**Cloud Computing: UE20CS352**

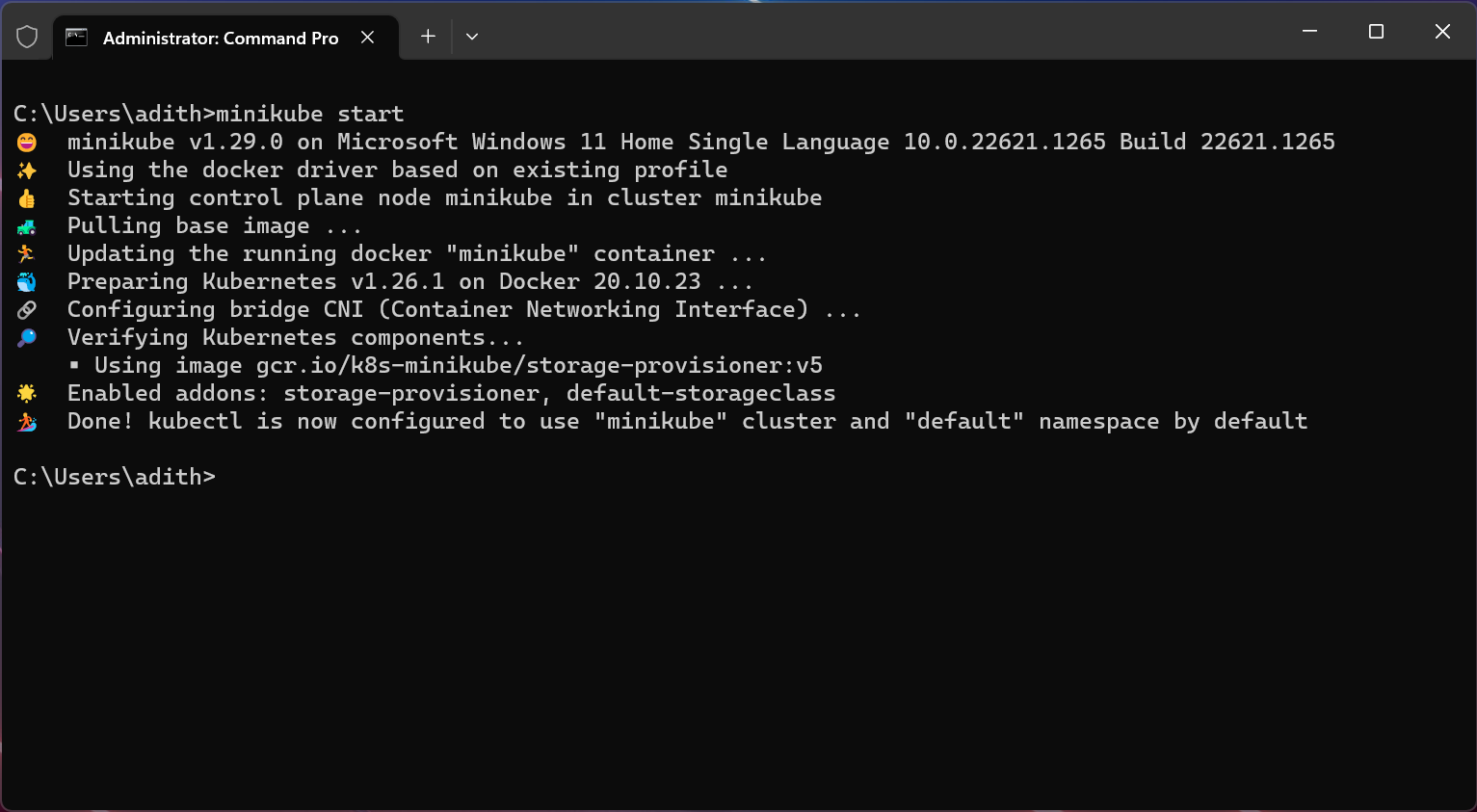
**Assignment 2b KUBERNETES**

**-Adithya M, Section K**

**-PES1UG20CS621**

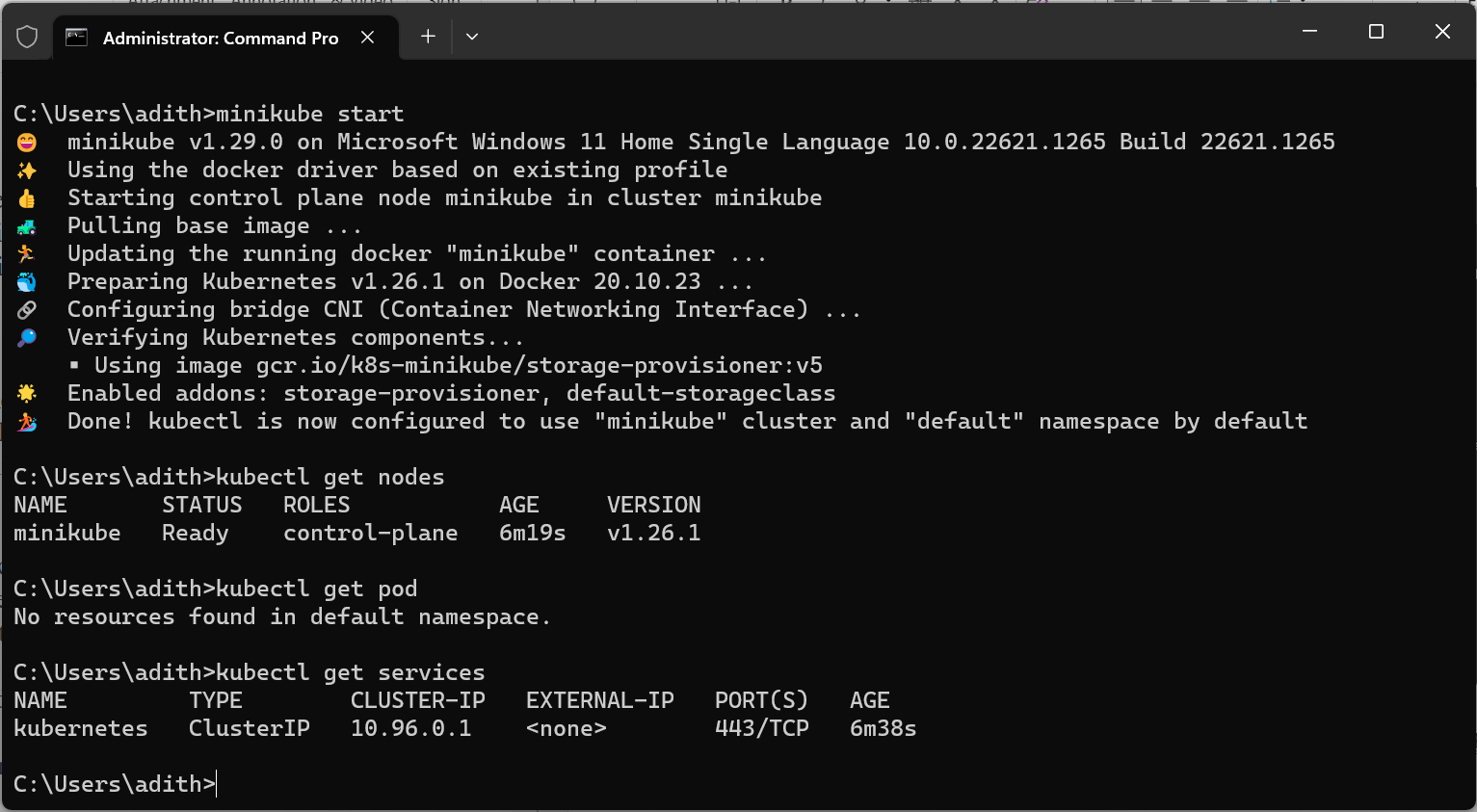
**1. Section 1: Installation**

Screenshot 1a - Minikube running successfully

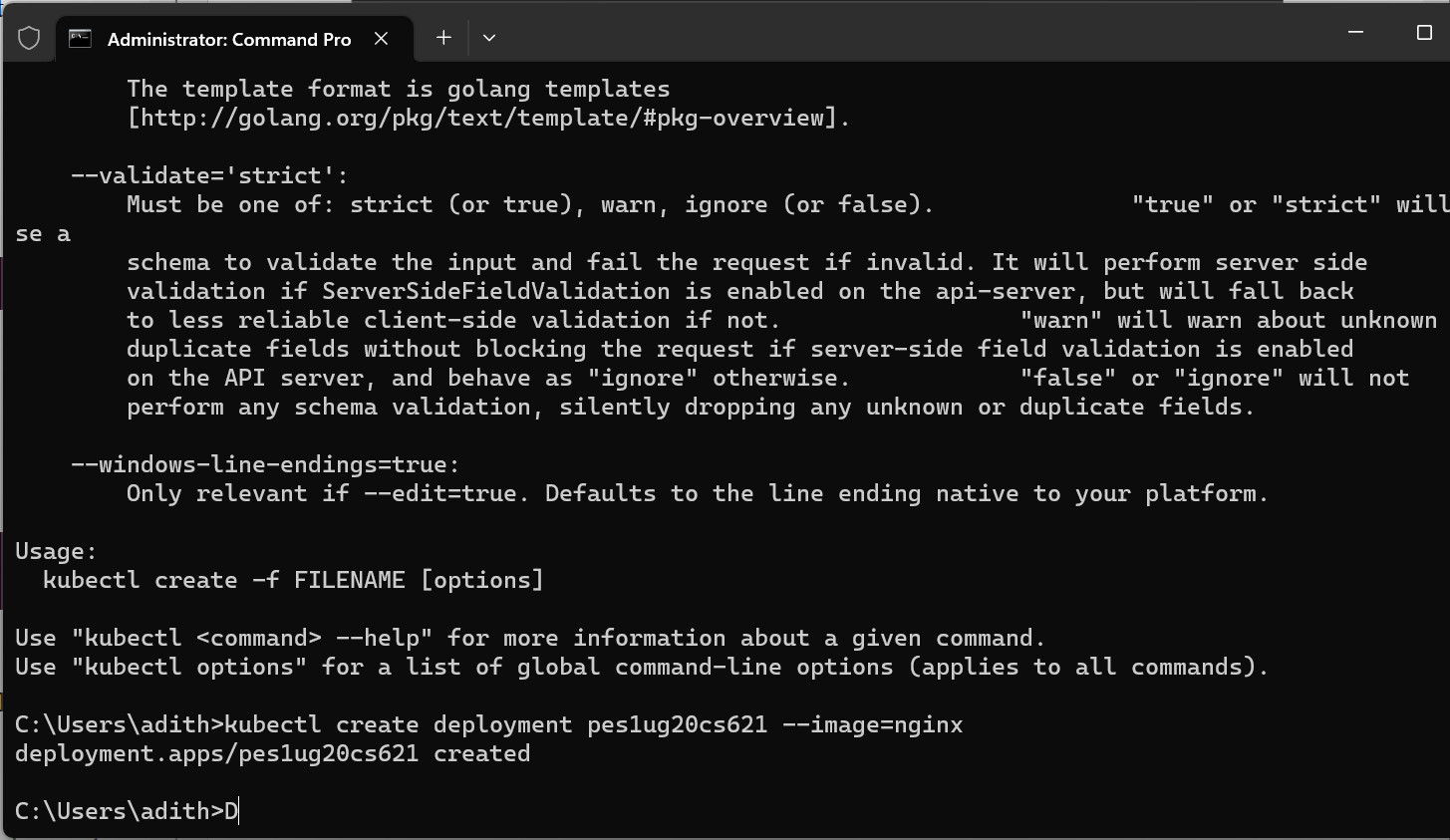


**2. Section 2: Creating pods and deployments, Editing them and observing Rollback:-**

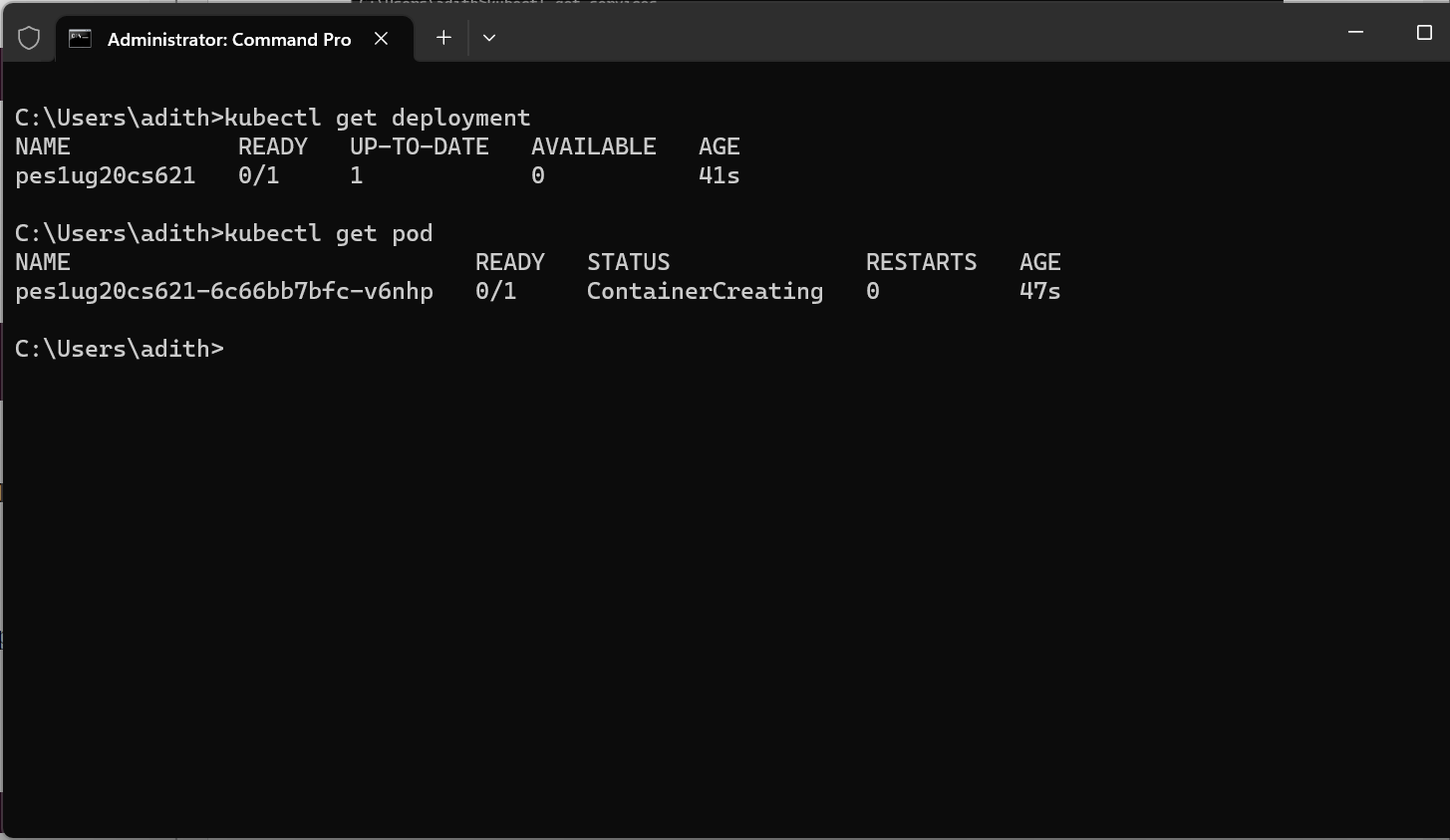
●Screenshot 2a - get nodes, pod and services command.



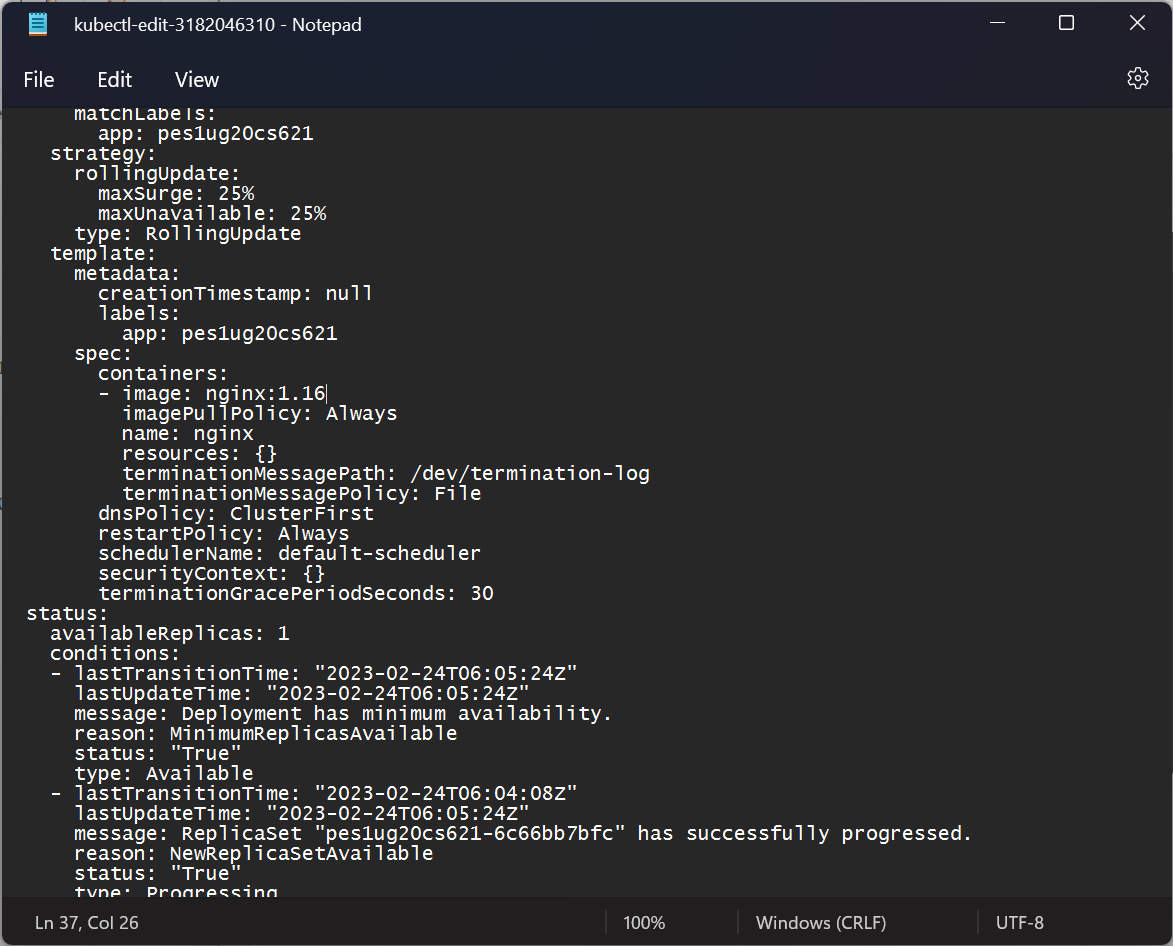
● Screenshot 2b- Deployment created.



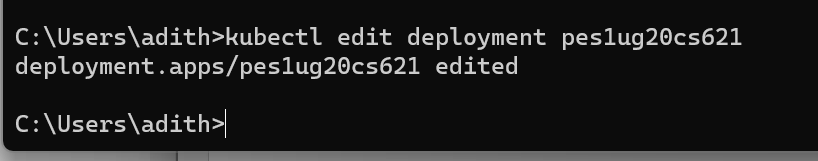
● Screenshot 2c- get deployment and pod command .



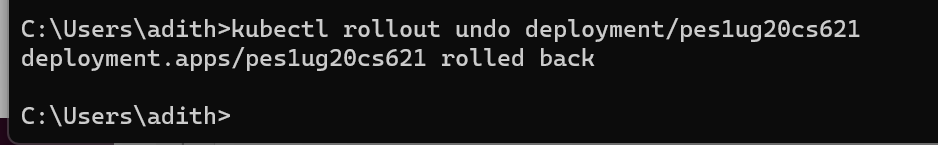
● Screenshot 2d- editing ‘-image:nginx.’



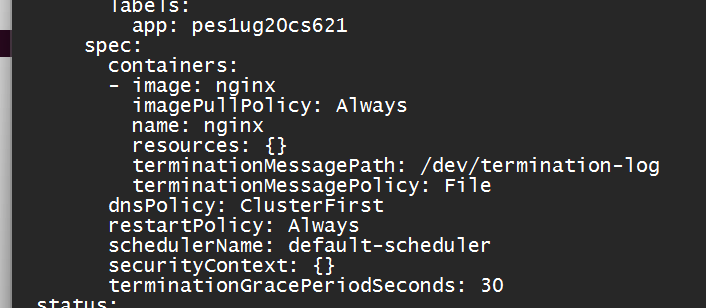
● Screenshot 2e- showing edited deployment.



● Screenshot 2f- deployment is rolled back.

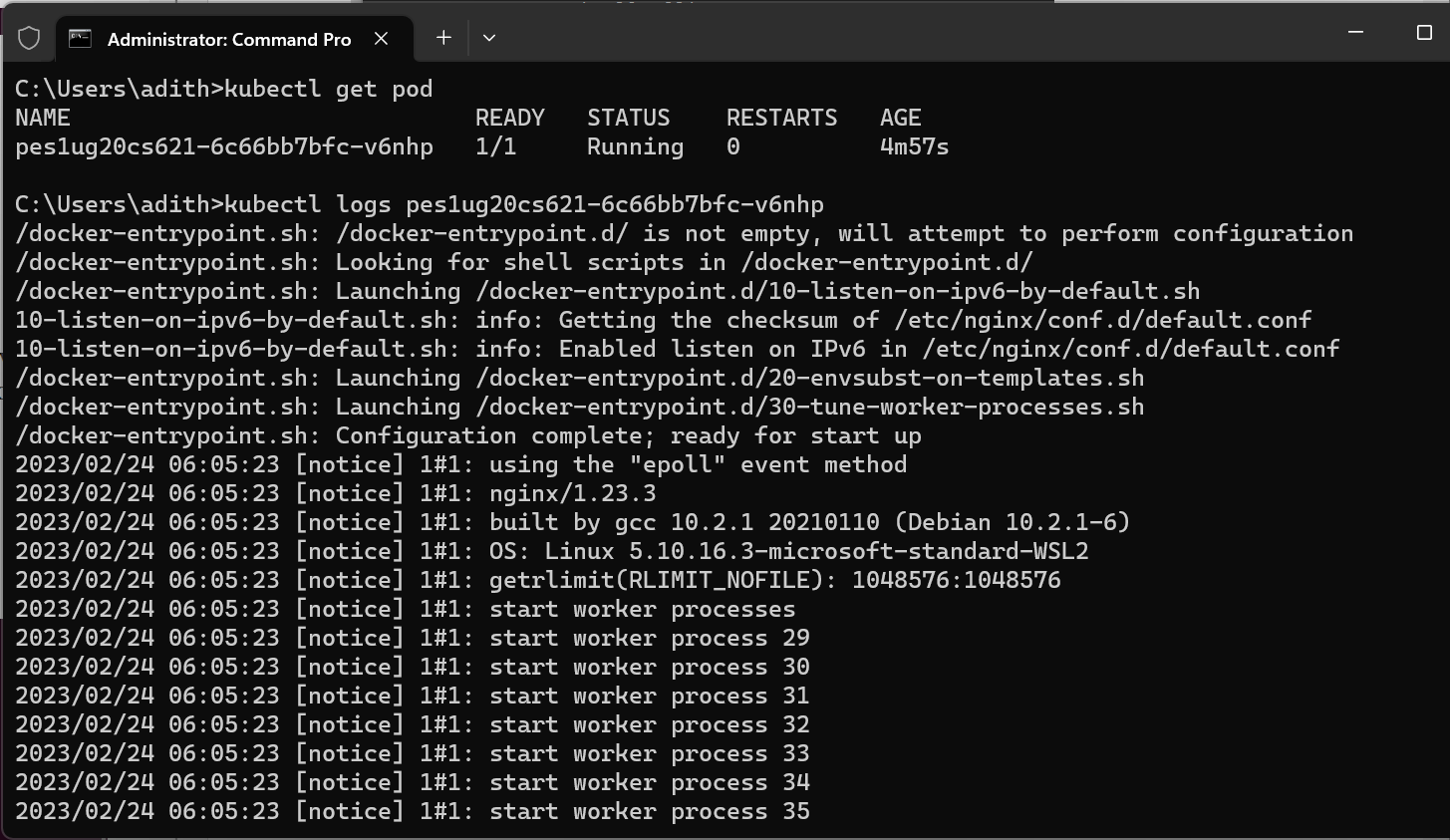


● Screenshot 2g- showing original nginx image.

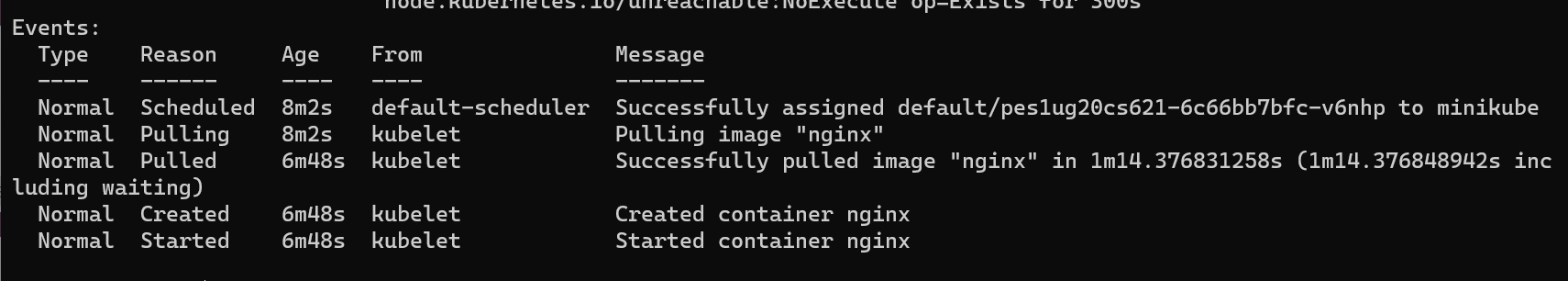


**3. Section 3:Debugging Pods:-**

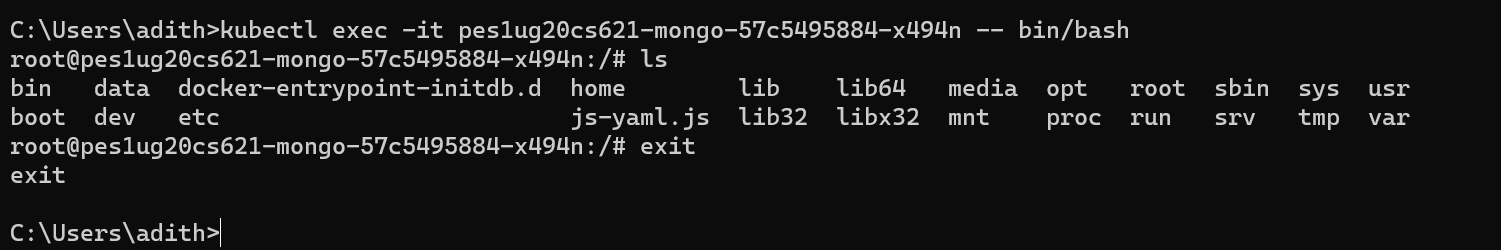
● Screenshot 3a - Kubectl logs displayed.



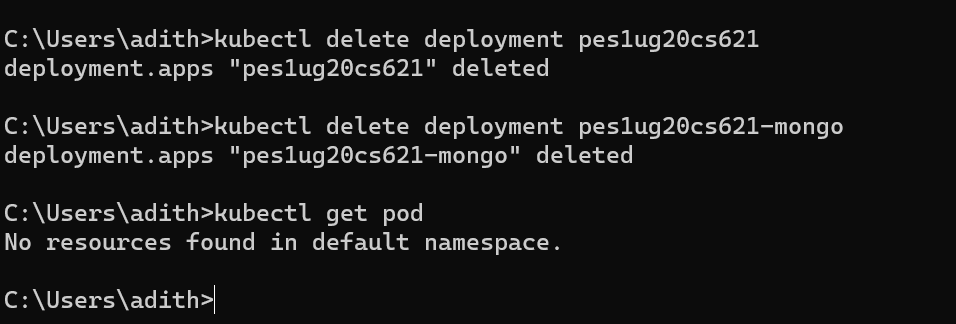
● Screenshot 3b- Kubectl ‘describe pod ‘ command.



● Screenshot 3c - Create mongo deployment.

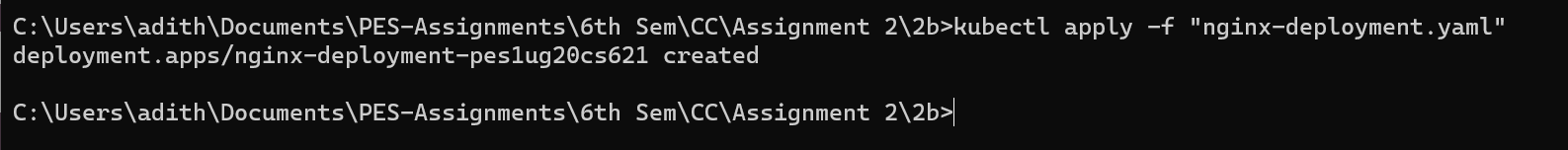


● Screenshot 3d - Delete both requirements.

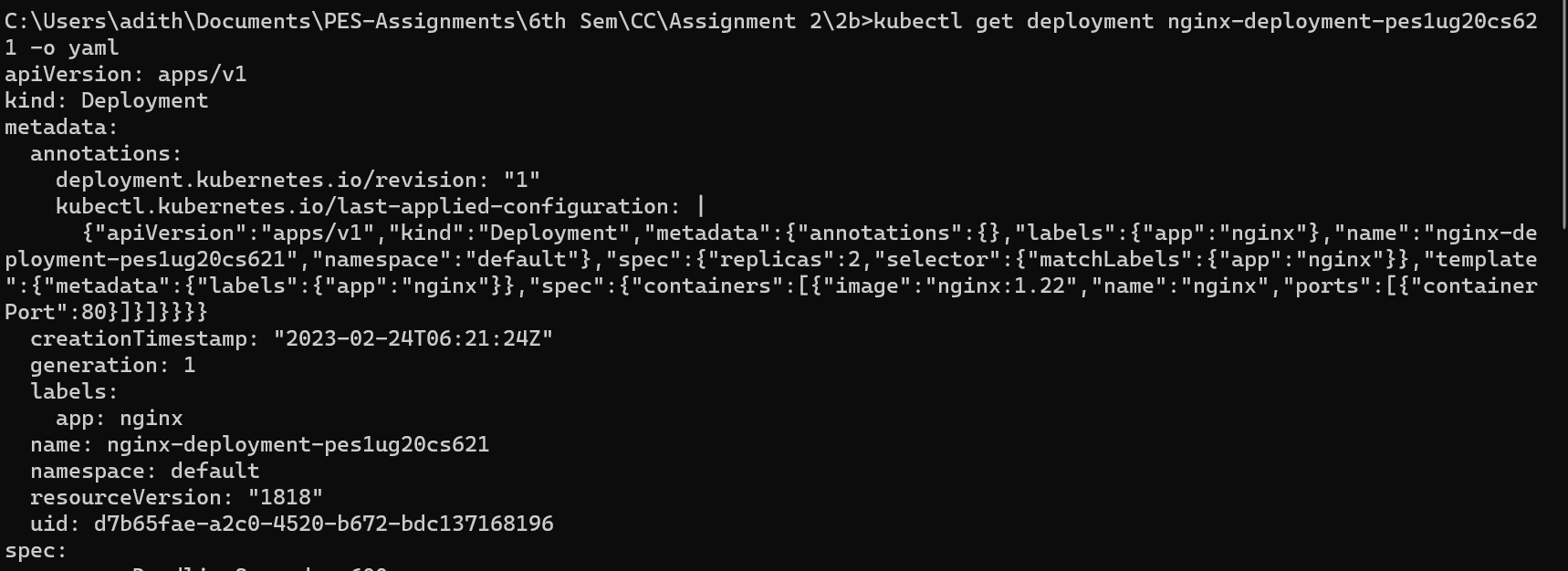
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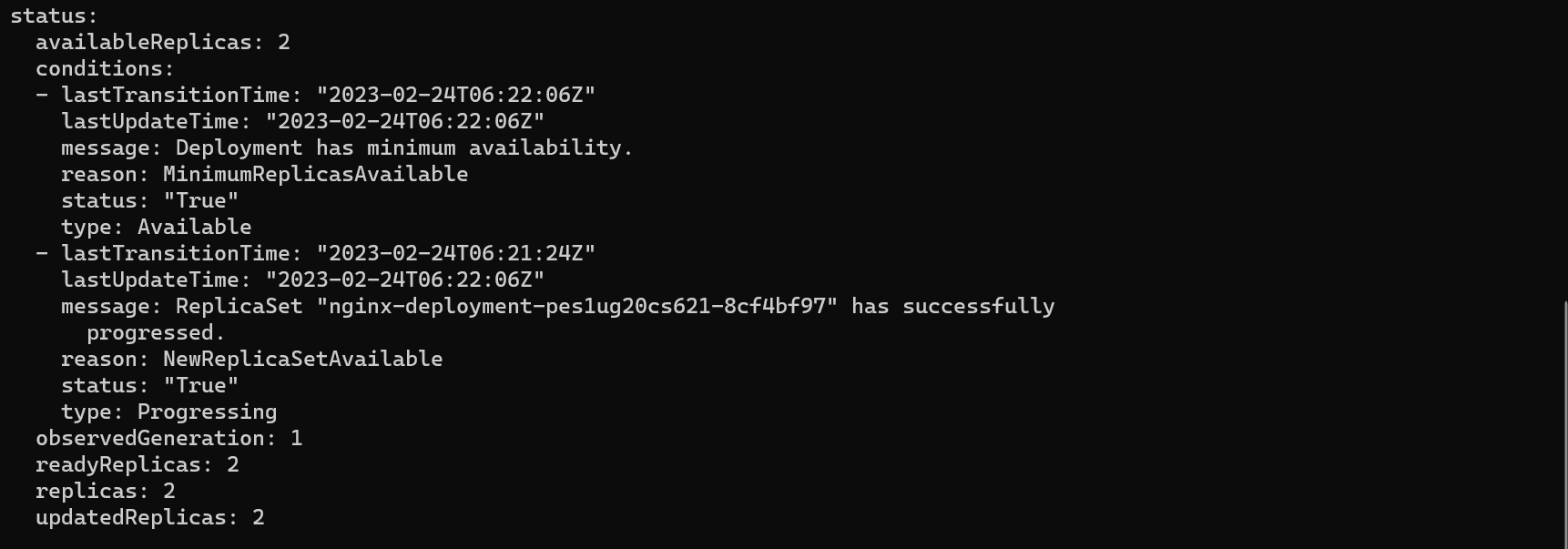
**4. Section 4: Applying configuration files:-**

● Screenshot 4a - Kubectl apply command on yaml file.



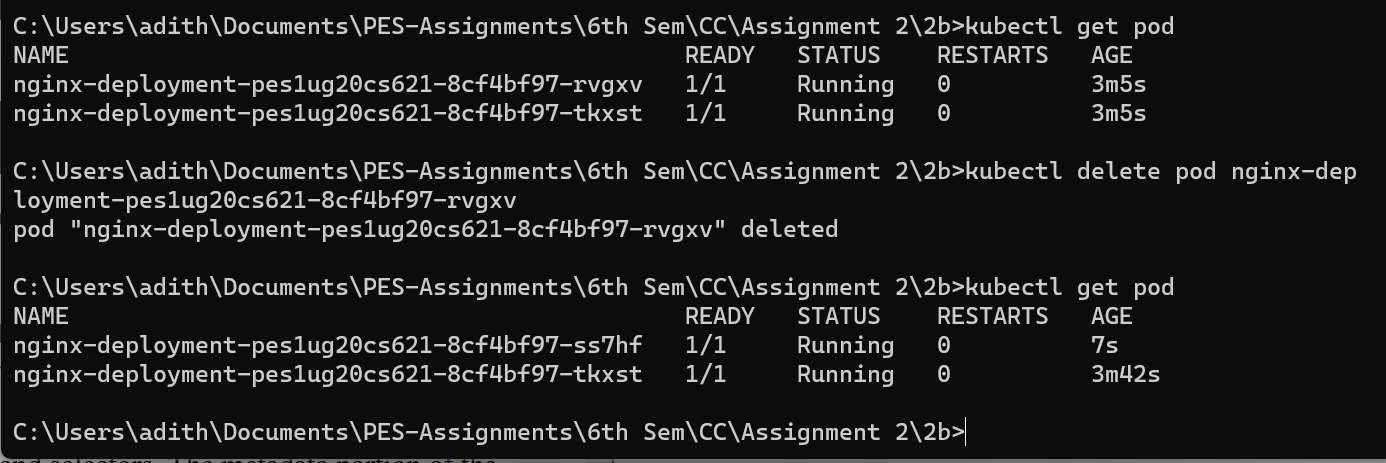
● Screenshot 4b- Kubectl get on yaml file



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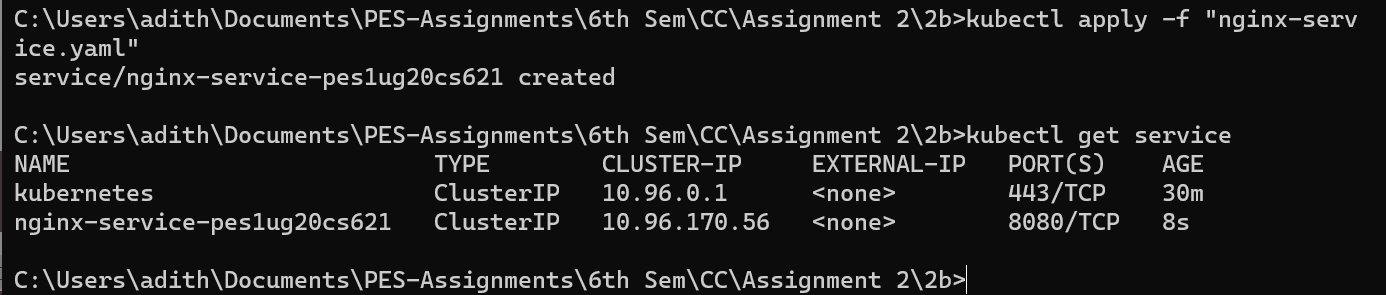
**5. Section 5: Delete a pod to observe the self-healing feature.**

● Screenshot 5a - Deleted pod:-

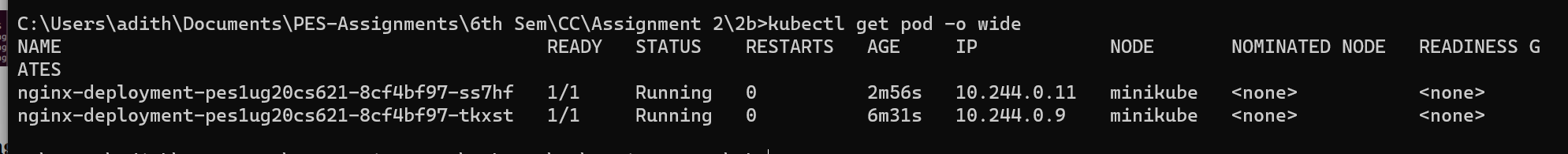
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**6. Section 6 : Connecting Services to Deployments**

● Screenshot 6a- Kubectl apply and get command.

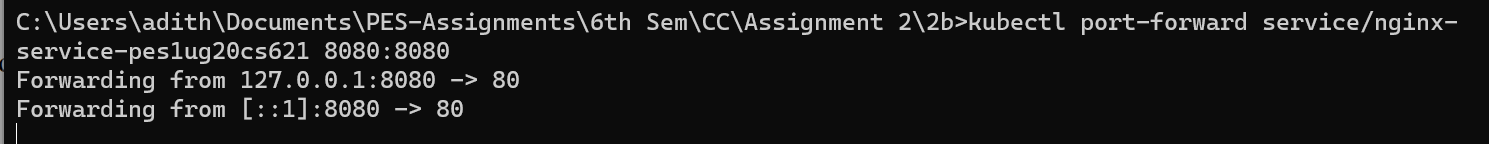


● Screenshot 6b-kubectl get pod -o wide command

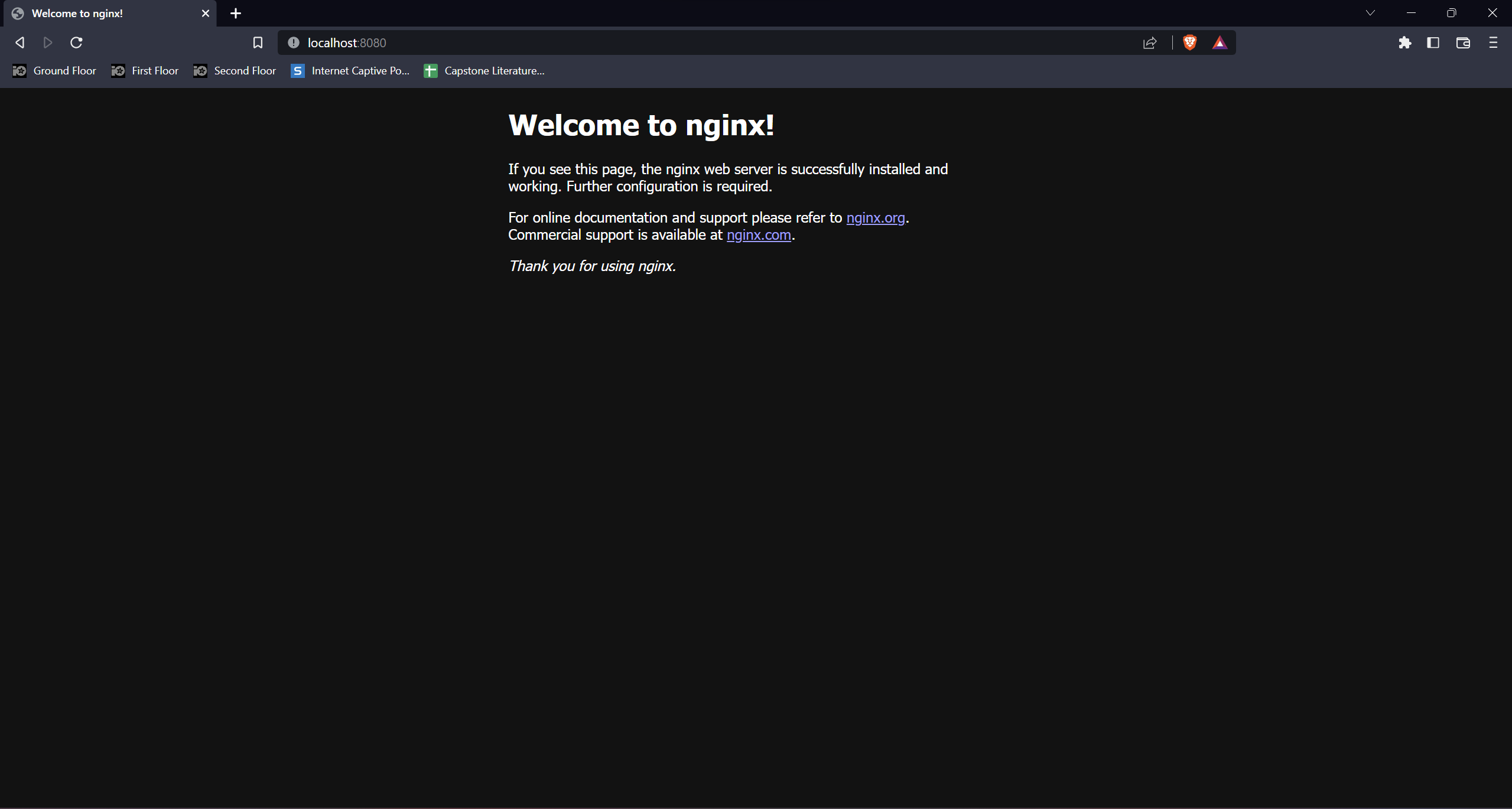
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**7. Section 7: Port Forwarding:-**

● Screenshot 7a -Kubectl port-forward command

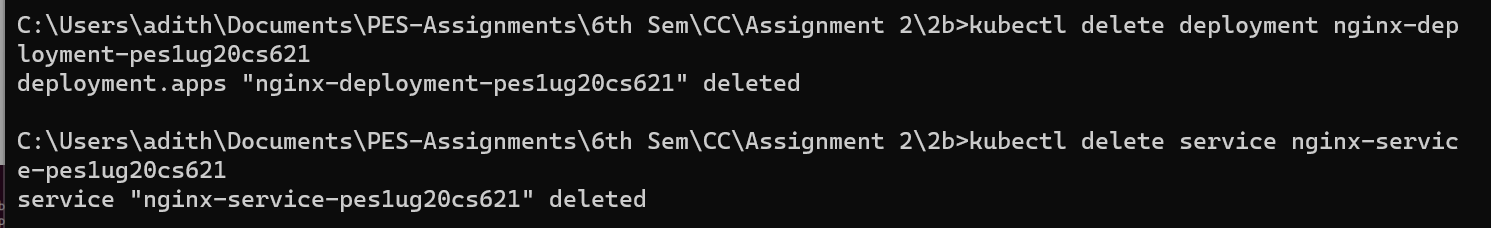


● Screenshot 7b- Display welcome to nginx on web page

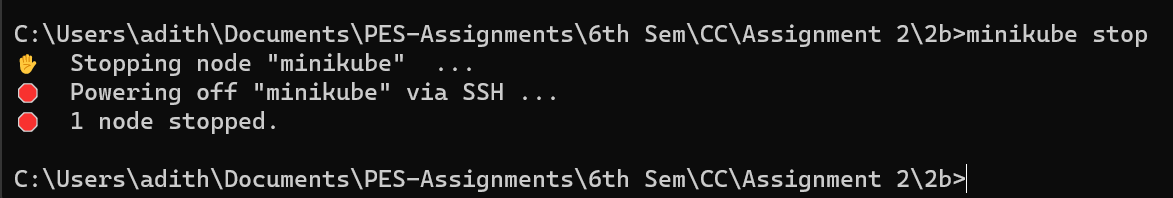
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**8. Section 8: Deleting service/deployment and Cleanup**

● Screenshot 8a - Delete nginx deployments

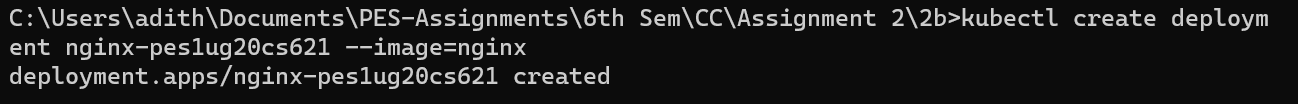


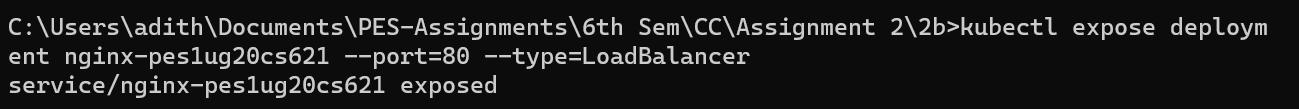
● Screenshot 8b - stop minikube

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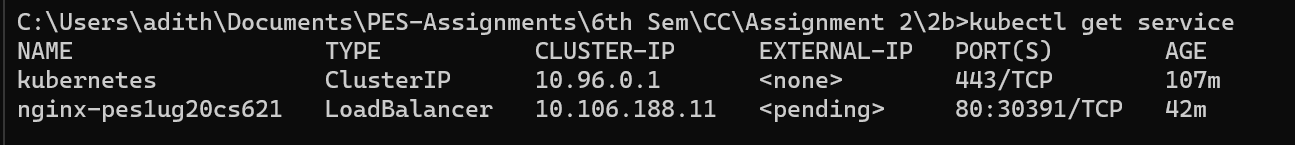
**9. Section 9: Expose an external IP address to access an Application in a cluster**

● Screenshot 9a- the command which exposes specifies the type of service (NodePort)

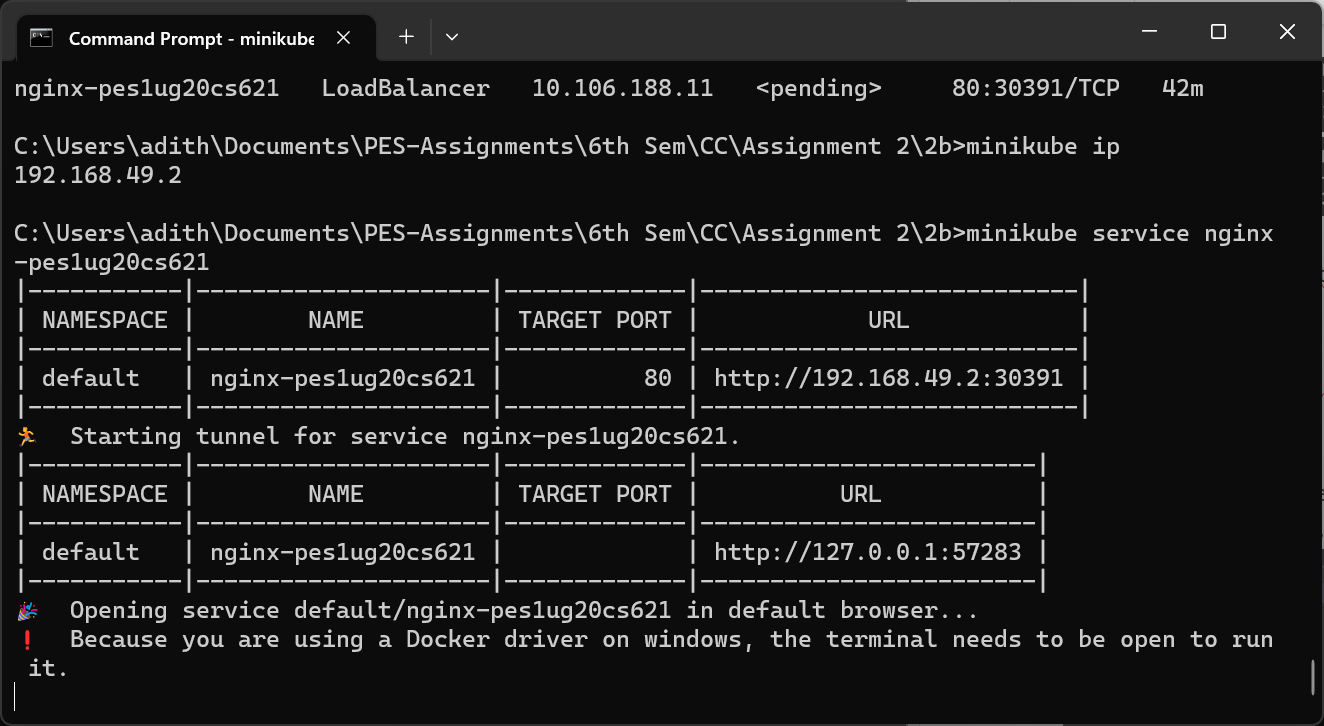




● Screenshot 9b - kubectl get service command which displays the node port



● Screenshot 9c - minikube IP address



● Screenshot 9d - the webpage with the IP Address visible. (If the IP Address is not

visible in the screenshot, you will lose significant portion of marks w.r.t. Section 9)

