

实践练习三

- 安装obd

```
1 cd /etc/yum.repos.d/ && wget https://mirrors.aliyun.com/oceanbase/OceanBase.repo
```

```
[root@ocp1 yum.repos.d]# dnf install ob-deploy -y
Last metadata expiration check: 0:00:15 ago on Sun 17 Mar 2024 05:33:05 PM CST.
Dependencies resolved.
=====
Package                               Architecture      Version           Repository
=====
Installing:
ob-deploy                               x86_64            2.6.2-2.el8      oceanbase.community.stable
=====
Transaction Summary
=====
Install 1 Package

Total download size: 62 M
Installed size: 146 M
Downloading Packages:
ob-deploy-2.6.2-2.el8.x86_64.rpm      60% [
```

- 配置文件 `cp /usr/obd/example/mini-distributed-with-obproxy-example.yaml mini-cluster.yaml`

```
1 [admin@ocp1 ~]$ vi mini-cluster.yaml
2 ## Only need to configure when remote login is required
3 user:
4     username: root
5     password: ppp
6 #   key_file: your ssh-key file path if need
7 #   port: your ssh port, default 22
8 #   timeout: ssh connection timeout (second), default 30
9 oceanbase-ce:
10  servers:
11    - name: server1
12      # Please don't use hostname, only IP can be supported
13      ip: 192.168.58.4
14    - name: server2
15      ip: 192.168.58.5
16    - name: server3
17      ip: 192.168.58.6
18  global:
19    # Starting from observer version 4.2, the network selection for the observer is
20    # based on the 'local_ip' parameter, and the 'devname' parameter is no longer
21    # mandatory.
22    # If the 'local_ip' parameter is set, the observer will first use this parameter
23    # for the configuration, regardless of the 'devname' parameter.
24    # If only the 'devname' parameter is set, the observer will use the 'devname'
25    # parameter for the configuration.
26    # If neither the 'devname' nor the 'local_ip' parameters are set, the 'local_ip'
27    # parameter will be automatically assigned the IP address configured above.
28    devname: enp0s8
29    cluster_id: 1
30    # please set memory limit to a suitable value which is matching resource.
31    memory_limit: 6G # The maximum running memory for an observer
32    system_memory: 1G # The reserved system memory. system_memory is reserved for
33    # general tenants. The default value is 30G.
34    datafile_size: 2G # Size of the data file.
35    datafile_next: 2G # the auto extend step. Please enter an capacity, such as 2G
```

```
30     datafile_maxsize: 20G # the auto extend max size. Please enter an capacity, such
as 20G
31     log_disk_size: 14G # The size of disk space used by the clog files.
32     cpu_count: 16
33     production_mode: false
34     enable_syslog_wf: false # Print system logs whose levels are higher than WARNING
to a separate log file. The default value is true.
35     enable_syslog_recycle: true # Enable auto system log recycling or not. The
default value is false.
36     max_syslog_file_count: 4 # The maximum number of reserved log files before
enabling auto recycling. The default value is 0.
37     # observer cluster name, consistent with obproxy's cluster_name
38     appname: obcluster
39     # root_password: # root user password, can be empty
40     # proxyro_password: # proxyro user pasword, consistent with obproxy's
observer_sys_password, can be empty
41     server1:
42         mysql_port: 2881 # External port for OceanBase Database. The default value is
2881. DO NOT change this value after the cluster is started.
43         rpc_port: 2882 # Internal port for OceanBase Database. The default value is 2882.
DO NOT change this value after the cluster is started.
44         # The working directory for OceanBase Database. OceanBase Database is started
under this directory. This is a required field.
45         home_path: /root/observer
46         # The directory for data storage. The default value is $home_path/store.
47         # data_dir: /data
48         # The directory for clog, ilog, and slog. The default value is the same as the
data_dir value.
49         # redo_dir: /redo
50         zone: zone1
51     server2:
52         mysql_port: 2881 # External port for OceanBase Database. The default value is
2881. DO NOT change this value after the cluster is started.
53         rpc_port: 2882 # Internal port for OceanBase Database. The default value is 2882.
DO NOT change this value after the cluster is started.
54         # The working directory for OceanBase Database. OceanBase Database is started
under this directory. This is a required field.
55         home_path: /root/observer
56         # The directory for data storage. The default value is $home_path/store.
57         # data_dir: /data
58         # The directory for clog, ilog, and slog. The default value is the same as the
data_dir value.
59         # redo_dir: /redo
60         zone: zone2
61     server3:
62         mysql_port: 2881 # External port for OceanBase Database. The default value is
2881. DO NOT change this value after the cluster is started.
63         rpc_port: 2882 # Internal port for OceanBase Database. The default value is 2882.
DO NOT change this value after the cluster is started.
64         # The working directory for OceanBase Database. OceanBase Database is started
under this directory. This is a required field.
65         home_path: /root/observer
66         # The directory for data storage. The default value is $home_path/store.
```

```
67     # data_dir: /data
68     # The directory for clog, ilog, and slog. The default value is the same as the
data_dir value.
69     # redo_dir: /redo
70     zone: zone3
71 obproxy-ce:
72     # Set dependent components for the component.
73     # When the associated configurations are not done, OBD will automatically get the
these configurations from the dependent components.
74     depends:
75     - oceanbase-ce
76     servers:
77     - 192.168.58.5
78     global:
79     listen_port: 2883 # External port. The default value is 2883.
80     prometheus_listen_port: 2884 # The Prometheus port. The default value is 2884.
81     home_path: /root/obproxy
82     # oceanbase root server list
83     # format: ip:mysql_port;ip:mysql_port. When a depends exists, OBD gets this value
from the oceanbase-ce of the depends.
84     rs_list: 192.168.58.4:2881;192.168.58.5:2881;192.168.58.6:2881
85     enable_cluster_checkout: false
86     # observer cluster name, consistent with oceanbase-ce's appname. When a depends
exists, OBD gets this value from the oceanbase-ce of the depends.
87     # cluster_name: obcluster
88     skip_proxy_sys_private_check: true
89     enable_strict_kernel_release: false
90     # obproxy_sys_password: # obproxy sys user password, can be empty. When a depends
exists, OBD gets this value from the oceanbase-ce of the depends.
91     # observer_sys_password: # proxyro user password, consistent with oceanbase-ce's
proxyro_password, can be empty. When a depends exists, OBD gets this value from the
oceanbase-ce of the depends.
```

- 部署配置

```
1 obd cluster deploy mini-cluster -c mini-cluster.yaml
```

```

[admin@ocp1 ~]$ obd cluster deploy mini-cluster -c mini-cluster.yaml
-----+-----+-----+-----+-----+-----+-----+-----+-----+-----+
|                                     Packages                                     |
+-----+-----+-----+-----+-----+-----+-----+-----+-----+-----+
| Repository | Version | Release | Md5 |
+-----+-----+-----+-----+-----+-----+-----+-----+-----+
| oceanbase-ce | 4.2.2.1 | 101000012024030709.el8 | 56bbb08ad77b647cc5b2a22873237849c294bc97 |
| obproxy-ce | 4.2.3.0 | 3.el8 | 2526073e3c652177b15093be611af94a469e0e21 |
+-----+-----+-----+-----+-----+-----+-----+-----+-----+
Repository integrity check ok
Parameter check ok
Cluster status check ok
Initializes observer work home ok
Initializes obproxy work home ok
Remote oceanbase-ce-4.2.2.1-101000012024030709.el8-56bbb08ad77b647cc5b2a22873237849c294bc97 repository install ok
Remote oceanbase-ce-4.2.2.1-101000012024030709.el8-56bbb08ad77b647cc5b2a22873237849c294bc97 repository lib check !!
Remote obproxy-ce-4.2.3.0-3.el8-2526073e3c652177b15093be611af94a469e0e21 repository install ok
Remote obproxy-ce-4.2.3.0-3.el8-2526073e3c652177b15093be611af94a469e0e21 repository lib check ok
Try to get lib-repository
Download oceanbase-ce-libs-4.2.2.1-101000012024030709.el8.x86_64.rpm (159.36 K): 100% [#####]
Package oceanbase-ce-libs-4.2.2.1-101000012024030709.el8 is available.
install oceanbase-ce-libs-4.2.2.1 for local ok
Remote oceanbase-ce-libs-4.2.2.1-101000012024030709.el8-20de8cf9acbbab237448d434ccd9f4c2cb6dc1ac repository install ok
Remote oceanbase-ce-4.2.2.1-101000012024030709.el8-56bbb08ad77b647cc5b2a22873237849c294bc97 repository lib check ok
mini-cluster deployed
Please execute `obd cluster start mini-cluster` to start
Trace ID: 5b540d78-e446-11ee-aef3-080027b4837f
If you want to view detailed obd logs, please run: obd display-trace 5b540d78-e446-11ee-aef3-080027b4837f
[admin@ocp1 ~]$ obd cluster start mini-cluster

```

- 启动集群

```

1 obd cluster start mini-cluster

```

```

[ERROR] OBD-1007: (192.168.58.4) The value of the ulimit parameter "open files" must not be less than 20000 (Current value: 1024), Please execute `echo -e "* soft nofile 20000\n* hard nofile 20000" >> /etc/security/limits.d/nofile.conf` as root in 192.168.58.4, if it doesn't work, please check whether UsePAM is yes in /etc/ssh/ssh_config.
[ERROR] OBD-1007: (192.168.58.4) The value of the ulimit parameter "max user processes" must not be less than 120000 (Current value: 63871), Please execute `echo -e "* soft nproc 120000\n* hard nproc 120000" >> /etc/security/limits.d/nproc.conf` as root in 192.168.58.4, if it doesn't work, please check whether UsePAM is yes in /etc/ssh/ssh_config.

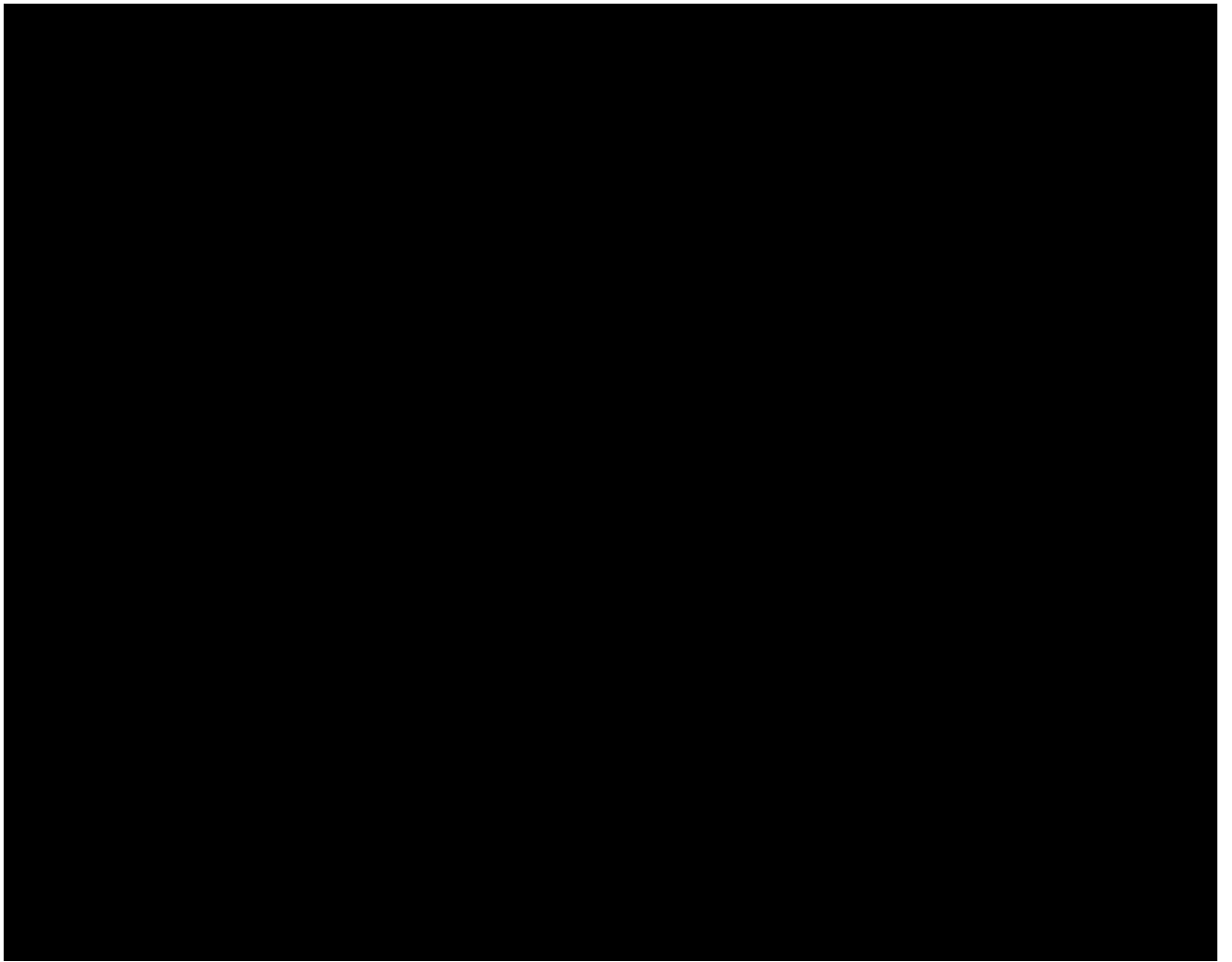
```

```

1 echo -e "* soft nofile 20000\n* hard nofile 20000" >>
  /etc/security/limits.d/nofile.conf
2 echo -e "* soft nproc 120000\n* hard nproc 120000" >>
  /etc/security/limits.d/nproc.conf

```

- 集群启动成功



```

Check before start obproxy ok
Start observer ok
observer program health check ok
Connect to observer 192.168.58.4:2881 ok
Initialize oceanbase-ce ok
Start obproxy ok
obproxy program health check ok
Connect to obproxy ok
Initialize obproxy-ce ok
Wait for observer init ok
+-----+
|                observer                |
+-----+-----+-----+-----+-----+
| ip          | version | port | zone  | status |
+-----+-----+-----+-----+-----+
| 192.168.58.4 | 4.2.2.1 | 2881 | zone1 | ACTIVE |
| 192.168.58.5 | 4.2.2.1 | 2881 | zone2 | ACTIVE |
| 192.168.58.6 | 4.2.2.1 | 2881 | zone3 | ACTIVE |
+-----+-----+-----+-----+-----+
obclient -h192.168.58.4 -P2881 -uroot -p'b9TvYoq3I6bY47tjSuJT' -Doceanbase -A

+-----+
|                obproxy                |
+-----+-----+-----+-----+-----+
| ip          | port | prometheus_port | status |
+-----+-----+-----+-----+-----+
| 192.168.58.5 | 2883 | 2884              | active |
+-----+-----+-----+-----+-----+
obclient -h192.168.58.5 -P2883 -uroot -p'b9TvYoq3I6bY47tjSuJT' -Doceanbase -A

mini-cluster running
Trace ID: d413d93a-e448-11ee-8562-080027b4837f
If you want to view detailed obd logs, please run: obd display-trace d413d93a-
[admin@ocp1 ~]$ |

```

- 安装agent

```

[admin@ocp1 example]$ obd cluster edit-config mini-cluster
Search param plugin and load ok
Modifications to the deployment architecture take effect after you redeploy the architecture. Are you sure that you want to start a redeployment? [y/n]: y
Search param plugin and load ok
Package obagent-4.2.2-100000042024011120.e18 is available.

Parameter check ok
Save deploy "mini-cluster" configuration
Use `obd cluster redeploy mini-cluster` to make changes take effect.
Trace ID: 1b37e21a-e44a-11ee-93dc-080027b4837f
If you want to view detailed obd logs, please run: obd display-trace 1b37e21a-e44a-11ee-93dc-080027b4837f
[admin@ocp1 example]$

```

```
1  obagent:
2    depends:
3      - oceanbase-ce
4    servers:
5      - name: server1
6        # Please don't use hostname, only IP can be supported
7        ip: 192.168.58.4
8      - name: server2
9        ip: 192.168.58.5
10     - name: server3
11       ip: 192.168.58.6
12   global:
13     home_path: /root/obagent
```

- 重新部署

