

welcome to home page

Apache

Apache refers to several things, but most commonly, it refers to the Apache HTTP Server, a widely used web server software that enables websites to serve content over the internet.

Advantages

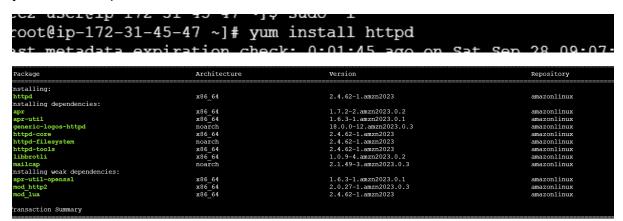
- 1. Open Source: Apache is free to use and modify, which encourages a large community of developers to contribute to its development and support.
- 2. Flexibility and Customizability: It supports various modules, allowing users to extend its functionality based on their specific needs.
- 3. Cross-Platform: Apache runs on various operating systems, including Windows, Linux, and macOS, making it versatile for different environments.
- 4. Strong Community Support: With a large user base, there is extensive documentation, forums, and community resources available for troubleshooting and learning.
- 5. Security Features: Apache includes a range of security modules and features, such as SSL/TLS support, which can help protect web traffic.
- 6. Virtual Hosting: It can serve multiple websites on a single server, making it cost-effective for hosting providers and businesses

Disadvantages

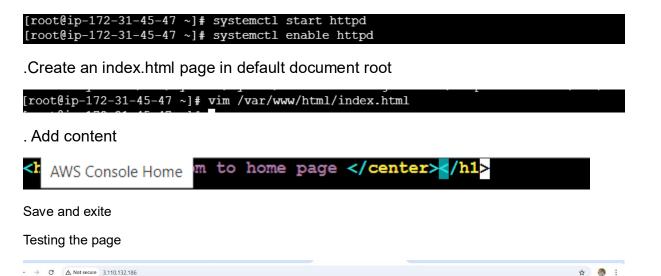
- 1. **Performance**: In certain scenarios, especially under high load, Apache may be slower compared to other servers like Nginx, which is optimized for handling concurrent connections.
- 2. **Resource Intensive**: Apache can consume more system resources (CPU and memory) than some lightweight alternatives, which may not be ideal for all environments.
- 3. **Configuration Complexity**: While customizable, the configuration can become complex, especially for users who are not familiar with its directives and modules.

install apache web server

yum install httpd



Start and enable



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Step 1: Modify the Hosts File of your system

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1. (Open	Notepad	as Adm	inistrator:
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- o Search for "Notepad" in the Start menu.
- o Right-click and select "Run as administrator".

2. Open the Hosts File:

- o In Notepad, go to File > Open.
- o Navigate to C:\Windows\System32\drivers\etc.
- o Change the file type to "All Files" to see the hosts file.
- o Open the hosts file.

3. Add the Domain Mapping:

o At the end of the file, add the following line:

15.207.55.42 mysamplewebsite.itfs

4. Save and Close:

 $\hfill \square$ Save the changes and close Notepad.

Step 2: Test the Setup

- 1. Open a Web Browser.
- 2. Type the Domain Name:

o In the address bar, enter:

http://mysamplewebsite.itfs

3. Verify the Content:

☐ You should s	see the content	from your	index.html	page serv	ed by y	our/
web server.						



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Virtual Hosting

Step 1-Create aonther document

7 mkdir /var/www/html/htm12 -p

Step 2-Add content

vim /var/www/html/htm12/index.html

Step 3-Save and exit

Step 4- Create a cusom virtual hosting configuration file

```
root@ip-172-31-46-165 ~]# vim /etc/httpd/conf.d/html.conf
   ServerName myfirstwebsite.itfs
   DocumentRoot /var/www/html
   <Directory /var/www/html>
       AllowOverride All
       Require all granted
   </Directory>
/VirtualHost>
VirtualHost *:80>
   ServerName myfirstwebsite2.itfs
   DocumentRoot /var/www/html/htm12
   <Directory /var/www/html/htm12>
       AllowOverride All
       Require all granted
   </Directory>
/VirtualHost>
```

Step 5-Save and exist

Step 6- Restart httpd

systemctl restart httpd

Step 7- Modify the Hosts File of your system

For Windows

- 1. Open Notepad as Administrator:
- o Search for "Notepad" in the Start menu.
- o Right-click and select "Run as administrator".
- 2. Open the Hosts File:
- o In Notepad, go to File > Open.
- o Navigate to C:\Windows\System32\drivers\etc.
- o Change the file type to "All Files" to see the hosts file.
- o Open the hosts file.
- 3. Add the Domain Mapping:
- o At the end of the file, add the following line:
- 15.207.55.42 mysamplewebsite.itfs
- 15.207.55.42 mysamplewebsite2.itfs

Step 8- Test the Setup

- 1. Open a Web Browser.
- 2. Type the Domain Name:

o In the address bar, enter:

http:// mysamplewebsite.itfs

http:// mysamplewebsite.itfs

3. Verify the Content:

You should see the content from your index.html page.



welcome to home page