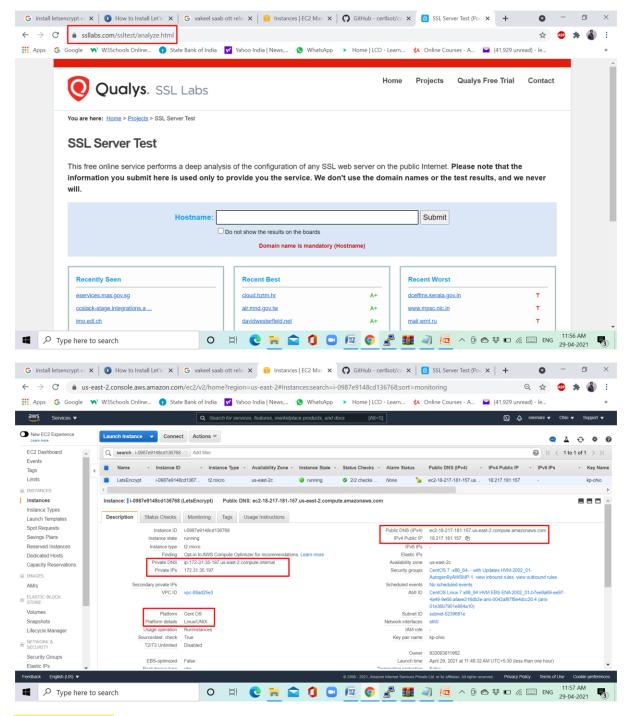
**AWS Project: -13** 

Project Date: - 29.04.2021

Prepared by: - Sarveswara Sarma Nemani

Q:- Create a public web server and hosting with one domain and install letsencrypt or certboot ssl certificate in server (Observation: Must be ping your domain its should be secure i.e https)/ **SSL for ec2-web hosting server**)

Sol:



### Terminal Logs: -

login as: centos

Authenticating with public key "imported-openssh-key"

```
[centos@ip-172-31-35-197 ~]$ sudo -i
[root@ip-172-31-35-197 ~]# yum install httpd -y
Loaded plugins: fastestmirror
Determining fastest mirrors
* base: d36uatko69830t.cloudfront.net
* extras: d36uatko69830t.cloudfront.net
* updates: d36uatko69830t.cloudfront.net
base
                               | 3.6 kB
                                       00:00
                               | 2.9 kB
                                       00:00
extras
                                2.9 kB
updates
                                        00:00
(1/4): base/7/x86_64/group_gz
                                         | 153 kB 00:00
(2/4): extras/7/x86_64/primary_db
                                         | 232 kB 00:00
(3/4): updates/7/x86_64/primary_db
                                         | 7.1 MB 00:00
(4/4): base/7/x86_64/primary_db
                                         | 6.1 MB 00:01
Resolving Dependencies
--> Running transaction check
---> Package httpd.x86_64 0:2.4.6-97.el7.centos will be installed
--> Processing Dependency: httpd-tools = 2.4.6-97.el7.centos for package: httpd-
2.4.6-97.el7.centos.x86 64
--> Processing Dependency: system-logos >= 7.92.1-1 for package: httpd-2.4.6-97.
el7.centos.x86_64
--> Processing Dependency: /etc/mime.types for package: httpd-2.4.6-97.el7.cento
s.x86 64
--> Processing Dependency: libaprutil-1.so.0()(64bit) for package: httpd-2.4.6-9
7.el7.centos.x86_64
--> Processing Dependency: libapr-1.so.0()(64bit) for package: httpd-2.4.6-97.el
7.centos.x86 64
--> Running transaction check
---> Package apr.x86_64 0:1.4.8-7.el7 will be installed
---> Package apr-util.x86_64 0:1.5.2-6.el7 will be installed
---> Package centos-logos.noarch 0:70.0.6-3.el7.centos will be installed
---> Package httpd-tools.x86_64 0:2.4.6-97.el7.centos will be installed
---> Package mailcap.noarch 0:2.1.41-2.el7 will be installed
--> Finished Dependency Resolution
Dependencies Resolved
______
==========
          Arch Version
Package
                                      Repository Size
______
Installing:
            x86_64
                     2.4.6-97.el7.centos
                                                   2.7 M
httpd
                                         updates
Installing for dependencies:
                                               104 k
apr
           x86 64
                    1.4.8-7.el7
                                     base
apr-util
           x86_64
                     1.5.2-6.el7
                                      base
                                                92 k
centos-logos
              noarch 70.0.6-3.el7.centos
                                           base
                                                     21 M
                                                      93 k
httpd-tools
             x86 64
                       2.4.6-97.el7.centos
                                           updates
mailcap
             noarch
                      2.1.41-2.el7
                                                 31 k
                                       base
Transaction Summary
______
```

=========

### Install 1 Package (+5 Dependent packages)

Total download size: 24 M Installed size: 32 M Downloading packages: (1/6): apr-1.4.8-7.el7.x86\_64.rpm

warning: /var/cache/yum/x86\_64/7/base/packages/apr-1.4.8-7.el7.x86\_64.rpm: Heade

r V3 RSA/SHA256 Signature, key ID f4a80eb5: NOKEY Public key for apr-1.4.8-7.el7.x86\_64.rpm is not installed

| 104 kB 00:00 | 92 kB 00:00 (2/6): apr-util-1.5.2-6.el7.x86\_64.rpm (3/6): mailcap-2.1.41-2.el7.noarch.rpm | 31 kB 00:00 Public key for httpd-tools-2.4.6-97.el7.centos.x86\_64.rpm is not installed (4/6): httpd-tools-2.4.6-97.el7.centos.x86\_64.rpm | 93 kB 00:00 | 2.7 MB 00:00 (5/6): httpd-2.4.6-97.el7.centos.x86 64.rpm (6/6): centos-logos-70.0.6-3.el7.centos.noarch.rpm | 21 MB 00:00

Total 25 MB/s | 24 MB 00:00

Retrieving key from file:///etc/pki/rpm-gpg/RPM-GPG-KEY-CentOS-7

Importing GPG key 0xF4A80EB5:

Userid : "CentOS-7 Key (CentOS 7 Official Signing Key) <security@centos.org >"

Fingerprint: 6341 ab27 53d7 8a78 a7c2 7bb1 24c6 a8a7 f4a8 0eb5 Package: centos-release-7-7.1908.0.el7.centos.x86 64 (installed)

From :/etc/pki/rpm-gpg/RPM-GPG-KEY-CentOS-7

Running transaction check Running transaction test Transaction test succeeded

Running transaction

Installing: apr-1.4.8-7.el7.x86\_64 1/6 Installing: apr-util-1.5.2-6.el7.x86\_64 2/6 Installing: httpd-tools-2.4.6-97.el7.centos.x86 64 3/6 Installing: centos-logos-70.0.6-3.el7.centos.noarch 4/6 Installing: mailcap-2.1.41-2.el7.noarch 5/6 Installing: httpd-2.4.6-97.el7.centos.x86\_64 6/6 Verifying: mailcap-2.1.41-2.el7.noarch 1/6 Verifying: apr-1.4.8-7.el7.x86\_64 2/6 Verifying: apr-util-1.5.2-6.el7.x86 64 3/6 Verifying: httpd-2.4.6-97.el7.centos.x86\_64 4/6 Verifying: httpd-tools-2.4.6-97.el7.centos.x86\_64 5/6 Verifying: centos-logos-70.0.6-3.el7.centos.noarch 6/6

#### Installed:

httpd.x86\_64 0:2.4.6-97.el7.centos

### Dependency Installed:

apr.x86 64 0:1.4.8-7.el7 apr-util.x86\_64 0:1.5.2-6.el7 centos-logos.noarch 0:70.0.6-3.el7.centos httpd-tools.x86 64 0:2.4.6-97.el7.centos mailcap.noarch 0:2.1.41-2.el7

### Complete!

[root@ip-172-31-35-197 ~]# yum -y install mod\_ssl

Loaded plugins: fastestmirror

Loading mirror speeds from cached hostfile

- \* base: d36uatko69830t.cloudfront.net
- \* extras: d36uatko69830t.cloudfront.net
- \* updates: d36uatko69830t.cloudfront.net

**Resolving Dependencies** 

- --> Running transaction check
- ---> Package mod\_ssl.x86\_64 1:2.4.6-97.el7.centos will be installed
- --> Finished Dependency Resolution

#### Dependencies Resolved

\_\_\_\_\_\_

==========

Package Arch Version Repository Size

\_\_\_\_\_\_

Installing:

mod\_ssl x86\_64 1:2.4.6-97.el7.centos updates 114 k

Transaction Summary

\_\_\_\_\_\_

==========

Install 1 Package

Total download size: 114 k

Installed size: 224 k Downloading packages:

mod\_ssl-2.4.6-97.el7.centos.x86\_64.rpm | 114 kB 00:00

Running transaction check Running transaction test Transaction test succeeded

Running transaction

Installed:

mod\_ssl.x86\_64 1:2.4.6-97.el7.centos

### Complete!

[root@ip-172-31-35-197 ~]# systemctl start httpd.service [root@ip-172-31-35-197 ~]# yum install epel-release

Loaded plugins: fastestmirror

Loading mirror speeds from cached hostfile

- \* base: d36uatko69830t.cloudfront.net
- \* extras: d36uatko69830t.cloudfront.net
- \* updates: d36uatko69830t.cloudfront.net

**Resolving Dependencies** 

- --> Running transaction check
- ---> Package epel-release.noarch 0:7-11 will be installed
- --> Finished Dependency Resolution

Dependencies Resolved

==========

Package Arch Version Repository Size

```
______
==========
Installing:
                             7-11
                                                   15 k
epel-release
                 noarch
                                       extras
Transaction Summary
______
==========
Install 1 Package
Total download size: 15 k
Installed size: 24 k
Is this ok [y/d/N]: y
Downloading packages:
epel-release-7-11.noarch.rpm
                                          | 15 kB 00:00
Running transaction check
Running transaction test
Transaction test succeeded
Running transaction
 Installing: epel-release-7-11.noarch
                                                    1/1
 Verifying: epel-release-7-11.noarch
                                                     1/1
Installed:
 epel-release.noarch 0:7-11
Complete!
[root@ip-172-31-35-197 ~]# yum install git
Loaded plugins: fastestmirror
Loading mirror speeds from cached hostfile
epel/x86 64/metalink
                                      | 5.6 kB
                                               00:00
* base: d36uatko69830t.cloudfront.net
* epel: mirror.math.princeton.edu
* extras: d36uatko69830t.cloudfront.net
* updates: d36uatko69830t.cloudfront.net
                                4.7 kB
                                         00:00
epel
                                         | 96 kB 00:00
(1/3): epel/x86_64/group_gz
(2/3): epel/x86_64/updateinfo
                                          1.0 MB 00:00
(3/3): epel/x86_64/primary_db
                                          | 6.9 MB 00:01
Resolving Dependencies
--> Running transaction check
---> Package git.x86_64 0:1.8.3.1-23.el7_8 will be installed
--> Processing Dependency: perl-Git = 1.8.3.1-23.el7_8 for package: git-1.8.3.1-
23.el7_8.x86_64
--> Processing Dependency: perl >= 5.008 for package: git-1.8.3.1-23.el7_8.x86_6
--> Processing Dependency: perl(warnings) for package: git-1.8.3.1-23.el7_8.x86_
64
--> Processing Dependency: perl(vars) for package: git-1.8.3.1-23.el7_8.x86_64
--> Processing Dependency: perl(strict) for package: git-1.8.3.1-23.el7 8.x86 64
--> Processing Dependency: perl(lib) for package: git-1.8.3.1-23.el7_8.x86_64
--> Processing Dependency: perl(Term::ReadKey) for package: git-1.8.3.1-23.el7_8
```

--> Processing Dependency: perl(Git) for package: git-1.8.3.1-23.el7\_8.x86\_64

- --> Processing Dependency: perl(Getopt::Long) for package: git-1.8.3.1-23.el7\_8. x86 64
- --> Processing Dependency: perl(File::stat) for package: git-1.8.3.1-23.el7\_8.x8 6 64
- --> Processing Dependency: perl(File::Temp) for package: git-1.8.3.1-23.el7\_8.x8 6\_64
- --> Processing Dependency: perl(File::Spec) for package: git-1.8.3.1-23.el7\_8.x8 6\_64
- --> Processing Dependency: perl(File::Path) for package: git-1.8.3.1-23.el7\_8.x8 6 64
- --> Processing Dependency: perl(File::Find) for package: git-1.8.3.1-23.el7\_8.x8 6\_64
- --> Processing Dependency: perl(File::Copy) for package: git-1.8.3.1-23.el7\_8.x8 6 64
- --> Processing Dependency: perl(File::Basename) for package: git-1.8.3.1-23.el7\_ 8.x86\_64
- --> Processing Dependency: perl(Exporter) for package: git-1.8.3.1-23.el7\_8.x86\_64
- --> Processing Dependency: perl(Error) for package: git-1.8.3.1-23.el7 8.x86 64
- --> Processing Dependency: /usr/bin/perl for package: git-1.8.3.1-23.el7\_8.x86\_6 4
- --> Running transaction check
- ---> Package perl.x86\_64 4:5.16.3-299.el7\_9 will be installed
- --> Processing Dependency: perl-libs = 4:5.16.3-299.el7\_9 for package: 4:perl-5. 16.3-299.el7\_9.x86\_64
- --> Processing Dependency: perl(Socket) >= 1.3 for package: 4:perl-5.16.3-299.el 7\_9.x86\_64
- --> Processing Dependency: perl(Scalar::Util) >= 1.10 for package: 4:perl-5.16.3 -299.el7\_9.x86\_64
- --> Processing Dependency: perl-macros for package: 4:perl-5.16.3-299.el7\_9.x86\_64
- --> Processing Dependency: perl-libs for package: 4:perl-5.16.3-299.el7\_9.x86\_64
- --> Processing Dependency: perl(threads::shared) for package: 4:perl-5.16.3-299. el7\_9.x86\_64
- --> Processing Dependency: perl(threads) for package: 4:perl-5.16.3-299.el7\_9.x8 6\_64
- --> Processing Dependency: perl(constant) for package: 4:perl-5.16.3-299.el7\_9.x 86\_64
- --> Processing Dependency: perl(Time::Local) for package: 4:perl-5.16.3-299.el7\_ 9.x86\_64
- --> Processing Dependency: perl(Time::HiRes) for package: 4:perl-5.16.3-299.el7\_ 9.x86\_64
- --> Processing Dependency: perl(Storable) for package: 4:perl-5.16.3-299.el7\_9.x 86 64
- --> Processing Dependency: perl(Socket) for package: 4:perl-5.16.3-299.el7\_9.x86 \_64
- --> Processing Dependency: perl(Scalar::Util) for package: 4:perl-5.16.3-299.el7 \_9.x86\_64
- --> Processing Dependency: perl(Pod::Simple::XHTML) for package: 4:perl-5.16.3-2 99.el7 9.x86 64
- --> Processing Dependency: perl(Pod::Simple::Search) for package: 4:perl-5.16.3-299.el7\_9.x86\_64
- --> Processing Dependency: perl(Filter::Util::Call) for package: 4:perl-5.16.3-2 99.el7\_9.x86\_64

- --> Processing Dependency: perl(Carp) for package: 4:perl-5.16.3-299.el7\_9.x86\_6
- --> Processing Dependency: libperl.so()(64bit) for package: 4:perl-5.16.3-299.el 7\_9.x86\_64
- ---> Package perl-Error.noarch 1:0.17020-2.el7 will be installed
- ---> Package perl-Exporter.noarch 0:5.68-3.el7 will be installed
- ---> Package perl-File-Path.noarch 0:2.09-2.el7 will be installed
- ---> Package perl-File-Temp.noarch 0:0.23.01-3.el7 will be installed
- ---> Package perl-Getopt-Long.noarch 0:2.40-3.el7 will be installed
- --> Processing Dependency: perl(Pod::Usage) >= 1.14 for package: perl-Getopt-Lon g-2.40-3.el7.noarch
- --> Processing Dependency: perl(Text::ParseWords) for package: perl-Getopt-Long-2.40-3.el7.noarch
- ---> Package perl-Git.noarch 0:1.8.3.1-23.el7\_8 will be installed
- ---> Package perl-PathTools.x86\_64 0:3.40-5.el7 will be installed
- ---> Package perl-TermReadKey.x86\_64 0:2.30-20.el7 will be installed
- --> Running transaction check
- ---> Package perl-Carp.noarch 0:1.26-244.el7 will be installed
- ---> Package perl-Filter.x86\_64 0:1.49-3.el7 will be installed
- ---> Package perl-Pod-Simple.noarch 1:3.28-4.el7 will be installed
- --> Processing Dependency: perl(Pod::Escapes) >= 1.04 for package: 1:perl-Pod-Si mple-3.28-4.el7.noarch
- --> Processing Dependency: perl(Encode) for package: 1:perl-Pod-Simple-3.28-4.el 7.noarch
- ---> Package perl-Pod-Usage.noarch 0:1.63-3.el7 will be installed
- --> Processing Dependency: perl(Pod::Text) >= 3.15 for package: perl-Pod-Usage-1 .63-3.el7.noarch
- --> Processing Dependency: perl-Pod-Perldoc for package: perl-Pod-Usage-1.63-3.e I7.noarch
- ---> Package perl-Scalar-List-Utils.x86\_64 0:1.27-248.el7 will be installed
- ---> Package perl-Socket.x86\_64 0:2.010-5.el7 will be installed
- ---> Package perl-Storable.x86\_64 0:2.45-3.el7 will be installed
- ---> Package perl-Text-ParseWords.noarch 0:3.29-4.el7 will be installed
- ---> Package perl-Time-HiRes.x86\_64 4:1.9725-3.el7 will be installed
- ---> Package perl-Time-Local.noarch 0:1.2300-2.el7 will be installed
- ---> Package perl-constant.noarch 0:1.27-2.el7 will be installed
- ---> Package perl-libs.x86\_64 4:5.16.3-299.el7\_9 will be installed
- ---> Package perl-macros.x86\_64 4:5.16.3-299.el7\_9 will be installed
- ---> Package perl-threads.x86\_64 0:1.87-4.el7 will be installed
- ---> Package perl-threads-shared.x86\_64 0:1.43-6.el7 will be installed
- --> Running transaction check
- ---> Package perl-Encode.x86\_64 0:2.51-7.el7 will be installed
- ---> Package perl-Pod-Escapes.noarch 1:1.04-299.el7\_9 will be installed
- ---> Package perl-Pod-Perldoc.noarch 0:3.20-4.el7 will be installed
- --> Processing Dependency: perl(parent) for package: perl-Pod-Perldoc-3.20-4.el7 .noarch
- --> Processing Dependency: perl(HTTP::Tiny) for package: perl-Pod-Perldoc-3.20-4 .el7.noarch
- ---> Package perl-podlators.noarch 0:2.5.1-3.el7 will be installed
- --> Running transaction check
- ---> Package perl-HTTP-Tiny.noarch 0:0.033-3.el7 will be installed
- ---> Package perl-parent.noarch 1:0.225-244.el7 will be installed
- --> Finished Dependency Resolution

```
Dependencies Resolved
```

(3/31): perl-Error-0.17020-2.el7.noarch.rpm

(4/31): perl-Exporter-5.68-3.el7.noarch.rpm

(5/31): perl-File-Path-2.09-2.el7.noarch.rpm

Package Arch Version Repository Size
Installing:
git x86_64 1.8.3.1-23.el7_8 base 4.4 M
Installing for dependencies: perl x86 64 4:5.16.3-299.el7 9 updates 8.0 M
perl-Carp noarch 1.26-244.el7 base 19 k perl-Encode x86_64 2.51-7.el7 base 1.5 M
perl-Error noarch 1:0.17020-2.el7 base 32 k
perl-Exporter noarch 5.68-3.el7 base 32 k
perl-File-Path noarch 2.09-2.el7 base 26 k
perl-File-Temp noarch 0.23.01-3.el7 base 56 k
perl-Filter x86_64 1.49-3.el7 base 76 k
perl-Getopt-Long noarch 2.40-3.el7 base 56 k
perl-Git noarch 1.8.3.1-23.el7_8 base 56 k
perl-HTTP-Tiny noarch 0.033-3.el7 base 38 k
perl-PathTools x86_64 3.40-5.el7 base 82 k
perl-Pod-Escapes noarch 1:1.04-299.el7_9 updates 52 k
perl-Pod-Perldoc noarch 3.20-4.el7 base 87 k
perl-Pod-Simple noarch 1:3.28-4.el7 base 216 k
perl-Pod-Usage noarch 1.63-3.el7 base 27 k
perl-Scalar-List-Utils x86_64 1.27-248.el7 base 36 k
perl-Socket x86_64 2.010-5.el7 base 49 k
perl-Storable x86_64 2.45-3.el7 base 77 k
perl-TermReadKey x86_64 2.30-20.el7 base 31 k
perl-Text-ParseWords noarch 3.29-4.el7 base 14 k
perl-Time-HiRes x86_64 4:1.9725-3.el7 base 45 k
perl-Time-Local noarch 1.2300-2.el7 base 24 k
perl-constant noarch 1.27-2.el7 base 19 k
perl-libs x86_64 4:5.16.3-299.el7_9 updates 690 k
perl-macros x86_64 4:5.16.3-299.el7_9 updates 44 k
perl-parent noarch 1:0.225-244.el7 base 12 k
perl-podlators noarch 2.5.1-3.el7 base 112 k
perl-threads x86_64 1.87-4.el7 base 49 k
perl-threads-shared x86_64 1.43-6.el7 base 39 k
Transaction Summary
Install 1 Package (+30 Dependent packages)
The state of the property of the state of th
Total download size: 16 M
Installed size: 59 M
Is this ok [y/d/N]: y
Downloading packages:
(1/31): perl-Carp-1.26-244.el7.noarch.rpm   19 kB 00:00
(2/31): perl-Encode-2.51-7.el7.x86_64.rpm   1.5 MB 00:00

| 32 kB 00:00

28 kB 00:00

| 26 kB 00:00

```
(7/31): perl-Filter-1.49-3.el7.x86_64.rpm
                                                  | 76 kB 00:00
(8/31): perl-Getopt-Long-2.40-3.el7.noarch.rpm
                                                      | 56 kB 00:00
(9/31): perl-5.16.3-299.el7_9.x86_64.rpm
                                                   | 8.0 MB 00:00
(10/31): perl-Git-1.8.3.1-23.el7_8.noarch.rpm
                                                    | 56 kB 00:00
(11/31): perl-HTTP-Tiny-0.033-3.el7.noarch.rpm
                                                      | 38 kB 00:00
(12/31): perl-PathTools-3.40-5.el7.x86_64.rpm
                                                     82 kB 00:00
(13/31): perl-Pod-Perldoc-3.20-4.el7.noarch.rpm
                                                       | 87 kB 00:00
(14/31): perl-Pod-Simple-3.28-4.el7.noarch.rpm
                                                       | 216 kB 00:00
(15/31): perl-Pod-Usage-1.63-3.el7.noarch.rpm
                                                       | 27 kB 00:00
(16/31): perl-Pod-Escapes-1.04-299.el7_9.noarch.rpm
                                                         | 52 kB 00:00
(17/31): perl-Scalar-List-Utils-1.27-248.el7.x86_64.rpm | 36 kB 00:00
(18/31): git-1.8.3.1-23.el7_8.x86_64.rpm
                                                  14.4 MB 00:00
(19/31): perl-Socket-2.010-5.el7.x86 64.rpm
                                                     49 kB 00:00
(20/31): perl-Storable-2.45-3.el7.x86_64.rpm
                                                    | 77 kB 00:00
(21/31): perl-TermReadKey-2.30-20.el7.x86_64.rpm
                                                        | 31 kB 00:00
(22/31): perl-Text-ParseWords-3.29-4.el7.noarch.rpm
                                                         | 14 kB 00:00
(23/31): perl-Time-HiRes-1.9725-3.el7.x86 64.rpm
                                                       | 45 kB 00:00
(24/31): perl-constant-1.27-2.el7.noarch.rpm
                                                     | 19 kB 00:00
(25/31): perl-parent-0.225-244.el7.noarch.rpm
                                                     | 12 kB 00:00
(26/31): perl-podlators-2.5.1-3.el7.noarch.rpm
                                                     | 112 kB 00:00
                                                    | 49 kB 00:00
(27/31): perl-threads-1.87-4.el7.x86 64.rpm
(28/31): perl-Time-Local-1.2300-2.el7.noarch.rpm
                                                       | 24 kB 00:00
(29/31): perl-threads-shared-1.43-6.el7.x86_64.rpm
                                                       | 39 kB 00:00
(30/31): perl-macros-5.16.3-299.el7_9.x86_64.rpm
                                                       | 44 kB 00:00
(31/31): perl-libs-5.16.3-299.el7 9.x86 64.rpm
                                                    | 690 kB 00:00
Total
                                 14 MB/s | 16 MB 00:01
Running transaction check
Running transaction test
Transaction test succeeded
Running transaction
 Installing: 1:perl-parent-0.225-244.el7.noarch
                                                              1/31
 Installing: perl-HTTP-Tiny-0.033-3.el7.noarch
                                                              2/31
                                                             3/31
 Installing: perl-podlators-2.5.1-3.el7.noarch
                                                              4/31
 Installing: perl-Pod-Perldoc-3.20-4.el7.noarch
 Installing: 1:perl-Pod-Escapes-1.04-299.el7_9.noarch
                                                                 5/31
 Installing: perl-Encode-2.51-7.el7.x86_64
                                                             6/31
 Installing: perl-Text-ParseWords-3.29-4.el7.noarch
                                                                7/31
 Installing: perl-Pod-Usage-1.63-3.el7.noarch
                                                              8/31
 Installing: 4:perl-macros-5.16.3-299.el7 9.x86 64
                                                                9/31
 Installing: perl-Storable-2.45-3.el7.x86_64
                                                            10/31
 Installing: perl-Exporter-5.68-3.el7.noarch
                                                            11/31
 Installing: perl-constant-1.27-2.el7.noarch
                                                            12/31
 Installing: perl-Socket-2.010-5.el7.x86 64
                                                            13/31
 Installing: perl-Time-Local-1.2300-2.el7.noarch
                                                              14/31
 Installing: perl-Carp-1.26-244.el7.noarch
                                                            15/31
 Installing: 4:perl-Time-HiRes-1.9725-3.el7.x86_64
                                                               16/31
 Installing: perl-PathTools-3.40-5.el7.x86 64
                                                             17/31
 Installing: perl-Scalar-List-Utils-1.27-248.el7.x86 64
                                                              18/31
 Installing: 1:perl-Pod-Simple-3.28-4.el7.noarch
                                                              19/31
 Installing: perl-File-Temp-0.23.01-3.el7.noarch
                                                              20/31
 Installing: perl-File-Path-2.09-2.el7.noarch
                                                            21/31
 Installing: perl-threads-shared-1.43-6.el7.x86_64
                                                               22/31
```

(6/31): perl-File-Temp-0.23.01-3.el7.noarch.rpm

| 56 kB 00:00

Installing: perl-threads-1.87-4.el7.x86_64	23/31
Installing: perl-Filter-1.49-3.el7.x86_64	24/31
Installing : 4:perl-libs-5.16.3-299.el7_9.x86_64	25/31
Installing : perl-Getopt-Long-2.40-3.el7.noarch	26/31
Installing : 4:perl-5.16.3-299.el7_9.x86_64	27/31
Installing: 1:perl-Error-0.17020-2.el7.noarch	28/31
Installing: perl-TermReadKey-2.30-20.el7.x86_64	29/31
Installing: perl-Git-1.8.3.1-23.el7_8.noarch	30/31
Installing : git-1.8.3.1-23.el7_8.x86_64	31/31
Verifying : perl-HTTP-Tiny-0.033-3.el7.noarch	1/31
Verifying: perl-threads-shared-1.43-6.el7.x86_64	2/31
Verifying: perl-Storable-2.45-3.el7.x86_64	3/31
Verifying : perl-Exporter-5.68-3.el7.noarch	4/31
Verifying : perl-constant-1.27-2.el7.noarch	5/31
Verifying: perl-PathTools-3.40-5.el7.x86_64	6/31
Verifying: 4:perl-macros-5.16.3-299.el7_9.x86_64	7/31
Verifying : git-1.8.3.1-23.el7_8.x86_64	8/31
Verifying: 1:perl-parent-0.225-244.el7.noarch	9/31
Verifying: perl-Socket-2.010-5.el7.x86_64	10/31
Verifying: perl-TermReadKey-2.30-20.el7.x86_64	11/31
Verifying : perl-File-Temp-0.23.01-3.el7.noarch	12/31
Verifying: 1:perl-Pod-Simple-3.28-4.el7.noarch	13/31
Verifying : perl-Time-Local-1.2300-2.el7.noarch	14/31
Verifying: 1:perl-Pod-Escapes-1.04-299.el7_9.noarch	15/31
Verifying: perl-Git-1.8.3.1-23.el7_8.noarch	16/31
Verifying : perl-Carp-1.26-244.el7.noarch	17/31
Verifying: 1:perl-Error-0.17020-2.el7.noarch	18/31
Verifying: 4:perl-Time-HiRes-1.9725-3.el7.x86_64	19/31
Verifying: perl-Scalar-List-Utils-1.27-248.el7.x86_64	20/31
Verifying: perl-Pod-Usage-1.63-3.el7.noarch	21/31
Verifying: perl-Encode-2.51-7.el7.x86_64	22/31
Verifying : perl-Pod-Perldoc-3.20-4.el7.noarch	23/31
Verifying : perl-podlators-2.5.1-3.el7.noarch	24/31
Verifying: 4:perl-5.16.3-299.el7_9.x86_64	25/31
Verifying: perl-File-Path-2.09-2.el7.noarch	26/31
Verifying: perl-threads-1.87-4.el7.x86_64	27/31
Verifying: perl-Filter-1.49-3.el7.x86_64	28/31
Verifying: perl-Getopt-Long-2.40-3.el7.noarch	29/31
Verifying: perl-Text-ParseWords-3.29-4.el7.noarch	30/31
Verifying: 4:perl-libs-5.16.3-299.el7_9.x86_64	31/31

## Installed:

git.x86\_64 0:1.8.3.1-23.el7\_8

# Dependency Installed:

perl.x86\_64 4:5.16.3-299.el7\_9 perl-Carp.noarch 0:1.26-244.el7 perl-Encode.x86\_64 0:2.51-7.el7 perl-Error.noarch 1:0.17020-2.el7 perl-Exporter.noarch 0:5.68-3.el7 perl-File-Path.noarch 0:2.09-2.el7 perl-File-Temp.noarch 0:0.23.01-3.el7 perl-Filter.x86\_64 0:1.49-3.el7 perl-Getopt-Long.noarch 0:2.40-3.el7

```
perl-Git.noarch 0:1.8.3.1-23.el7_8
 perl-HTTP-Tiny.noarch 0:0.033-3.el7
 perl-PathTools.x86 64 0:3.40-5.el7
 perl-Pod-Escapes.noarch 1:1.04-299.el7_9
 perl-Pod-Perldoc.noarch 0:3.20-4.el7
 perl-Pod-Simple.noarch 1:3.28-4.el7
 perl-Pod-Usage.noarch 0:1.63-3.el7
 perl-Scalar-List-Utils.x86_64 0:1.27-248.el7
 perl-Socket.x86_64 0:2.010-5.el7
 perl-Storable.x86 64 0:2.45-3.el7
 perl-TermReadKey.x86_64 0:2.30-20.el7
 perl-Text-ParseWords.noarch 0:3.29-4.el7
 perl-Time-HiRes.x86_64 4:1.9725-3.el7
 perl-Time-Local.noarch 0:1.2300-2.el7
 perl-constant.noarch 0:1.27-2.el7
 perl-libs.x86_64 4:5.16.3-299.el7_9
 perl-macros.x86 64 4:5.16.3-299.el7 9
 perl-parent.noarch 1:0.225-244.el7
 perl-podlators.noarch 0:2.5.1-3.el7
 perl-threads.x86_64 0:1.87-4.el7
 perl-threads-shared.x86_64 0:1.43-6.el7
Complete!
[root@ip-172-31-35-197 ~]# cd /usr/local/
[root@ip-172-31-35-197 local]# git clone https://github.com/letsencrypt/letsencr
ypt
Cloning into 'letsencrypt'...
remote: Enumerating objects: 89497, done.
remote: Counting objects: 100% (278/278), done.
remote: Compressing objects: 100% (190/190), done.
remote: Total 89497 (delta 106), reused 209 (delta 87), pack-reused 89219
Receiving objects: 100% (89497/89497), 44.87 MiB | 11.99 MiB/s, done.
Resolving deltas: 100% (65656/65656), done.
[root@ip-172-31-35-197 local]# cd /usr/local/letsencrypt
[root@ip-172-31-35-197 letsencrypt]# ./letsencrypt-auto --apache -d your_domain.
tld
Skipping bootstrap because certbot-auto is deprecated on this system.
Your system is not supported by certbot-auto anymore.
Certbot cannot be installed.
Please visit https://certbot.eff.org/ to check for other alternatives.
[root@ip-172-31-35-197 letsencrypt]# history
  1 yum install httpd -y
  2 yum -y install mod_ssl
```

3 systemctl start httpd.service

4 yum install epel-release

5 yum install git

6 cd /usr/local/

7 git clone https://github.com/letsencrypt/letsencrypt

8 cd /usr/local/letsencrypt

9 ./letsencrypt-auto --apache -d your\_domain.tld

10 history

[root@ip-172-31-35-197 letsencrypt]#