docker快速部署OceanBase单机 (ID 8370)

罗海鸥2024-01-24 23:50:40

记录一下docker快速部署OceanBase单机过程

操作系统环境：

[root@obtest1 ~]# cat /etc/redhat-release

CentOS Linux release 7.6.1810 (Core)

[root@obtest1 ~]#

[root@obtest1 ~]# df -h

Filesystem Size Used Avail Use% Mounted on

/dev/mapper/centos-root 95G 11G 85G 11% /

devtmpfs 7.9G 0 7.9G 0% /dev

tmpfs 7.9G 0 7.9G 0% /dev/shm

tmpfs 7.9G 9.4M 7.9G 1% /run

tmpfs 7.9G 0 7.9G 0% /sys/fs/cgroup

/dev/sda1 1014M 166M 849M 17% /boot

tmpfs 1.6G 0 1.6G 0% /run/user/0

[root@obtest1 ~]# free -g

 total used free shared buff/cache available

Mem: 15 0 14 0 0 12

Swap: 0 0 0

[root@obtest1 ~]#

列出可用的docker软件包

[admin@obtest1 ~]$ yum list docker --showduplicates | sort -r

 \* updates: mirrors.bupt.edu.cn

Loaded plugins: fastestmirror, langpacks

 \* extras: mirrors.bupt.edu.cn

docker.x86\_64 2:1.13.1-209.git7d71120.el7.centos extras

docker.x86\_64 2:1.13.1-208.git7d71120.el7\_9 extras

docker.x86\_64 2:1.13.1-206.git7d71120.el7\_9 extras

docker.x86\_64 2:1.13.1-205.git7d71120.el7.centos extras

docker.x86\_64 2:1.13.1-204.git0be3e21.el7 extras

docker.x86\_64 2:1.13.1-203.git0be3e21.el7.centos extras

docker.x86\_64 2:1.13.1-162.git64e9980.el7.centos extras

docker.x86\_64 2:1.13.1-161.git64e9980.el7\_8 extras

docker.x86\_64 2:1.13.1-109.gitcccb291.el7.centos extras

docker.x86\_64 2:1.13.1-108.git4ef4b30.el7.centos extras

docker.x86\_64 2:1.13.1-103.git7f2769b.el7.centos extras

docker.x86\_64 2:1.13.1-102.git7f2769b.el7.centos extras

Determining fastest mirrors

 \* base: mirrors.bupt.edu.cn

Available Packages

安装docker

[root@obtest1 ~]# yum -y install docker

Loaded plugins: fastestmirror, langpacks

Loading mirror speeds from cached hostfile

 \* base: mirrors.163.com

 \* extras: mirrors.163.com

 \* updates: mirrors.163.com

Resolving Dependencies

--> Running transaction check

---> Package docker.x86\_64 2:1.13.1-209.git7d71120.el7.centos will be installed

--> Processing Dependency: docker-common = 2:1.13.1-209.git7d71120.el7.centos for package: 2:docker-1.13.1-209.git7d71120.el7.centos.x86\_64

--> Processing Dependency: docker-client = 2:1.13.1-209.git7d71120.el7.centos for package: 2:docker-1.13.1-209.git7d71120.el7.centos.x86\_64

--> Processing Dependency: subscription-manager-rhsm-certificates for package: 2:docker-1.13.1-209.git7d71120.el7.centos.x86\_64

--> Running transaction check

---> Package docker-client.x86\_64 2:1.13.1-209.git7d71120.el7.centos will be installed

---> Package docker-common.x86\_64 2:1.13.1-209.git7d71120.el7.centos will be installed

--> Processing Dependency: skopeo-containers >= 1:0.1.26-2 for package: 2:docker-common-1.13.1-209.git7d71120.el7.centos.x86\_64

--> Processing Dependency: oci-umount >= 2:2.3.3-3 for package: 2:docker-common-1.13.1-209.git7d71120.el7.centos.x86\_64

--> Processing Dependency: oci-systemd-hook >= 1:0.1.4-9 for package: 2:docker-common-1.13.1-209.git7d71120.el7.centos.x86\_64

--> Processing Dependency: oci-register-machine >= 1:0-5.13 for package: 2:docker-common-1.13.1-209.git7d71120.el7.centos.x86\_64

--> Processing Dependency: container-storage-setup >= 0.9.0-1 for package: 2:docker-common-1.13.1-209.git7d71120.el7.centos.x86\_64

--> Processing Dependency: container-selinux >= 2:2.51-1 for package: 2:docker-common-1.13.1-209.git7d71120.el7.centos.x86\_64

--> Processing Dependency: atomic-registries for package: 2:docker-common-1.13.1-209.git7d71120.el7.centos.x86\_64

---> Package subscription-manager-rhsm-certificates.x86\_64 0:1.24.53-1.el7.centos will be installed

--> Running transaction check

---> Package atomic-registries.x86\_64 1:1.22.1-33.gitb507039.el7\_8 will be installed

--> Processing Dependency: python-pytoml for package: 1:atomic-registries-1.22.1-33.gitb507039.el7\_8.x86\_64

---> Package container-selinux.noarch 2:2.119.2-1.911c772.el7\_8 will be installed

---> Package container-storage-setup.noarch 0:0.11.0-2.git5eaf76c.el7 will be installed

---> Package containers-common.x86\_64 1:0.1.40-11.el7\_8 will be installed

--> Processing Dependency: subscription-manager for package: 1:containers-common-0.1.40-11.el7\_8.x86\_64

--> Processing Dependency: slirp4netns for package: 1:containers-common-0.1.40-11.el7\_8.x86\_64

--> Processing Dependency: fuse-overlayfs for package: 1:containers-common-0.1.40-11.el7\_8.x86\_64

---> Package oci-register-machine.x86\_64 1:0-6.git2b44233.el7 will be installed

---> Package oci-systemd-hook.x86\_64 1:0.2.0-1.git05e6923.el7\_6 will be installed

---> Package oci-umount.x86\_64 2:2.5-3.el7 will be installed

--> Running transaction check

---> Package fuse-overlayfs.x86\_64 0:0.7.2-6.el7\_8 will be installed

--> Processing Dependency: libfuse3.so.3(FUSE\_3.2)(64bit) for package: fuse-overlayfs-0.7.2-6.el7\_8.x86\_64

--> Processing Dependency: libfuse3.so.3(FUSE\_3.0)(64bit) for package: fuse-overlayfs-0.7.2-6.el7\_8.x86\_64

--> Processing Dependency: libfuse3.so.3()(64bit) for package: fuse-overlayfs-0.7.2-6.el7\_8.x86\_64

---> Package python-pytoml.noarch 0:0.1.14-1.git7dea353.el7 will be installed

---> Package slirp4netns.x86\_64 0:0.4.3-4.el7\_8 will be installed

---> Package subscription-manager.x86\_64 0:1.24.53-1.el7.centos will be installed

--> Processing Dependency: subscription-manager-rhsm = 1.24.53 for package: subscription-manager-1.24.53-1.el7.centos.x86\_64

--> Processing Dependency: python-dmidecode >= 3.12.2-2 for package: subscription-manager-1.24.53-1.el7.centos.x86\_64

--> Processing Dependency: python-syspurpose for package: subscription-manager-1.24.53-1.el7.centos.x86\_64

--> Running transaction check

---> Package fuse3-libs.x86\_64 0:3.6.1-4.el7 will be installed

---> Package python-dmidecode.x86\_64 0:3.12.2-4.el7 will be installed

---> Package python-syspurpose.x86\_64 0:1.24.53-1.el7.centos will be installed

---> Package subscription-manager-rhsm.x86\_64 0:1.24.53-1.el7.centos will be installed

--> Finished Dependency Resolution

Dependencies Resolved

=====================================================================================================================================================

 Package Arch Version Repository Size

=====================================================================================================================================================

Installing:

 docker x86\_64 2:1.13.1-209.git7d71120.el7.centos extras 17 M

Installing for dependencies:

 atomic-registries x86\_64 1:1.22.1-33.gitb507039.el7\_8 extras 36 k

 container-selinux noarch 2:2.119.2-1.911c772.el7\_8 extras 40 k

 container-storage-setup noarch 0.11.0-2.git5eaf76c.el7 extras 35 k

 containers-common x86\_64 1:0.1.40-11.el7\_8 extras 43 k

 docker-client x86\_64 2:1.13.1-209.git7d71120.el7.centos extras 3.9 M

 docker-common x86\_64 2:1.13.1-209.git7d71120.el7.centos extras 101 k

 fuse-overlayfs x86\_64 0.7.2-6.el7\_8 extras 54 k

 fuse3-libs x86\_64 3.6.1-4.el7 extras 82 k

 oci-register-machine x86\_64 1:0-6.git2b44233.el7 extras 1.1 M

 oci-systemd-hook x86\_64 1:0.2.0-1.git05e6923.el7\_6 extras 34 k

 oci-umount x86\_64 2:2.5-3.el7 extras 33 k

 python-dmidecode x86\_64 3.12.2-4.el7 base 83 k

 python-pytoml noarch 0.1.14-1.git7dea353.el7 extras 18 k

 python-syspurpose x86\_64 1.24.53-1.el7.centos updates 277 k

 slirp4netns x86\_64 0.4.3-4.el7\_8 extras 81 k

 subscription-manager x86\_64 1.24.53-1.el7.centos updates 1.1 M

 subscription-manager-rhsm x86\_64 1.24.53-1.el7.centos updates 336 k

 subscription-manager-rhsm-certificates x86\_64 1.24.53-1.el7.centos updates 239 k

Transaction Summary

=====================================================================================================================================================

Install 1 Package (+18 Dependent packages)

Total size: 25 M

Total download size: 25 M

Installed size: 86 M

Downloading packages:

(1/18): containers-common-0.1.40-11.el7\_8.x86\_64.rpm | 43 kB 00:00:00

(2/18): container-storage-setup-0.11.0-2.git5eaf76c.el7.noarch.rpm | 35 kB 00:00:00

(3/18): atomic-registries-1.22.1-33.gitb507039.el7\_8.x86\_64.rpm | 36 kB 00:00:00

(4/18): fuse-overlayfs-0.7.2-6.el7\_8.x86\_64.rpm | 54 kB 00:00:00

(5/18): fuse3-libs-3.6.1-4.el7.x86\_64.rpm | 82 kB 00:00:00

(6/18): docker-common-1.13.1-209.git7d71120.el7.centos.x86\_64.rpm | 101 kB 00:00:01

(7/18): oci-systemd-hook-0.2.0-1.git05e6923.el7\_6.x86\_64.rpm | 34 kB 00:00:00

(8/18): oci-umount-2.5-3.el7.x86\_64.rpm | 33 kB 00:00:00

(9/18): python-pytoml-0.1.14-1.git7dea353.el7.noarch.rpm | 18 kB 00:00:00

(10/18): oci-register-machine-0-6.git2b44233.el7.x86\_64.rpm | 1.1 MB 00:00:01

(11/18): slirp4netns-0.4.3-4.el7\_8.x86\_64.rpm | 81 kB 00:00:00

(12/18): python-syspurpose-1.24.53-1.el7.centos.x86\_64.rpm | 277 kB 00:00:00

(13/18): subscription-manager-rhsm-1.24.53-1.el7.centos.x86\_64.rpm | 336 kB 00:00:00

(14/18): subscription-manager-1.24.53-1.el7.centos.x86\_64.rpm | 1.1 MB 00:00:00

(15/18): subscription-manager-rhsm-certificates-1.24.53-1.el7.centos.x86\_64.rpm | 239 kB 00:00:00

(16/18): python-dmidecode-3.12.2-4.el7.x86\_64.rpm | 83 kB 00:00:05

(17/18): docker-client-1.13.1-209.git7d71120.el7.centos.x86\_64.rpm | 3.9 MB 00:00:07

(18/18): docker-1.13.1-209.git7d71120.el7.centos.x86\_64.rpm | 17 MB 00:00:13

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Total 1.8 MB/s | 25 MB 00:00:13

Running transaction check

Running transaction test

Transaction test succeeded

Running transaction

 Installing : subscription-manager-rhsm-certificates-1.24.53-1.el7.centos.x86\_64 1/19

 Installing : subscription-manager-rhsm-1.24.53-1.el7.centos.x86\_64 2/19

 Installing : python-syspurpose-1.24.53-1.el7.centos.x86\_64 3/19

 Installing : python-pytoml-0.1.14-1.git7dea353.el7.noarch 4/19

 Installing : 1:atomic-registries-1.22.1-33.gitb507039.el7\_8.x86\_64 5/19

 Installing : slirp4netns-0.4.3-4.el7\_8.x86\_64 6/19

 Installing : container-storage-setup-0.11.0-2.git5eaf76c.el7.noarch 7/19

 Installing : 2:oci-umount-2.5-3.el7.x86\_64 8/19

 Installing : 2:container-selinux-2.119.2-1.911c772.el7\_8.noarch 9/19

setsebool: SELinux is disabled.

 Installing : 1:oci-register-machine-0-6.git2b44233.el7.x86\_64 10/19

 Installing : python-dmidecode-3.12.2-4.el7.x86\_64 11/19

 Installing : subscription-manager-1.24.53-1.el7.centos.x86\_64 12/19

 Installing : 1:oci-systemd-hook-0.2.0-1.git05e6923.el7\_6.x86\_64 13/19

 Installing : fuse3-libs-3.6.1-4.el7.x86\_64 14/19

 Installing : fuse-overlayfs-0.7.2-6.el7\_8.x86\_64 15/19

 Installing : 1:containers-common-0.1.40-11.el7\_8.x86\_64 16/19

 Installing : 2:docker-common-1.13.1-209.git7d71120.el7.centos.x86\_64 17/19

 Installing : 2:docker-client-1.13.1-209.git7d71120.el7.centos.x86\_64 18/19

 Installing : 2:docker-1.13.1-209.git7d71120.el7.centos.x86\_64 19/19

 Verifying : subscription-manager-rhsm-certificates-1.24.53-1.el7.centos.x86\_64 1/19

 Verifying : fuse3-libs-3.6.1-4.el7.x86\_64 2/19

 Verifying : 1:atomic-registries-1.22.1-33.gitb507039.el7\_8.x86\_64 3/19

 Verifying : fuse-overlayfs-0.7.2-6.el7\_8.x86\_64 4/19

 Verifying : 2:docker-common-1.13.1-209.git7d71120.el7.centos.x86\_64 5/19

 Verifying : 1:oci-systemd-hook-0.2.0-1.git05e6923.el7\_6.x86\_64 6/19

 Verifying : python-dmidecode-3.12.2-4.el7.x86\_64 7/19

 Verifying : 1:oci-register-machine-0-6.git2b44233.el7.x86\_64 8/19

 Verifying : 2:container-selinux-2.119.2-1.911c772.el7\_8.noarch 9/19

 Verifying : 2:oci-umount-2.5-3.el7.x86\_64 10/19

 Verifying : container-storage-setup-0.11.0-2.git5eaf76c.el7.noarch 11/19

 Verifying : 2:docker-client-1.13.1-209.git7d71120.el7.centos.x86\_64 12/19

 Verifying : slirp4netns-0.4.3-4.el7\_8.x86\_64 13/19

 Verifying : python-pytoml-0.1.14-1.git7dea353.el7.noarch 14/19

 Verifying : 1:containers-common-0.1.40-11.el7\_8.x86\_64 15/19

 Verifying : 2:docker-1.13.1-209.git7d71120.el7.centos.x86\_64 16/19

 Verifying : python-syspurpose-1.24.53-1.el7.centos.x86\_64 17/19

 Verifying : subscription-manager-1.24.53-1.el7.centos.x86\_64 18/19

 Verifying : subscription-manager-rhsm-1.24.53-1.el7.centos.x86\_64 19/19

Installed:

 docker.x86\_64 2:1.13.1-209.git7d71120.el7.centos

Dependency Installed:

 atomic-registries.x86\_64 1:1.22.1-33.gitb507039.el7\_8 container-selinux.noarch 2:2.119.2-1.911c772.el7\_8

 container-storage-setup.noarch 0:0.11.0-2.git5eaf76c.el7 containers-common.x86\_64 1:0.1.40-11.el7\_8

 docker-client.x86\_64 2:1.13.1-209.git7d71120.el7.centos docker-common.x86\_64 2:1.13.1-209.git7d71120.el7.centos

 fuse-overlayfs.x86\_64 0:0.7.2-6.el7\_8 fuse3-libs.x86\_64 0:3.6.1-4.el7

 oci-register-machine.x86\_64 1:0-6.git2b44233.el7 oci-systemd-hook.x86\_64 1:0.2.0-1.git05e6923.el7\_6

 oci-umount.x86\_64 2:2.5-3.el7 python-dmidecode.x86\_64 0:3.12.2-4.el7

 python-pytoml.noarch 0:0.1.14-1.git7dea353.el7 python-syspurpose.x86\_64 0:1.24.53-1.el7.centos

 slirp4netns.x86\_64 0:0.4.3-4.el7\_8 subscription-manager.x86\_64 0:1.24.53-1.el7.centos

 subscription-manager-rhsm.x86\_64 0:1.24.53-1.el7.centos subscription-manager-rhsm-certificates.x86\_64 0:1.24.53-1.el7.centos

Complete!

启动docker并配置开机启动

[root@obtest1 ~]# systemctl enable docker

Created symlink from /etc/systemd/system/multi-user.target.wants/docker.service to /usr/lib/systemd/system/docker.service.

[root@obtest1 ~]# systemctl start docker

[root@obtest1 ~]# systemctl status docker

● docker.service - Docker Application Container Engine

 Loaded: loaded (/usr/lib/systemd/system/docker.service; enabled; vendor preset: disabled)

 Active: active (running) since Wed 2024-01-24 22:51:04 CST; 3s ago

 Docs: http://docs.docker.com

 Main PID: 7425 (dockerd-current)

 Tasks: 30

 CGroup: /system.slice/docker.service

 ├─7425 /usr/bin/dockerd-current --add-runtime docker-runc=/usr/libexec/docker/docker-runc-current --default-runtime=docker-runc --exec-...

 └─7434 /usr/bin/docker-containerd-current -l unix:///var/run/docker/libcontainerd/docker-containerd.sock --metrics-interval=0 --start-t...

Jan 24 22:51:03 obtest1 dockerd-current[7425]: time="2024-01-24T22:51:03.342593855+08:00" level=warning msg="Docker could not enable SELin... system"

Jan 24 22:51:03 obtest1 dockerd-current[7425]: time="2024-01-24T22:51:03.393397393+08:00" level=info msg="Graph migration to content-addre...seconds"

Jan 24 22:51:03 obtest1 dockerd-current[7425]: time="2024-01-24T22:51:03.394426636+08:00" level=info msg="Loading containers: start."

Jan 24 22:51:03 obtest1 dockerd-current[7425]: time="2024-01-24T22:51:03.543363505+08:00" level=info msg="Firewalld running: false"

Jan 24 22:51:04 obtest1 dockerd-current[7425]: time="2024-01-24T22:51:04.012956196+08:00" level=info msg="Default bridge (docker0) is assi...address"

Jan 24 22:51:04 obtest1 dockerd-current[7425]: time="2024-01-24T22:51:04.224720188+08:00" level=info msg="Loading containers: done."

Jan 24 22:51:04 obtest1 dockerd-current[7425]: time="2024-01-24T22:51:04.259087030+08:00" level=info msg="Daemon has completed initialization"

Jan 24 22:51:04 obtest1 dockerd-current[7425]: time="2024-01-24T22:51:04.259150529+08:00" level=info msg="Docker daemon" commit="7d71120/1...n=1.13.1

Jan 24 22:51:04 obtest1 dockerd-current[7425]: time="2024-01-24T22:51:04.266072081+08:00" level=info msg="API listen on /var/run/docker.sock"

Jan 24 22:51:04 obtest1 systemd[1]: Started Docker Application Container Engine.

Hint: Some lines were ellipsized, use -l to show in full.

[root@obtest1 ~]# docker version

Client:

 Version: 1.13.1

 API version: 1.26

 Package version: docker-1.13.1-209.git7d71120.el7.centos.x86\_64

 Go version: go1.10.3

 Git commit: 7d71120/1.13.1

 Built: Wed Mar 2 15:25:43 2022

 OS/Arch: linux/amd64

Server:

 Version: 1.13.1

 API version: 1.26 (minimum version 1.12)

 Package version: docker-1.13.1-209.git7d71120.el7.centos.x86\_64

 Go version: go1.10.3

 Git commit: 7d71120/1.13.1

 Built: Wed Mar 2 15:25:43 2022

 OS/Arch: linux/amd64

 Experimental: false

[root@obtest1 ~]# docker info

Containers: 0

 Running: 0

 Paused: 0

 Stopped: 0

Images: 0

Server Version: 1.13.1

Storage Driver: overlay2

 Backing Filesystem: xfs

 Supports d\_type: true

 Native Overlay Diff: true

Logging Driver: journald

Cgroup Driver: systemd

Plugins:

 Volume: local

 Network: bridge host macvlan null overlay

Swarm: inactive

Runtimes: docker-runc runc

Default Runtime: docker-runc

Init Binary: /usr/libexec/docker/docker-init-current

containerd version: (expected: aa8187dbd3b7ad67d8e5e3a15115d3eef43a7ed1)

runc version: 8891bca22c049cd2dcf13ba2438c0bac8d7f3343 (expected: 9df8b306d01f59d3a8029be411de015b7304dd8f)

init version: fec3683b971d9c3ef73f284f176672c44b448662 (expected: 949e6facb77383876aeff8a6944dde66b3089574)

Security Options:

 seccomp

 WARNING: You're not using the default seccomp profile

 Profile: /etc/docker/seccomp.json

Kernel Version: 3.10.0-957.el7.x86\_64

Operating System: CentOS Linux 7 (Core)

OSType: linux

Architecture: x86\_64

Number of Docker Hooks: 3

CPUs: 16

Total Memory: 15.67 GiB

Name: obtest1

ID: FKW3:GT6F:UNCY:SFPL:HXWR:LADY:QF6R:ESSQ:YMKF:NEA4:BTRK:X5HX

Docker Root Dir: /var/lib/docker

Debug Mode (client): false

Debug Mode (server): false

Registry: https://index.docker.io/v1/

Experimental: false

Insecure Registries:

 127.0.0.0/8

Live Restore Enabled: false

Registries: docker.io (secure)

[root@obtest1 ~]#

列出oceanbase的docker镜像包

[root@obtest1 ~]# docker search oceanbase

INDEX NAME DESCRIPTION STARS OFFICIAL AUTOMATED

docker.io docker.io/oceanbase/oceanbase-ce OceanBase is an open-source, distributed H... 23

docker.io docker.io/oceanbase/obce-mini obce-mini is a mini standalone test image ... 5

docker.io docker.io/obpilot/oceanbase-ce 3 steps to run an OceanBase-CE docker in y... 4

docker.io docker.io/oceanbase/oceanbase-xe OceanBase Database 2.2 Express Edition 4

docker.io docker.io/oceanbase/miniob miniob database competition 2

docker.io docker.io/oceanbase/obce-operator obce-operator 1

docker.io docker.io/apecloud/oceanbase 0

docker.io docker.io/oceanbase/centos7 0

docker.io docker.io/oceanbase/cert-manager-cainjector 0

docker.io docker.io/oceanbase/cert-manager-webhook 0

docker.io docker.io/oceanbase/kube-rbac-proxy 0

docker.io docker.io/oceanbase/ob-operator 0

docker.io docker.io/oceanbase/obagent 0

docker.io docker.io/oceanbase/obproxy-ce 0

docker.io docker.io/oceanbase/oceanbase-cloud-native 0

docker.io docker.io/oceanbase/ocp-ce OceanBase Cloud Platform (OCP) Community E... 0

docker.io docker.io/oceanbase/odc ODC is an open-source, enterprise-grade da... 0

docker.io docker.io/oceanbasedev/create\_tenant 0

docker.io docker.io/oceanbasedev/ob-operator test repository for [ob-operator](https://... 0

docker.io docker.io/oceanbasedev/obagent 0

docker.io docker.io/oceanbasedev/obproxy 0

docker.io docker.io/oceanbasedev/obproxy-ce 0

docker.io docker.io/oceanbasedev/oceanbase-chart 0

docker.io docker.io/oceanbasedev/oceanbase-cn 0

docker.io docker.io/oceanbasedev/sealer-ob 0

[root@obtest1 ~]#

下载镜像包

[root@obtest1 ~]# docker pull obpilot/oceanbase-ce

Using default tag: latest

Trying to pull repository docker.io/obpilot/oceanbase-ce ...

latest: Pulling from docker.io/obpilot/oceanbase-ce

a1d0c7532777: Pull complete

42e2faadf654: Pull complete

b888a9404e21: Pull complete

426c12926548: Pull complete

a66beb305b92: Pull complete

2d1899456ae1: Pull complete

Digest: sha256:4c2d16106cdc4bd610baf155e43e048d896de4d6bfc777534e75bfa0497bff49

Status: Downloaded newer image for docker.io/obpilot/oceanbase-ce:latest

[root@obtest1 ~]#

[root@obtest1 ~]# docker images

REPOSITORY TAG IMAGE ID CREATED SIZE

docker.io/obpilot/oceanbase-ce latest ed34156dd401 14 months ago 883 MB

[root@obtest1 ~]#

开始运行容器

[root@obtest1 ~]# docker run -itd -m 10G -p 2881:2881 -p 2883:2883 --name oceanbase-ce obpilot/oceanbase-ce:latest

b8d4c4f0b906e70f31c2eed413d82e660812efb80794855f3b4e00243b19c369

[root@obtest1 ~]#

查看容器运行状态

[root@obtest1 ~]# docker ps -a

CONTAINER ID IMAGE COMMAND CREATED STATUS PORTS NAMES

b8d4c4f0b906 obpilot/oceanbase-ce:latest "/bin/bash" 39 seconds ago Up 37 seconds 0.0.0.0:2881->2881/tcp, 3000/tcp, 0.0.0.0:2883->2883/tcp, 9090/tcp oceanbase-ce

[root@obtest1 ~]#

进入容器

[root@obtest1 ~]# docker exec -it oceanbase-ce bash

[admin@b8d4c4f0b906 ~]$ obd cluster list

+------------------------------------------------------------+

| Cluster List |

+--------+---------------------------------+-----------------+

| Name | Configuration Path | Status (Cached) |

+--------+---------------------------------+-----------------+

| demo | /home/admin/.obd/cluster/obdemo | deployed |

+--------+---------------------------------+-----------------+

[admin@b8d4c4f0b906 ~]$

查看容器

[admin@obtest1 ~]$ obd cluster list

+--------------------------------------------------------+

| Cluster List |

+------+-------------------------------+-----------------+

| Name | Configuration Path | Status (Cached) |

+------+-------------------------------+-----------------+

| demo | /home/admin/.obd/cluster/demo | deployed|

+------+-------------------------------+-----------------+

Trace ID: 865a7298-bb4f-11ee-a293-000c29dda879

If you want to view detailed obd logs, please run: obd display-trace 865a7298-bb4f-11ee-a293-000c29dda879

启动容器

[admin@obtest1 ~]$obd cluster start demo

Get local repositories and plugins ok

Open ssh connection ok

Cluster param config check ok

Check before start observer ok

Check before start obproxy ok

Start observer ok

observer program health check ok

Connect to observer ok

Initialize cluster

Cluster bootstrap ok

Wait for observer init ok

+---------------------------------------------+

| observer |

+-----------+---------+------+-------+--------+

| ip | version | port | zone | status |

+-----------+---------+------+-------+--------+

| 127.0.0.1 | 4.2.1.3 | 2881 | zone1 | active |

+-----------+---------+------+-------+--------+

Start obproxy ok

obproxy program health check ok

Connect to obproxy ok

Initialize cluster

+---------------------------------------------+

| obproxy |

+-----------+------+-----------------+--------+

| ip | port | prometheus\\_port | status |

+-----------+------+-----------------+--------+

| 127.0.0.1 | 2883 | 2884 | active |

+-----------+------+-----------------+--------+

obdemo running

查看容器状态

[admin@obtest1 ~]$ obd cluster display demo

Get local repositories and plugins ok

Open ssh connection ok

Cluster status check ok

Connect to observer 127.0.0.1:2881 ok

Wait for observer init ok

+---------------------------------------------+

| observer |

+-----------+---------+------+-------+--------+

| ip | version | port | zone | status |

+-----------+---------+------+-------+--------+

| 127.0.0.1 | 4.2.1.3 | 2881 | zone1 | ACTIVE |

+-----------+---------+------+-------+--------+

obclient -h127.0.0.1 -P2881 -uroot -Doceanbase -A

Connect to Obagent ok

+--------------------------------------------------------------------+

| obagent |

+-----------------+--------------------+--------------------+--------+

| ip | mgragent\_http\_port | monagent\_http\_port | status |

+-----------------+--------------------+--------------------+--------+

| 192.168.109.128 | 8089 | 8088 | active |

+-----------------+--------------------+--------------------+--------+

Connect to obproxy ok

+---------------------------------------------+

| obproxy |

+-----------+------+-----------------+--------+

| ip | port | prometheus\_port | status |

+-----------+------+-----------------+--------+

| 127.0.0.1 | 2883 | 2884 | active |

+-----------+------+-----------------+--------+

obclient -h127.0.0.1 -P2883 -uroot -Doceanbase -A

Connect to Prometheus ok

+--------------------------------------------------------+

| prometheus |

+-----------------------------+------+----------+--------+

| url | user | password | status |

+-----------------------------+------+----------+--------+

| http://192.168.109.128:9090 | | | active |

+-----------------------------+------+----------+--------+

Connect to grafana ok

+-----------------------------------------------------------------------+

| grafana |

+-----------------------------------------+-------+------------+--------+

| url | user | password | status |

+-----------------------------------------+-------+------------+--------+

| http://192.168.109.128:3000/d/oceanbase | admin | FSqXWozEvQ | active |

+-----------------------------------------+-------+------------+--------+

Trace ID: e3eb2b64-bb4f-11ee-b5e6-000c29dda879

If you want to view detailed obd logs, please run: obd display-trace e3eb2b64-bb4f-11ee-b5e6-000c29dda879

创建资源单元

obclient [oceanbase]> SELECT \* FROM oceanbase.DBA\_OB\_UNIT\_CONFIGS;

+----------------+-----------------+----------------------------+----------------------------+---------+---------+-------------+---------------+---------------------+---------------------+-------------+

| UNIT\_CONFIG\_ID | NAME | CREATE\_TIME | MODIFY\_TIME | MAX\_CPU | MIN\_CPU | MEMORY\_SIZE | LOG\_DISK\_SIZE | MAX\_IOPS | MIN\_IOPS | IOPS\_WEIGHT |

+----------------+-----------------+----------------------------+----------------------------+---------+---------+-------------+---------------+---------------------+---------------------+-------------+

| 1 | sys\_unit\_config | 2024-01-25 13:07:02.177466 | 2024-01-25 13:07:02.177466 | 3 | 3 | 1073741824 | 2147483648 | 9223372036854775807 | 9223372036854775807 | 3 |

+----------------+-----------------+----------------------------+----------------------------+---------+---------+-------------+---------------+---------------------+---------------------+-------------+

1 row in set (0.005 sec)

obclient [oceanbase]>

obclient [oceanbase]> CREATE RESOURCE UNIT S1\_unit\_config

 -> MEMORY\_SIZE = '2G',

 -> MAX\_CPU = 1, MIN\_CPU = 1,

 -> LOG\_DISK\_SIZE = '6G',

 -> MAX\_IOPS = 10000, MIN\_IOPS = 10000, IOPS\_WEIGHT=1;

Query OK, 0 rows affected (0.009 sec)

obclient [oceanbase]>

obclient [oceanbase]>

obclient [oceanbase]> SELECT \* FROM oceanbase.DBA\_OB\_UNIT\_CONFIGS WHERE NAME = 'S1\_unit\_config';

+----------------+----------------+----------------------------+----------------------------+---------+---------+-------------+---------------+----------+----------+-------------+

| UNIT\_CONFIG\_ID | NAME | CREATE\_TIME | MODIFY\_TIME | MAX\_CPU | MIN\_CPU | MEMORY\_SIZE | LOG\_DISK\_SIZE | MAX\_IOPS | MIN\_IOPS | IOPS\_WEIGHT |

+----------------+----------------+----------------------------+----------------------------+---------+---------+-------------+---------------+----------+----------+-------------+

| 1001 | S1\_unit\_config | 2024-01-25 15:39:56.090733 | 2024-01-25 15:39:56.090733 | 1 | 1 | 2147483648 | 6442450944 | 10000 | 10000 | 1 |

+----------------+----------------+----------------------------+----------------------------+---------+---------+-------------+---------------+----------+----------+-------------+

1 row in set (0.002 sec)

创建资源池

obclient [oceanbase]> SELECT \* FROM oceanbase.DBA\_OB\_RESOURCE\_POOLS;

+------------------+----------+-----------+----------------------------+----------------------------+------------+----------------+-----------+--------------+

| RESOURCE\_POOL\_ID | NAME | TENANT\_ID | CREATE\_TIME | MODIFY\_TIME | UNIT\_COUNT | UNIT\_CONFIG\_ID | ZONE\_LIST | REPLICA\_TYPE |

+------------------+----------+-----------+----------------------------+----------------------------+------------+----------------+-----------+--------------+

| 1 | sys\_pool | 1 | 2024-01-25 13:07:02.180154 | 2024-01-25 13:07:02.184538 | 1 | 1 | zone1 | FULL |

+------------------+----------+-----------+----------------------------+----------------------------+------------+----------------+-----------+--------------+

1 row in set (0.004 sec)

obclient [oceanbase]>

obclient [oceanbase]>

obclient [oceanbase]> CREATE RESOURCE POOL mq\_pool\_01

 -> UNIT='S1\_unit\_config',

 -> UNIT\_NUM=1,

 -> ZONE\_LIST=('zone1');

Query OK, 0 rows affected (0.013 sec)

obclient [oceanbase]> SELECT \* FROM DBA\_OB\_RESOURCE\_POOLS WHERE NAME = 'mq\_pool\_01';

+------------------+------------+-----------+----------------------------+----------------------------+------------+----------------+-----------+--------------+

| RESOURCE\_POOL\_ID | NAME | TENANT\_ID | CREATE\_TIME | MODIFY\_TIME | UNIT\_COUNT | UNIT\_CONFIG\_ID | ZONE\_LIST | REPLICA\_TYPE |

+------------------+------------+-----------+----------------------------+----------------------------+------------+----------------+-----------+--------------+

| 1001 | mq\_pool\_01 | NULL | 2024-01-25 15:41:32.208487 | 2024-01-25 15:41:32.208487 | 1 | 1001 | zone1 | FULL |

+------------------+------------+-----------+----------------------------+----------------------------+------------+----------------+-----------+--------------+

1 row in set (0.003 sec)

创建租户

obclient [oceanbase]>

obclient [oceanbase]> SELECT \* FROM oceanbase.DBA\_OB\_TENANTS;

+-----------+-------------+-------------+----------------------------+----------------------------+--------------+---------------+-------------------+--------------------+--------+---------------+--------+-------------+-------------------+------------------+----------+----------------+--------------+--------------------+--------------+----------------------------+----------+------------+-----------+

| TENANT\_ID | TENANT\_NAME | TENANT\_TYPE | CREATE\_TIME | MODIFY\_TIME | PRIMARY\_ZONE | LOCALITY | PREVIOUS\_LOCALITY | COMPATIBILITY\_MODE | STATUS | IN\_RECYCLEBIN | LOCKED | TENANT\_ROLE | SWITCHOVER\_STATUS | SWITCHOVER\_EPOCH | SYNC\_SCN | REPLAYABLE\_SCN | READABLE\_SCN | RECOVERY\_UNTIL\_SCN | LOG\_MODE | ARBITRATION\_SERVICE\_STATUS | UNIT\_NUM | COMPATIBLE | MAX\_LS\_ID |

+-----------+-------------+-------------+----------------------------+----------------------------+--------------+---------------+-------------------+--------------------+--------+---------------+--------+-------------+-------------------+------------------+----------+----------------+--------------+--------------------+--------------+----------------------------+----------+------------+-----------+

| 1 | sys | SYS | 2024-01-25 13:07:02.193899 | 2024-01-25 13:07:02.193899 | RANDOM | FULL{1}@zone1 | NULL | MYSQL | NORMAL | NO | NO | PRIMARY | NORMAL | 0 | NULL | NULL | NULL | NULL | NOARCHIVELOG | DISABLED | 1 | 4.2.1.3 | 1 |

+-----------+-------------+-------------+----------------------------+----------------------------+--------------+---------------+-------------------+--------------------+--------+---------------+--------+-------------+-------------------+------------------+----------+----------------+--------------+--------------------+--------------+----------------------------+----------+------------+-----------+

1 row in set (0.022 sec)

obclient [oceanbase]> CREATE TENANT IF NOT EXISTS mq\_t1

 -> PRIMARY\_ZONE='zone1',

 -> RESOURCE\_POOL\_LIST=('mq\_pool\_01')

 -> set OB\_TCP\_INVITED\_NODES='%';

Query OK, 0 rows affected (24.578 sec)

obclient [oceanbase]>

obclient [oceanbase]> SELECT \* FROM DBA\_OB\_TENANTS WHERE TENANT\_NAME = 'mq\_t1';

+-----------+-------------+-------------+----------------------------+----------------------------+--------------+---------------+-------------------+--------------------+--------+---------------+--------+-------------+-------------------+------------------+---------------------+---------------------+---------------------+---------------------+--------------+----------------------------+----------+------------+-----------+

| TENANT\_ID | TENANT\_NAME | TENANT\_TYPE | CREATE\_TIME | MODIFY\_TIME | PRIMARY\_ZONE | LOCALITY | PREVIOUS\_LOCALITY | COMPATIBILITY\_MODE | STATUS | IN\_RECYCLEBIN | LOCKED | TENANT\_ROLE | SWITCHOVER\_STATUS | SWITCHOVER\_EPOCH | SYNC\_SCN | REPLAYABLE\_SCN | READABLE\_SCN | RECOVERY\_UNTIL\_SCN | LOG\_MODE | ARBITRATION\_SERVICE\_STATUS | UNIT\_NUM | COMPATIBLE | MAX\_LS\_ID |

+-----------+-------------+-------------+----------------------------+----------------------------+--------------+---------------+-------------------+--------------------+--------+---------------+--------+-------------+-------------------+------------------+---------------------+---------------------+---------------------+---------------------+--------------+----------------------------+----------+------------+-----------+

| 1002 | mq\_t1 | USER | 2024-01-25 15:42:40.578123 | 2024-01-25 15:42:54.356097 | zone1 | FULL{1}@zone1 | NULL | MYSQL | NORMAL | NO | NO | PRIMARY | NORMAL | 0 | 1706168587211885034 | 1706168587211885034 | 1706168587211885033 | 4611686018427387903 | NOARCHIVELOG | DISABLED | 1 | 4.2.1.3 | 1001 |

+-----------+-------------+-------------+----------------------------+----------------------------+--------------+---------------+-------------------+--------------------+--------+---------------+--------+-------------+-------------------+------------------+---------------------+---------------------+---------------------+---------------------+--------------+----------------------------+----------+------------+-----------+

1 row in set (0.022 sec)

obclient [oceanbase]>

登录业务租户mq\_t1，创建业务数据库，创建业务表，查看执行计划

[admin@obtest1 ~]$ obclient -h127.0.0.1 -P2881 -uroot@mq\_t1 -Doceanbase -A

Welcome to the OceanBase. Commands end with ; or \g.

Your OceanBase connection id is 3221495963

Server version: OceanBase\_CE 4.2.1.3 (r103000032023122818-8fe69c2056b07154bbd1ebd2c26e818ee0d5c56f) (Built Dec 28 2023 19:07:26)

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Type 'help;' or '\h' for help. Type '\c' to clear the current input statement.

obclient [oceanbase]>

obclient [oceanbase]>

obclient [oceanbase]> show databases;

+--------------------+

| Database |

+--------------------+

| information\_schema |

| mysql |

| oceanbase |

| test |

+--------------------+

4 rows in set (0.003 sec)

obclient [oceanbase]>

obclient [oceanbase]> create database db1;

Query OK, 1 row affected (0.022 sec)

obclient [oceanbase]> use db1

Database changed

obclient [db1]> show tables;

Empty set (0.004 sec)

obclient [db1]> create table t1(id int);

Query OK, 0 rows affected (0.058 sec)

obclient [db1]> insert into t1 values(1);

Query OK, 1 row affected (0.013 sec)

obclient [db1]> explan select \* from t1;

ERROR 1064 (42000): You have an error in your SQL syntax; check the manual that corresponds to your OceanBase version for the right syntax to use near 'explan select \* from t1' at line 1

obclient [db1]>

obclient [db1]>

obclient [db1]> explain select \* from t1;

+-------------------------------------------------------------------+

| Query Plan |

+-------------------------------------------------------------------+

| =============================================== |

| |ID|OPERATOR |NAME|EST.ROWS|EST.TIME(us)| |

| ----------------------------------------------- |

| |0 |TABLE FULL SCAN|t1 |1 |4 | |

| =============================================== |

| Outputs & filters: |

| ------------------------------------- |

| 0 - output([t1.id]), filter(nil), rowset=16 |

| access([t1.id]), partitions(p0) |

| is\_index\_back=false, is\_global\_index=false, |

| range\_key([t1.\_\_pk\_increment]), range(MIN ; MAX)always true |

+-------------------------------------------------------------------+

11 rows in set (0.003 sec)

obclient [db1]>

更多信息

OB官网：https://www.oceanbase.com/docs/common-oceanbase-database-cn-1000000000507531#10-title-%E6%96%B9%E6%A1%88%E4%B8%89%EF%BC%9A%E9%83%A8%E7%BD%B2%20OceanBase%20%E5%AE%B9%E5%99%A8%E7%8E%AF%E5%A2%83