

helm 部署rabbitmq集群

自己制作helm发布

```
cd /root/install-some-apps/rabbit-cluster
```

可以参考下面的内容

官网helm

```
[root@k8s-master01 ~]# helm repo list
NAME          URL
aliyuncs      https://apphub.aliyuncs.com
stable        https://kubernetes.oss-cn-hangzhou.aliyuncs.com/charts
ingress-nginx https://kubernetes.github.io/ingress-nginx
```

查看可使用tabbitmq-ha的版本

```
[root@k8s-master01 ~]# helm search repo rabbitmq-ha
NAME          CHART VERSION APP VERSION DESCRIPTION
aliyuncs/rabbitmq-ha 1.39.0          3.8.0          Highly available RabbitMQ cluster, the
open sou...
stable/rabbitmq-ha 1.0.0           3.7.3          Highly available RabbitMQ cluster, the
open sou...
[root@k8s-master01 ~]# helm search repo rabbitmq-ha --versions
NAME          CHART VERSION APP VERSION DESCRIPTION
aliyuncs/rabbitmq-ha 1.39.0          3.8.0          Highly available RabbitMQ cluster, the
open sou...
aliyuncs/rabbitmq-ha 1.38.2          3.8.0          Highly available RabbitMQ cluster, the
open sou...
aliyuncs/rabbitmq-ha 1.38.1          3.8.0          Highly available RabbitMQ cluster, the
open sou...
aliyuncs/rabbitmq-ha 1.36.4          3.8.0          Highly available RabbitMQ cluster, the
open sou...
aliyuncs/rabbitmq-ha 1.36.3          3.8.0          Highly available RabbitMQ cluster, the
open sou...
```

aliyuncs/rabbitmq-ha	1.36.0	3.8.0	Highly available RabbitMQ cluster, the open sou...
aliyuncs/rabbitmq-ha	1.34.1	3.7.19	Highly available RabbitMQ cluster, the open sou...
aliyuncs/rabbitmq-ha	1.34.0	3.7.19	Highly available RabbitMQ cluster, the open sou...
aliyuncs/rabbitmq-ha	1.33.0	3.7.15	Highly available RabbitMQ cluster, the open sou...
aliyuncs/rabbitmq-ha	1.32.4	3.7.15	Highly available RabbitMQ cluster, the open sou...
aliyuncs/rabbitmq-ha	1.32.3	3.7.15	Highly available RabbitMQ cluster, the open sou...
aliyuncs/rabbitmq-ha	1.32.2	3.7.15	Highly available RabbitMQ cluster, the open sou...
aliyuncs/rabbitmq-ha	1.32.0	3.7.15	Highly available RabbitMQ cluster, the open sou...
aliyuncs/rabbitmq-ha	1.31.0	3.7.15	Highly available RabbitMQ cluster, the open sou...
aliyuncs/rabbitmq-ha	1.30.0	3.7.15	Highly available RabbitMQ cluster, the open sou...
aliyuncs/rabbitmq-ha	1.29.1	3.7.15	Highly available RabbitMQ cluster, the open sou...
aliyuncs/rabbitmq-ha	1.29.0	3.7.15	Highly available RabbitMQ cluster, the open sou...
aliyuncs/rabbitmq-ha	1.28.0	3.7.15	Highly available RabbitMQ cluster, the open sou...
aliyuncs/rabbitmq-ha	1.27.2	3.7.15	Highly available RabbitMQ cluster, the open sou...
aliyuncs/rabbitmq-ha	1.27.1	3.7.12	Highly available RabbitMQ cluster, the open sou...
stable/rabbitmq-ha	1.0.0	3.7.3	Highly available RabbitMQ cluster, the open sou...
stable/rabbitmq-ha	0.1.1	3.7.0	Highly available RabbitMQ cluster, the open sou...

拉取指定版本的配置

```
[root@k8s-master01 ~]# helm pull aliyuncs/rabbitmq-ha --version=1.33.0
[root@k8s-master01 ~]# ls
helm  old  rabbitmq-cluster  rabbitmq-ha-1.33.0.tgz #这个就只拉去的文件，可以解压
```

查询配置文件

```
[root@k8s-master01 ~]# tar -xf rabbitmq-ha-1.33.0.tgz
[root@k8s-master01 ~]# ls
helm  old  rabbitmq-cluster  rabbitmq-ha  rabbitmq-ha-1.33.0.tgz
[root@k8s-master01 ~]# tree rabbitmq-ha
rabbitmq-ha
```

```
├── Chart.yaml
├── OWNERS
├── README.md
├── templates
│   ├── alerts.yaml
│   ├── configmap.yaml
│   ├── _helpers.tpl
│   ├── ingress.yaml
│   ├── NOTES.txt
│   ├── pdb.yaml
│   ├── rolebinding.yaml
│   ├── role.yaml
│   ├── secret.yaml
│   ├── serviceaccount.yaml
│   ├── service-discovery.yaml
│   ├── servicemonitor.yaml
│   ├── service.yaml
│   └── statefulset.yaml
└── values.yaml
```

1 directory, 18 files

参考

```
├── charts # 依赖文件
├── Chart.yaml # 这个chart的版本信息
├── templates #模板
│   ├── deployment.yaml
│   ├── _helpers.tpl # 自定义的模板或者函数
│   ├── ingress.yaml
│   ├── NOTES.txt #这个chart的信息
│   ├── serviceaccount.yaml
│   ├── service.yaml
│   └── tests
│       └── test-connection.yaml
└── values.yaml #配置全局变量或者一些参数
```

创建namespaces

helm指定namespaces，如果没有namespaces空间，就会报错。需要提前创建

```
[root@k8s-master01 ~]# helm create rabbitmq-cluster
Creating rabbitmq-cluster
```

运行rabbitmq集群

```
[root@k8s-master01 rabbitmq-ha]# pwd
/root/rabbitmq-ha
[root@k8s-master01 rabbitmq-ha]# ls
Chart.yaml OWNERS README.md templates values.yaml
[root@k8s-master01 rabbitmq-ha]# helm install rabbitmq --namespace rabbitmq-cluster --
set ingress.enabled=true,ingress.hostName=rabbitmq.akiraka.net --set
rabbitmqUsername=aka,rabbitmqPassword=rabbitmq,managementPassword=rabbitmq,rabbitmqErla
ngCookie=secretcookie .
```

```
NAME: rabbitmq
LAST DEPLOYED: Sun Mar 14 17:25:11 2021
NAMESPACE: rabbitmq-cluster
STATUS: deployed
REVISION: 1
TEST SUITE: None
NOTES:
** Please be patient while the chart is being deployed **
```

Credentials:

```
Username           : aka
Password           : $(kubectl get secret --namespace rabbitmq-cluster rabbitmq-
rabbitmq-ha -o jsonpath="{.data.rabbitmq-password}" | base64 --decode)
Management username : management
Management password : $(kubectl get secret --namespace rabbitmq-cluster rabbitmq-
rabbitmq-ha -o jsonpath="{.data.rabbitmq-management-password}" | base64 --decode)
ErLang Cookie      : $(kubectl get secret --namespace rabbitmq-cluster rabbitmq-
rabbitmq-ha -o jsonpath="{.data.rabbitmq-erlang-cookie}" | base64 --decode)
```

RabbitMQ can be accessed within the cluster on port 5672 at rabbitmq-rabbitmq-ha.rabbitmq-cluster.svc.cluster.local

To access the cluster externally execute the following commands:

```
export POD_NAME=$(kubectl get pods --namespace rabbitmq-cluster -l "app=rabbitmq-
ha" -o jsonpath="{.items[0].metadata.name}")
kubectl port-forward $POD_NAME --namespace rabbitmq-cluster 5672:5672 15672:15672
```

To Access the RabbitMQ AMQP port:

amqp://127.0.0.1:5672/

To Access the RabbitMQ Management interface:

URL : http://127.0.0.1:15672

查看集群

```
[root@k8s-master01 rabbitmq-ha]# kubectl get svc,pod,ingress -n rabbitmq-cluster
```

NAME	AGE	TYPE	CLUSTER-IP	EXTERNAL-IP	PORT(S)
service/rabbitmq-rabbitmq-ha	15672/TCP,5672/TCP,4369/TCP	ClusterIP	None	<none>	7m23s
service/rabbitmq-rabbitmq-ha-discovery	15672/TCP,5672/TCP,4369/TCP	ClusterIP	None	<none>	7m23s

NAME	READY	STATUS	RESTARTS	AGE
pod/rabbitmq-rabbitmq-ha-0	1/1	Running	0	7m23s
pod/rabbitmq-rabbitmq-ha-1	1/1	Running	0	6m56s
pod/rabbitmq-rabbitmq-ha-2	1/1	Running	0	6m34s

NAME	CLASS	HOSTS	ADDRESS
ingress.extensions/rabbitmq-rabbitmq-ha	<none>	rabbitmq.akiraka.net	10.96.107.62

PORTS	AGE
80	7m23s

补充

```
helm install helm-test2 --set fullnameOverride=aaaaaaa --dry-run .
这个是模拟运行

删除helm uninstall rabbitmq-cluster -n public-service # helm v3 --keep-history
helm delete/del NAME --purge
升级helm upgrade rabbitmq-cluster -n public-service .
```

卸载保留历史记录

```
[root@k8s-master01 rabbitmq-ha]# helm uninstall rabbitmq -n rabbitmq-cluster --keep-history
release "rabbitmq" uninstalled
[root@k8s-master01 rabbitmq-ha]# helm list -n rabbitmq-cluster
NAME NAMESPACE REVISION UPDATED STATUS CHART APP VERSION
[root@k8s-master01 rabbitmq-ha]# helm list
NAME NAMESPACE REVISION UPDATED STATUS CHART APP VERSION
[root@k8s-master01 rabbitmq-ha]# helm ls
NAME NAMESPACE REVISION UPDATED STATUS CHART APP VERSION
[root@k8s-master01 rabbitmq-ha]# helm status rabbitmq -n rabbitmq-cluster
NAME: rabbitmq
```

LAST DEPLOYED: Sun Mar 14 17:25:11 2021

NAMESPACE: rabbitmq-cluster

STATUS: uninstalled

REVISION: 1

TEST SUITE: None

NOTES:

**** Please be patient while the chart is being deployed ****

Credentials:

Username : aka

Password : \$(kubectl get secret --namespace rabbitmq-cluster rabbitmq-rabbitmq-ha -o jsonpath="{.data.rabbitmq-password}" | base64 --decode)

Management username : management

Management password : \$(kubectl get secret --namespace rabbitmq-cluster rabbitmq-rabbitmq-ha -o jsonpath="{.data.rabbitmq-management-password}" | base64 --decode)

ErLang Cookie : \$(kubectl get secret --namespace rabbitmq-cluster rabbitmq-rabbitmq-ha -o jsonpath="{.data.rabbitmq-erlang-cookie}" | base64 --decode)

RabbitMQ can be accessed within the cluster on port 5672 at rabbitmq-rabbitmq-ha.rabbitmq-cluster.svc.cluster.local

To access the cluster externally execute the following commands:

export POD_NAME=\$(kubectl get pods --namespace rabbitmq-cluster -l "app=rabbitmq-ha" -o jsonpath="{.items[0].metadata.name}")

kubectl port-forward \$POD_NAME --namespace rabbitmq-cluster 5672:5672 15672:15672

To Access the RabbitMQ AMQP port:

amqp://127.0.0.1:5672/

To Access the RabbitMQ Management interface:

URL : http://127.0.0.1:15672