制作nginx的RPM包

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本案例使用nginx-1.12.2版本的源码软件，生成对应的RPM包软件，具体要求如下：

软件名称为nginx

软件版本为1.12.2

RPM软件包可以查询描述信息

RPM软件包可以安装及卸载

安装rpm-build软件包，编写SPEC配置文件，创建新的RPM软件包。

配置文件中的描述信息如表-2：



1）安装rpm-build软件包

[root@web1 ~]# yum -y install rpm-build

2）生成rpmbuild目录结构

[root@web1 ~]# rpmbuild -ba nginx.spec //会报错，没有文件或目录,自动生成的目录结构

[root@web1 ~]# ls /root/rpmbuild

BUILD BUILDROOT RPMS SOURCES SPECS SRPMS

//SOURCES:存放源码包 RPMS:存放制作成功后的rpm包

SPECS:空目录,需要在该目录下创建\*.spec结尾的文件,用来制作rpm包

3）准备工作，将源码软件复制到SOURCES目录

[root@web1 ~]# cp nginx-1.12.2.tar.gz /root/rpmbuild/SOURCES/

重点:

4）创建并修改SPEC配置文件

[root@web1 ~]# vim /root/rpmbuild/SPECS/nginx.spec

Name:nginx //对应SOURCES下的源码包

Version:1.12.2 //对应SOURCES下的源码包

Release: 10 //第几次制作rpm包.随意

Summary: Nginx is a web server software. //制作rpm概述.随意

#Group: //组包.注释掉

License:GPL //GPL协议.代表任意复制.任意修改.任意发布(可随意)

URL: www.test.com

Source0:nginx-1.12.2.tar.gz //与SOURCES下的源码包必须对应

#BuildRequires: //注释掉.提示依赖.不会自动解决

#Requires: //注释掉.提示依赖.不会自动解决

%description //详细描述

nginx [engine x] is an HTTP and reverse proxy server.

%post //自己手动输入.%post为安装后输入脚本

useradd nginx //非必需操作：安装后脚本(创建账户)

%prep

%setup –q //自动解压源码包，并cd进入目录,对应SOURCES下的源码包

%build

./configure //后面加自己相加的模块.如--with-http\_ssl\_module

make %{?\_smp\_mflags}

%install

make install DESTDIR=%{buildroot}

%files //想把那些文件打包

%doc

/usr/local/nginx/\* //对哪些文件与目录打包

%changelog

使用配置文件创建RPM包

安装依赖软件包

[root@web1 ~]# yum -y install gcc pcre-devel openssl-devel

rpmbuild创建RPM软件包

[root@web1 ~]# rpmbuild -ba /root/rpmbuild/SPECS/nginx.spec

//创建rpm包

[root@web1 ~]# ls /root/rpmbuild/RPMS/x86\_64/nginx-1.12.2-10.x86\_64.rpm

[root@web1 ~]# rpm -qpi RPMS/x86\_64/nginx-1.12.2-10.x86\_64.rpm

Name : nginx Relocations: (not relocatable)

Version : 1.12.2 Vendor: (none)

Release : 10 Build Date: Mon 02 May 2016 02:30:53 AM PDT

Install Date: (not installed) Build Host: localhost

Group : Applications/Internet Source RPM: nginx-1.8.0-1.src.rpm

Size : 721243 License: GPL

Signature : (none)

URL : www.nginx.org

Summary : Nginx is a web server software.

Description :

nginx [engine x] is an HTTP and reverse proxy server.

[root@web1 ~]# rpm -qpl nginx-1.12.2-10.x86\_64.rpm //检查

/usr

/usr/local

/usr/local/nginx

/usr/local/nginx/conf

/usr/local/nginx/conf/fastcgi.conf

/usr/local/nginx/conf/fastcgi.conf.default

/usr/local/nginx/conf/fastcgi\_params

/usr/local/nginx/conf/fastcgi\_params.default

/usr/local/nginx/conf/koi-utf

/usr/local/nginx/conf/koi-win

/usr/local/nginx/conf/mime.types

/usr/local/nginx/conf/mime.types.default

/usr/local/nginx/conf/nginx.conf

/usr/local/nginx/conf/nginx.conf.default

/usr/local/nginx/conf/scgi\_params

/usr/local/nginx/conf/scgi\_params.default

/usr/local/nginx/conf/uwsgi\_params

/usr/local/nginx/conf/uwsgi\_params.default

/usr/local/nginx/conf/win-utf

/usr/local/nginx/html

/usr/local/nginx/html/50x.html

/usr/local/nginx/html/index.html

/usr/local/nginx/logs

/usr/local/nginx/sbin

/usr/local/nginx/sbin/nginx

安装、卸载软件

[root@web1 ~]# rpm -ivh RPMS/x86\_64/nginx-1.12.2-10.x86\_64.rpm

[root@web1 ~]# rpm -qa |grep nginx

[root@web1 ~]# /usr/local/nginx/sbin/nginx

[root@web1 ~]# curl http://127.0.0.1/

注:

 RPMS/x86\_64/nginx-1.12.2-10.x86\_64.rpm为正常包,\*-debuginfo-\*表示调试包,没啥用