

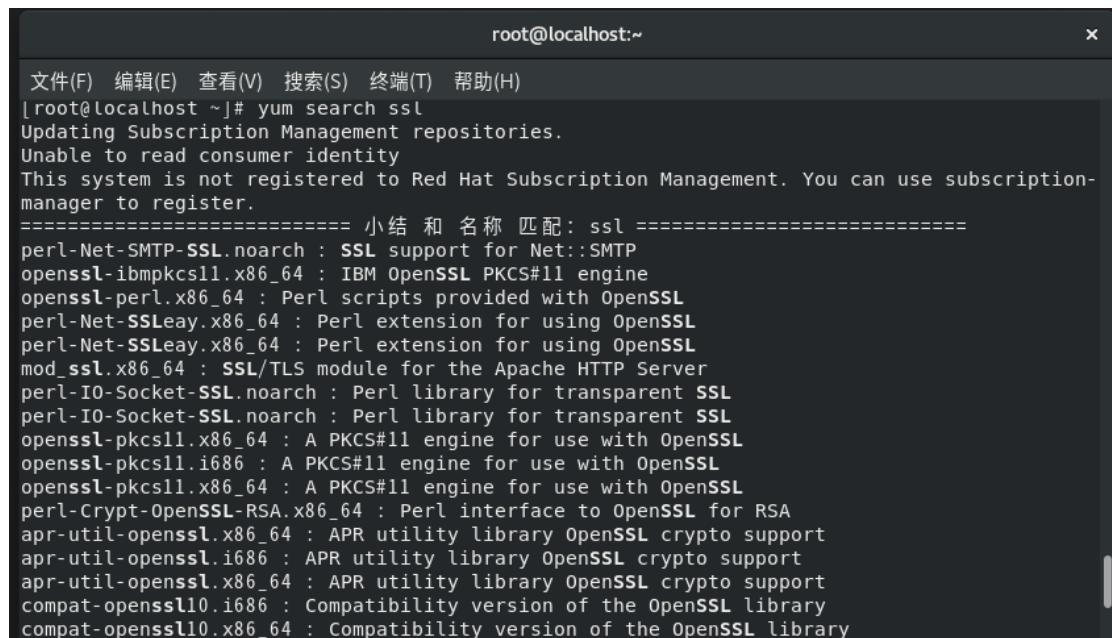
## 项目 2-拓展资料

### 创建基于 TLS 加密的虚拟主机（用 https 访问网站）

操作步骤：

1 查找有关 TLS 的 ssl 软件并安装

```
[root@www ~]# yum search ssl
```



```
root@localhost:~  
文件(F) 编辑(E) 查看(V) 搜索(S) 终端(T) 帮助(H)  
[root@localhost ~]# yum search ssl  
Updating Subscription Management repositories.  
Unable to read consumer identity  
This system is not registered to Red Hat Subscription Management. You can use subscription-  
manager to register.  
===== 小结 和 名称 匹配: ssl =====  
perl-Net-SMTP-SSL.noarch : SSL support for Net::SMTP  
openssl-ibmpkcs11.x86_64 : IBM OpenSSL PKCS#11 engine  
openssl-perl.x86_64 : Perl scripts provided with OpenSSL  
perl-Net-SSLeay.x86_64 : Perl extension for using OpenSSL  
perl-Net-SSLeay.x86_64 : Perl extension for using OpenSSL  
mod_ssl.x86_64 : SSL/TLS module for the Apache HTTP Server  
perl-IIO-Socket-SSL.noarch : Perl library for transparent SSL  
perl-IIO-Socket-SSL.noarch : Perl library for transparent SSL  
openssl-pkcs11.x86_64 : A PKCS#11 engine for use with OpenSSL  
openssl-pkcs11.i686 : A PKCS#11 engine for use with OpenSSL  
openssl-pkcs11.x86_64 : A PKCS#11 engine for use with OpenSSL  
perl-Crypt-OpenSSL-RSA.x86_64 : Perl interface to OpenSSL for RSA  
apr-util-openssl.x86_64 : APR utility library OpenSSL crypto support  
apr-util-openssl.i686 : APR utility library OpenSSL crypto support  
apr-util-openssl.x86_64 : APR utility library OpenSSL crypto support  
compat-openssl10.i686 : Compatibility version of the OpenSSL library  
compat-openssl10.x86_64 : Compatibility version of the OpenSSL library
```

mod\_ssl.x86\_64 : SSL/TLS module for the Apache HTTP Server

<需要安装这个安装包>

```
[root@www ~]# yum -y install mod_ssl.x86_64
```

```
root@localhost:~  
文件(F) 编辑(E) 查看(V) 搜索(S) 终端(T) 帮助(H)  
事务概要  
=====  
安装 1 软件包  
总计: 129 k  
安装大小: 268 k  
下载软件包:  
运行事务检查  
事务检查成功。  
运行事务测试  
事务测试成功。  
运行事务  
准备中 :  
Installing : mod_ssl-1:2.4.37-10.module+el8+2764+7127e69e.x86_64  
运行脚本 : mod_ssl-1:2.4.37-10.module+el8+2764+7127e69e.x86_64  
验证 : mod_ssl-1:2.4.37-10.module+el8+2764+7127e69e.x86_64  
Installed products updated.  
已安装:  
mod_ssl-1:2.4.37-10.module+el8+2764+7127e69e.x86_64  
完毕!  
[root@localhost ~]#
```

```
[root@www ~]# cd /etc/httpd/
```

```
[root@www httpd]# ls
```

```
conf conf.d conf.modules.d logs modules run state
```

```
[root@www httpd]# cd conf.d/
```

```
[root@www conf.d]# ls
```

```
autoindex.conf httpd-vhosts.conf README ssl.conf
```

```
userdir.conf welcome.conf
```

```
[root@localhost ~]# cd /etc/httpd/  
[root@localhost httpd]# ls  
conf conf.d conf.modules.d logs modules run state  
[root@localhost httpd]# cd conf.d/  
[root@localhost conf.d]# ls  
autoindex.conf httpd-vhosts.conf README ssl.conf userdir.conf welcome.conf  
[root@localhost conf.d]# vim ssl.conf CSDN
```

## 2. 编写 ssl 的配置文件

```
[root@www conf.d]# vim ssl.conf
```

```
<VirtualHost *:443>

# General setup for the virtual host, inherited from global
configuration

DocumentRoot "/home/www"    <网页根目录>

ServerName www.example1.com    <主机名>
```

```
root@localhost:/etc/httpd/conf.d

文件(F) 编辑(E) 查看(V) 搜索(S) 终端(T) 帮助(H)
#
SSLCryptoDevice builtin
#SSLCryptoDevice ubsec

##
## SSL Virtual Host Context
##

<VirtualHost *:443>

# General setup for the virtual host, inherited from global configuration
DocumentRoot "/home/www"
ServerName www.example1.com:443

# Use separate log files for the SSL virtual host; note that LogLevel
# is not inherited from httpd.conf.
ErrorLog logs/ssl_error_log
TransferLog logs/ssl_access_log
LogLevel warn

#   SSL Engine Switch:
#   Enable/Disable SSL for this virtual host.
SSLEngine on
-- 插入 --
```

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### 3.启动 httpd 服务

```
[root@localhost ~]# systemctl restart httpd
```

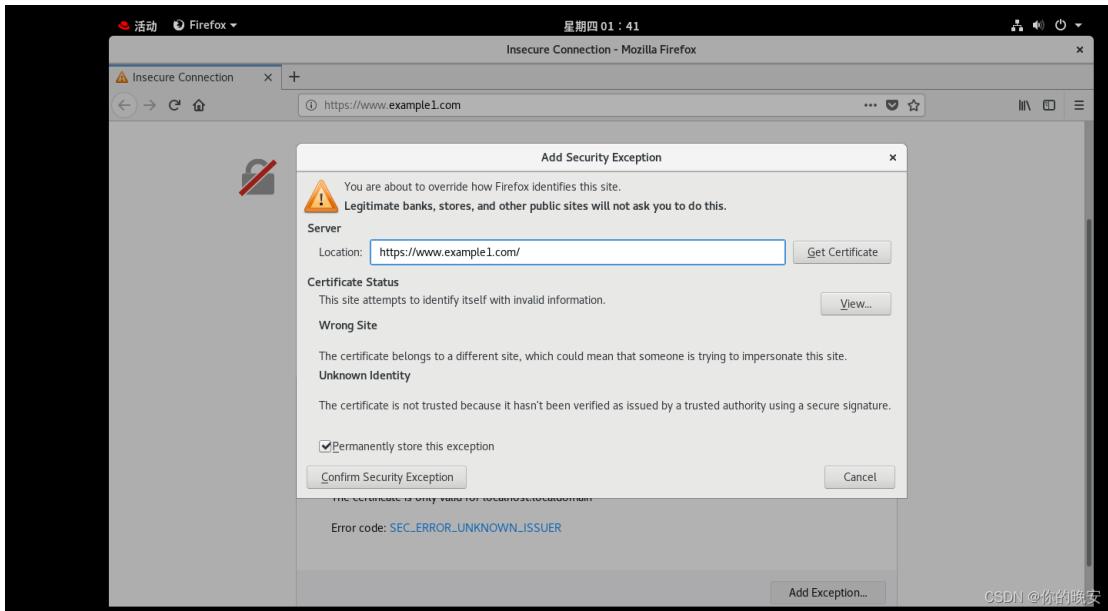
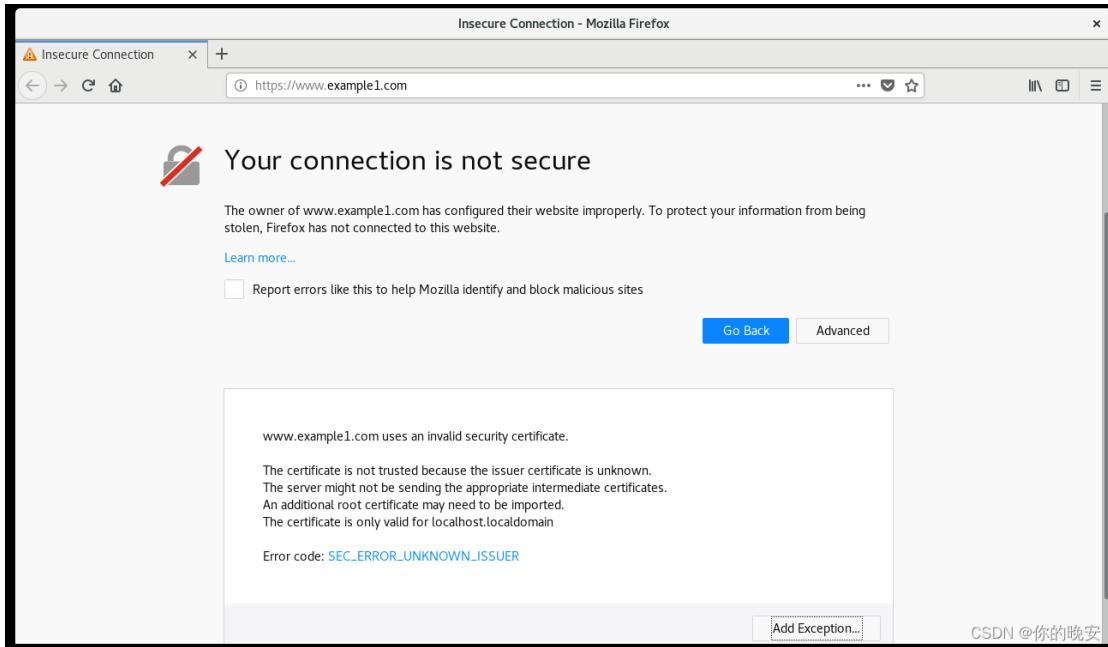
### 4.验证

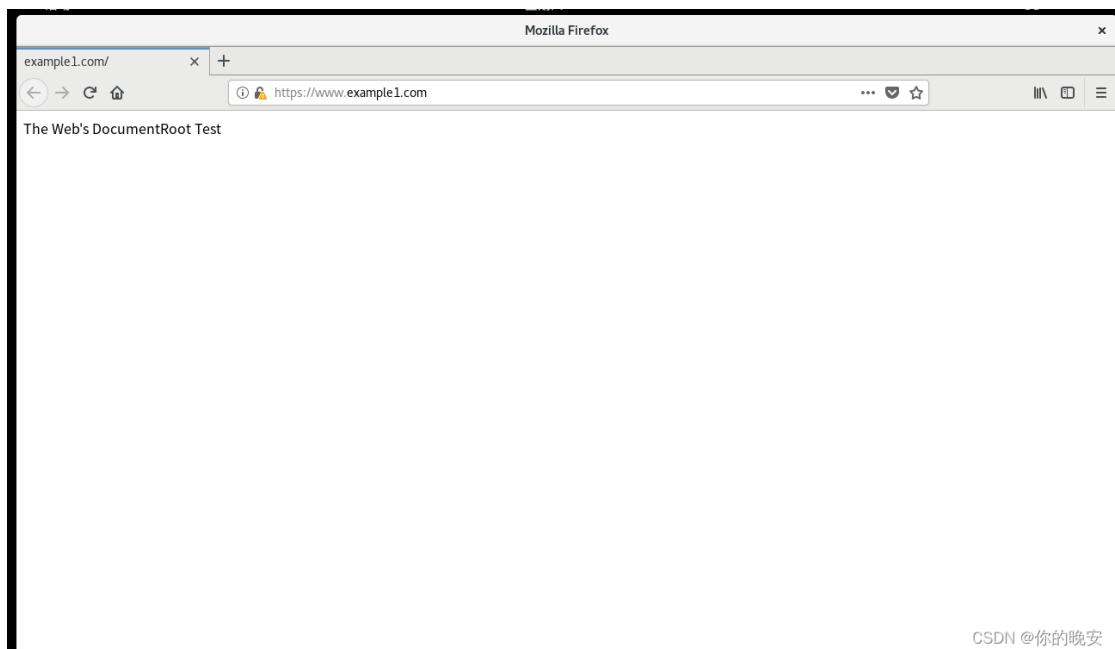
```
[root@localhost ~]# firefox &    <后台运行火狐浏览器>
```

输入: <http://www.example1.com>

点击高级(Advanced), 选择添加安全例外(Add Exception。。),

## 点击确保安全例外（Confirm Security Exception）





CSDN @你的晚安