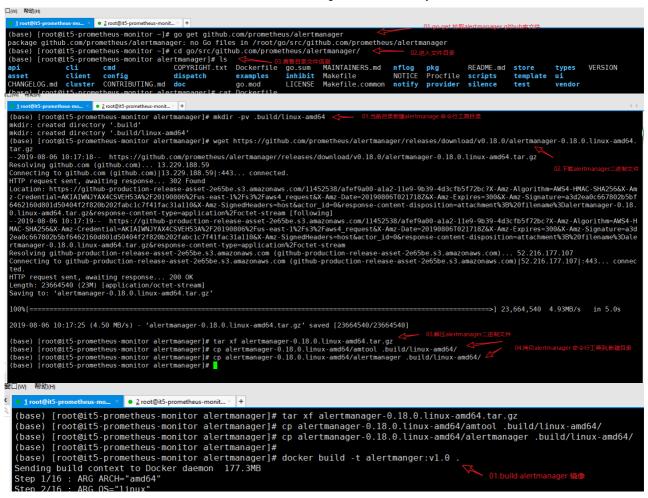# 03.alertmanger部署

一、自建镜像

```
go get github.com/prometheus/alertmanager
cd /root/go/src/github.com/prometheus/alertmanager/

mkdir -pv .build/linux-amd64
cd .build/linux-amd64
wget https://github.com/prometheus/alertmanager/releases/download/v0.18.0/alertmanag
er-0.18.0.linux-amd64.tar.gz
tar xf alertmanager-0.18.0.linux-amd64.tar.gz
cp alertmanager-0.18.0.linux-amd64/amtool .build/linux-amd64/
cp alertmanager-0.18.0.linux-amd64/alertmanager .build/linux-amd64/

docker build -t alertmanger:v1.0 .
```

```
(base) [root@it5-prometheus-monitor ~]# go get github.com/prometheus/alertmanager
package github.com/prometheus/alertmanager: no Go files in /root/go/src/github.com/prometheus/alertmanager
(base) [root@it5-prometheus-monitor ~]# cd go/src/github.com/prometheus/alertmanager/
(base) [root@it5-prometheus-monitor alertmanager]# ls
api          cli        cmd        COPYRIGHT.txt  Dockerfile   go.sum    MAINTAINERS.md   nflog     pkg       README.md    store     types    VERSION
asset        client     config     dispatch       examples     inhibit   Makefile         NOTICE    Procfile  scripts      template  ui
CHANGELOG.md cluster    CONTRIBUTING.md  doc       go.mod       LICENSE   Makefile.common  notify    provider  silence      test      vendor
```
01.go get 拉取alertmanager github库文件
02.进入文件目录
03.查看目录文件信息

```
(base) [root@it5-prometheus-monitor alertmanager]# mkdir -pv .build/linux-amd64
mkdir: created directory '.build'
mkdir: created directory '.build/linux-amd64'
(base) [root@it5-prometheus-monitor alertmanager]# wget https://github.com/prometheus/alertmanager/releases/download/v0.18.0/alertmanager-0.18.0.linux-amd64.
tar.gz
--2019-08-06 10:17:18--  https://github.com/prometheus/alertmanager/releases/download/v0.18.0/alertmanager-0.18.0.linux-amd64.tar.gz
Resolving github.com (github.com)... 13.229.188.59
Connecting to github.com (github.com)|13.229.188.59|:443... connected.
HTTP request sent, awaiting response... 302 Found
Location: https://github-production-release-asset-2e65be.s3.amazonaws.com/11452538/afef9a00-a1a2-11e9-9b39-4d3cfb5f72bc?X-Amz-Algorithm=AWS4-HMAC-SHA256&X-Am
z-Credential=AKIAIWNJYAX4CSVEH53A%2F20190806%2Fus-east-1%2Fs3%2Faws4_request&X-Amz-Date=20190806T021718Z&X-Amz-Expires=300&X-Amz-Signature=a3d2ea0c667802b5bf
6462160d801d50404f2f820b202fabc1c7f41fac31a110&X-Amz-SignedHeaders=host&actor_id=0&response-content-disposition=attachment%3B%20filename%3Dalertmanager-0.18.
0.linux-amd64.tar.gz&response-content-type=application%2Foctet-stream [following]
--2019-08-06 10:17:19--  https://github-production-release-asset-2e65be.s3.amazonaws.com/11452538/afef9a00-a1a2-11e9-9b39-4d3cfb5f72bc?X-Amz-Algorithm=AWS4-H
MAC-SHA256&X-Amz-Credential=AKIAIWNJYAX4CSVEH53A%2F20190806%2Fus-east-1%2Fs3%2Faws4_request&X-Amz-Date=20190806T021718Z&X-Amz-Expires=300&X-Amz-Signature=a3d
2ea0c667802b5bf6462160d801d50404f2f820b202fabc1c7f41fac31a110&X-Amz-SignedHeaders=host&actor_id=0&response-content-disposition=attachment%3B%20filename%3Dale
rtmanager-0.18.0.linux-amd64.tar.gz&response-content-type=application%2Foctet-stream
Resolving github-production-release-asset-2e65be.s3.amazonaws.com (github-production-release-asset-2e65be.s3.amazonaws.com)... 52.216.177.107
Connecting to github-production-release-asset-2e65be.s3.amazonaws.com (github-production-release-asset-2e65be.s3.amazonaws.com)|52.216.177.107|:443... connec
ted.
HTTP request sent, awaiting response... 200 OK
Length: 23664540 (23M) [application/octet-stream]
Saving to: 'alertmanager-0.18.0.linux-amd64.tar.gz'

100%[===================================================================================================>] 23,664,540  4.93MB/s   in 5.0s

2019-08-06 10:17:25 (4.50 MB/s) - 'alertmanager-0.18.0.linux-amd64.tar.gz' saved [23664540/23664540]

(base) [root@it5-prometheus-monitor alertmanager]# tar xf alertmanager-0.18.0.linux-amd64.tar.gz
(base) [root@it5-prometheus-monitor alertmanager]# cp alertmanager-0.18.0.linux-amd64/amtool .build/linux-amd64/
(base) [root@it5-prometheus-monitor alertmanager]# cp alertmanager-0.18.0.linux-amd64/alertmanager .build/linux-amd64/
(base) [root@it5-prometheus-monitor alertmanager]#
```
01.当前目录新建alertmanage 命令行工具目录
02.下载alertmanager二进制文件
03.解压alertmanager二进制文件
04.拷贝alertmanager 命令行工具到,新建目录

```
(base) [root@it5-prometheus-monitor alertmanager]# tar xf alertmanager-0.18.0.linux-amd64.tar.gz
(base) [root@it5-prometheus-monitor alertmanager]# cp alertmanager-0.18.0.linux-amd64/amtool .build/linux-amd64/
(base) [root@it5-prometheus-monitor alertmanager]# cp alertmanager-0.18.0.linux-amd64/alertmanager .build/linux-amd64/
(base) [root@it5-prometheus-monitor alertmanager]# docker build -t alertmanger:v1.0 .
Sending build context to Docker daemon  177.3MB
Step 1/16 : ARG ARCH="amd64"
Step 2/16 : ARG OS="linux"
```
01.build alertmanager 镜像

```
Step 3/16 : FROM quay.io/prometheus/busybox-${OS}-${ARCH}:latest
 ---> a130381627cc
Step 4/16 : LABEL maintainer="The Prometheus Authors <prometheus-developers@googlegroups.com>"
 ---> Using cache
 ---> 63568a50752b
Step 5/16 : ARG ARCH="amd64"
 ---> Using cache
 ---> fcca50f62a11
Step 6/16 : ARG OS="linux"
 ---> Using cache
 ---> 2a4bda1a84bd
Step 7/16 : COPY .build/${OS}-${ARCH}/amtool        /bin/amtool
 ---> 23a644ffdd9d
Step 8/16 : COPY .build/${OS}-${ARCH}/alertmanager /bin/alertmanager
 ---> 3e5fb727a8b8
Step 9/16 : COPY examples/ha/alertmanager.yml        /etc/alertmanager/alertmanager.yml
 ---> e4ddfbcdc554
Step 10/16 : RUN mkdir -p /alertmanager &&      chown -R nobody:nogroup etc/alertmanager /alertmanager
 ---> Running in e2d5ef6f26e2
 ---> f53c408a17c1
Step 14/16 : WORKDIR    /alertmanager
 ---> Running in ca3d417227c9
Removing intermediate container ca3d417227c9
 ---> 1ba4f2bbc58a
Step 15/16 : ENTRYPOINT [ "/bin/alertmanager" ]
 ---> Running in c840df2bc684
Removing intermediate container c840df2bc684
 ---> ef6a14dbb57a
Step 16/16 : CMD        [ "--config.file=/etc/alertmanager/alertmanager.yml",        "--storage.path=/alertmanager" ]
 ---> Running in aa5de35b347c
Removing intermediate container aa5de35b347c
 ---> 3078ec0ba70a                          ← 01.镜像构建完成
Successfully built 3078ec0ba70a
Successfully tagged alertmanager:v1.0
(base) [root@it5-prometheus-monitor alertmanager]# docker images      ← 02.查看alertmanager 新生成的镜像
REPOSITORY                          TAG            IMAGE ID       CREATED          SIZE
alertmanger                         v1.0           3078ec0ba70a   48 seconds ago   51.9MB
prometheus                          v1.0           1b4b785c55e7   14 hours ago     126MB
quay.io/prometheus/busybox-linux-amd64   latest     a130381627cc   3 weeks ago      2.68MB
(base) [root@it5-prometheus-monitor alertmanager]#
```

二、启动镜像

```
mkdir -pv /data/alertmanager/{data,config}
cp examples/ha/alertmanager.yml /data/alertmanager/config/
chmod -R 0777 /data


docker run --name alertmanger-banna -p 9093:9093 -d -v /data/alertmanager/data:/aler
tmanager -v /data/alertmanager/config/alertmanager.yml:/etc/alertmanager/alertmanage
r.yml alertmanger:v1.0
```

窗口(W) 帮助(H)

```
(base) [root@it5-prometheus-monitor alertmanager]# mkdir -pv /data/alertmanager/{data,config}        01.创建alertmanager 本地数据挂载目录
(base) [root@it5-prometheus-monitor alertmanager]# cp examples/ha/alertmanager.yml /data/alertmanager/config/
(base) [root@it5-prometheus-monitor alertmanager]# chmod -R 0777 /data                                02.拷贝alertmanager 配置模板文件到
(base) [root@it5-prometheus-monitor alertmanager]# ls /data/alertmanager/config/                        数据挂载目录下
alertmanager.yml  alertmanager.yml.bak              03.授权数据挂载目录的权限
(base) [root@it5-prometheus-monitor alertmanager]#
```

```
(base) [root@it5-prometheus-monitor alertmanager]# docker run --name alertmanger-banna -p 9093:9093 -d -v /data/alertmanager/data:/alertmanager -v /data/aler
tmanager/config/alertmanager.yml:/etc/alertmanager/alertmanager.yml alertmanger:v1.0
a5bff6e983d7b70ac46512c4ffeca1a0a60642c4c6ebbe1ddc0e0a20f9278717                              01.启动alertmanager 容器
(base) [root@it5-prometheus-monitor alertmanager]# docker ps -a
CONTAINER ID        IMAGE               COMMAND                CREATED             STATUS              PORTS                    NAMES
a5bff6e983d7        alertmanger:v1.0    "/bin/alertmanager -…"  3 seconds ago       Up 2 seconds        0.0.0.0:9093->9093/tcp   alertmanger-banna
7e93c5c0103f        prometheus:v1.0     "/bin/prometheus --c…"  14 hours ago        Up 14 hours                                  prometheus-banna
(base) [root@it5-prometheus-monitor alertmanager]# docker logs --tail 100 -f a5bff6e983d7           02.查看alertmanager容器状态
level=info ts=2019-08-06T02:38:09.858Z caller=main.go:197 msg="Starting Alertmanager" version="(version=0.18.0, branch=HEAD, revision=1ace0f76b7101cccc149d72
98022df36039858ca)"                                                                       03.查看alertmanager 容器日志信息
level=info ts=2019-08-06T02:38:09.858Z caller=main.go:198 build_context="(go=go1.12.6, user=root@868685ed3ed0, date=20190708-14:31:49)"
level=info ts=2019-08-06T02:38:09.859Z caller=cluster.go:161 component=cluster msg="setting advertise address explicitly" addr=172.17.0.2 port=9094
level=info ts=2019-08-06T02:38:09.863Z caller=cluster.go:623 component=cluster msg="Waiting for gossip to settle..." interval=2s
level=info ts=2019-08-06T02:38:09.889Z caller=coordinator.go:119 component=configuration msg="Loading configuration file" file=/etc/alertmanager/alertmanager
.yml
level=info ts=2019-08-06T02:38:09.889Z caller=coordinator.go:131 component=configuration msg="Completed loading of configuration file" file=/etc/alertmanager
/alertmanager.yml
level=info ts=2019-08-06T02:38:09.892Z caller=main.go:429 msg=Listening address=:9093
level=info ts=2019-08-06T02:38:11.864Z caller=cluster.go:648 component=cluster msg="gossip not settled" polls=0 before=0 now=1 elapsed=2.00022376s
level=info ts=2019-08-06T02:38:19.865Z caller=cluster.go:640 component=cluster msg="gossip settled; proceeding" elapsed=10.001210455s
```