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全部开发者教程

RabbitMQ理论+实战精讲

每章总结

第二章RabbitMQ快速入门回顾

第三章RabbitMQ基础总结

第四章RabbitMQ高级特性总结

第五章RabbitMQ和SpringBoot适配

第六章RabbitMQ集群入门

第七章RabbitMQ集群高可用

Java / 第七章RabbitMQ集群高可用



Moody • 更新于 2020-10-10

← 上一节 第六章RabbitM...

Docker 安装方法

安装依赖包

<> 代码块

```
1 sudo yum install -y yum-utils device-mapper-persistent-data lvm2
```

配置仓库

<> 代码块

```
1 sudo yum-config-manager --add-repo https://download.docker.com/linux/centos/d
```

安装docker

<> 代码块

```
1 sudo yum install docker-ce -y
```

设置docker自启动

<> 代码块

```
1 sudo systemctl enable docker
```

启动docker服务

<> 代码块

```
1 sudo systemctl start docker
```

查看docker版本

<> 代码块

```
1 docker -v
```

运行hello-world容器

<> 代码块

```
1 sudo docker run hello-world
```

启动单节点Rabbit MQ

<> 代码块

```
1 docker run -d --rm --name rabbitmq -p 5672:5672 -p 15672:15672 rabbitmq:3-man
```

安装 Docker Compose

意见反馈

收藏教程

标记书签

<> 代码块

```
1 dnf install python2-pip
```

安装python3-pip

<> 代码块

```
1 dnf install python3-pip
```

安装docker-compose

<> 代码块

```
1 pip3 install docker-compose
```

查看版本

<> 代码块

```
1 docker-compose version
```

使用 Docker Compose 启动3个 RabbitMQ 节点

<> 代码块

```
1 vi docker-compose.yml
```

<> 代码块

```
1 version: "2.0"
2 services:
3   rabbit1:
4     image: rabbitmq:3-management
5     hostname: rabbit1
6     ports:
7       - 5672:5672 #集群内部访问的端口
8       - 15672:15672 #外部访问的端口
9     environment:
10      - RABBITMQ_DEFAULT_USER=guest #用户名
11      - RABBITMQ_DEFAULT_PASS=guest #密码
12      - RABBITMQ_ERLANG_COOKIE='imooctrabbitmq'
13
14   rabbit2:
15     image: rabbitmq:3-management
16     hostname: rabbit2
17     ports:
18       - 5673:5672
19     environment:
20      - RABBITMQ_ERLANG_COOKIE='imooctrabbitmq'
21     links:
22       - rabbit1
23
24   rabbit3:
25     image: rabbitmq:3-management
26     hostname: rabbit3
27     ports:
28       - 5674:5672
29     environment:
30      - RABBITMQ_ERLANG_COOKIE='imooctrabbitmq'
31     links:
32       - rabbit1
33       - rabbit2
```

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将3个 RabbitMQ 节点搭建为集群

启动docker-compose，按照脚本启动集群

<> 代码块

```
1 docker-compose up -d
```

进入2号节点

<> 代码块

```
1 docker exec -it root_rabbit2_1 bash
```

停止2号节点的rabbitmq

<> 代码块

```
1 rabbitmqctl stop_app
```

配置2号节点，加入集群

<> 代码块

```
1 rabbitmqctl join_cluster rabbit@rabbit1
```

启动2号节点的rabbitmq

<> 代码块

```
1 rabbitmqctl start_app
```

进入3号节点

<> 代码块

```
1 docker exec -it root_rabbit3_1 bash
```

停止3号节点的rabbitmq

<> 代码块

```
1 rabbitmqctl stop_app
```

配置3号节点，加入集群

<> 代码块

```
1 rabbitmqctl join_cluster rabbit@rabbit1
```

启动3号节点的rabbitmq

<> 代码块

```
1 rabbitmqctl start_app
```

K8S编排脚本

<> 代码块

```
1 kind: Service
2 # 相当于负载均衡层
3 apiVersion: v1
4 # 元数据
```

```
7   namespace: test-rabbitmq
8   name: rabbitmq
9   labels:
10     app: rabbitmq
11     type: LoadBalancer
12 spec:
13   type: NodePort
14   ports:
15     - name: http
16       protocol: TCP
17       port: 15672
18       targetPort: 15672
19       nodePort: 31672
20     - name: amqp
21       protocol: TCP
22       port: 5672
23       targetPort: 5672
24       nodePort: 30672
25   selector:
26     app: rabbitmq
27 ---
28 apiVersion: v1
29 # 用于注入配置文件
30 kind: ConfigMap
31 metadata:
32   name: rabbitmq-config
33   namespace: test-rabbitmq
34 data:
35   enabled_plugins: |
36     [rabbitmq_management,rabbitmq_peer_discovery_k8s].
37   rabbitmq.conf: |
38     cluster_formation.peer_discovery_backend = rabbit_peer_discovery_k8s
39     cluster_formation.k8s.host = kubernetes.default.svc.cluster.local
40     cluster_formation.k8s.address_type = ip
41     cluster_formation.node_cleanup.interval = 30
42     cluster_formation.node_cleanup.only_log_warning = true
43     cluster_partition_handling = autoheal
44     loopback_users.guest = false
45
46 ---
47 apiVersion: apps/v1beta1
48 kind: StatefulSet
49 metadata:
50   name: rabbitmq
51   namespace: test-rabbitmq
52 spec:
53   serviceName: rabbitmq
54   replicas: 3
55   template:
56     metadata:
57       labels:
58         app: rabbitmq
59     spec:
60       serviceAccountName: rabbitmq
61       terminationGracePeriodSeconds: 10
62       containers:
63         - name: rabbitmq
64           image: rabbitmq:3-management
65           volumeMounts:
66             - name: config-volume
67               mountPath: /etc/rabbitmq
68           ports:
69             - name: http
```

```
72     - name: amqp
73       protocol: TCP
74       containerPort: 5672
75   livenessProbe:
76     exec:
77       command: ["rabbitmqctl", "status"]
78     initialDelaySeconds: 60
79     periodSeconds: 60
80     timeoutSeconds: 10
81   readinessProbe:
82     exec:
83       command: ["rabbitmqctl", "status"]
84     initialDelaySeconds: 20
85     periodSeconds: 60
86     timeoutSeconds: 10
87   imagePullPolicy: Always
88   env:
89     - name: MY_POD_IP
90       valueFrom:
91         fieldRef:
92           fieldPath: status.podIP
93     - name: RABBITMQ_USE_LONGNAME
94       value: "true"
95     - name: RABBITMQ_NODENAME
96       value: "rabbit@$(MY_POD_IP)"
97     - name: K8S_SERVICE_NAME
98       value: "rabbitmq"
99     - name: RABBITMQ_ERLANG_COOKIE
100      value: "imocrabbit"
101   volumes:
102     - name: config-volume
103       configMap:
104         name: rabbitmq-config
105         items:
106           - key: rabbitmq.conf
107             path: rabbitmq.conf
108           - key: enabled_plugins
109             path: enabled_plugins
```

第六章RabbitMQ集群入门 ◀ 上一节

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