**TASK 4** Aruthra D  
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**PROCEDURE**

**1. Start Minikube with Docker Driver**

Initialize Minikube using the Docker driver and force start it to ensure the Kubernetes cluster runs properly.

**2. Create a Deployment for the Web Application**

Deploy an nginx web server inside Kubernetes, which will act as the simple web application. The deployment ensures the pod is managed and runs consistently.

**3. Expose the Deployment Using NodePort**

Create a NodePort service to expose the web application outside the cluster. The service maps the container's port (80) to a NodePort, allowing access from the host machine.

**4. Verify the Running Pods**

Check the status of the deployed pods to ensure they are running successfully.

**5. Retrieve the Service Details**

List the services in Kubernetes to find the external NodePort assigned to the application, which will be used to access it.

**6. Access the Web Application via Minikube**

Retrieve the service URL and open it in a browser or access it using curl.

**7. Monitor the Pods in Real-time**

Use the watch command to continuously check the status of running pods and ensure their stability.

**8. View Logs of the Running Pod**

Check the logs of the deployed web application to monitor its activity and troubleshoot any issues.

**9. Display Command History**

Retrieve the history of executed commands for reference or debugging.

**OUTPUT**

