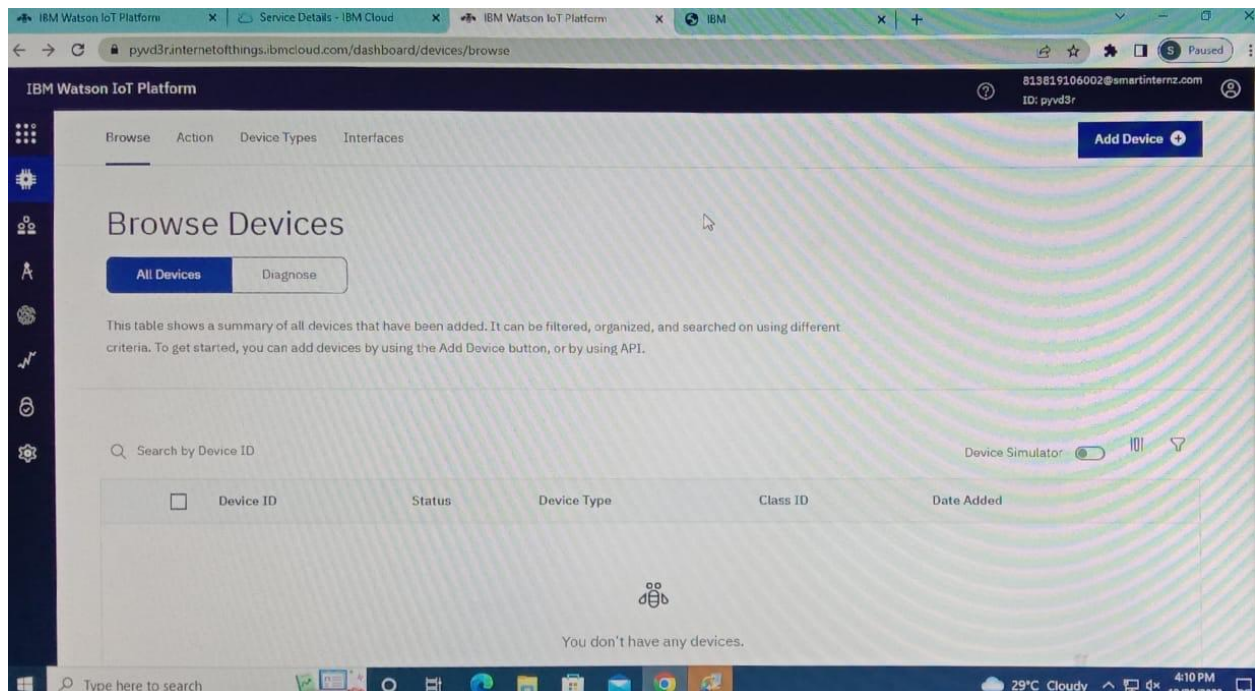


# CREATE AND CONFIGURE IBM CLOUD SERVICES

|              |   |
|--------------|---|
| TEAM ID      | PNT2022TMID32705  |
| PROJECT NAME | REAL TIME RIVER WATER QUALITY MONITORING AND CONTROL SYSTEM |

## IBM WATSON INSTALLATION:



## IBM NODE-RED INSTALLATION:

mycluster - IBM Cloud x mycluster - Kubernetes Dashbo x IBM App Development x +

eu-de.containers.cloud.ibm.com/kubeproxy/clusters/cdgbebof03gb278ov280/service/#/overview?namespace=default

Gmail YouTube Maps Gmail

kubernetes default Search + bell user

Overview

Workloads N

- Cron Jobs
- Daemon Sets
- Deployments
- Jobs
- Pods
- Replica Sets
- Replication Controllers
- Stateful Sets

Service

- Ingresses N
- Ingress Classes
- Services N

Config and Storage

Workloads

Workload Status

Failed: 1 Deployments

Pending: 1 Pods

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12:37 01-11-2022

Catalog - IBM Cloud x mycluster - Kubernetes Dash x IBM App Development x Untitled document - Google x Inbox (3,193) - aarthimano0 x +

eu-de.containers.cloud.ibm.com/kubeproxy/clusters/cdgbebof03gb278ov280/service/#/discovery?namespace=default

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Service

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Config and Storage

Services

| Name                       | Labels                   | Type      | Cluster IP | Internal Endpoints                     | External Endpoints | Created ↑   |
|----------------------------|--------------------------|-----------|------------|--|--------------------|-------------|
| <a href="#">kubernetes</a> | <a href="#">Show all</a> | ClusterIP | 172.21.0.1 | kubernetes:443 TCP<br>kubernetes:0 TCP | -                  | 2 hours ago |

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14:11 01-11-2022

mycluster - IBM Cloud x mycluster - Kubernetes x IBM App Developer x Service Details - IBM x Cloudant Dashboard x github login - Google x

cloud.ibm.com/kubernetes/clusters/cdgbebof03gb278ov280/overview

IBM Cloud Search resources and products... Catalog Manage Aarthi M's Account

Clusters / mycluster Normal Expires in 30 days Add tags Help Kubernetes dashboard Actions...

Overview

Worker nodes

Worker pools

DevOps New

Expires in 30 days: Be sure to back up your data, your cluster will be deleted in 30 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 Unknown Docs

Details

|                      |             |                |          |
|----------------------|-------------|----------------|----------|
| Cluster ID           | Version     | Infrastructure | Zones    |
| cdgbebof03gb278ov280 | 1.24.7_1542 | Classic        | Milan 01 |

PREREQUISITES.pdf node-red-tgwgc-2....zip Show all

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eu-de.containers.cloud.ibm.com/kubeproxy/clusters/cdgbebof03gb278ov280/service/#/configmap/default/kube-root-ca.crt?namespace=default

kubernetes default Search

Config And Storage > Config Maps > kube-root-ca.crt

| Name             | Namespace | Created     | Age         | UID                                 |
|------------------|-----------|-------------|-------------|-------------------------------------|
| kube-root-ca.crt | default   | Nov 1, 2022 | 3 hours ago | 4c254693-5102-438f-abc-bc9d4e0e693c |

Annotations

kubernetes.io/description

Data

```
1 {"ca.crt": "-----BEGIN CERTIFICATE-----
2 MIIDQCCAIgAwIBAgIUWH17U0U+Op6n8IAukvFF9VuRm8wDQYJKoZIhvcNAQEL
3 BQAwODE2MDQGA1UEAxMyZmV1b2ZyZWd1Mjc4b3YyODAta3V1ZXJ0ZXR1cy1j
4 YS8xNjY3MjgyODE4MjYwMTIwMTIwMTIwMTIwMTIwMTIwMTIwMTIwMTIwMTIw
5 MTIwMTIwMTIwMTIwMTIwMTIwMTIwMTIwMTIwMTIwMTIwMTIwMTIwMTIwMTIw
6 MTIwMTIwMTIwMTIwMTIwMTIwMTIwMTIwMTIwMTIwMTIwMTIwMTIwMTIwMTIw
7 MTIwMTIwMTIwMTIwMTIwMTIwMTIwMTIwMTIwMTIwMTIwMTIwMTIwMTIwMTIw
8 MTIwMTIwMTIwMTIwMTIwMTIwMTIwMTIwMTIwMTIwMTIwMTIwMTIwMTIwMTIw
9 MTIwMTIwMTIwMTIwMTIwMTIwMTIwMTIwMTIwMTIwMTIwMTIwMTIwMTIwMTIw
10 MTIwMTIwMTIwMTIwMTIwMTIwMTIwMTIwMTIwMTIwMTIwMTIwMTIwMTIwMTIw
11 MTIwMTIwMTIwMTIwMTIwMTIwMTIwMTIwMTIwMTIwMTIwMTIwMTIwMTIwMTIw
12 MTIwMTIwMTIwMTIwMTIwMTIwMTIwMTIwMTIwMTIwMTIwMTIwMTIwMTIwMTIw
13 MTIwMTIwMTIwMTIwMTIwMTIwMTIwMTIwMTIwMTIwMTIwMTIwMTIwMTIwMTIw
14 MTIwMTIwMTIwMTIwMTIwMTIwMTIwMTIwMTIwMTIwMTIwMTIwMTIwMTIwMTIw
15 MTIwMTIwMTIwMTIwMTIwMTIwMTIwMTIwMTIwMTIwMTIwMTIwMTIwMTIwMTIw
16 MTIwMTIwMTIwMTIwMTIwMTIwMTIwMTIwMTIwMTIwMTIwMTIwMTIwMTIwMTIw
-----END CERTIFICATE-----"}

```

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Download | Node.js

Downloads

Create a Kubernetes Cluster

Service Details - IBM Cloud

Node-RED

127.0.0.1:1880/#flow/9ca463c0a7f8da6d

Node-RED

Deploy

filter nodes

common

inject

debug

complete

catch

status

link in

link call

link out

comment

function

function

switch

Flow 1

info

Search flows

Flows

Flow 1

Subflows

Global Configuration Nodes

Flow 1

Flow "9ca463c0a7f8da6d"

Dragging a node onto a wire will splice it into the link