**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 --with-poll\_module --with-pcre --with-http\_ssl\_module --with-http\_gunzip\_module --with-http\_upstream\_ip\_hash\_module --with-http\_gzip\_static\_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 2;

error\_log logs/error.log;

pid logs/nginx.pid;

events {

use epoll;

worker\_connections 4096;

}

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 logs/access.log main;

sendfile on;

tcp\_nopush on;

keepalive\_timeout 65;

gzip on;

types\_hash\_max\_size 2048;

upstream backend {

zone backend 1m;

ip\_hash;

server 10.163.67.31:8090;

server 10.163.67.32:8090;

server 10.163.67.33:8090;

}

server {

listen 80;

listen 443 ssl;

server\_name localhost;

ssl\_protocols TLSv1 TLSv1.1 TLSv1.2; #https协议支持

ssl\_certificate "/app/nginx/ssl/sales.evergrandelife.com.cn.crt";

ssl\_certificate\_key "/app/nginx/ssl/sales.key";

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

ssl\_session\_timeout 5m;

ssl\_ciphers HIGH:!aNULL:!MD5;

ssl\_prefer\_server\_ciphers on;

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

location /dynamic {

allow 192.168.17.37; #允许动态修改upstream节点状态的ip地址

deny all;

dynamic\_upstream; #动态

}

location / {

proxy\_pass http://backend;

proxy\_set\_header Host $http\_host;

proxy\_set\_header X-Real-IP $remote\_addr;

proxy\_set\_header X-Forwarded-For $proxy\_add\_x\_forwarded\_for;

proxy\_set\_header X-Forwarded-Proto $scheme;

}

}

}

**3.Http API动态操作upstream**

**list:**  curl **"**http://10.163.67.38/dynamic?upstream=backend"

**verbose: curl "**http://10.163.67.38/dynamic?upstream=backend&verbose="

**update\_parameters:** curl "http://10.163.67.38/dynamic?upstream=backend&server=10.163.67.31:8090&weight=10&max\_fails=5&fail\_timeout=5"

**down:** curl "http://10.163.67.38/dynamic?upstream=backend&server=10.163.67.31:8090&down="

**up:** curl "http://10.163.67.38/dynamic?upstream=backend&server=10.163.67.31:8090&up="

**add:** curl **"**http://10.163.67.38/dynamic?upstream=backend&add=&server=10.163.37.31:8090"

**remove:** curl "http://10.163.67.38/dynamic?upstream=backend&remove=&server=10.163.37.31:8080"