只为成功找方法，不为失败找借口！

一.下载Nginx

从Nginx的官网（http://nginx.org/en/download.html）下载Nginx的最新版本，这里我下载的是nginx-1.9.12。

下载完成后，得到一个如下图所示的压缩包
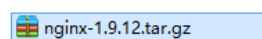
上传nginx的tar包到Linux服务器上，如下图所示：

二.安装Nginx

2.1.安装前提

在安装Nginx前，需要确保系统安装了g++,gcc， openssl-devel、pcre-devel和zlib-devel软件。

1. # yum groupinstall "Development tools"（好像是安装所需的第三方库）

1.安装必须软件：yum -y install zlib zlib-devel openssl openssl--devel pcre pcre-devel

安装过程如下图所示：

```
[root@VM_35_135_centos Software]# yum  -y install zlib zlib-devel openssl openssl--devel pcre pcre-devel
Loaded plugins: fastestmirror, security
Setting up Install Process
Loading mirror speeds from cached hostfile
Package zlib-1.2.3-29.el6.x86_64 already installed and latest version
No package openssl--devel available.
Resolving Dependencies
--> Running transaction check
---> Package openssl.x86_64 0:1.0.1e-30.el6 will be updated
---> Package openssl.x86_64 0:1.0.1e-42.el6_7.2 will be an update
---> Package pcre.x86_64 0:7.8-6.el6 will be updated
---> Package pcre.x86_64 0:7.8-7.el6 will be an update
---> Package pcre-devel.x86_64 0:7.8-7.el6 will be installed
---> Package zlib-devel.x86_64 0:1.2.3-29.el6 will be installed
--> Finished Dependency Resolution

Dependencies Resolved

================================================================================
 Package              Arch           Version                Repository     Size
================================================================================
Installing:
 pcre-devel           x86_64         7.8-7.el6              os            320 k
 zlib-devel           x86_64         1.2.3-29.el6          os             44 k
Updating:
 openssl              x86_64         1.0.1e-42.el6_7.2     updates        1.5 M
 pcre                 x86_64         7.8-7.el6             os            196 k

Transaction Summary
================================================================================
Install     2 Package(s)
Upgrade     2 Package(s)
```

```
Total download size: 2.1 M
Downloading Packages:
(1/4): openssl-1.0.1e-42.el6_7.2.x86_64.rpm                 | 1.5 MB     00:00
(2/4): pcre-7.8-7.el6.x86_64.rpm                            | 196 kB     00:00
(3/4): pcre-devel-7.8-7.el6.x86_64.rpm                      | 320 kB     00:00
(4/4): zlib-devel-1.2.3-29.el6.x86_64.rpm                   |  44 kB     00:00
--------------------------------------------------------------------------------
Total                                            3.5 MB/s | 2.1 MB     00:00
Running rpm_check_debug
Running Transaction Test
Transaction Test Succeeded
Running Transaction
  Updating   : pcre-7.8-7.el6.x86_64                                       1/6
  Installing : pcre-devel-7.8-7.el6.x86_64                                 2/6
  Installing : zlib-devel-1.2.3-29.el6.x86_64                              3/6
  Updating   : openssl-1.0.1e-42.el6_7.2.x86_64                            4/6
  Cleanup    : openssl-1.0.1e-30.el6.x86_64                                5/6
  Cleanup    : pcre-7.8-6.el6.x86_64                                       6/6
  Verifying  : pcre-7.8-7.el6.x86_64                                       1/6
  Verifying  : openssl-1.0.1e-42.el6_7.2.x86_64                            2/6
  Verifying  : zlib-devel-1.2.3-29.el6.x86_64                              3/6
  Verifying  : pcre-devel-7.8-7.el6.x86_64                                 4/6
  Verifying  : openssl-1.0.1e-30.el6.x86_64                                5/6
  Verifying  : pcre-7.8-6.el6.x86_64                                       6/6

Installed:
  pcre-devel.x86_64 0:7.8-7.el6                 zlib-devel.x86_64 0:1.2.3-29.el6

Updated:
  openssl.x86_64 0:1.0.1e-42.el6_7.2               pcre.x86_64 0:7.8-7.el6

Complete!
[root@VM_35_135_centos Software]# []
```

2.2.安装Nginx的依赖包：yum install GeoIP gd libXpm libxslt

安装过程如下图所示：

```
[root@VM_35_135 centos Software]# yum install GeoIP gd libXpm libxslt
Loaded plugins: fastestmirror, security
Setting up Install Process
Loading mirror speeds from cached hostfile
Package libXpm-3.5.10-2.el6.x86_64 already installed and latest version
Package libxslt-1.1.26-2.el6_3.1.x86_64 already installed and latest version
Resolving Dependencies
--> Running transaction check
---> Package GeoIP.x86_64 0:1.6.5-1.el6 will be installed
--> Processing Dependency: geoipupdate for package: GeoIP-1.6.5-1.el6.x86_64
--> Processing Dependency: GeoIP-data for package: GeoIP-1.6.5-1.el6.x86_64
---> Package gd.x86_64 0:2.0.35-11.el6 will be installed
--> Running transaction check
---> Package GeoIP-GeoLite-data.noarch 0:2015.12-1.el6 will be installed
--> Processing Dependency: GeoIP-GeoLite-data-extra = 2015.12-1.el6 for package: GeoIP-GeoLite-data-2015.12-1.el6.noarch
---> Package geoipupdate.x86_64 0:2.2.1-2.el6 will be installed
--> Running transaction check
---> Package GeoIP-GeoLite-data-extra.noarch 0:2015.12-1.el6 will be installed
--> Finished Dependency Resolution

Dependencies Resolved

================================================================================
 Package                    Arch         Version              Repository    Size
================================================================================
Installing:
 GeoIP                      x86_64       1.6.5-1.el6          epel         113 k
 gd                         x86_64       2.0.35-11.el6        os           142 k
Installing for dependencies:
 GeoIP-GeoLite-data         noarch       2015.12-1.el6        epel         363 k
 GeoIP-GeoLite-data-extra   noarch       2015.12-1.el6        epel          23 M
 geoipupdate                x86_64       2.2.1-2.el6          epel          28 k
```

```
Installed_size: 49 M
Is this ok [y/N]: y            ←── 输入y
Downloading Packages:
(1/5): GeoIP-1.6.5-1.el6.x86_64.rpm                              | 113 kB     00:00
(2/5): GeoIP-GeoLite-data-2015.12-1.el6.noarch.rpm              | 363 kB     00:00
(3/5): GeoIP-GeoLite-data-extra-2015.12-1.el6.noarch.rpm        |  23 MB     00:00
(4/5): gd-2.0.35-11.el6.x86_64.rpm                              | 142 kB     00:00
(5/5): geoipupdate-2.2.1-2.el6.x86_64.rpm                       |  28 kB     00:00
--------------------------------------------------------------------------------
Total                                                    19 MB/s |  24 MB     00:01
Running rpm_check_debug
Running Transaction Test
Transaction Test Succeeded
Running Transaction
  Installing : GeoIP-GeoLite-data-2015.12-1.el6.noarch                        1/5
  Installing : GeoIP-GeoLite-data-extra-2015.12-1.el6.noarch                  2/5
  Installing : geoipupdate-2.2.1-2.el6.x86_64                                 3/5
  Installing : GeoIP-1.6.5-1.el6.x86_64                                       4/5
  Installing : gd-2.0.35-11.el6.x86_64                                        5/5
  Verifying  : GeoIP-GeoLite-data-extra-2015.12-1.el6.noarch                  1/5
  Verifying  : geoipupdate-2.2.1-2.el6.x86_64                                 2/5
  Verifying  : GeoIP-GeoLite-data-2015.12-1.el6.noarch                        3/5
  Verifying  : GeoIP-1.6.5-1.el6.x86_64                                       4/5
  Verifying  : gd-2.0.35-11.el6.x86_64                                        5/5

Installed:
  GeoIP.x86_64 0:1.6.5-1.el6                          gd.x86_64 0:2.0.35-11.el6

Dependency Installed:
  GeoIP-GeoLite-data.noarch 0:2015.12-1.el6    GeoIP-GeoLite-data-extra.noarch 0:2015.12-1.el6    geoipupdate.x86_64 0:2.2.1-2.el6

Complete!
[root@VM_35_135 centos Software]#
```

2.2.解压安装Nginx

进入Nginx的安装包的所在目录解压Nginx压缩包，如下图所示：

```
[root@VM_35_135_centos Software]# ls
Java  maven_nexus  nexus  nginx-1.9.12.tar.gz
[root@VM_35_135_centos Software]# tar -zxvf nginx-1.9.12.tar.gz
```
　　　　　　　　　　解压nginx压缩包 ↗

```
nginx-1.9.12/auto/lib/geoip/conf
nginx-1.9.12/auto/cc/clang
nginx-1.9.12/auto/cc/acc
nginx-1.9.12/auto/cc/bcc
nginx-1.9.12/auto/cc/ccc
nginx-1.9.12/auto/cc/conf
nginx-1.9.12/auto/cc/gcc
nginx-1.9.12/auto/cc/icc
nginx-1.9.12/auto/cc/msvc
nginx-1.9.12/auto/cc/name
nginx-1.9.12/auto/cc/owc
nginx-1.9.12/auto/cc/sunc                     解压完成
[root@VM_35_135_centos Software]# ls               ↙
Java  maven_nexus  nexus  nginx-1.9.12  nginx-1.9.12.tar.gz
[root@VM_35_135_centos Software]#
```

解压完成，多了一个nginx-1.9.12目录，进入nginx-1.9.12目录查看里面的内容，如下所示：

```
[root@VM_35_135_centos Software]# cd nginx-1.9.12
[root@VM_35_135_centos nginx-1.9.12]# ls
CHANGES  CHANGES.ru  LICENSE  README  auto  conf  configure  contrib  html  man  src
[root@VM_35_135_centos nginx-1.9.12]#
```

源码的安装一般由3个步骤组成：配置(configure)、编译(make)、安装(make install)

1. 执行./configure

```
[root@VM_35_135_centos nginx-1.9.12]# ./configure
checking for OS
 + Linux 2.6.32-504.el6.x86_64 x86_64
checking for C compiler ... found
 + using GNU C compiler
 + gcc version: 4.4.7 20120313 (Red Hat 4.4.7-16) (GCC)
checking for gcc -pipe switch ... found
checking for -Wl,-E switch ... found
checking for gcc builtin atomic operations ... found
checking for C99 variadic macros ... found
checking for gcc variadic macros ... found
checking for gcc builtin 64 bit byteswap ... found
checking for unistd.h ... found
checking for inttypes.h ... found
checking for limits.h ... found
```
执行命令

```
  nginx path prefix: "/usr/local/nginx"
  nginx binary file: "/usr/local/nginx/sbin/nginx"
  nginx modules path: "/usr/local/nginx/modules"
  nginx configuration prefix: "/usr/local/nginx/conf"
  nginx configuration file: "/usr/local/nginx/conf/nginx.conf"
  nginx pid file: "/usr/local/nginx/logs/nginx.pid"
  nginx error log file: "/usr/local/nginx/logs/error.log"
  nginx http access log file: "/usr/local/nginx/logs/access.log"
  nginx http client request body temporary files: "client_body_temp"
  nginx http proxy temporary files: "proxy_temp"
  nginx http fastcgi temporary files: "fastcgi_temp"
  nginx http uwsgi temporary files: "uwsgi_temp"
  nginx http scgi temporary files: "scgi_temp"

[root@VM_35_135_centos nginx-1.9.12]#
```

./configure命令执行成功

2.执行make操作，如下图所示：

```
[root@VM_35_135_centos nginx-1.9.12]# make
make -f objs/Makefile
make[1]: Entering directory `/mydata/Software/nginx-1.9.12'
cc -c -pipe  -O -W -Wall -Wpointer-arith -Wno-unused-parameter -Werror -g  -I src/core -I src/event -I src/
event/modules -I src/os/unix -I objs \
                -o objs/src/core/nginx.o \
                src/core/nginx.c
cc -c -pipe  -O -W -Wall -Wpointer-arith -Wno-unused-parameter -Werror -g  -I src/core -I src/event -I src/
event/modules -I src/os/unix -I objs \
                -o objs/src/core/ngx_log.o \
                src/core/ngx_log.c
cc -c -pipe  -O -W -Wall -Wpointer-arith -Wno-unused-parameter -Werror -g  -I src/core -I src/event -I src/
event/modules -I src/os/unix -I objs \
                -o objs/src/core/ngx_palloc.o \
                src/core/ngx_palloc.c
```
执行make操作

```
        objs/src/http/modules/ngx_http_upstream_hash_module.o \
        objs/src/http/modules/ngx_http_upstream_ip_hash_module.o \
        objs/src/http/modules/ngx_http_upstream_least_conn_module.o \
        objs/src/http/modules/ngx_http_upstream_keepalive_module.o \
        objs/src/http/modules/ngx_http_upstream_zone_module.o \
        objs/ngx_modules.o \
        -ldl -lpthread -lcrypt -lpcre -lz \
        -Wl,-E
sed -e "s|%%PREFIX%%|/usr/local/nginx|" \
            -e "s|%%PID_PATH%%|/usr/local/nginx/logs/nginx.pid|" \
            -e "s|%%CONF_PATH%%|/usr/local/nginx/conf/nginx.conf|" \
            -e "s|%%ERROR_LOG_PATH%%|/usr/local/nginx/logs/error.log|" \
            < man/nginx.8 > objs/nginx.8
make[1]: Leaving directory `/mydata/Software/nginx-1.9.12'
[root@VM_35_135_centos nginx-1.9.12]#
```

make操作执行完成.

3.执行make install命令进行安装.

2.3.验证安装Nginx是否成功

1.查看nginx安装路径（whereis nginx）

```
[root@VM_35_135_centos nginx-1.9.12]# whereis nginx
nginx: /usr/local/nginx
```

2.启动Nginx

```
[root@VM_35_135_centos nginx-1.9.12]# whereis nginx
nginx: /usr/local/nginx
[root@VM_35_135_centos nginx-1.9.12]# /usr/local/nginx/sbin/nginx
[root@VM_35_135_centos nginx-1.9.12]#
```
查看nginx的安装路径
启动nginx

在浏览器中输入http://centos服务器IP访问Nginx，如我的服务器IP地址是：115.159.95.35，输入http://115.159.95.35/访问安装好的Nginx，访问结果如下图所示：

能够正常看到Nginx的欢迎页，就说明Nginx已经安装成功了。