

小米开源监控 Open-Falcon 3.0 部署

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- 原文链接: https://ld246.com/article/1567855718747
- 来源网站:链滴
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一、系统环境准备

目前我这里使用单机版进行部署,也可以前后端进行分离,前端,后端,数据库分别在不同的服务器 进行部署搭建

1、更改主机名

[root@localhost ~]# hostnamectl set-hostname open-falcon

[root@localhost ~]# su

[root@open-falcon ~]#

2、配置阿里源

####备份系统BASE源

[root@open-falcon ~]# mv /etc/yum.repos.d/CentOS-Base.repo /etc/yum.repos.d/CentOS-Ba e.repo.backup

####阿里源####

[root@open-falcon ~]# wget -O /etc/yum.repos.d/CentOS-Base.repo http://mirrors.aliyun.co /repo/Centos-7.repo

####epel源####

[root@open-falcon ~]# wget -O /etc/yum.repos.d/epel.repo http://mirrors.aliyun.com/repo/e

```
el-7.repo
```

####更新缓存####

[root@open-falcon ~]# *yum clean all* [root@open-falcon ~]# yum makecache [root@open-falcon ~]# yum repolist

3、安装基础命令

[root@localhost ~]# yum -y install vim net-tools lrzsz ntp wget get curl rsync git

4、时间同步

[root@open-falcon ~]# systemctl start ntpd [root@open-falcon ~]# systemctl enable ntpd [root@open-falcon ~]# systemctl status ntpd [root@open-falcon ~]# date #检查时间

5、关闭防火墙

[root@open-falcon ~]# systemctl stop firewalld

[root@open-falcon ~]# systemctl disable firewalld

[root@open-falcon ~]# setenforce 0

[root@open-falcon ~]# sed -ri 's/SELINUX=enforcing/SELINUX=disabled/' /etc/selinux/config

二、软件环境准备

1、部署go

注意: 官方yum和阿里yum都没有go的安装包,只能通过fedora的epel仓库来安装

```
#安装
[root@open-falcon ~]# yum install -y epel-release
[root@open-falcon ~]# yum install golang -y
```

#检查 [root@open-falcon ~]# go version go version go1.11.5 linux/amd64

2、部署redis

部署新版redis [root@open-falcon ~]# yum install -y http://rpms.famillecollet.com/enterprise/remi-release-7. pm

#安装 [root@open-falcon ~]# yum --enablerepo=remi install redis

#启动 [root@open-falcon ~]# systemctl start redis

#开机自启

[root@open-falcon ~]# systemctl enable redis Created symlink from /etc/systemd/system/multi-user.target.wants/redis.service to /usr/lib/sy temd/system/redis.service.

```
#检查状态
[root@open-falcon ~]# systemctl status redis
```

3、部署MySQL

yum源为5.5版本,我这里安装5.7版本

3.1: 下载MySQL源

[root@open-falcon ~]# wget https://dev.mysql.com/get/mysql57-community-release-el7-11. oarch.rpm

3.2: 安装 yum Repository

[root@open-falcon ~]# rpm -ivh mysql57-community-release-el7-11.noarch.rpm

3.3: 安装 MySQL 服务端

```
#查看mysql server
[root@open-falcon ~]# yum repolist enabled | grep "mysql.*-community.*"
```

[root@open-falcon ~]# yum repolist all | grep mysql

```
#安装
[root@open-falcon ~]# yum install mysql-community-server
```

3.4: 启动 mysql 服务

```
[root@open-falcon ~]# systemctl start mysqld.service
[root@open-falcon ~]# systemctl enable mysqld.service
[root@open-falcon ~]# systemctl status mysqld.service
```

3.5: 登陆数据库

MySQL5.7.6 之后会在启动 mysql 进程的时候生成一个用户密码,首次登陆需要这个密码才行。密保存在 mysql 进程的日志里,即(/var/log/mysqld.log)

#查看登陆密码

[root@open-falcon ~]# cat /var/log/mysqld.log | grep 'password'

#登陆

[root@open-falcon ~]# mysql -uroot -p

5.6: 修改 root 密码

mysql> show databases; ERROR 1820 (HY000): You must reset your password using ALTER USER statement before exe uting this statement.

以前的 password()函数将会被抛弃, 官方建议使用下面的命令来修改密码 mysql > ALTER USER 'root'@'localhost' IDENTIFIED BY 'new_password';

同时,如果你设置的密码过于简单也会报错。 mysql> ALTER USER 'root'@'localhost' IDENTIFIED BY '123'; ERROR 1819 (HY000): Your password does not satisfy the current policy requirements

解决密码过短问题 mysql> set global validate_password_policy=0;

再次设置密码 mysql> ALTER USER 'root'@'localhost' IDENTIFIED BY '123';

三、部署open-falcon

1、部署后端

1.1:初始化数据库

[root@open-falcon ~]# cd /tmp/ && git clone https://github.com/open-falcon/falcon-plus.gi

[root@open-falcon ~]# cd /tmp/falcon-plus/scripts/mysql/db_schema/ [root@open-falcon ~]# mysql -h 127.0.0.1 -u root -p < 1_uic-db-schema.sql [root@open-falcon ~]# mysql -h 127.0.0.1 -u root -p < 2_portal-db-schema.sql [root@open-falcon ~]# mysql -h 127.0.0.1 -u root -p < 3_dashboard-db-schema.sql [root@open-falcon ~]# mysql -h 127.0.0.1 -u root -p < 4_graph-db-schema.sql [root@open-falcon ~]# mysql -h 127.0.0.1 -u root -p < 5_alarms-db-schema.sql [root@open-falcon ~]# mysql -h 127.0.0.1 -u root -p < 5_alarms-db-schema.sql

1.2: 创建工作目录

[root@open-falcon ~]# vim /etc/profile

export FALCON_HOME=/usr/local/open-falcon

[root@open-falcon ~]# source /etc/profile

[root@open-falcon ~]# mkdir -p \$FALCON_HOME

1.3:程序包下载

|将源码解压到该路径

```
[root@open-falcon ~]# wget https://github.com/open-falcon/falcon-plus/releases/download v0.3/open-falcon-v0.3.tar.gz
```

[root@open-falcon ~]# tar -zxvf open-falcon-v0.3.tar.gz -C \$FALCON_HOME

[root@open-falcon ~]# cd \$FALCON_HOME

1.4: 修改配置文件cfg.json

[root@open-falcon ~]# vim /usr/local/open-falcon/aggregator/config/cfg.json %s#root:#root:passwd#g



[root@open-falcon ~]# vim /usr/local/open-falcon/graph/config/cfg.json

%s#root:#root:passwd#g



[root@open-falcon ~]# vim /usr/local/open-falcon/hbs/config/cfg.json



[root@open-falcon ~]# vim /usr/local/open-falcon/nodata/config/cfg.json



[root@open-falcon ~]# vim /usr/local/open-falcon/api/config/cfg.json



[root@open-falcon ~]# vim /usr/local/open-falcon/alarm/config/cfg.json



1.5: 启动后端

[root@open-falcon ~]# cd \$FALCON_HOME [root@open-falcon open-falcon]# ./open-falcon start

#检查

[root@open-falcon open-falcon]# ./open-falcon check

2、部署前端

1.2: 前端代码下载

[root@open-falcon ~]# cd \$FALCON_HOME [root@open-falcon open-falcon]# git clone https://github.com/open-falcon/dashboard.git

1.3: 安装依赖包

[root@open-falcon open-falcon]# yum install -y python-virtualenv [root@open-falcon open-falcon]# yum install -y python-devel [root@open-falcon open-falcon]# yum install -y openIdap-devel [root@open-falcon open-falcon]# yum install -y mysql-devel [root@open-falcon open-falcon]# yum groupinstall "Development tools" -y

1.6: 查看需要安装的模块

[root@open-falcon dashboard]# cat pip_requirements.txt Flask==1.0 Flask-Babel==0.9 Jinja2>=2.10.1 Werkzeug==0.15.3 gunicorn==19.9.0 python-dateutil==2.2 requests==2.3.0 mysql-python python-ldap 注意: 3.0版本修改Werkzeug==0.15.4 才可以启动

[root@open-falcon dashboard]# vim pip_requirements.txt Werkzeug==0.15.4

1.7:安装模块

[root@open-falcon open-falcon]# cd dashboard/ [root@open-falcon dashboard]# virtualenv ./env [root@open-falcon dashboard]# ./env/bin/pip install -r pip_requirements.txt

1.8:修改配置

配置说明:

dashboard的配置文件为: 'rrd/config.py', 根据实际情况修改:

API ADDR 表示后端api组件的地址

API ADDR = "http://127.0.0.1/api/v1"

根据实际情况,修改PORTAL DB,默认用户名为root,默认密码为""

根据实际情况,修改ALARM DB,默认用户名为root,默认密码为""

[root@open-falcon dashboard]# cp rrd/config.py{,_bak} [root@open-falcon dashboard]# vim rrd/config.py

| 23 | |
|----|---|
| 24 | # Falcon+ API |
| 25 | API_ADDR = os.environ.get("API_ADDR","http://127.0.0.1:18080/api/v1") |
| 6 | API USER = os.environ.get("API USER", "admin") |
| 27 | API PASS = os.environ.get("API PASS", "password") |
| 28 | |
| 9 | # portal database |
| 0 | TODC - read from ani instead of dh |
| 1 | PORTAL DB HOST = os.environ.get("PORTAL DB HOST","127.0.0.1") |
| 2 | PORTAL DB PORT = int(os, environ, get("PORTAL DB PORT", 3306)) |
| 3 | PORTAL DB USER = os environ get("PORTAL DB USER", "falcon") |
| 4 | ORTAL DB PASS = os environ get("PORTAL DB PASS", "falcon") |
| 5 | PORTAL DB NAME = os.environ.get("PORTAL DB NAME", "falcon portal") |
| 6 | A16/2/2019/2019/04. 02/07/2019 (2019/04/09/0 |
| 2 | alarm database |
| 8 | TODO: read from ani instead of db |
| 9 | ALARM DB HOST = os environ get("ALARM DB HOST" "127.0.0.1") |
| a | ALARM DB PORT = int(os environ get("ALARM DB PORT", 3306)) |
| ĭ | ALARM DE LISER = os environ get ("ALARM OF LISER" "rmot") |
| 5 | ALARM DR PASS = os environ get ("ALARM OR PASS", "") |
| | ALARM DE NAME = os environ get("ALARM DE NAME" "Alarme") |
| ۲L | cher of the costent of Beel actual of the start of |
| | 34 |
| | |

1.9: 启动服务

#生产环境启动 [root@open-falcon dashboard]# bash control start

#开发模式启动 [root@open-falcon dashboard]# ./env/bin/python wsgi.py

四、访问网站

默认端口8081 http://ip:8081

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|---------------------|-------------|---------------|----------------------|-----------------------|-------|
| Sign in | | | | | |
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| (2) Map account | | | | | |
| | Sign in | | | | |
| the account? sign a | | | | | |

● 注意: dashbord默认没有创建任何账号包括管理账号, 需要你通过页面进行注册账号

| name | |
|--------------|--|
| password | |
| ldap account | |
| Sign in | |

Falcon+

C special states

| Sign up 全部 | 8填写 |
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| Login Name(a-zA-ZO- | 9): |
| 中文名: | |
| Email: | |
| Password: | |
| Repeat Password: | |
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| has account already? sig | jn in |
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