Docker 应用部署-Nacos

参考链接

- 英文官方地址: https://nacos.io/en-us/中文官方地址: https://nacos.io/zh-cn/
- 安装参考: https://nacos.io/zh-cn/docs/quick-start-docker.html

1准备目录

在home目录下面创建目录

```
1 mkdir -p /home/nacos/nacos-docker
2 cd /home/nacos/nacos-docker
```

2 放行防火墙端口

注意:如果是云服务器,请到云服务器控制台开放端口,不需要使用命令行来开启端口。

```
firewall-cmd --add-port 8848/tcp --add-port 9848/tcp --permanent
firewall-cmd --reload
```

3 启动单机模式

服务编排配置参考:

https://github.com/nacos-group/nacos-docker/blob/master/example/standalone-derby.yaml

在nacos-docker目录下新建standalone-derby.yaml文件,然后写下面的内容。

TIP: 如果后期需要安装其它版本,修改镜像版本号即可

```
1 version: "2"
   services:
 3
 4
        image: nacos/nacos-server:v2.1.0
 5
        container_name: nacos-standalone
 6
        environment:
 7
        - PREFER_HOST_MODE=hostname
 8

    MODE=standalone

 9
        - JVM_XMS=256m
10
       - JVM_XMX=256m
11
       - JVM_XMN=128m
        - JVM_MS=32m
12
13
        - JVM_MMS=80m
14
       volumes:
        - ./standalone-logs/:/home/nacos/logs
15
        - ./init.d/custom.properties:/home/nacos/init.d/custom.properties
16
        ports:
17
18
        - "8848:8848"
```

前台启动服务

```
docker-compose -f standalone-derby.yaml up
```

首次启动会拉取nacos相关镜像,如下图所示

```
root@localhost nacos-docker]# docker-compose -f standalone-derby.yaml up
[+] Running 0/11
∴ nacos Pulling
  : 2d473b07cdd5 Downloading
    815fc4d5db6e Download complete
    7128bc78cbbc Downloading 7d739257ae96 Downloading
                                                                                                      66.13MB/210.1MB
                                                                                                      52.96MB/117.5MB
                                                                                                      48.73MB/117.5MB
    9b8d32566260 Downloading [
    a6223e2872bd Waiting
    267d1d69b4e3 Waiting
    98fbeaf82461 Waiting
8b43f8d72154 Waiting
     4f4fb700ef54 Waiting
```

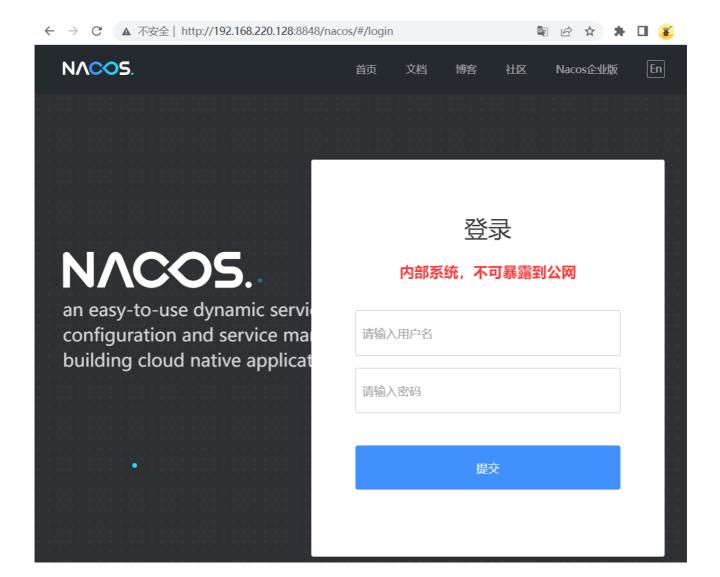
启动成功后

```
Running in stand alone mode, All function Port: 8848
                                                                                                                                   Pid: 1
                                                                                                                                   Console: http://le8f28a3609b:8848/nacos/in
                                                                                                                                          https://nacos.io
nacos-standalone | 2022-07-29 16:14:55,662 INFO Bean 'org.springframework.security.access.expression.method.DefaultMe

of type [org.springframework.security.access.expression.method.DefaultMethodSecurityExpressionHandler] is not eligible

ocessors (for example: not eligible for auto-proxying)
                               2022-07-29 16:14:55,671 INFO Bean 'methodSecurityMetadataSource' of type [org.springframework.secuis not eligible for getting processed by all BeanPostProcessors (for example: not eligible for automated).
 tyMetadataSource]
                                 2022-07-29 16:14:56,173 INFO Tomcat initialized with port(s): 8848 (http)
                                 2022-07-29 16:14:56,778 INFO Root WebApplicationContext: initialization completed in 6527 ms
                                 2022-07-29 16:15:05,573 INFO Initializing ExecutorService 'applicationTaskExecutor'
                                 2022-07-29 16:15:05,866 INFO Adding welcome page: class path resource [static/index.html]
                                 2022-07-29 16:15:06,526 INFO Creating filter chain: Ant [pattern='/**'], []
hacos-standalone | 2022-07-29 16:15:06,577 INFO Creating filter chain: any request, [org.springframework.security.web.tegrationFilter@3b2f4a93, org.springframework.security.web.context.SecurityContextPersistenceFilter@2015b2cd, org.sprinterFilter@2416498e, org.springframework.security.web.csrf.CsrfFilter@4e73b552, org.springframework.security.web.autheorg.springframework.security.web.savedrequest.RequestCacheAwareFilter@2324bfe7, org.springframework.security.web.servlilter@4016ccc1, org.springframework.security.web.authentication.AnonymousAuthenticationFilter@213bd3d5, org.springframework.security.web.access.ExceptionTranslationFilter@2cec704c]
                                 2022-07-29 16:15:06,723 INFO Initializing ExecutorService 'taskScheduler'
                                 2022-07-29 16:15:06,770 INFO Exposing 2 endpoint(s) beneath base path '/actuator'
                                 2022-07-29 16:15:06,968 INFO Tomcat started on port(s): 8848 (http) with context path '/nacos'
```

浏览器访问: http://ip:8848/nacos/



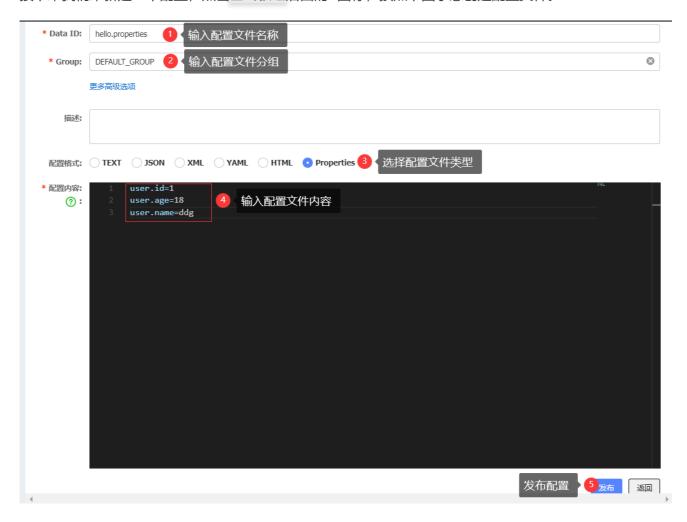
输入

账号: nacos

密码: nacos, 进入管理中心。



接下来我们来新建一个配置,点击查询按钮后面的+图标,按照下图示意创建配置文件。



发布配置后可以看到下面的结果



没有问题后,直接ctrl + c,结束前台启动服务,切换为后台方式启动。

1 docker-compose -f standalone-derby.yaml up -d

启动成功后可以执行下面命令查看启动日志

1 docker logs nacos-standalone

看到下面的结果表示后台启动成功

```
Port: 8848
                                                                Pid: 1
                                                                Console: http://8a93c8a81e8a:8848/nacos/index.html
                                                                     https://nacos.io
2022-07-29 16:30:55,875 INFO Bean 'org.springframework.security.access.expression.method.DefaultMethodSecu
ramework.security.access.expression.method.DefaultMethodSecurityExpressionHandler] is not eligible for get
e: not eligible for auto-proxying)
2022-07-29 16:30:55,882 INFO Bean 'methodSecurityMetadataSource' of type [org.springframework.security.acc
not eligible for getting processed by all BeanPostProcessors (for example: not eligible for auto-proxyin
2022-07-29 16:30:56,331 INFO Tomcat initialized with port(s): 8848 (http)
2022-07-29 16:30:56,871 INFO Root WebApplicationContext: initialization completed in 5735 ms
2022-07-29 16:31:03,556 INFO Initializing ExecutorService 'applicationTaskExecutor'
2022-07-29 16:31:03,828 INFO Adding welcome page: class path resource [static/index.html]
2022-07-29 16:31:04,332 INFO Creating filter chain: Ant [pattern='/**'], []
2022-07-29 16:31:04,376 INFO Creating filter chain: any request, [org.springframework.security.web.contextd3d5, org.springframework.security.web.context.SecurityContextPersistenceFilter@5ec46cdd, org.springframeworg.springframework.security.web.csrf.CsrfFilter@3bdb2c78, org.springframework.security.web.authentication
security.web.savedrequest.RequestCacheAwareFilter@112d1c8e, org.springframework.security.web.servletapi.Se
springframework.security.web.authentication.AnonymousAuthenticationFilter@470a659f, org.springframework.se
org.springframework.security.web.access.ExceptionTranslationFilter@1c758545]
2022-07-29 16:31:04,506 INFO Initializing ExecutorService 'taskScheduler'
2022-07-29 16:31:04,533 INFO Exposing 2 endpoint(s) beneath base path '/actuator'
2022-07-29 16:31:04,689 INFO Tomcat started on port(s): 8848 (http) with context path '/nacos'
2022-07-29 16:31:04,695 INFO Nacos started successfully in stand alone mode. use embedded storage
```

4 常见问题解决参考

1云服务器部署的nacos服务程序无法访问参考下面链接:

https://nacos.io/zh-cn/docs/v2/upgrading/2.0.0-compatibility.html

2 nacos服务重启数据丢失

导致这个问题的可能原因是,你重启nacos服务的时候使用的是下列命令

```
1 docker-compose -f standalone-derby.yaml up -d
```

up指令会重新创建容器,这样就导致数据丢失了。

如果服务器宕机后重启nacos建议使用下列命令。

```
1 | docker-compose -f standalone-derby.yaml start
```

还有一种方式就是将数据持久化到数据库中,关于持久化到数据库中这里不做说明,参考官方对应的服务 编排文件修改即可。