**KUBERNETES ASSIGNMENT 3**

**Exercise 1: Create and Use a Secret**

**Step 1: Create a Secret for database credentials:**

kubectl create secret generic db-secret --from-literal=DB\_USER=admin --from-literal=DB\_PASS=password123

**Step 2: Verify the Secret:**

kubectl get secrets

kubectl describe secret db-secret

**Step 3: Create a Pod that uses the Secret (nginx-secret-pod.yaml):**

**Step 4:** **Deploy the pod:**

kubectl apply -f nginx-secret-pod.yaml

**Step 5: Check the pod and logs:**

kubectl get pods

kubectl logs nginx-secret-pod

**Step 6: Delete the pod and Secret:**

kubectl delete -f nginx-secret-pod.yaml

kubectl delete secret db-secret

A screenshot of a computer screen

AI-generated content may be incorrect.

A screenshot of a computer screen

AI-generated content may be incorrect.

**Exercise 2: Create and Expose a Service**

**Step 1: Create a deployment:**

kubectl create deployment webapp --image=nginx

**Step 2: Expose the deployment using a service:**

kubectl expose deployment webapp --type=NodePort --port=80

**Step 3: Get service details:**

kubectl get svc webapp

**Step 4: Access the service (Minikube users):**

minikube service webapp --url

**Step 5: Delete the service and deployment:**

kubectl delete svc webapp

kubectl delete deployment webapp

A screenshot of a computer

AI-generated content may be incorrect.