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SPRINT-4

SCREEN SHOTS

1) KUBERNETES DEPLOYMENT

Step-1 ibm login

```
operable program or batch file.

(env) D:\Education\Personal expense tracker>ibmcloud login
API endpoint: https://cloud.ibm.com
Region: jp-tok

Email> 2116190701075@smartinternz.com

Password>
Authenticating...
OK

Targeted account JAYAPRAKASH P' (b1d89e3b8f184da08579ba9d15c02bc4)

API endpoint: https://cloud.ibm.com
Region: jp-tok
User: 2116190701075@smartinternz.com
Account: JAYAPRAKASH P' (b1d89e3b8f184da08579ba9d15c02bc4)
Resource group: No resource group targeted, use 'ibmcloud target -g RESOURCE_GROUP'
CF API endpoint:
Org:
Space:
```

Step-2 plugin and install conta

```
(env) D:\Education\Personal expense tracker>ibmcloud plugin install container-service
Looking up 'container-service' from repository 'IBM Cloud'...
Plug-in 'container-service[kubernetes-service/ks] 1.0.459' found in repository 'IBM Cloud'
Plug-in 'container-service[kubernetes-service/ks] 1.0.459' was already installed. Do you want to re-install it or not? [y/N] > y
Attempting to download the binary file...
26.86 MiB / 26.86 MiB [=====] 100.00% 40s
28168192 bytes downloaded
Installing binary...
OK
Plug-in 'container-service 1.0.459' was successfully installed into C:\Users\jayap\bluemix\plugins\container-service. Use 'ibmcloud plugin show container-service' to show its details.

(env) D:\Education\Personal expense tracker>ibmcloud ks cluster ls
OK


| Name           | ID                   | State  | Created   | Workers | Location | Version     | Resource Group Name | Provider |
|----------------|----------------------|--------|-----------|---------|----------|-------------|---------------------|----------|
| mycluster-free | cdrga3vf0vocqcdphrm0 | normal | 1 day ago | 1       | par      | 1.24.8_1544 | Default             | classic  |


201605317ca61: Layer already exists
```

Step-3 deployment to kubernetes

```
(env) D:\Education\Personal expense tracker>kubectl expose deployment flask-app --type=NodePort --name=flask-app
service/flask-app exposed

(env) D:\Education\Personal expense tracker>kubectl expose deployment blog-in-flask --type=NodePort --name=flask-app-service
Error from server (NotFound): deployments.apps "blog-in-flask" not found
```

```
(env) D:\Education\Personal expense tracker>kubectl get svc
NAME                TYPE        CLUSTER-IP      EXTERNAL-IP  PORT(S)          AGE
flask-app            NodePort    172.21.120.240  <none>       5000:30006/TCP   53s
flask-app-service    ClusterIP   172.21.152.208  <none>       5000/TCP         3m1s
kubernetes            ClusterIP   172.21.0.1      <none>       443/TCP          37h
```

The screenshot shows the IBM Cloud Kubernetes dashboard for a cluster named 'mycluster-free'. The cluster is in a 'Normal' state and expires in 28 days. The dashboard provides an overview of the cluster's status, including node status (1 of 1 nodes), add-on status (0 of 0), master status (Normal), and ingress status (Healthy). It also displays details such as the cluster ID, version (1.24.8_1544), infrastructure (Classic), zones (Milan 01), creation time (11/18/2022, 9:37 AM), resource group (Default), and image security enforcement (Disable). A warning banner at the top indicates that the cluster will be deleted in 28 days and advises backing up data. The left sidebar shows navigation options for Overview, Worker nodes, Worker pools, and DevOps. The bottom of the screen shows a Windows taskbar with various application icons and system information.

IBM Cloud

Search resources and products...

Clusters / mycluster-free Normal Expires in 28 days Add tags

Help Kubernetes dashboard Actions...

Expires in 28 days:
Be sure to back up your data, your cluster will be deleted in 28 days. To access the full capabilities of the service, try out a [standard cluster](#).

Node status
1 of 1
Normal
[Details](#)

Add-on status
0 of 0
Normal
[Details](#)

Master status
Normal
[Docs](#)

Ingress status
Healthy
[Docs](#)

Details

Cluster ID	Version	Infrastructure	Zones
cdrga3vf0vocqedphrm0	1.24.8_1544	Classic	Milan 01
Created	Resource group	Image security enforcement	
11/18/2022, 9:37 AM	Default	Disable	

Node health
1 total nodes
[Worker node details](#)

25°C Partly cloudy

00:42 20-11-2022

