

# DEPLOY IN KUBERNETES CLUSTER

Date	7 November 2022
Team no	PNT2022TMID36609
Project	Plasma Donor Application

The screenshot shows the IBM Cloud console interface for a Kubernetes cluster. The browser tabs include 'github.com', 'mycluster-free - IBM Cloud', and 'Reviewing master health | IBM Cloud'. The address bar shows the URL 'cloud.ibm.com/kubernetes/clusters/cdeevuef0sgqo7ua2ju0/overview'. The IBM Cloud header includes a search bar and navigation links like 'Catalog', 'Manage', and 'Mani Kandan's Account'. The main content area is titled 'Clusters / mycluster-free' and shows the cluster's status as 'Preparing master, workers...'. A warning banner indicates the cluster will expire in 30 days. The overview section displays four status cards: 'Node status' (1 of 1 Pending), 'Add-on status' (0 of 0 Normal), 'Master status' (Deploying), and 'Ingress status' (Pending). Below these, a 'Details' section lists cluster information: Cluster ID 'cdeevuef0sgqo7ua2ju0', Version '1.24.7\_1542', Infrastructure 'Classic', Zones 'Milan 01', Created '29/10/2022, 14:48', and Resource group. An 'Image security enforcement' button is also visible. The Windows taskbar at the bottom shows the time as 2:54 PM on 10/29/2022.

IBM Cloud

Search resources and products...

Clusters / mycluster-free

Preparing master, workers... Expires in 30 days Add tags Help Kubernetes dashboard Actions...

**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**  
0 of 0  
Normal  
[Details](#)

**Master status**  
Deploying  
[Docs](#)

**Ingress status**  
Pending  
[Docs](#)

**Details**

Cluster ID	Version	Infrastructure	Zones
cdeevuef0sgqo7ua2ju0	1.24.7_1542	Classic	Milan 01
Created	Resource group	Image security enforcement	
29/10/2022, 14:48		<a href="#">Enable</a>	

github.com x mycluster-free - IBM Cloud x +

cloud.ibm.com/kubernetes/clusters/cdeevuef0sgqo7ua2ju0/nodes

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Clusters / mycluster-free Preparing master, workers... Expires in 30 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"/>	00000004	<span>Normal</span>	default	Milan 01	10.144.212.112	169.51.207.238	1.24.6_1541

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

Type here to search

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eu-de.containers.cloud.ibm.com/kubeproxy/clusters/cdeevuef0sgqo7ua2ju0/service/#/namespace?namespace=default

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kubernetes default Search + ? ?

Cluster > Namespaces

Cluster Role Bindings Cluster Roles Events **Namespaces** Network Policies Nodes Persistent Volumes Role Bindings Roles Service Accounts Custom Resource Definitions Settings About

### Namespaces

Name	Labels	Phase	Created ↑
<a href="#">ibm-cert-store</a>	<a href="#">Show all</a>	Active	12 minutes ago
<a href="#">ibm-operators</a>	<a href="#">Show all</a>	Active	49 minutes ago
<a href="#">ibm-system</a>	<a href="#">Show all</a>	Active	52 minutes ago
<a href="#">default</a>	<a href="#">Show all</a>	Active	53 minutes ago
<a href="#">kube-node-lease</a>	<a href="#">Show all</a>	Active	53 minutes ago
<a href="#">kube-public</a>	<a href="#">Show all</a>	Active	53 minutes ago
<a href="#">kube-system</a>	<a href="#">Show all</a>	Active	53 minutes ago

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eu-de.containers.cloud.ibm.com/kubeproxy/clusters/cdeevuef0sgqo7ua2ju0/service/#/clusterrolebinding?namespace=default

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kubernetes default Search

Cluster > Cluster Role Bindings

Config Maps (N)  
Persistent Volume Claims (N)  
Secrets (N)  
Storage Classes  
Cluster  
Cluster Role Bindings  
Cluster Roles  
Events (N)  
Namespaces  
Network Policies (N)  
Nodes  
Persistent Volumes  
Role Bindings (N)  
Roles (N)

### Cluster Role Bindings

Name	Created ↑
ibm-admin	3 minutes ago
ibm-k8s-ingress	18 minutes ago
ibm-ingress	18 minutes ago
metrics-server:system:auth-delegator	49 minutes ago
system:metrics-server	49 minutes ago
kubernetes-dashboard	49 minutes ago
system:coredns-autoscaler	51 minutes ago
system:coredns	51 minutes ago

Type here to search

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eu-de.containers.cloud.ibm.com/kubeproxy/clusters/cdeevuef0sgqo7ua2ju0/service/#/service?namespace=default

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kubernetes default Search

Service > Services

Deployments  
Jobs  
Pods  
Replica Sets  
Replication Controllers  
Stateful Sets  
Service  
Ingresses (N)  
Ingress Classes  
Services (N)  
Config and Storage  
Config Maps (N)  
Persistent Volume Claims (N)  
Secrets (N)  
Storage Classes

### Services

Name	Labels	Type	Cluster IP	Internal Endpoints	External Endpoints	Created ↑
kubernetes	Show all	ClusterIP	172.21.0.1	kubernetes:443 TCP kubernetes:0 TCP	-	55 minutes ago

Type here to search

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CApD-Kushboo/deploymentyan x Resource list - IBM Cloud x mycluster-free - Kubernetes Dask x +

cloud.ibm.com/resources

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## Resource list

Create resource +

Name	Group	Location	Product	Status	Tags
Filter by name or IP address... Filter by group or org... Filter... Filter... Filter... Filter...					
Compute (0)					
Containers (3)					
job-portal-application	Default	Sydney	Container Registry	—	—
job-portal-main	Default	Global	Container Registry	—	—
mycluster-free	Default	Frankfurt	Kubernetes Service	Normal	—
Networking (0)					
Storage (1+)					
AI / Machine Learning (1+)					
Analytics (0)					
Blockchain (0)					
Databases (1)					

Type here to search

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CApD-Kushboo/deploymentyan x Create a Cluster - IBM Cloud x +

cloud.ibm.com/kubernetes/catalog/create

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## Kubernetes cluster

Author: IBM • Docs • API docs

Create About

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### Plan details

Learn more about the differences between plans in our docs.

Pricing plan

Free

### Kubernetes version

#### 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.

Creating...

Add to estimate

Type here to search

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