Docker - 快速通关 (3h)



https://github.com/kingToolbox/WindTerm/releases/download/2.6.0/WindTerm_2.6.1_Windows _Portable_x86_64.zip

```
Shell
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移除旧版本docker 1 2 sudo yum remove docker \ 3 docker-client \setminus 4 docker-client-latest \ 5 docker-common ∖ 6 docker-latest $\$ 7 docker-latest-logrotate \ 8 docker-logrotate \ 9 docker-engine 10 11 # 配置docker yum源。 sudo yum install -y yum-utils 12 sudo yum-config-manager \ 13 --add-repo \ 14 http://mirrors.aliyun.com/docker-ce/linux/centos/docker-ce.repo 15 16 17 18 # 安装 最新 docker sudo yum install -y docker-ce docker-ce-cli containerd.io docker-buildx-pl 19 ugin docker-compose-plugin 20 21 # 启动& 开机启动docker; enable + start 二合一 22 systemctl enable docker -- now 23 24 # 配置加速 25 sudo mkdir -p /etc/docker 26 sudo tee /etc/docker/daemon.json <<-'EOF'</pre> 27 - { 28 📼 "registry-mirrors": ["https://mirror.ccs.tencentyun.com"] 29 } 30 E0F 31 sudo systemctl daemon-reload sudo systemctl restart docker 32



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Shell

1	#查看运行中的容器
2	docker ps
3	#查看所有容器
4	docker ps -a
5	#搜索镜像
6	docker search nginx
7	#下载镜像
8	docker pull nginx
9	#下载指定版本镜像
10	docker pull nginx:1.26.0
11	#查看所有镜像
12	docker images
13	#删除指定id的镜像
14	docker rmi e784f4560448
15	
16	
17	#运行一个新容器
18	docker run nginx
19	
20	docker stop keen_blackwell
21	
22	docker start 592
23	#里后谷器
24	docker restart 592
25	
20	UUCKET STATS 392 #本手容器口士
27	#旦自谷奋口心 docker logs 502
20	MUCKET LUGS 592 #
30	docker rm 592
31	#强制删除指定容器
32	docker rm $-f$ 592
33	# 后台启动容器
34	docker run -dname mynginx nginx
35	# 后台启动并暴露端口
36	docker run -dname mynginx -p 80:80 nginx
37	# 进入容器内部
38	docker exec -it mynginx /bin/bash
39	
40	# 提交容器变化打成一个新的镜像
41	docker commit -m "update index.html" mynginx mynginx:v1.0
42	# 保存镜像为指定文件
43	docker save -o mynginx.tar mynginx:v1.0
44	# 删除多个镜像
45	docker rmi bde7d154a67f 94543a6c1aef e784f4560448

```
46
    # 加载镜像
    docker load -i mynginx.tar
48
49
50
    # 登录 docker hub
51
    docker login
52
    # 重新给镜像打标签
53
    docker tag mynginx:v1.0 leifengyang/mynginx:v1.0
54
    # 推送镜像
55
    docker push leifengyang/mynginx:v1.0
```



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两种方式,注意区分:

- 目录挂载: -v /app/nghtml:/usr/share/nginx/html
- 卷映射: -v ngconf:/etc/nginx

Shell

- 1 docker run −d −p 99:80 \
- 2 -v /app/nghtml:/usr/share/nginx/html \
- 3 -v ngconf:/etc/nginx \
- 4 **--name** app03 ∖
- 5 nginx

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创建自定义网络,实现主机名作为稳定域名访问。

4.1. Redis主从同步集群



1	#自定义网络
2	docker network create mynet
3	#主节点
4	docker run -d -p 6379:6 379 \
5	<pre>-v /app/rd1:/bitnami/redis/data \</pre>
6	<pre>-e REDIS_REPLICATION_MODE=master \</pre>
7	<pre>-e REDIS_PASSWORD=123456 \</pre>
8	<pre>network mynetname redis01 \</pre>
9	bitnami/redis
10	
11	#从节点
12	docker run –d –p 6380:6379 \
13	<pre>-v /app/rd2:/bitnami/redis/data \</pre>
14	<pre>-e REDIS_REPLICATION_MODE=slave \</pre>
15	<pre>-e REDIS_MASTER_HOST=redis01 \</pre>
16	<pre>-e REDIS_MASTER_PORT_NUMBER=6379 \</pre>
17	<pre>-e REDIS_MASTER_PASSWORD=123456 \</pre>
18	<pre>-e REDIS_PASSWORD=123456 \</pre>
19	<pre>network mynetname redis02 \</pre>
20	bitnami/redis

4.2. 启动MySQL

•	Shell
1 2 3 4 5	<pre>docker run -d -p 3306:3306 \ -v /app/myconf:/etc/mysql/conf.d \ -v /app/mydata:/var/lib/mysql \ -e MYSQL_ROOT_PASSWORD=123456 \ mysql:8.0.37-debian</pre>

5. Docker Compose



5.1. 命令式安装

	1	#创建网络
	2	docker network create blog
	3	
	4	#启动mysql
	5	docker run -d -p 3306:3306 \
	6	<pre>-e MYSQL_ROOT_PASSWORD=123456 \</pre>
	7	<pre>-e MYSQL_DATABASE=wordpress \</pre>
	8	<pre>-v mysql-data:/var/lib/mysql \</pre>
	9	<pre>-v /app/myconf:/etc/mysql/conf.d \</pre>
	10	restart alwaysname mysql \
	11	network blog \
	12	mysql:8.0
	13	
	14	#启动wordpress
	15	docker run -d -p 8080:80 \
	16	<pre>-e WORDPRESS_DB_HOST=mysql \</pre>
	17	<pre>-e WORDPRESS_DB_USER=root \</pre>
	18	<pre>-e WORDPRESS_DB_PASSWORD=123456 \</pre>
	19	<pre>-e WORDPRESS_DB_NAME=wordpress \</pre>
	20	<pre>-v wordpress:/var/www/html \</pre>
	21	<pre>restart alwaysname wordpress-app \</pre>
	22	network blog \
	23	wordpress:latest



5.2. compose.yaml

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```
YAML
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•	
1	name: myblog
2	services:
3	mysql:
4	<pre>container_name: mysql</pre>
5	<pre>image: mysql:8.0</pre>
6	ports:
7	- "3306:3306"
8	environment:
9	– MYSQL_ROOT_PASSWORD=123456
10	– MYSQL_DATABASE=wordpress
11	volumes:
12	– mysql-data:/var/lib/mysql
13	- /app/myconf:/etc/mysql/conf.d
14	restart: always
15	networks:
16	– blog
17	
18	wordpress:
19	<pre>image: wordpress</pre>
20	ports:
21	- "8080:80"
22	environment:
23	WORDPRESS_DB_HOST: mysql
24	WORDPRESS_DB_USER: root
25	WORDPRESS_DB_PASSWORD: 123456
26	WORDPRESS_DB_NAME: wordpress
27	volumes:
28	<pre>- wordpress:/var/www/html</pre>
29	restart: always
30	networks:
31	- blog
32	depends_on:
33	- mysql
34	
35	volumes:
30	mysql-data:
37	wordpress:
50 20	notvorkov
29	herworks:
40	blog.

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5.3. 特性

• 增量更新

○ 修改 Docker Compose 文件。重新启动应用。只会触发修改项的重新启动。

• 数据不删

○ 默认就算down了容器,所有挂载的卷不会被移除。比较安全

6. Dockerfile

app.jar

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7. 附录 - 一键安装超多中间件



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1 #Disable memory paging and swapping performance 2 sudo swapoff -a 3 4 # Edit the sysctl config file 5 sudo vi /etc/sysctl.conf 6 7 # Add a line to define the desired value # or change the value if the key exists, 8 # and then save your changes. 9 vm.max_map_count=262144 10 11 12 # Reload the kernel parameters using sysctl 13 sudo sysctl -p 14 15 # Verify that the change was applied by checking the value cat /proc/sys/vm/max_map_count 16

7.1. yaml

注意: 将下面文件中 kafka 的 119.45.147.122 改为你自己的服务器IP。 准备一个 compose.yaml 文件,内容如下:

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YAML
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<pre>1 name: devsoft 2 services: 3 redis: 4 image: bitnami/redis:latest 5 restart: always 6 container_name: redis 7 environment: 8 - REDIS_PASSWORD=123456 9 ports: 10 - '6379:6379' 11 volumes: 12 - redis-data:/bitnami/redis/data 13 - redis-conf:/opt/bitnami/redis/mounted-etc 14 15 mysql: 16 image: mysql:8.0.31 17 restart: always 18 container_name: mysql 19 environment: 20 - MYSQL_ROOT_PASSWORD=123456 21 ports: 22 - '3306:33060' 23 - '33060:33060' 24 volumes: 25 - mysql-conf:/etc/mysql/conf.d 26 - mysql-data:/var/lib/mysql 27 28 rabbit: 29 image: rabbitmq:3-management 30 restart: always 31 container_name: rabbitmq 32 ports: 33 - "5672:5672" 34 - "15672:15672" 35 environment: 36 - RABBITMQ_DEFAULT_USER=rabbit 37 - RABBITMQ_DEFAULT_VHOST=dev 39 volumes: 40 - rabbit-data:/var/lib/rabbitmq 41 - rabbit-app:/etc/rabbitmq 42 opensearch-node1 43 image: opensearch-node1 44 container_name: opensearch-node1 44 container_name: opensearch-node1 45 mysql 46 - container_name: opensearch-node1 46 - mase: opensearch-node1 46 - container_name: opensearch-node1 47 - container_name: opensearch-node1 48 - Setting opensearch-node1 49 - Patendel: opensearch-node1 40 - container_name: opensearch-node1 40 - rabbit-app:/etc/opensearch:2.13.0 40 - Container_name: opensearch-node1 44 - Containe</pre>	•	
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<pre>18 container_name: mysql 19 environment: 20 - MYSQL_ROOT_PASSWORD=123456 21 ports: 22 - '3306:3306' 23 - '33060:33060' 24 volumes: 25 - mysql-conf:/etc/mysql/conf.d 26 - mysql-data:/var/lib/mysql 27 28 rabbit: 29 image: rabbitmq:3-management 30 restart: always 31 container_name: rabbitmq 32 ports: 33 - "5672:5672" 34 - "15672:15672" 35 environment: 36 - RABBITMQ_DEFAULT_USER=rabbit 37 - RABBITMQ_DEFAULT_VHOST=dev 39 volumes: 40 - rabbit-data:/var/lib/rabbitmq 41 - rabbit-app:/etc/rabbitmq 42 opensearch-node1: 43 image: opensearchproject/opensearch:2.13.0 44 container_name: opensearch-node1</pre>	17	restart: always
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<pre>20 - MYSQL_ROOT_PASSWORD=123456 21 ports: 22 - '3306:3306' 23 - '33060:33060' 24 volumes: 25 - mysql-conf:/etc/mysql/conf.d 26 - mysql-data:/var/lib/mysql 27 28 rabbit: 29 image: rabbitmq:3-management 30 restart: always 31 container_name: rabbitmq 32 ports: 33 - "5672:5672" 34 - "15672:15672" 35 environment: 36 - RABBITMQ_DEFAULT_USER=rabbit 37 - RABBITMQ_DEFAULT_USER=rabbit 38 - RABBITMQ_DEFAULT_VHOST=dev 39 volumes: 40 - rabbit-data:/var/lib/rabbitmq 41 - rabbit-app:/etc/rabbitmq 42 opensearch-node1: 43 image: opensearchproject/opensearch:2.13.0 44 container_name: opensearch-node1</pre>	19	environment:
<pre>21 ports: 22 - '3306:3306' 23 - '33060:33060' 24 volumes: 25 - mysql-conf:/etc/mysql/conf.d 26 - mysql-data:/var/lib/mysql 27 28 rabbit: 29 image: rabbitmq:3-management 30 restart: always 31 container_name: rabbitmq 32 ports: 33 - "5672:5672" 34 - "15672:15672" 35 environment: 36 - RABBITMQ_DEFAULT_USER=rabbit 37 - RABBITMQ_DEFAULT_PASS=rabbit 38 - RABBITMQ_DEFAULT_VHOST=dev 39 volumes: 40 - rabbit-data:/var/lib/rabbitmq 41 - rabbit-app:/etc/rabbitmq 42 opensearch-node1: 43 image: opensearchproject/opensearch:2.13.0 44 container_name: opensearch-node1</pre>	20	– MYSQL_ROOT_PASSWORD=123456
<pre>22 - '3306:3306' 23 - '33060:33060' 24 volumes: 25 - mysql-conf:/etc/mysql/conf.d 26 - mysql-data:/var/lib/mysql 27 28 rabbit: 29 image: rabbitmq:3-management 30 restart: always 31 container_name: rabbitmq 32 ports: 33 - "5672:5672" 34 - "15672:15672" 35 environment: 36 - RABBITMQ_DEFAULT_USER=rabbit 37 - RABBITMQ_DEFAULT_PASS=rabbit 38 - RABBITMQ_DEFAULT_VHOST=dev 39 volumes: 40 - rabbit-data:/var/lib/rabbitmq 41 - rabbit-app:/etc/rabbitmq 42 opensearch-node1: 43 image: opensearchproject/opensearch:2.13.0 44 container_name: opensearch-node1</pre>	21	ports:
<pre>23 - '33060:33060' 24 volumes: 25 - mysql-conf:/etc/mysql/conf.d 26 - mysql-data:/var/lib/mysql 27 28 rabbit: 29 image: rabbitmq:3-management 30 restart: always 31 container_name: rabbitmq 32 ports: 33 - "5672:5672" 34 - "15672:15672" 35 environment: 36 - RABBITMQ_DEFAULT_USER=rabbit 37 - RABBITMQ_DEFAULT_PASS=rabbit 38 - RABBITMQ_DEFAULT_VHOST=dev 39 volumes: 40 - rabbit-data:/var/lib/rabbitmq 41 - rabbit-app:/etc/rabbitmq 42 opensearch-node1: 43 image: opensearchproject/opensearch:2.13.0 44 container_name: opensearch-node1</pre>	22	- '3306:3306'
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<pre>25 - mysql-conf:/etc/mysql/conf.d 26 - mysql-data:/var/lib/mysql 27 28 rabbit: 29 image: rabbitmq:3-management 30 restart: always 31 container_name: rabbitmq 32 ports: 33 - "5672:5672" 34 - "15672:15672" 35 environment: 36 - RABBITMQ_DEFAULT_USER=rabbit 37 - RABBITMQ_DEFAULT_PASS=rabbit 38 - RABBITMQ_DEFAULT_VHOST=dev 39 volumes: 40 - rabbit-data:/var/lib/rabbitmq 41 - rabbit-app:/etc/rabbitmq 42 opensearch-node1: 43 image: opensearchproject/opensearch:2.13.0 44 container_name: opensearch-node1</pre>	24	volumes:
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<pre>2/ 28 rabbit: 29 image: rabbitmq:3-management 30 restart: always 31 container_name: rabbitmq 32 ports: 33 - "5672:5672" 34 - "15672:15672" 35 environment: 36 - RABBITMQ_DEFAULT_USER=rabbit 37 - RABBITMQ_DEFAULT_PASS=rabbit 38 - RABBITMQ_DEFAULT_VHOST=dev 39 volumes: 40 - rabbit-data:/var/lib/rabbitmq 41 - rabbit-app:/etc/rabbitmq 42 opensearch-node1: 43 image: opensearchproject/opensearch:2.13.0 44 container_name: opensearch-node1</pre>	26	<pre>- mysql-data:/var/lib/mysql</pre>
<pre>28 rabbit: 29 image: rabbitmq:3-management 30 restart: always 31 container_name: rabbitmq 32 ports: 33 - "5672:5672" 34 - "15672:15672" 35 environment: 36 - RABBITMQ_DEFAULT_USER=rabbit 37 - RABBITMQ_DEFAULT_PASS=rabbit 38 - RABBITMQ_DEFAULT_VHOST=dev 39 volumes: 40 - rabbit-data:/var/lib/rabbitmq 41 - rabbit-app:/etc/rabbitmq 42 opensearch-node1: 43 image: opensearchproject/opensearch:2.13.0 44 container_name: opensearch-node1</pre>	27	
<pre>29 Image: rabbitmq:3-management 30 restart: always 31 container_name: rabbitmq 32 ports: 33 - "5672:5672" 34 - "15672:15672" 35 environment: 36 - RABBITMQ_DEFAULT_USER=rabbit 37 - RABBITMQ_DEFAULT_PASS=rabbit 38 - RABBITMQ_DEFAULT_VHOST=dev 39 volumes: 40 - rabbit-data:/var/lib/rabbitmq 41 - rabbit-data:/var/lib/rabbitmq 41 - rabbit-app:/etc/rabbitmq 42 opensearch-node1: 43 image: opensearchproject/opensearch:2.13.0 44 container_name: opensearch-node1</pre>	28	rabbit:
<pre>30 restart: always 31 container_name: rabbitmq 32 ports: 33 - "5672:5672" 34 - "15672:15672" 35 environment: 36 - RABBITMQ_DEFAULT_USER=rabbit 37 - RABBITMQ_DEFAULT_PASS=rabbit 38 - RABBITMQ_DEFAULT_VHOST=dev 39 volumes: 40 - rabbit-data:/var/lib/rabbitmq 41 - rabbit-app:/etc/rabbitmq 42 opensearch-node1: 43 image: opensearchproject/opensearch:2.13.0 44 container_name: opensearch-node1</pre>	29	<pre>image: rabbitmq:3-management</pre>
<pre>31 Container_name: rabbitmq 32 ports: 33 - "5672:5672" 34 - "15672:15672" 35 environment: 36 - RABBITMQ_DEFAULT_USER=rabbit 37 - RABBITMQ_DEFAULT_PASS=rabbit 38 - RABBITMQ_DEFAULT_VHOST=dev 39 volumes: 40 - rabbit-data:/var/lib/rabbitmq 41 - rabbit-app:/etc/rabbitmq 41 opensearch-node1: 43 image: opensearchproject/opensearch:2.13.0 44 container_name: opensearch-node1</pre>	30	restart: always
<pre>32 ports: 33 - "5672:5672" 34 - "15672:15672" 35 environment: 36 - RABBITMQ_DEFAULT_USER=rabbit 37 - RABBITMQ_DEFAULT_PASS=rabbit 38 - RABBITMQ_DEFAULT_VHOST=dev 39 volumes: 40 - rabbit-data:/var/lib/rabbitmq 41 - rabbit-app:/etc/rabbitmq 41 - rabbit-app:/etc/rabbitmq 42 opensearch-node1: 43 image: opensearchproject/opensearch:2.13.0 44 container_name: opensearch-node1</pre>	31	container_name: rabbitmq
<pre>33 - "5072:5072" 34 - "15672:15672" 35 environment: 36 - RABBITMQ_DEFAULT_USER=rabbit 37 - RABBITMQ_DEFAULT_PASS=rabbit 38 - RABBITMQ_DEFAULT_VHOST=dev 39 volumes: 40 - rabbit-data:/var/lib/rabbitmq 41 - rabbit-app:/etc/rabbitmq 41 opensearch-node1: 43 image: opensearchproject/opensearch:2.13.0 44 container_name: opensearch-node1</pre>	32	
<pre>34 - ISO/2:ISO/2 35 environment: 36 - RABBITMQ_DEFAULT_USER=rabbit 37 - RABBITMQ_DEFAULT_PASS=rabbit 38 - RABBITMQ_DEFAULT_VHOST=dev 39 volumes: 40 - rabbit-data:/var/lib/rabbitmq 41 - rabbit-app:/etc/rabbitmq 42 opensearch-node1: 43 image: opensearchproject/opensearch:2.13.0 44 container_name: opensearch-node1</pre>	33 24	- ~50/2:50/2~ #15675.15675#
<pre>35 environment: 36 - RABBITMQ_DEFAULT_USER=rabbit 37 - RABBITMQ_DEFAULT_PASS=rabbit 38 - RABBITMQ_DEFAULT_VHOST=dev 39 volumes: 40 - rabbit-data:/var/lib/rabbitmq 41 - rabbit-app:/etc/rabbitmq 42 opensearch-node1: 43 image: opensearchproject/opensearch:2.13.0 44 container_name: opensearch-node1</pre>	24 25	- 15072:15072
<pre>30</pre>	30	DARRITMO DEEAULT USED-robbit
<pre>37</pre>	30	- RADDINQ_DELAULI_OSER-LADDIC
<pre>39 volumes: 40 - rabbit-data:/var/lib/rabbitmq 41 - rabbit-app:/etc/rabbitmq 42 opensearch-node1: 43 image: opensearchproject/opensearch:2.13.0 44 container_name: opensearch-node1</pre>	38	- RABBITMQ_DETAULT_FASS-TABBIT
<pre>40 - rabbit-data:/var/lib/rabbitmq 41 - rabbit-app:/etc/rabbitmq 42 opensearch-node1: 43 image: opensearchproject/opensearch:2.13.0 44 container_name: opensearch-node1</pre>	20	
 41 - rabbit-app:/etc/rabbitmq 42 opensearch-node1: 43 image: opensearchproject/opensearch:2.13.0 44 container_name: opensearch-node1 	10	<pre>- rabbit_data://ar/lib/rabbitmg</pre>
 42 opensearch-node1: 43 image: opensearchproject/opensearch:2.13.0 44 container_name: opensearch-node1 	<u>4</u> 1	<pre>- rabbit_app://etc/rabbitmg</pre>
 43 image: opensearchproject/opensearch:2.13.0 44 container_name: opensearch-node1 	42	opensearch-nodel:
44 container_name: opensearch-node1	43 43	image: opensearchproject/opensearch:2 13 0
opensearer opensearen noder	44	container name: opensearch-node1
45 environment:	45	environment:

<u>46</u> - cluster.name=opensearch-cluster # Name the cluster - node.name=opensearch-node1 # Name the node that will run in this container 48 - discovery.seed hosts=opensearch-node1,opensearch-node2 # Nodes t o look for when discovering the cluster 49 - cluster.initial_cluster_manager_nodes=opensearch-node1,opensearch -node2 # Nodes eligibile to serve as cluster manager 50 - bootstrap.memory_lock=true # Disable JVM heap memory swapping 51 - "OPENSEARCH_JAVA_OPTS=-Xms512m -Xmx512m" # Set min and max JVM he ap sizes to at least 50% of system RAM 52 - "DISABLE INSTALL DEMO CONFIG=true" # Prevents execution of bundle d demo script which installs demo certificates and security configuration s to OpenSearch 53 - "DISABLE_SECURITY_PLUGIN=true" # Disables Security plugin 54 ulimits: 55 memlock: 56 **soft:** -1 # Set memlock to unlimited (no soft or hard limit) 57 hard: -1 58 nofile: 59 soft: 65536 # Maximum number of open files for the opensearch use r - set to at least 65536 60 hard: 65536 61 volumes: 62 - opensearch-data1:/usr/share/opensearch/data # Creates volume call ed opensearch-data1 and mounts it to the container 63 ports: 64 - 9200:9200 # REST API 65 - 9600:9600 # Performance Analyzer 66 67 opensearch-node2: 68 image: opensearchproject/opensearch:2.13.0 69 container name: opensearch-node2 70 environment: 71 - cluster.name=opensearch-cluster # Name the cluster 72 - node.name=opensearch-node2 # Name the node that will run in this container 73 - discovery.seed_hosts=opensearch-node1,opensearch-node2 # Nodes t o look for when discovering the cluster 74 – cluster.initial_cluster_manager_nodes=opensearch-node1,opensearch -node2 # Nodes eligibile to serve as cluster manager 75 - bootstrap.memory_lock=true # Disable JVM heap memory swapping 76 - "OPENSEARCH_JAVA_OPTS=-Xms512m -Xmx512m" # Set min and max JVM he ap sizes to at least 50% of system RAM 77 - "DISABLE INSTALL DEMO CONFIG=true" # Prevents execution of bundle d demo script which installs demo certificates and security configuration s to OpenSearch 78 - "DISABLE_SECURITY_PLUGIN=true" # Disables Security plugin 79 ulimits:

```
80
81
            memlock:
              soft: -1 # Set memlock to unlimited (no soft or hard limit)
 82
              hard: -1
 83
            nofile:
 84
              soft: 65536 # Maximum number of open files for the opensearch use
      r - set to at least 65536
 85
              hard: 65536
 86
          volumes:
 87
            – opensearch-data2:/usr/share/opensearch/data # Creates volume call
      ed opensearch-data2 and mounts it to the container
 88
 89
        opensearch-dashboards:
 90
          image: opensearchproject/opensearch-dashboards:2.13.0
 91
          container name: opensearch-dashboards
 92
          ports:
 93
            - 5601:5601 # Map host port 5601 to container port 5601
 94
          expose:
 95
            - "5601" # Expose port 5601 for web access to OpenSearch Dashboards
 96
          environment:
 97 -
            - 'OPENSEARCH_HOSTS=["http://opensearch-node1:9200","http://opensea
      rch-node2:9200"]'
 98
            - "DISABLE_SECURITY_DASHBOARDS_PLUGIN=true" # disables security das
      hboards plugin in OpenSearch Dashboards
 99
100
        zookeeper:
101
          image: bitnami/zookeeper:3.9
102
          container_name: zookeeper
103
          restart: always
104
          ports:
105
            - "2181:2181"
106
          volumes:
107
            - "zookeeper data:/bitnami"
108
          environment:
109
            – ALLOW_ANONYMOUS_LOGIN=yes
110
111
        kafka:
112
          image: 'bitnami/kafka:3.4'
113
          container name: kafka
114
          restart: always
115
          hostname: kafka
116
          ports:
117
            - '9092:9092'
118
            - '9094:9094'
119
          environment:
120
            - KAFKA_CFG_NODE_ID=0
121
            - KAFKA_CFG_PROCESS_ROLES=controller, broker
122
            - KAFKA CFG LISTENERS=PLAINTEXT://:9092,CONTROLLER://:9093,EXTERNA
      L://0.0.0.0:9094
```

	123	– KAFKA_CFG_ADVERTISED_LISTENERS=PLAINTEXT://kafka:9092,EXTERNAL://				
	104	119.45.147.122:9094				
	124	- KAFKA_CFG_LISTENER_SECURITY_PROTOCOL_MAP=CONTROLLER:PLAINTE				
		ERNAL: PLAINTEXT, PLAINTEXT: PLAINTEXT				
	125	– KAFKA CFG CONTROLLER OUORUM VOTERS=0@kafka:9093				
	126	- KAFKA CFG CONTROLLER LISTENER NAMES=CONTROLLER				
	127	- ALLOW PLATNTEXT LISTENER=ves				
	128	- "KAFKA HEAP OPTS= $-Xmx512m$ - $Xms512m$ "				
	129	volumes:				
	130kafka_conft/bitnami/kafka/config					
131 - kafka-data:/bitnami/kafka/data						
132 kafka-ui						
	133	container name: kafka-ui				
	134	image: provectus]abs/kafka_ui:]atest				
	135	rostart, always				
	136	porte.				
	137					
	138					
	139					
	140	DINAMIC_CONFIG_ENABLED: LITUE				
	141	KAFKA_CLUSTERS_0_NAME: KATKA-OEV				
	142	KAFKA_CLUSTERS_0_BOUTSTRAPSERVERS: KATKa:9092				
	143	volumes:				
	144	- karkaul-app:/etc/karkaul				
	145					
	146	nacos:				
	147	<pre>image: nacos/nacos-server:v2.3.1</pre>				
	148	container_name: nacos				
	149	ports:				
	150	- 8848:8848				
	151	- 9848:9848				
	152	environment:				
	153	– PREFER_HOST_MODE=hostname				
	154	- MODE=standalone				
	155	- JVM_XMX=512m				
	156	- JVM_XMS=512m				
	157	- SPRING_DATASOURCE_PLATFORM=mysql				
	158	- MYSQL_SERVICE_HOSI=nacos-mysql				
	159	– MYSQL_SERVICE_DB_NAME=nacos_devtest				
	160	– MYSQL_SERVICE_PORT=3306				
	161	- MYSQL_SERVICE_USER=nacos				
	162	- MYSQL_SERVICE_PASSWORD=nacos				
		– MYSQL_SERVICE_DB_PARAM=characterEncoding=utf8&connectTimeout=1000				
		&socketTimeout=3000&autoReconnect=true&useUnicode=true&useSSL=false&serve				
	163	rTimezone=Asia/Shanghai&allowPublicKeyRetrieval=true				
	164	– NACOS_AUTH_IDENTITY_KEY=2222				
	165	– NACOS_AUTH_IDENTITY_VALUE=2xxx				
		– NACOS_AUTH_TOKEN=SecretKey012345678901234567890123456789012345678				
		901234567890123456789				

```
- NACOS_AUTH_ENABLE=true
\frac{166}{167}
          volumes:
168
            - /app/nacos/standalone-logs/:/home/nacos/logs
169
          depends on:
170
            nacos-mysql:
171
              condition: service_healthy
172
        nacos-mysgl:
173
          container_name: nacos-mysql
174
          build:
175
            context: .
176
            dockerfile inline: |
177
              FROM mysql:8.0.31
178
              ADD https://raw.githubusercontent.com/alibaba/nacos/2.3.2/distrib
      ution/conf/mysql-schema.sql /docker-entrypoint-initdb.d/nacos-mysql.sql
179
              RUN chown -R mysgl:mysgl /docker-entrypoint-initdb.d/nacos-mysgl.
      sql
180
              EXP0SE 3306
181 🖛
              CMD ["mysqld", "--character-set-server=utf8mb4", "--collation-ser
      ver=utf8mb4_unicode_ci"]
182
          image: nacos/mysql:8.0.30
183
          environment:
184
            - MYSQL_ROOT_PASSWORD=root
185
            – MYSQL_DATABASE=nacos_devtest
186
            – MYSQL_USER=nacos
187
            - MYSQL PASSWORD=nacos
188
            - LANG=C.UTF-8
189
          volumes:
190
            - nacos-mysqldata:/var/lib/mysql
191
          ports:
192
            - "13306:3306"
193
          healthcheck:
194 -
            test: [ "CMD", "mysqladmin" ,"ping", "-h", "localhost" ]
195
            interval: 5s
196
            timeout: 10s
197
            retries: 10
198
        prometheus:
199
          image: prom/prometheus:v2.52.0
200
          container_name: prometheus
201
          restart: always
202
          ports:
203
            - 9090:9090
204
          volumes:
205
            - prometheus-data:/prometheus
206
            - prometheus-conf:/etc/prometheus
207
208
        grafana:
209
          image: grafana/grafana:10.4.2
210
          container name: grafana
```

211 212 213 214 215 216	restart: always ports: – 3000:3000 volumes: – grafana-data:/var/lib/grafana
217 218 219 220 221 222 223 224 225 226	<pre>volumes: redis-data: redis-conf: mysql-conf: mysql-data: rabbit-data: rabbit-data: rabbit-app: opensearch-data1: opensearch-data2: nacos-mysqldata:</pre>
227 228 229 230 231 232 233	<pre>zookeeper_data: kafka-conf: kafka-data: kafkaui-app: prometheus-data: prometheus-conf: grafana-data:</pre>

7.2. 启动 # 在 compose.yaml 文件所在的目录下执行 1 2 docker compose up -d 3 # 等待启动所有容器 tip: 如果重启了服务器,可能有些容器会启动失败。再执行一遍 docker compose up -d 即可。

所有程序都可运行成功,并且不会丢失数据。请放心使用。

7.3. 访问

zookeeper可视化工具下载:
 https://github.com/vran-dev/PrettyZoo/releases/download/v2.1.1/prettyZoo-win.zip

• redis可视化工具下载:

 https://github.com/qishibo/AnotherRedisDesktopManager/releases/download/v1.6.4/An other-Redis-Desktop-Manager.1.6.4.exe

	组件(容器名)	介绍	访问地址	账号/密码	特性
	Redis(redis)	k-v 库	你的ip:6379	单密码模式: 123456	已开启AOF
	MySQL(mysql)	数据库	你的ip:3306	root/123456	默认utf8mb4字 符集
	Rabbit(rabbit)	消息队列	你的ip:15672	rabbit/rabbit	暴露5672和 15672端口
	OpenSearch(ope nsearch– node1/2)	检索引擎	你的ip:9200		内存512mb;两 个节点
	opensearch– dashboards	search可视化	你的ip:5601		
	Zookeeper(zook eeper)	分布式协调	你的ip:2181		允许匿名登录
	kafka(kafka)	消息队列	你的ip:9092 外部访问:9094		占用内存512mb
	kafka-ui(kafka- ui)	kafka可视化	你的ip:8080		
	nacos(nacos)	注册/配置中心	你的ip:8848	nacos/nacos	持久化数据到 MySQL
	nacos– mysql(nacos– mysql)	nacos配套数据库	你的ip:13306	root/root	
	prometheus(pro metheus)	时序数据库	你的ip:9090		
	grafana(grafana)		你的ip:3000	admin/admin	

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