

KunlunBase集群部署方式介绍

Winter Zhang

泽拓科技(深圳)有限责任公司





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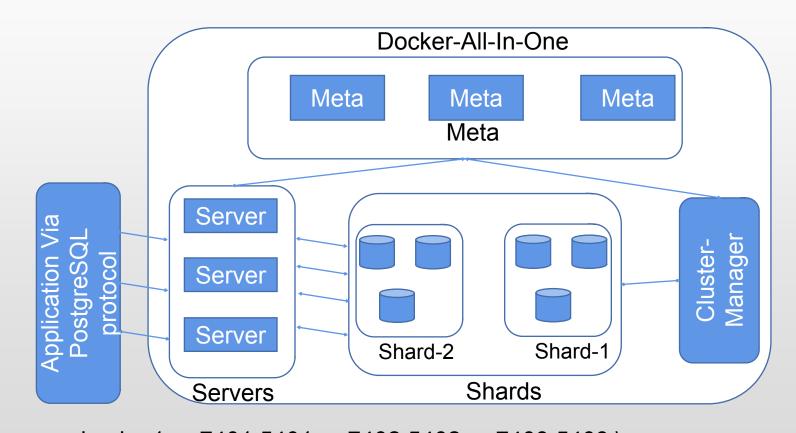
极速部署模式 - Docker多合一镜像



• 镜像地址: registry.cn-hangzhou.aliyuncs.com/kunlundb/kunlun:0.9.1

特点:

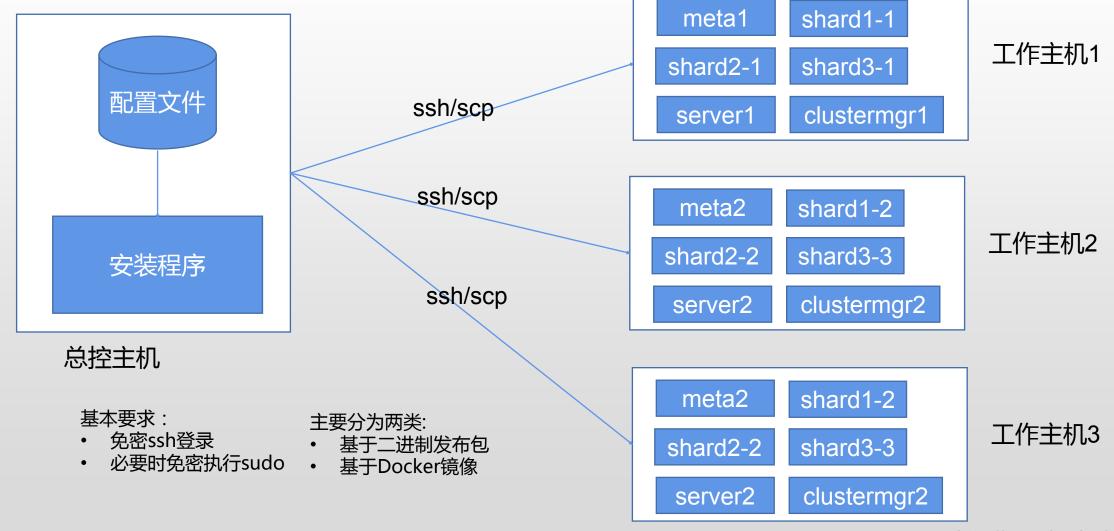
- 所有节点都部署在一个容器里
- 方便体验功能
- 熟悉集群结构
- 不适合规模化业务使用
- 0.8开始提供基于mgr的版本
- 0.9.2开始提供基于fullsync的版本



sudo docker run --privileged --name kunlun1 -p 7401:5401 -p 7402:5402 -p 7403:5403 \
-itd registry.cn-hangzhou.aliyuncs.com/kunlundb/kunlun:0.9.1 \
bash -c 'bash /kunlun/start_kunlun.sh'

传统的多机部署模式 - 一键部署脚本







传统的多机部署模式 - 一键部署脚本

配置文件举例 - 二进制版

```
machine_node:
{
    "ip":"192.168.0.110",
    "basedir":"/kunlun",
    "user":"kunlun"
},
```

```
haproxy_node:
```

```
"ip":"192.168.0.100",
"port": 15401
```

Storage_node:

comp_node:

```
"id":1,
    "name":"comp1",
    "ip":"192.168.0.110",
    "port":5401,
    "user":"dbuser",
    "password":"AxudFK1#",
    "datadir":"/pgdatadir"
},
```

clustermgr_node:

```
{
"ip": "192.168.0.143",
"brpc_raft_port": 35002
},
```





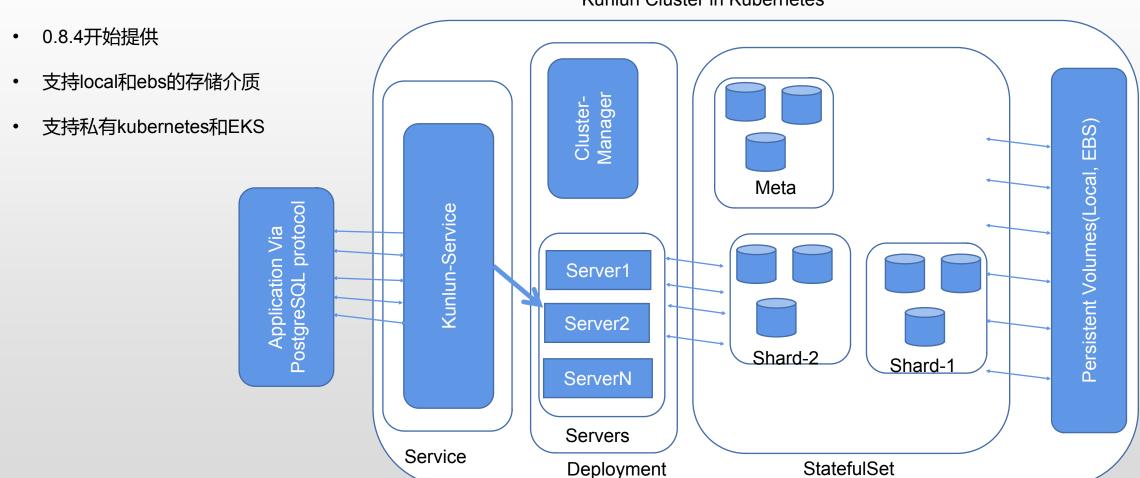
配置文件举例 - Docker版

```
network klnet
machines :
   { "ip":"192.168.0.110", "basedir":"/kunlun", "user":"kunlun"},
   { "ip":"192.168.0.111", "user":"kunlun"}
1,
cluster {
    namespace u2004cdemgr .
    "images : {
           "kunlun-storage": "192.168.0.104:15000/kunlun-storage",
           "kunlun-server": "192.168.0.104:15000/kunlun-server",
           "kunlun-cluster-manager": "192.168.0.104:15000/kunlun-cluster-manager"},
   meta {
       "nodes":[
           { "is primary":true, "ip":"192.168.0.110" },
           { "is_primary":false, "ip":"192.168.0.111"},
           { "is_primary :false, "ip": 192.168.0.100" }] },
    COMP {
       "nodes": [
           { "ip":"192.168.0.110", "port":5401, "user": "kunlun", "password": "Tx1Df2Mn#"},
           { "ip": "192.168.0.111", "port": 5401, "user": "kunlun", "password": "Tx1Df2Mn#" },
           { "ip": "192.168.0.100", "port 5401, "user": "kunlun", "password": "Tx1Df2Mn#"
           }1}.
    "data" [
       { nodes [
               { "is primary":true, "ip":"192.168.0.110", "innodb buffer pool size":"536870912" },
               { "is primary false "ip" 192.168.0.111" innodb buffer pool size 536870912 },
               { 'is primary :false, 'ip': '192.168.0.100' }]},
       { nodes [
               { "is primary":true, "ip": 192.168.0.111" },
               { "is primary":false, "ip":"192.168.0.110", "innodb buffer pool size":"536870912"},
               {"is primary":false, "ip":"192.168.0.100"} ]}],
    "clustermgr":{ "nodes": { "ip":"192.168.0.110" }}
```

一键部署 - Kubernetes版



Kunlun Cluster in Kubernetes







Kubernetes 部署的配置文件

```
"cluster": {
 name kunlun1 ,
 "comp_user" dbuser ,
 "comp password": "Tx1Df2Mn#",
 shards 2
 metaNodeSizeGB 10.
 "shardNodeSizeGB" 30,
 comps 2
 "storage image url":
   "registry.cn-hangzhou.aliyuncs.com/kunlundb/kunlun-storage:latest",
 comp image url :
   "registry.cn-hangzhou.aliyuncs.com/kunlundb/kunlun-server:latest",
 "clustermgr image url":
   "registry.cn-hangzhou.aliyuncs.com/kunlundb/kunlun-cluster-manager:latest"
```





• 使用二进制发布包一键部署集群

```
kunlun@kunlun-test2:~/kunlun_scripts/cluster$ python generate_scripts.py --config=install.json --action=install
['generate_scripts.py', '--config=install.json', '--action=install']
kunlun@kunlun-test2:~/kunlun_scripts/cluster$ bash -e install/commands.sh
```

• 使用Docker镜像一键部署集群:

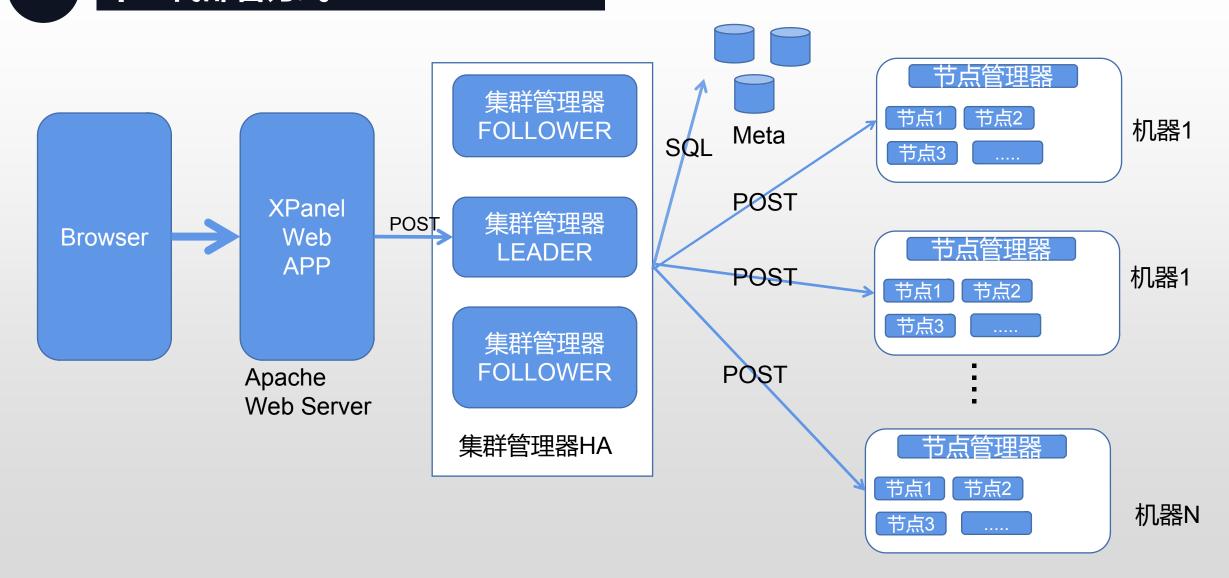
```
kunlun@kunlun-test2:~/kunlun_scripts/cluster_docker$ python generate_scripts.py --config=install_docker.json --action=install ['generate_scripts.py', '--config=install_docker.json', '--action=install']
kunlun@kunlun-test2:~/kunlun_scripts/cluster_docker$ bash -e install.sh
```

• 在Kubernetes中一键部署集群:

```
kunlun@kunlun-test2:~/kubernetes_scripts$ python generate_scripts.py --kunlun_cluster_config=awsreq2.json \
> --gentype=ebs-auto --namespace kunlun_aws
kunlun@kunlun-test2:~/kubernetes_scripts$ bash -e build_cluster.sh
```

下一代部署方式 - XPanel



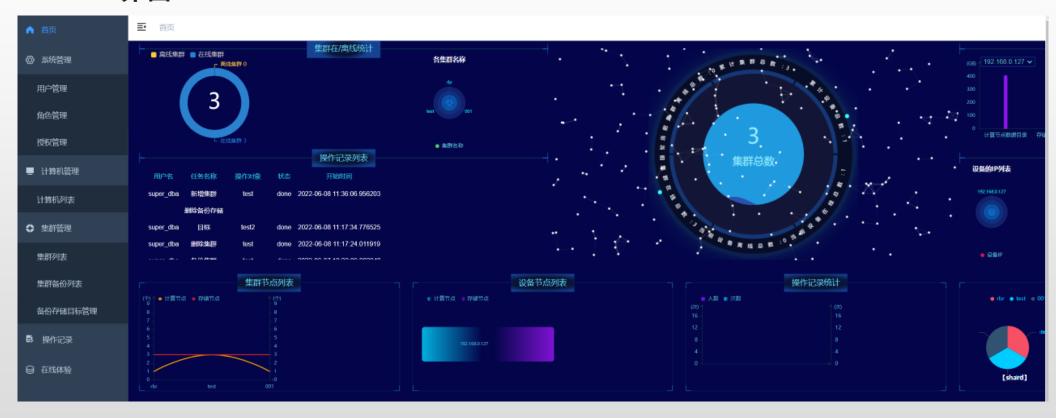




下一代部署方式 - XPanel



XPanel界面



使用说明: http://www.kunlunbase.com:8181/docs/kunlundb/kunlundb-1do3t6c8bbrv8





XPanel部署步骤

- 使用初始化脚本setup_cluster_manager.py设置所有工作机器
- 在Apache Web Server中部署XPanel Web APP
- 设置XPanel Web APP的集群管理器地址组
- 启动XPanel Web APP



Thank you

Q & A