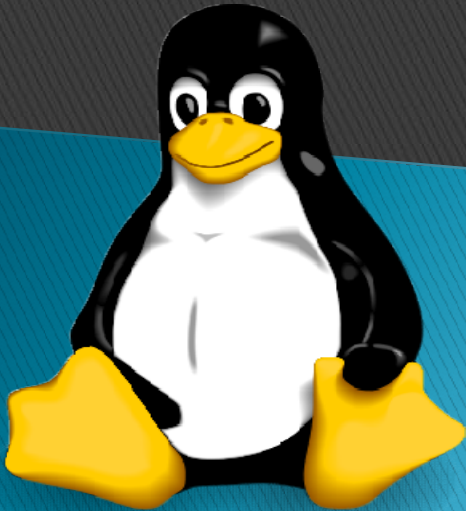


Install and Configure Apache Web Server



Apache http server

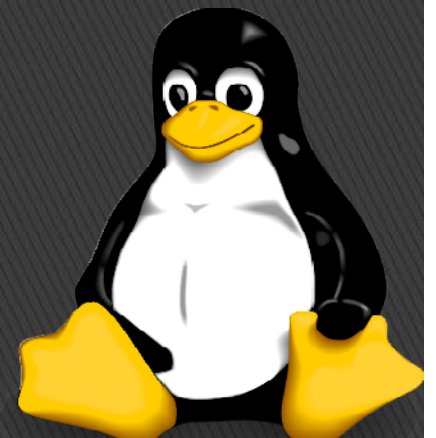
The Apache HTTP Server or simply Apache, is free and open-source cross-platform web server software developed and maintained by Apache Software Foundation.

Apache is a easy to learn and configure web server providing an ability to host websites mainly via HTTP or HTTPS protocols. Under RHEL 8 / CentOS 8 system Apache webserver is know under name httpd.

It use following port number and service:

http = 80

https = 443



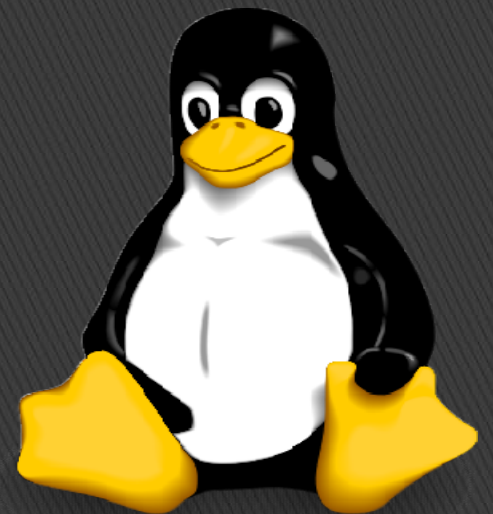
Create https website

The mod_ssl module provides SSL v3 and TLS v1.x support for the Apache HTTP Server.



Install package

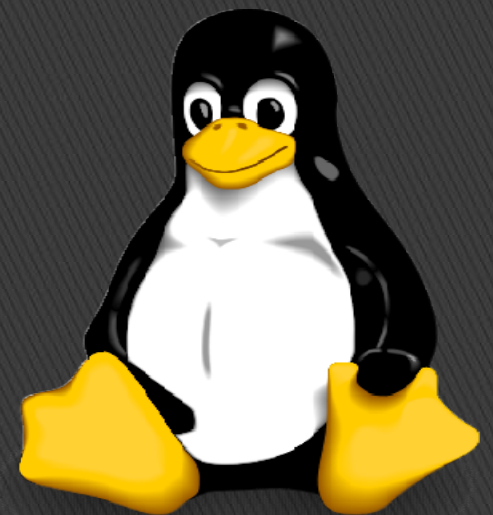
```
#vim httpd* openssl mod_ssl
```



Add record in host file

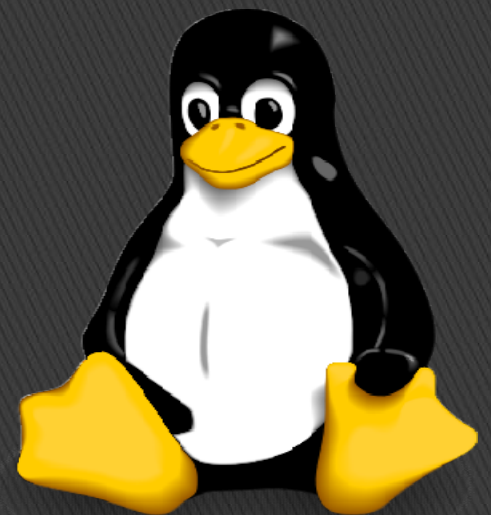
```
#vim /etc/hosts
```

```
192.168.1.10      server1.example.com
```



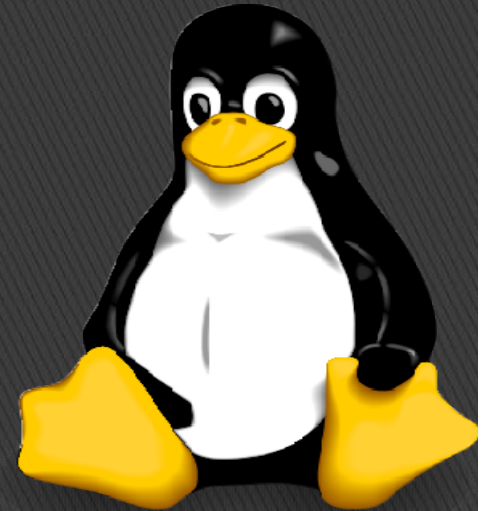
Start & enable Apache webserver

```
# systemctl enable httpd  
# systemctl start httpd
```



Firewall Setup

```
#firewall-cmd --permanent --add-service=http  
#firewall-cmd --permanent --add-service=https  
#firewall-cmd --reload
```



Insert your website files

By default the Apache web server will greet you with a default welcome page.
To disable the default Apache welcome page insert
your **index.html** into **/var/www/html/** directory



Generate SSL Certificate

```
#openssl req -x509 -nodes -days 365 -newkey rsa:2048 -  
keyout server.key -out server.crt
```

```
#ls
```

Copy generated key and crt at default location

```
#cp -rvf server.crt /etc/pki/tls/certs/  
#cp -rvf server.key /etc/pki/tls/private
```



Create default ssl.conf file

```
#vim /etc/httpd/conf.d/ssl.conf
```

```
SSLCertificateFile /etc/pki/tls/certs/server.crt
```

```
SSLCertificateKeyFile /etc/pki/tls/private/server.key
```

```
wq
```



Create Configuration File

```
#vim /etc/httpd/conf.d/httpd.conf
```

```
<VirtualHost *:443>
```

```
SSLEngine on
```

```
SSLCertificateFile /etc/pki/tls/certs/server.crt
```

```
SSLCertificateKeyFile /etc/pki/tls/private/server.key
```

```
ServerName server1.redhat.com
```

```
Documentroot /var/www/html
```

```
</VirtualHost>
```

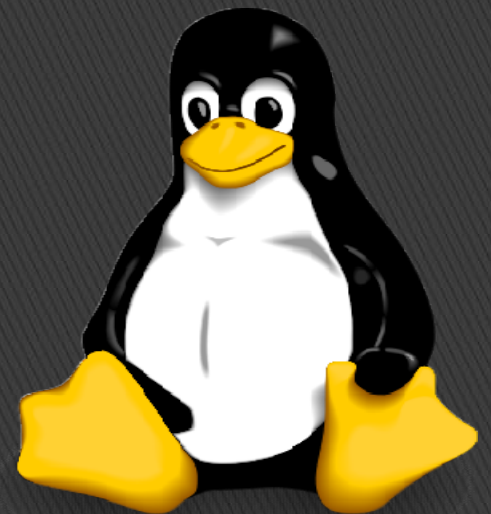
```
:wq
```



Verify and restart service

```
#httpd -t
```

```
#systemctl restart httpd
```



Open Firefox and Verify

<https://192.168.1.10>

<https://server1.redhat.com>



