

# 日志收集1.0

## 1、概述

所有系统的日志将通过 ElasticSearch + Logstash + Kibana 来收集系统的日志方便查看系统异常问题。

## 2、配置Nginx 日志格式

### Nginx配置

```
# nginx
# log_format
log_format main '{ "@timestamp": "$time_iso8601", '
    '"@server_addr": "$server_addr", '
    '"hostname": "$hostname", '
    '"client": "$remote_addr", '
    '"host": "$host", '
    '"method": "$request_method", '
    '"status": "$status", '
    '"request_time": "$request_time", '
    '"request": "$request", '
    '"sent": "$body_bytes_sent", '
    '"content_len": "$content_length", '
    '"fw_ip": "$http_x_forwarded_for", '
    '"up_addr": "$upstream_addr", '
    '"up_status": "$upstream_status", '
    '"up_conn_time": "$upstream_connect_time", '
    '"up_resp_time": "$upstream_response_time", '
    '"referrer": "$http_referer", '
    '"ua": "$http_user_agent" }';

# nginx
access_log /var/log/nginx/dmp.log main;
```

## 3、安装logstash

[官网安装说明](#)

## 4、配置logstash.conf

### logstash配置

```
input {
  file {
    path => [ "/var/log/nginx/dmp.log" ]
    codec => json
  }
}

filter {
  mutate {
    convert => [ "status","integer" ]
    convert => [ "sent","integer" ]
    convert => [ "content_len","integer" ]
    convert => [ "request_time","float" ]
    convert => [ "up_conn_time","float" ]
    convert => [ "up_resp_time","float" ]
    split => ["fw_ip",",","]
    add_field => ["real_remote_addr","%{fw_ip[0]}"]
    # remove_field => "message"
  }

  geoip {
    source => "real_remote_addr"
    target => "geoip"
    fields => [ "location", "city_name", "country_name", "region_name" ]
  }
}

output {
  elasticsearch {
    hosts => ["ip1:9200","ip2:9200","ip3:9200"]
    index => "logstash-dmp-jingzhi-access-%{+YYYY.MM.dd}"
    template_overwrite => "true"
    manage_template => "true"
  }
}
```

## 5、启动测试:

```
/usr/share/logstash/bin/logstash -f /etc/logstash/conf.d/baijiyun.com
```

(logstash 安装地址 -f 配置文件地址)

注意: 如有多个配置文件在同一台启动, 可以使用 `/usr/share/logstash/bin/logstash -f /etc/logstash/conf.d/*` 来执行。

## 6、持久执行使用supervisord

supervisord :

ubuntu:

```
apt install supervisor
```

```
vim /etc/supervisor/supervisord.conf
```

### supervisord通用配置

```
;supervisor config file
```

```
[unix_http_server]
```

```
file=/var/run/supervisor.sock ; (the path to the socket file)
```

```
chmod=0770 ; sockef file mode (default 0700)
```

```
[supervisord]
```

```
logfile=/var/log/supervisor/supervisord.log ; (main log file;default $CWD  
/supervisord.log)
```

```
pidfile=/var/run/supervisord.pid ; (supervisord pidfile;default  
supervisord.pid)
```

```
childlogdir=/var/log/supervisor ; ('AUTO' child log dir,  
default $TEMP)
```

```
; the below section must remain in the config file for RPC
```

```
; (supervisorctl/web interface) to work, additional interfaces may be
```

```
; added by defining them in separate rpcinterface: sections
```

```
[rpcinterface:supervisor]
```

```
supervisor.rpcinterface_factory = supervisor.rpcinterface:
```

```
make_main_rpcinterface
```

```
[supervisorctl]
```

```
serverurl=unix:///var/run/supervisor.sock ; use a unix:// URL for a unix  
socket
```

```
; The [include] section can just contain the "files" setting. This
```

```
; setting can list multiple files (separated by whitespace or
```

```
; newlines). It can also contain wildcards. The filenames are
```

```
; interpreted as relative to this file. Included files *cannot*
```

```
; include files themselves.
```

```
[include]
```

```
files = /etc/supervisor/conf.d/*.conf
```

增加supervisord配置文件

```
vim /etc/supervisor/conf.d/logstash.conf
```

### supervisord 配置文件

```
[supervisord]
minfds=65536
minprocs=3276
[program:logstash]
autorestart=true ;
;environment=JAVA_HOME=/opt/jdk1.8.0_151/ ;java
user=root
directory=/usr/share/logstash/bin/ ;
command=/usr/share/logstash/bin/logstash -f /etc/logstash/conf.d/* ;
stdout_logfile_maxbytes = 20MB ;
stdout_logfile_backups = 10 ;
stdout_logfile = /opt/logs/logstash.log ;
```

执行命令: `supervisorctl update`

`supervisorctl status logstash` 查看logstash 执行状态

查看9600端口是否执行, logstash 成果启动。

```
root@Test1:/var/log/nginx# lsof -i:9600
COMMAND  PID USER  FD   TYPE    DEVICE  SIZE/OFF  NODE NAME
java     23123 root   88u  IPv4  27008643      0t0  TCP localhost:9600
(LISTEN)
```