**Kubernetes Tasks – 06**:

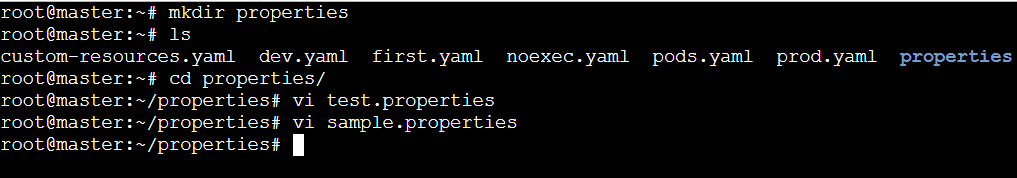
1. **Create a ConfigMap from a directory containing multiple files and inject the variables into a pod as environment variables**

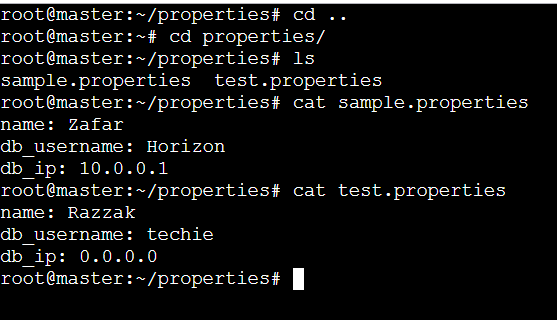
* **Create a directory and create two files in it.**

**>> mkdir properties**

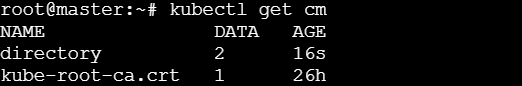
**>> vi test.properties**

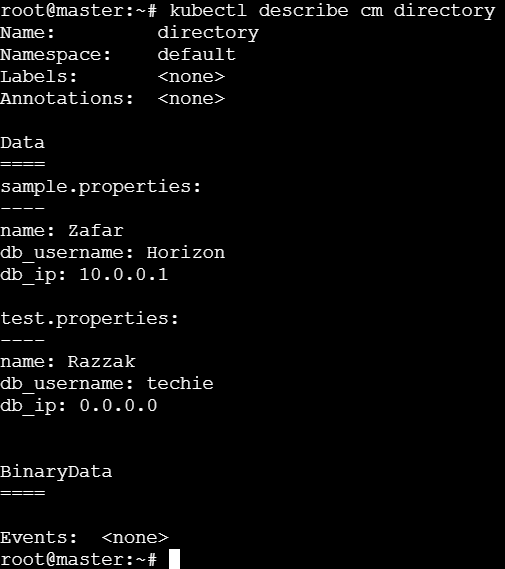
**>> vi sample.properties**



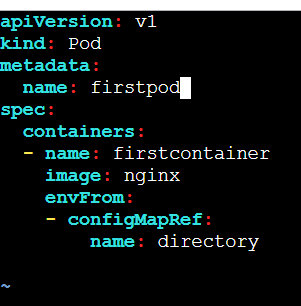


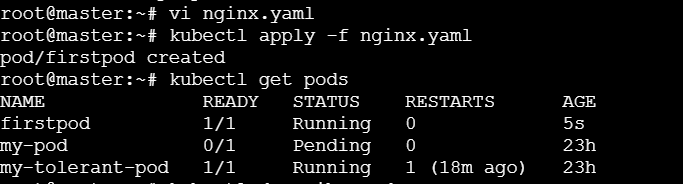


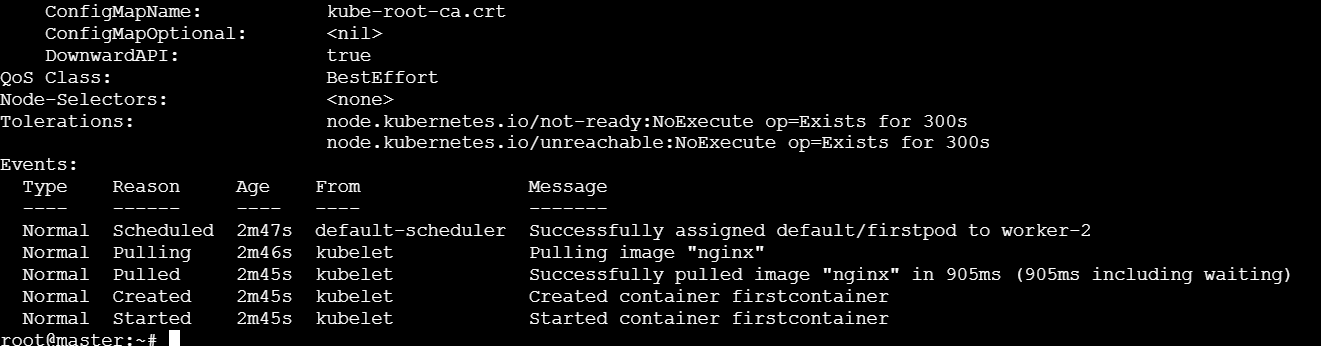


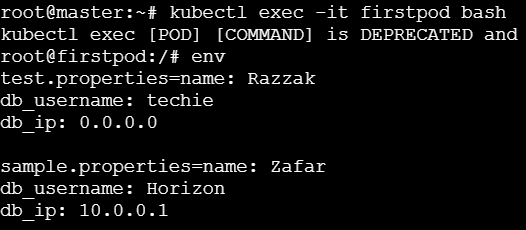


**>> vi nginx.yaml**

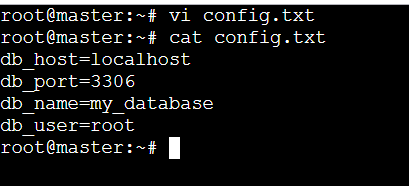
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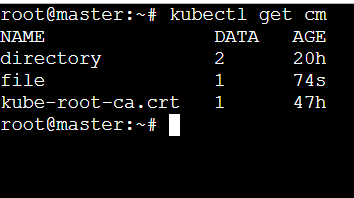
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**2) Create a ConfigMap from a file and mount it as a volume inside a pod, ensuring the configuration data is available as files.**

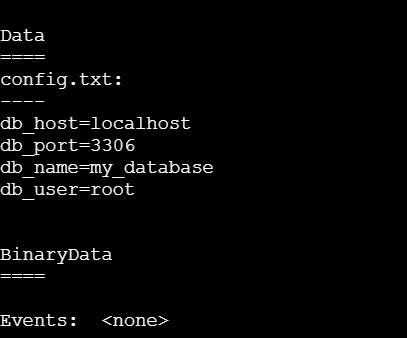


* **Create a config map using the file:**

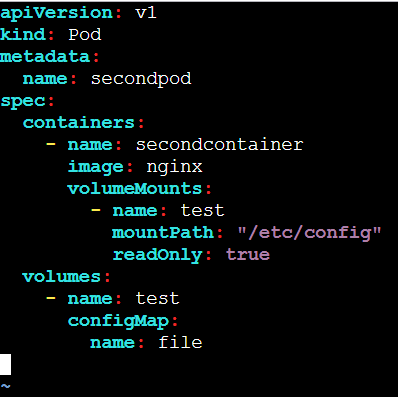


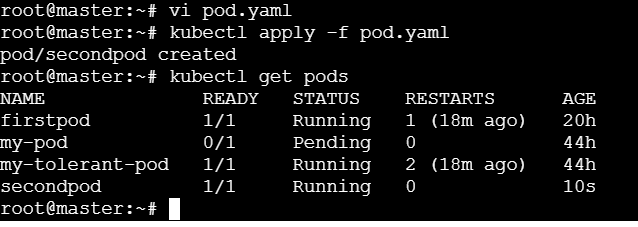


>> **kubectl describe cm**



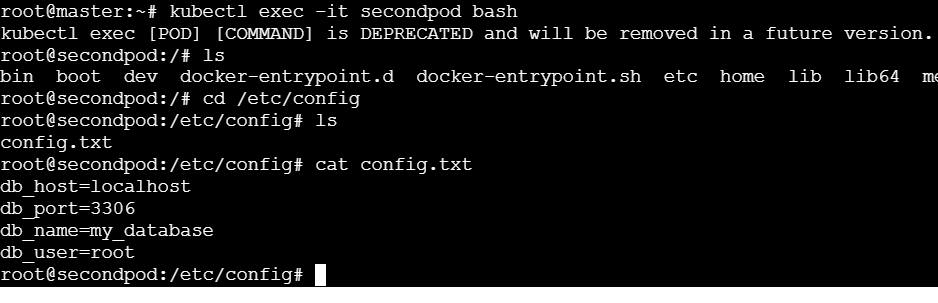
>> **vi pod.yaml**





* **Login into the pod:**

**>> kubectl exec -it secondpod bash**



1. **Create a Secret with sensitive information (username and password) and inject it into a pod as environment variables.**

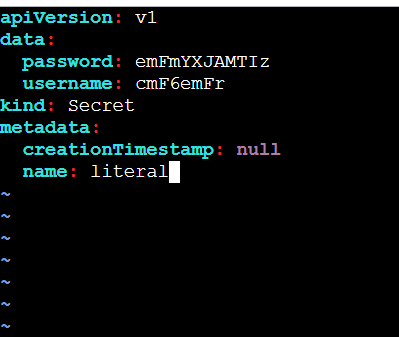
* **First generate a yaml file to create secret using the following command:**

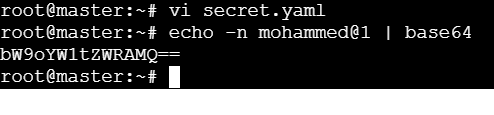
**>>** kubectl create secret generic literal --from-literal=username=razzak --from-literal=password=zafar@123 --dry-run=client -o yaml

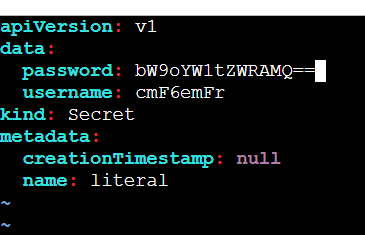
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* **Copy the generated sample into a yaml file**

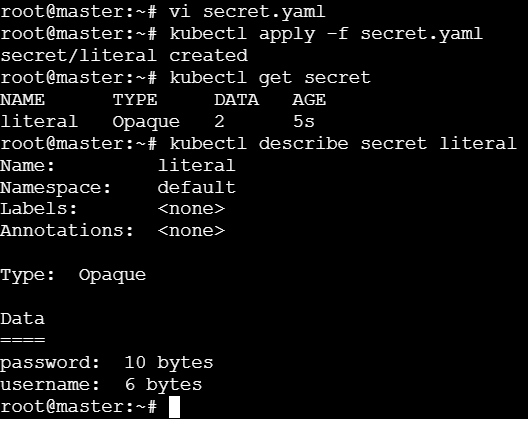
**>> vi secret.yaml**

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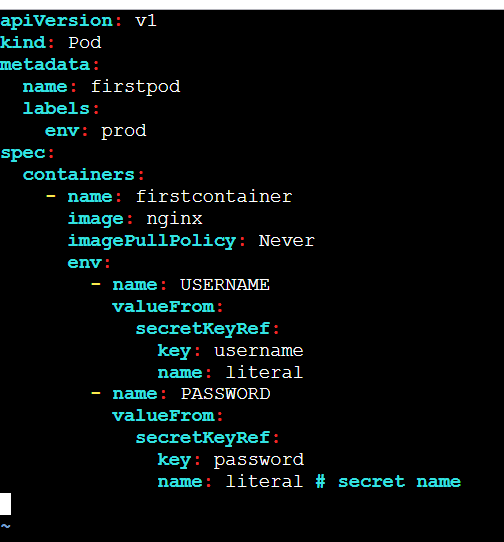
* **Changed the value of password and generated its encrypted base64** ****
* **Now Replace the password:**

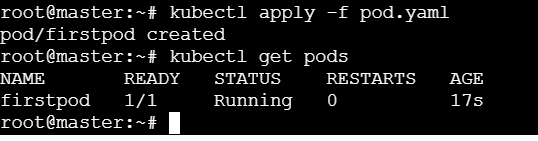
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**>> kubectl apply -f secret.yaml**

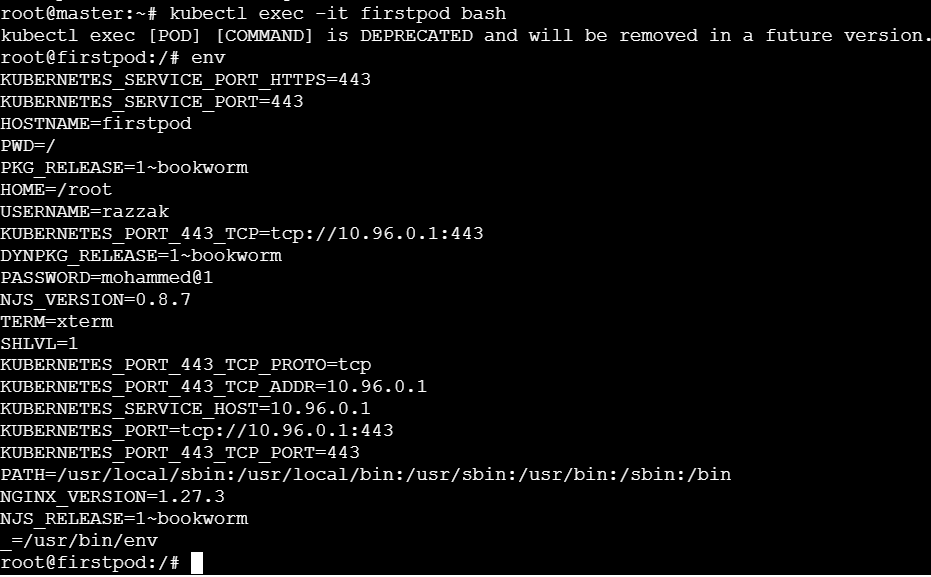
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**>> vi pod.yaml**

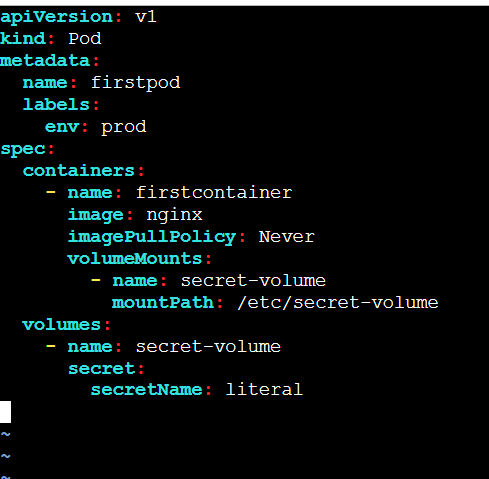
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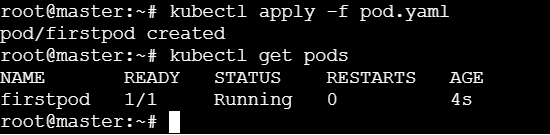
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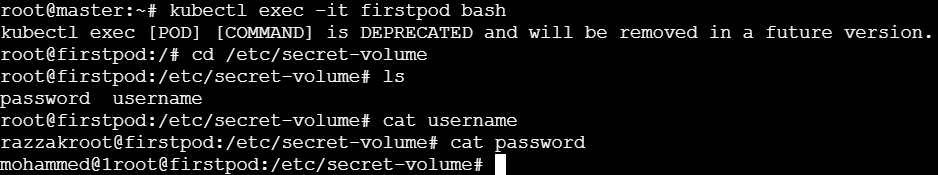
* **Login in the pod and check the env – . It will be decrypted inside the pod.**

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**4) Create a Secret using a YAML file, mount it as a volume in a pod, and verify the specific Secret values are available as files.**

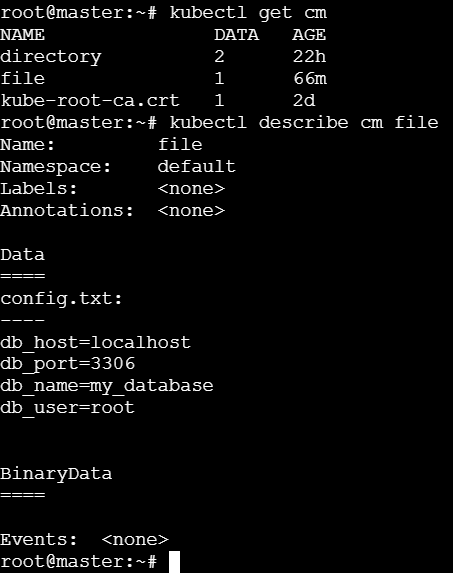
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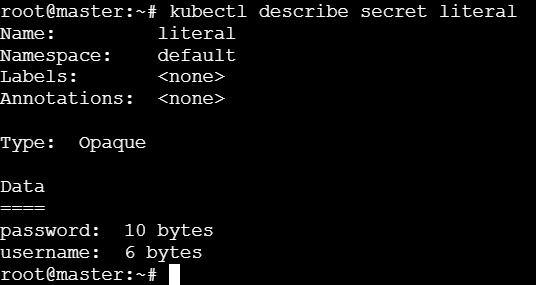
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**5) Inject a ConfigMap as environment variables and a Secret as files into the same pod, ensuring both are accessible within the pod.**

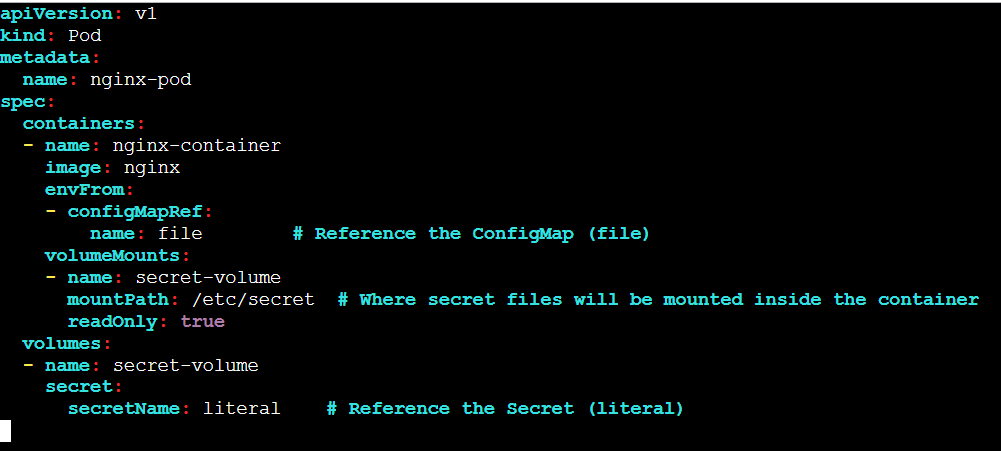
* **Using the above created ConfigMap (file type) (in task -2)**

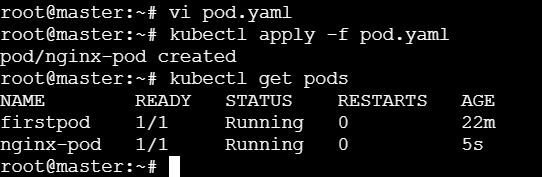
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* **Using the above created secret (in task-3)**

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**>> vi pod.yaml**

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* **Login to the pod using the command:**

**>> kubectl exec -it nginx-pod /bin/bash**

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