

# DEPLOY IN KUBERNETES CLUSTER

TEAM ID : PNT2022TMID01737

PROJECT NAME : NUTRITION ASSISTANT APPLICATION

The screenshot shows the IBM Cloud 'Kubernetes cluster' creation page. The main content area on the left includes a 'Create' button, a 'Plan details' section with a 'Pricing plan' dropdown set to 'Free', and a 'Kubernetes version' dropdown set to '1.24.8'. A banner for Red Hat OpenShift is also visible. The right sidebar contains a 'Summary' section for the 'United States' region, showing a 'Worker node' plan that is 'Free' with specifications: 'Free - 2 vCPUs 4GB RAM', 'Virtual - shared', and 'Ubuntu 18'. It also displays the 'Total estimated cost' as 'Free/mo' and includes a 'Create' button and an 'Add to estimate' button.

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Plan details

Learn more about the differences between plans in our [docs](#).

Pricing plan

Free

Kubernetes version

Select the Kubernetes platform version for your cluster. For more information about versions, including links to the container platform community release notes, [see the docs](#).

1.24.8

Resource details

Cluster name

mycluster-free

Resource group

Default

Summary

United States

Kubernetes cluster

1 Worker node

Free

Free - 2 vCPUs 4GB RAM  
Virtual - shared  
Ubuntu 18

Total estimated cost

Free/mo

Additional charges for networking and bandwidth might apply.  
Actual monthly total will vary with tiered pricing.  
Estimate does not include costs for integrations.

Create

Add to estimate

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Clusters /

mycluster-free

Help

Kubernetes dashboard

Actions...

Preparing master, workers... Expires in 30 days Add tags

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

Pending

Details

Add-on status

Error

Unknown

Details

Master status

Unknown

Docs

Ingress status

Pending

Docs

Details

Cluster ID

cdst1otf8g3s4lac02g

Version

1.24.8\_1544

Infrastructure

Classic

Zones

Milan 01

Created

20/11/2022, 13:08

Resource group

Image security enforcement

Enable

Node health

Worker node details

Help

Log in to your cluster

Deploy your app

Expose your app

Add storage to your app

Connect integrations

Install add-ons

Troubleshoot

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Node health

Worker node details

1 total nodes

Critical 0%

Warning 0%

Normal 0%

Pending 100%

Networking

Service endpoint URL

Public enabling

Copy link

Private disabled

Copy link

Integrations

Logging

Monitoring

Key management service

Incompatible master state

Incompatible master state

Enable

Unable to list addons. Could not connect to a backend service. Try again later.

0eaefc3-3182-4745-9667-291f83f92a

Help

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Pool: Filter...

Search

Add

Name	Status	Worker pool	Zone	Private IP	Public IP	Version
00000046	Provisioning - Infrastructu...	default	Milan 01	10.144.183.125	169.51.200.71	--> 1.24.7_1543

Items per page: 25 1-1 of 1 item 1 1 of 1 page

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DevOps

Search

Name	Zones	Status	Workers per zone	Actual / Declared workers	Flavor
default	Milan 01	Active	1	1 / 1	Free - 2 vCPUs 4GB RAM

Items per page: 25

1-1 of 1 item

1 1 of 1 page

Add

Help

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Troubleshoot

```

flask app.py > ...
65     result = db.fetch_assoc(stmt)
66     except:
67         pass
68
69     return result
70
71 # Creates user table if not exists
72 create_table = "CREATE TABLE IF NOT EXISTS user(email varchar(30), username varchar(30), password varchar(30))"
73 execute_sql(statement=create_table)
74
75 # Helper function to send confirmation mail on sign in
76 def send_confirmation_mail(user, email):
77     message = Mail(
78         from_email="nutritionassistant854@gmail.com",
79         to_emails=email,
80         subject="YAY!! Your Account was created successfully!",
81         html_content= "<strong>Account Created with username {0}</strong>".format(user)
82     )
83
84     try:
85         sg = SendGridAPIClient(os.environ.get('SENDGRID_API_KEY'))
86         response = sg.send(message)
87         print(response.status_code)
88         print(response.body)
89         print(response.headers)
90     except Exception as e:
91         print(e)
92
93 # Sign up page
94 @app.route(SIGN_UP_PAGE_URL, methods=['GET', 'POST'])
95 def signup():
96     msg = ''
97
98     if session.get('user'):
99         return redirect(HOME_PAGE_URL)
100
101     if request.method == 'POST':

```

