**1.安装nginx**

下载nginx-1.10.2.tar.gz

<http://nginx.org/en/download.html>

下载动态upstream模块：ngx\_dynamic\_upstream-master.zip

<https://github.com/cubicdaiya/ngx_dynamic_upstream>

解压下载的文件：nginx-1.10.2.tar.gz ngx\_dynamic\_upstream-master.zip

编译安装nginx，添加ngx\_dynamic\_upstream-master模块

./configure --prefix=/app/nginx --with-http\_stub\_status\_module --without-http\_uwsgi\_module --with-http\_ssl\_module --add-module=../ngx\_dynamic\_upstream-master

make && make install

**2.修改nginx配置**

新增负载后端：

user gelcmw;

worker\_processes 8;

error\_log logs/error.log error;

pid logs/nginx.pid;

worker\_rlimit\_nofile 102400;

events {

use epoll;

worker\_connections 102400;

}

http {

include mime.types;

default\_type application/octet-stream;

#log\_format main '$remote\_addr - $remote\_user [$time\_local] "$request" '

# '$status $body\_bytes\_sent "$http\_referer" '

# '"$http\_user\_agent" "$http\_x\_forwarded\_for"';

access\_log off;

sendfile on;

tcp\_nopush on;

server\_tokens off;

keepalive\_timeout 65;

client\_header\_buffer\_size 4k;

large\_client\_header\_buffers 4 32k;

upstream backend {

zone backend 1m;

ip\_hash;

server 10.163.67.31:8090 max\_fails=2 fail\_timeout=5;

server 10.163.67.32:8090 max\_fails=2 fail\_timeout=5;

server 10.163.67.33:8090 max\_fails=2 fail\_timeout=5;

}

server {

listen 80;

listen 443 ssl default\_server;

server\_name localhost;

#charset koi8-r;

#access\_log logs/host.access.log main;

ssl\_protocols TLSv1 TLSv1.1 TLSv1.2;

ssl\_certificate "/etc/ssl/certs/server.cer";

ssl\_certificate\_key "/etc/ssl/certs/server.key";

ssl\_session\_cache shared:SSL:5m;

ssl\_session\_timeout 5m;

ssl\_ciphers ALL:!ADH:!EXPORT56:RC4+RSA:+HIGH:+MEDIUM:+LOW:+SSLv2:+EXP;

ssl\_prefer\_server\_ciphers on;

location /dynamic {

allow all;

dynamic\_upstream;

}

location / {

proxy\_pass http://backend;

}

}

}

**3.Http API动态操作upstream**

**list:**  curl--insecure **"**https://10.163.67.31/dynamic?upstream=backend"

**verbose:** curl --insecure **"**https://10.163.67.31/dynamic?upstream=backend&verbose="

**update\_parameters:** curl --insecure "https://10.163.67.31/dynamic?upstream=backend&server=10.163.67.31:8090&weight=10&max\_fails=5&fail\_timeout=5"

**down:** curl --insecure "https://10.163.67.31/dynamic?upstream=backend&server=10.163.67.31:8090&down="

**up:** curl --insecure "https://10.163.67.31/dynamic?upstream=backend&server=10.163.67.31:8090&up="

**add:** curl--insecure **"**https://10.163.67.31/dynamic?upstream=backend&add=&server=10.163.37.31:8090"

**remove:** curl --insecure "https://10.163.67.31/dynamic?upstream=backend&remove=&server=10.163.37.31:8080"