

Task

"Create a Job that collects logs from Pods, Nodes, or other sources and stores them in a file."

```
~]$ vim dep.yaml
```

Deployment بيشغل ٢ Pods تستخدم busybox لطباعة رسالة بانتظام كل ٥ ثواني

```
fouad2@client:~  
apiVersion: apps/v1  
kind: Deployment  
metadata:  
  name: log-producer  
spec:  
  replicas: 2  
  selector:  
    matchLabels:  
      app: log-producer  
  template:  
    metadata:  
      labels:  
        app: log-producer  
    spec:  
      containers:  
      - name: producer  
        image: busybox  
        command: ["sh", "-c"]  
        args:  
        - |  
          while true; do  
            echo "Hello from $(hostname) at $(date)";  
            sleep 5;  
          done
```

```
~]$  
~]$ vim job.yaml  
~]$
```

Job يستخدم kubectl image لجمع جميع ال logs ال Pods التابعة لـ Deployment log-producer

```
apiVersion: batch/v1  
kind: Job  
metadata:  
  name: log-collector  
spec:  
  template:  
    spec:  
      restartPolicy: Never  
      containers:  
      - name: collector  
        image: bitnami/kubectl:latest  
        command: ["sh", "-c"]  
        args:  
        - |  
          for pod in $(kubectl get pods -l app=log-producer -o name); do  
            echo "==== Logs from $pod ====";  
            kubectl logs $pod;  
          done
```

```
[fouad2@client ~]$
[fouad2@client ~]$ kubectl apply -f dep.yaml
deployment.apps/log-producer created
[fouad2@client ~]$
[fouad2@client ~]$
[fouad2@client ~]$ kubectl get pods
NAME                                READY   STATUS    RESTARTS   AGE
log-producer-74b8688cf4-849wz      1/1     Running   0           24s
log-producer-74b8688cf4-qv7rj      1/1     Running   0           23s
[fouad2@client ~]$
```

تجمع جميع ال logs من ال Pods التابعة لـ Deployment log-producer وحفظها في ملف mylogs

```
]$
~]$
~]$ kubectl logs -l app=log-producer --all-containers=true > mylogs
~]$
```

توجيه ال logs للملف

```
]$
~]$ kubectl logs job/log-collector > mylogs
~]$
```

عرض ال logs

```
[fouad2@client ~]$ tail -10 mylogs
Hello from log-producer-74b8688cf4-qv7rj at Wed Sep 24 08:39:36 UTC 2025
Hello from log-producer-74b8688cf4-qv7rj at Wed Sep 24 08:39:41 UTC 2025
Hello from log-producer-74b8688cf4-qv7rj at Wed Sep 24 08:39:46 UTC 2025
Hello from log-producer-74b8688cf4-qv7rj at Wed Sep 24 08:39:51 UTC 2025
Hello from log-producer-74b8688cf4-qv7rj at Wed Sep 24 08:39:56 UTC 2025
Hello from log-producer-74b8688cf4-qv7rj at Wed Sep 24 08:40:01 UTC 2025
Hello from log-producer-74b8688cf4-qv7rj at Wed Sep 24 08:40:06 UTC 2025
Hello from log-producer-74b8688cf4-qv7rj at Wed Sep 24 08:40:11 UTC 2025
Hello from log-producer-74b8688cf4-qv7rj at Wed Sep 24 08:40:16 UTC 2025
Hello from log-producer-74b8688cf4-qv7rj at Wed Sep 24 08:40:21 UTC 2025
[fouad2@client ~]$
```