



链滴

ZK-K8s 部署

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原文链接: <https://ld246.com/article/1551262591888>

来源网站: [链滴](#)

许可协议: [署名-相同方式共享 4.0 国际 \(CC BY-SA 4.0\)](#)

<p>一、基础环境

Servers: 10.9.9.68/69/70</p>

```
<pre><code class="highlight-chroma"><span class="highlight-line"><span class="highlight-cl"> 集群: Kubernetes
```

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</span></span><span class="highlight-line"><span class="highlight-cl">
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```
</span></span><span class="highlight-line"><span class="highlight-cl"> docker镜像:
```

```
ttp://10.65.4.2:8111/packages/kafka-k8s/zookeeper/zookeeper-3.4.10.img
```

```
</span></span></code></pre>
```

<p>二、环境部署

2.1 构建镜像

Dockerfile 【http://10.65.4.2/packages/kafka-k8s/zookeeper/Doc erfile】</p>

<p>start.sh 【http://10.65.4.2/packages/kafka-k8s/zookeeper/star .sh】</p>

<p>start.sh 【http://10.65.4.2/packages/kafka-k8s/zookeeper/sta us.sh】</p>

<p>FROM centos

COPY zookeeper-3.4.10 /opt/zookeeper-3.4.10

COPY start.sh /

COPY status.sh /

RUN mkdir /var/log/zookeeper

RUN yum -y install java nmap-ncat

RUN ln -s /opt/zookeeper-3.4.10 /opt/zookeeper

RUN useradd zookeeper && chown -R zookeeper. /opt/zookeeper-3.4.10 /opt/zoo eeper /sta* /var/log/zookeeper

2.2 Servieless-ZK-HS

zookeeper-svc-hs.yaml 【http://10.65.4.2/packages/kafka-k8s/zoo eeper/zookeeper-svc-hs.yaml】注：ZK 节点集群通信</p>

<p>apiVersion: v1

kind: Service

metadata:

name: zookeeper-hs

namespace: dolphin-dev

labels:

app: zookeeper

spec:

ports:</p>

port: 2888

name: server

port: 3888

name: leader-election

clusterIP: None

selector:

app: zookeeper

2.3 Servieless-ZK-CS

zookeeper-svc-cs.yaml 【http://10.65.4.2/packages/kafka-k8s/zoo eeper/zookeeper-svc-cs.yaml】注：ZK 集群连接服务，kafka-->


```

<p>apiVersion: v1 <br>
kind: Service<br>
metadata:<br>
name: zookeeper-cs<br>
namespace: dolphin-dev<br>
labels:<br>
app: zookeeper<br>
spec:<br>
ports:</p>
<ul>
<li>port: 2181<br>
name: client<br>
clusterIP: None<br>
selector:<br>
app: zookeeper<br>
2.4 PodDisruptionBudget<br>
zookeeper-pdb.yaml 【<a href="https://ld246.com/forward?goto=http%3A%2F%2F10.65.4.2%3A8111" target="_blank" rel="nofollow ugc">http://10.65.4.2</a>/packages/kafka-k8s/zookeeper/zookeeper-pdb.yaml】 注：ZK 集群连接服务， kafka--&gt;args</li>
</ul>
<p>apiVersion: policy/v1beta1<br>
kind: PodDisruptionBudget<br>
metadata:<br>
name: zookeeper-pdb<br>
namespace: dolphin-dev<br>
spec:<br>
selector:<br>
matchLabels:<br>
app: zookeeper<br>
maxUnavailable: 1<br>
2.4 StatefulSet<br>
zookeeper-sft.yaml 【<a href="https://ld246.com/forward?goto=http%3A%2F%2F10.65.4.2%3A8111" target="_blank" rel="nofollow ugc">http://10.65.4.2</a>/packages/kafka-k8s/zookeeper/zookeeper-sft.yaml】 </p>
<p>注：ZK 单点：【replicas: 1】 / 【args: --servers=1】 </p>
<p>apiVersion: apps/v1beta1<br>
kind: StatefulSet<br>
metadata:<br>
name: zookeeper<br>
namespace: dolphin-dev<br>
spec:<br>
serviceName: zookeeper-hs<br>
replicas: 2<br>
updateStrategy:<br>
type: RollingUpdate<br>
podManagementPolicy: Parallel<br>
updateStrategy:<br>
type: RollingUpdate<br>
template:<br>
metadata:<br>
labels:<br>
app: zookeeper<br>
spec:<br>
affinity:<br>

```

```
podAntiAffinity:<br>
requiredDuringSchedulingIgnoredDuringExecution:<br>
- labelSelector:<br>
matchExpressions:<br>
- key: "app"<br>
operator: In<br>
values:<br>
- zookeeper<br>
topologyKey: "kubernetes.io/hostname"<br>
containers:<br>
- name: kubernetes-zookeeper<br>
imagePullPolicy: IfNotPresent<br>
image: "10.65.4.2:5000/zookeeper_3.4.10:20190122"<br>
resources:<br>
requests:<br>
memory: "1Gi"<br>
cpu: "0.5"<br>
ports:<br>
- containerPort: 2181<br>
name: client<br>
- containerPort: 2888<br>
name: server<br>
- containerPort: 3888<br>
name: leader-election<br>
command:<br>
- sh<br>
- -c<br>
- "/start.sh <br>
--servers=2 <br>
--data_dir=/var/lib/zookeeper/data <br>
--data_log_dir=/var/lib/zookeeper/data/log <br>
--conf_dir=/opt/zookeeper/conf <br>
--client_port=2181 <br>
--election_port=3888 <br>
--server_port=2888 <br>
--tick_time=2000 <br>
--init_limit=10 <br>
--sync_limit=5 <br>
--heap=512M <br>
--max_client_cnxns=60 <br>
--snap_retain_count=3 <br>
--purge_interval=12 <br>
--max_session_timeout=40000 <br>
--min_session_timeout=4000 <br>
--log_level=INFO"<br>
readinessProbe:<br>
exec:<br>
command:<br>
- sh<br>
- -c<br>
- "/status.sh 2181"<br>
initialDelaySeconds: 10<br>
timeoutSeconds: 5<br>
livenessProbe:<br>
```

```
exec:<br>
command:<br>
- sh<br>
- -c<br>
- "/status.sh 2181"<br>
initialDelaySeconds: 10<br>
timeoutSeconds: 5<br>
volumeMounts:<br>
- name: zookeeper<br>
mountPath: /var/lib/zookeeper<br>
securityContext:<br>
runAsUser: 1000<br>
fsGroup: 1000<br>
volumeClaimTemplates:</p>
<ul>
<li>metadata:<br>
name: zookeeper<br>
namespace: dolphin-dev<br>
annotations:<br>
volume.beta.kubernetes.io/storage-class: "nfs-recycle-local"<br>
spec:<br>
accessModes: [ "ReadWriteOnce" ]<br>
resources:<br>
requests:<br>
storage: 10Gi</li>
</ul>
```