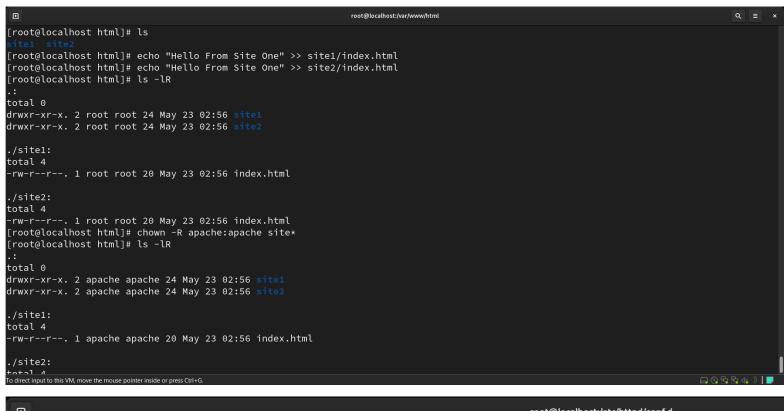
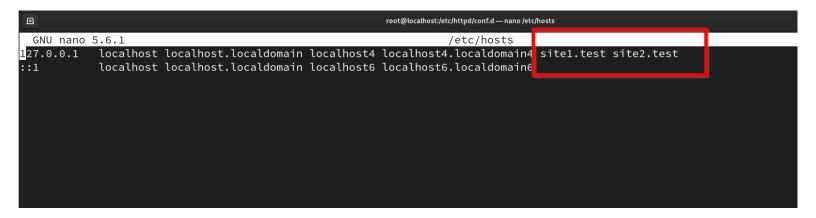
## Hosting two sites site1, site2 using http, https protocols

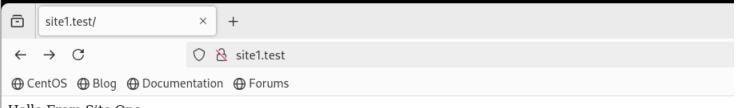
```
root@localhost:~ — systemctl status httpd
                                                                                                                                       Q ≡
Complete!
[root@localhost ~]#
[root@localhost ~]# systemctl status httpd
o httpd.service - The Apache HTTP Server
     Loaded: loaded (/usr/lib/systemd/system/httpd.service; disabled; preset: disabled)
     Active: inactive (dead)
      Docs: man:httpd.service(8)
[root@localhost ~]# systemctl start httpd
[root@localhost ~]# systemctl enable httpd
Created symlink /etc/systemd/system/multi-user.target.wants/httpd.service → /usr/lib/systemd/system/httpd.service.
[root@localhost ~]# systemctl status httpd
 httpd.service - The Apache HTTP Server
     Loaded: loaded (/usr/lib/systemd/system/httpd.service; enabled; preset: disabled)
     Active: active (running) since Fri 2025-05-23 02:37:49 EEST; 20s ago
       Docs: man:httpd.service(8)
  Main PID: 35883 (httpd)
     Status: "Total requests: 0; Idle/Busy workers 100/0; Requests/sec: 0; Bytes served/sec: 0 B/sec"
      Tasks: 177 (limit: 22786)
     Memory: 32.2M
        CPU: 110ms
     CGroup: /system.slice/httpd.service
May 23 02:37:48 localhost.localdomain systemd[1]: Starting The Apache HTTP Server...
May 23 02:37:49 localhost.localdomain httpd[35883]: AH00558: httpd: Could not reliably determine the server's fully qualified domain n
   22 A2:27:40 local bast local domain httpd[25002]. Sarvor configured listoning on nort 0A
```

```
root@localhost:~
 sources:
 services: cockpit dhcpv6-client ssh
 ports:
 protocols:
 forward: yes
 masquerade: no
 forward-ports:
 source-ports:
 icmp-blocks:
 rich rules:
root@localhost ~]# firewall-cmd --reload
success
[root@localhost ~]# firewall-cmd --list-all
public (active)
 target: default
 icmp-block-inversion: no
 interfaces: ens160 ens224
 sources:
 services: cockpit dhcpv6-client http https ssh
 ports:
 protocols:
 forward: yes
 masquerade: no
 forward-ports:
 source-ports:
 icmp-blocks:
 rich rules:
[root@localhost ~]#
[root@localhost ~]#
   ct input to this VM, move the mouse pointer inside or press Ctrl+G
```

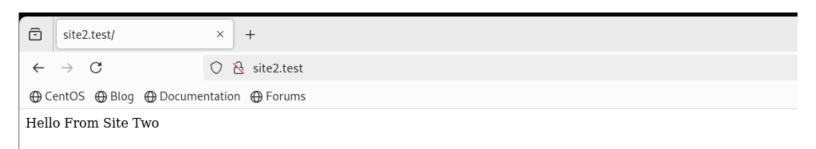


```
[root@localhost conf.d] # nano site1.test.conf
[root@localhost conf.d] # nano site2.test.conf
[root@localhost conf.d] # cat site1.test.conf
ServerName site1.test
DocumentRoot /var/www/html/site1
ErrorLog /var/log/httpd/site1.test.error.log
CustomLog /var/log/httpd/site1.test.access.log combined
[root@localhost conf.d] # cat site2.test.conf
ServerName site2.test
DocumentRoot /var/www/html/site2
ErrorLog /var/log/httpd/site2.test.error.log
CustomLog /var/log/httpd/site2.test.access.log combined
[root@localhost conf.d] #
```





Hello From Site One



root@localhost:/etc/httpd/conf.d [root@localhost conf.d]# mkcert site1.test Created a new certificate valid for the following names 📜 - "site1.test" The certificate is at "./sitel.test.pem" and the key at "./sitel.test-key.pem" 🌠 It will expire on 23 August 2027 🧰 [root@localhost conf.d]# mkcert site2.test Created a new certificate valid for the following names 📜 - "site2.test" The certificate is at "./site2.test.pem" and the key at "./site2.test-key.pem" 🏑 It will expire on 23 August 2027 🧰 [root@localhost conf.d]# ls / home **lib lib64** media mnt opt proc root run **sbin** srv sys <mark>tmp</mark> usr var [root@localhost conf.d]# ls autoindex.conf site1.test.conf site1.test.key site1.test.pem site2.test-key.pe README site1.test.crt site1.test-key.pem site2.test.conf site2.test.pem site1.test.pem site2.test-key.pem userdir.conf welcome.conf [root@localhost conf.d]#

```
[root@localhost conf.d]# curl -JLO "https://dl.filippo.io/mkcert/latest?for=linux/amd64"
chmod +x mkcert-v*-linux-amd64
sudo mv mkcert-v*-linux-amd64 /usr/local/bin/mkcert
                             l Average Speed Time Time Time Current
Dload Upload Total Spent Left Speed
 % Total % Received % Xferd Average Speed Time
100 123 100 123 0 0 124 0 --:--:- 12-:- 124
0 0 0 0 0 0 0 0 0 --:--: 0:00:01 --:--: 0
100 4676k 100 4676k 0 0 1392k 0 0:00:03 0:00:03 --:-- 2521k
[root@localhost conf.d]# mkcert -install
Created a new local CA
The local CA is now installed in the system trust store! m{
eq}
Warning: "certutil" is not available, so the CA can't be automatically installed in Firefox and/or Chrome/Chromium! 🛕
Install "certutil" with "yum install nss-tools" and re-run "mkcert -install" 👈
[root@localhost conf.d]# yum install nss-tools
Last metadata expiration check: 0:41:58 ago on Fri 23 May 2025 02:36:23 AM EEST.
Dependencies resolved.
Package
                               Architecture
Installing:
                                                          3.101.0-10.el9
nss-tools
                                x86_64
                                                                                             appstream
Upgrading:
                                x86_64
                                                          3.101.0-10.el9
                                                                                             appstream
                                                                                                                          717 k
                                                          3.101.0-10.el9
                                x86_64
                                                                                             appstream
Transaction Summary
```

ⅎ root@localhost:/etc/httpd/conf.d — nano site1.test.conf GNU nano 5.6.1 site1.test.conf <VirtualHost \*:443> ServerName site1.test DocumentRoot /var/www/html/site1 ErrorLog /var/log/httpd/site1.test.error.log CustomLog /var/log/httpd/site1.test.access.log combined SSLEngine on SSLCertificateFile /etc/httpd/conf.d/site1.test.pem SSLCertificateKeyFile /etc/httpd/conf.d/site1.test-key.pem </ri> <VirtualHost \*:80> ServerName site1.test Redirect permanent / https://site1.test/ </VirtualHost>

```
ⅎ
```

[root@localhost conf.d]# systemctl restart httpd

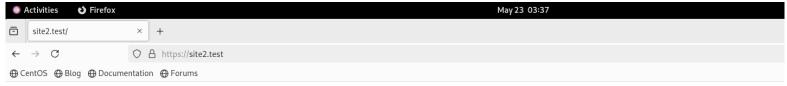
```
GNU nano 5.6.1

<VirtualHost *:443>
ServerName site2.test
DocumentRoot /var/www/html/site2
ErrorLog /var/log/httpd/site2.test.error.log
CustomLog /var/log/httpd/site2.test.access.log combined

SSLEngine on
SSLCertificateFile /etc/httpd/conf.d/site2.test.pem
SSLCertificateKeyFile /etc/httpd/conf.d/site2.test-key.pem
```

Job for httpd.service See "systemctl status [root@localhost conf. AH00526: Syntax error Invalid command 'SSLE [root@localhost conf.	d]# httpd -t on line 7 of /etc/httpd/conf.o	-xeu httpd.service" for details d/site1.test.conf: defined by a module not included		
Dependencies resolved	====================================	:======================================	=======================================	==========
Package	Architecture 	Version 	Repository 	Size
Installing: mod_ssl	x86_64	1:2.4.62-4.el9	appstream	110 k
Transaction Summary ====================================				=========
Total download size: Installed size: 272 k Downloading Packages: mod_ssl-2.4.62-4.el9.			105 kB/s   110 kE	3 00:01
Total Running transaction c Transaction check suc	 heck		65 kB/s   110 kf	





Hello From Site Two