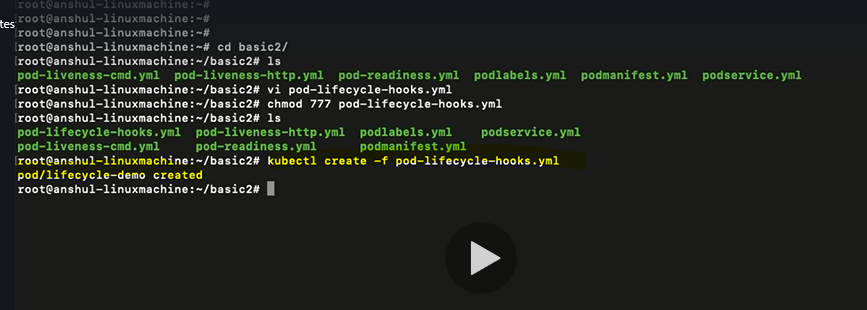




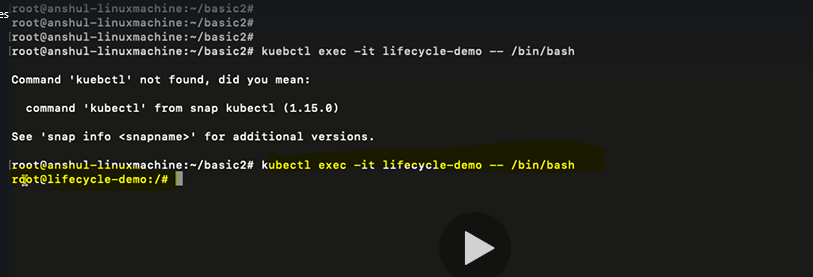




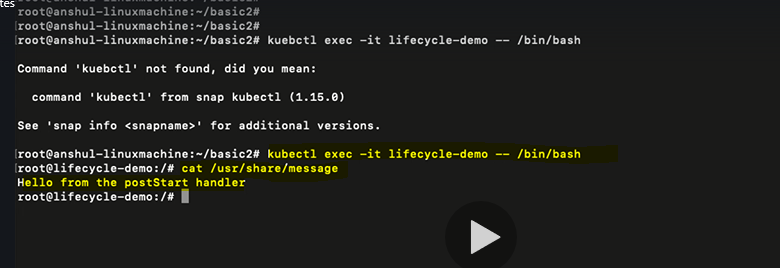


**Create the pod**

**Run the pod in interactive mode**



**We can see that the lifecycle event has been executed and the message is stored in the location specified**



**Topic-6: Secrets**