

SENDGRID INTEGRATION WITH PYTHON CODE

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The screenshot displays the IBM Cloud Kubernetes Clusters management interface. The left sidebar contains navigation links for Kubernetes, Clusters, Reservations, Helm catalog, and Container Registry. The main content area, titled 'Kubernetes clusters', features a table listing the clusters. A single cluster, 'mycluster-free', is shown with a 'Normal' state, located in 'Amsterdam 03' with 1 worker. The 'Created' column indicates it 'Expires in 29 days', and the 'Version' is '1.24.7_1542'. The 'Infrastructure' column shows 'Classic'. Above the table are filters for 'Resource group' and 'Location', a search bar, and a 'Create cluster' button. The bottom of the image shows a Windows taskbar with several open documents, application icons, and a system tray displaying '25°C', 'ENG', and the date '17-11-2022'.

Name	State	Location	Worker count	Created	Version	Infrastructure
mycluster-free	Normal	Amsterdam 03	1	Expires in 29 days	1.24.7_1542	Classic

cloud.ibm.com/kubernetes/clusters/cdq6bj6f0adto2unjdm0/overview

IBM Cloud Search resources and products... Catalog Manage ABINAYA R's Account

Clusters / mycluster-free Normal Expires in 29 days Add tags Help Kubernetes dashboard Actions...

Overview

Worker nodes

Worker pools

DevOps New

Expires in 29 days:
Be sure to back up your data, your cluster will be deleted in 29 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: cdq6bj6f0adto2unjdm0

Version: 1.24.7_1542

Infrastructure: Classic

Zones: Milan 01

Created: Resource group: Image security enforcement

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cloud.ibm.com/kubernetes/clusters/cdq6bj6f0adto2unjdm0/nodes

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Clusters / mycluster-free Normal Expires in 29 days Add tags Help Kubernetes dashboard Actions...

Overview

Worker nodes

Worker pools

DevOps New

Pool: Filter... Search Add

<input type="checkbox"/>	Name	Status	Worker pool	Zone	Private IP	Public IP	Version
<input type="checkbox"/>	0000004a	Normal	default	Milan 01	10.144.217.34	159.122.178.172	1.24.7_1543

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cloud.ibm.com/kubernetes/clusters/cdq6bj6f0adto2unjdm0/nodes

IBM Cloud

mycluster-free Normal

Overview

Worker nodes

Worker pools

DevOps New

Pool: F

Items p

Connect via CLI

Cluster status: Normal

If this is your first time connecting to an IBM Cloud cluster, see the [full setup directions](#).

1. Log in to your IBM Cloud account. Include the --sso option if using a federated ID.
`ibmcloud login -a cloud.ibm.com -x eu-de -g Default`
2. Set the Kubernetes context to your cluster for this terminal session. For more information about this command, [see the docs](#).
`ibmcloud ks cluster config --cluster cdq6bj6f0adto2unjdm0`
3. Verify that you can connect to your cluster.
`kubect1 config current-context`

Dashboard Actions...

Add +

Public IP	Version
159.122.178.172	1.24.7_1543

1 1 of 1 page

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File Edit Selection View Go Run Terminal Help config.ini - PYTHON-SENDGRID - Visual Studio Code

config.ini x sendmail.py

```
1 [SETTINGS]
2 APIKEY = 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
3 FROM = 732119205042@smartinternz.com
4 TO = harierode2001@gmail.com
```

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```
1 import configparser
2 import ssl
3 ssl.create_default_https_context = ssl._create_unverified_context
4 from sendgrid import SendGridAPIClient
5 from sendgrid.helpers.mail import Mail
6
7 config = configparser.ConfigParser()
8 config.read("config.ini")
9
10 def sendMailUsingSendGrid(API,from_email,to_emails,subject,html_content):
11     if API!=None and from_email!=None and len(to_emails)>0:
12         message = Mail(from_email,to_emails,subject,html_content)
13         try:
14             sg = SendGridAPIClient(API)
15             response = sg.send(message)
16             print(response.status_code)
17             print(response.body)
18             print(response.headers)
19         except Exception as e:
20             print(e.message)
21
22
23
24
25 try:
26     settings = config["SETTINGS"]
27 except:
28     settings = {}
29
30 API = settings.get("APIKEY",None)
31 from_email = settings.get("FROM",None)
32 to_emails = settings.get("TO","")
```

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```
1 import configparser
2 import ssl
3 ssl.create_default_https_context = ssl._create_unverified_context
4 from sendgrid import SendGridAPIClient
5 from sendgrid.helpers.mail import Mail
6
7 config = configparser.ConfigParser()
8 config.read("config.ini")
9
10 def sendMailUsingSendGrid(API,from_email,to_emails,subject,html_content):
11     if API!=None and from_email!=None and len(to_emails)>0:
12         message = Mail(from_email,to_emails,subject,html_content)
13         try:
14             sg = SendGridAPIClient(API)
```

PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL JUPYTER

Try the new cross-platform PowerShell <https://aka.ms/pscore6>

```
PS D:\PYTHON-SENDGRID> python -u "d:\PYTHON-SENDGRID\sendmail.py"
202
b''
Server: nginx
Date: Tue, 15 Nov 2022 06:39:33 GMT
Content-Length: 0
Connection: close
X-Message-Id: N7rE1ChDR7e0DNcoiu0ImA
Access-Control-Allow-Origin: https://sendgrid.api-docs.io
Access-Control-Allow-Methods: POST
Access-Control-Allow-Headers: Authorization, Content-Type, On-behalf-of, x-sg-elas-acl
Access-Control-Max-Age: 600
X-No-CORS-Reason: https://sendgrid.com/docs/Classroom/Basics/API/cors.html
Strict-Transport-Security: max-age=600; includeSubDomains

PS D:\PYTHON-SENDGRID>
```

Ln 33, Col 1 Spaces: 4 UTF-8 CRLF Python 3.10.6 64-bit