



TM

# Apache Basics





# About me

- Senior Software Engineer.
- Introduced to Apache in 2019.
- Advised 100+ organizations on Apache issues.



# About me

- Senior Software Engineer.
- Introduced to Apache in 2019.
- Advised 100+ organizations on Apache issues.



# What is a web server?



# What is a web server?

- It's a software and hardware that uses HTTP or other protocols to respond to client's request.

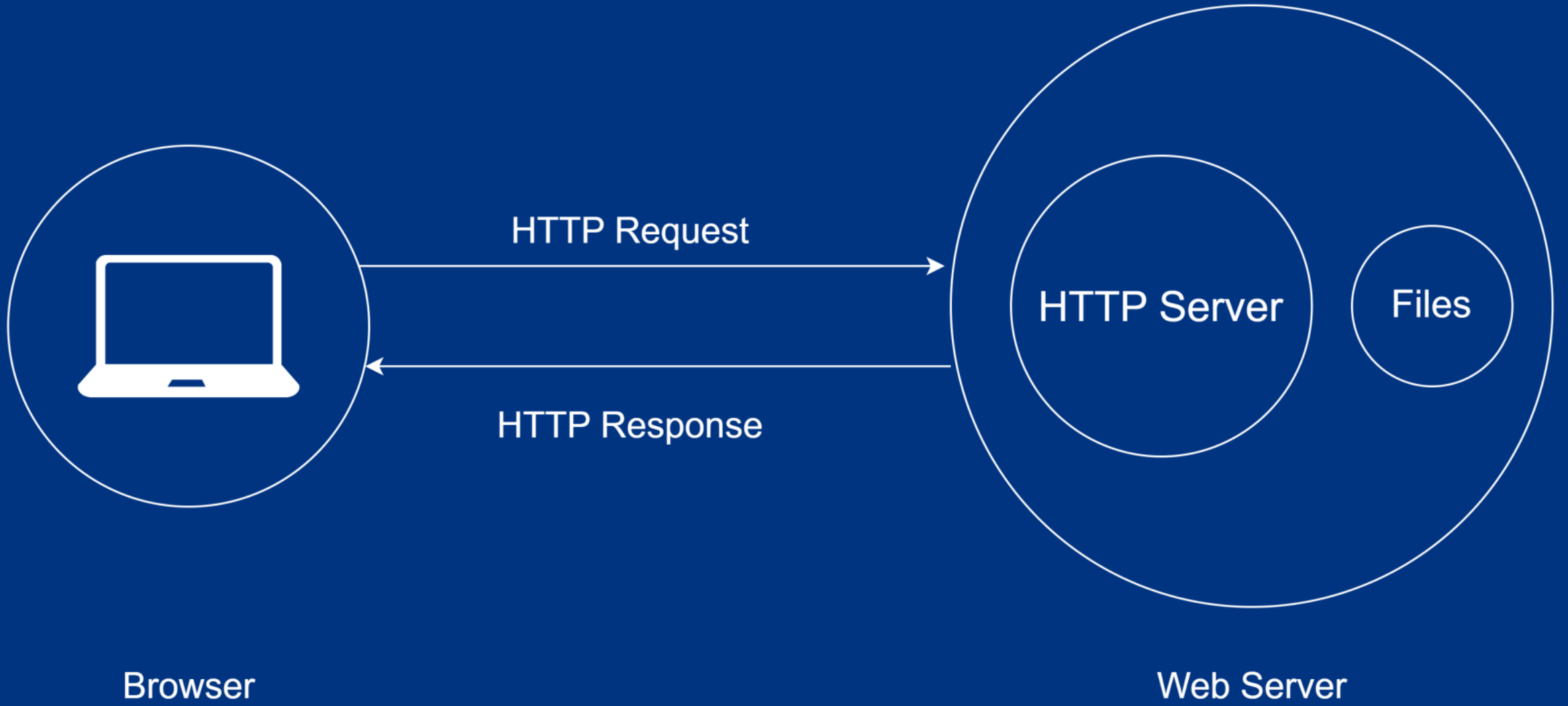


# What is a web server?

- It's a software and hardware that uses HTTP or other protocols to respond to client's request.
- Display web content through storing, processing and delivering requested resources to users.









# Why use Apache as web server?





## Why use Apache as web server?

- Apache is a free, open-source web server software that is part of the Apache Software Foundation.



# Why use Apache as web server?

- Apache is a free, open-source web server software that is part of the Apache Software Foundation.
- Approximately 30% of active websites are powered by Apache.



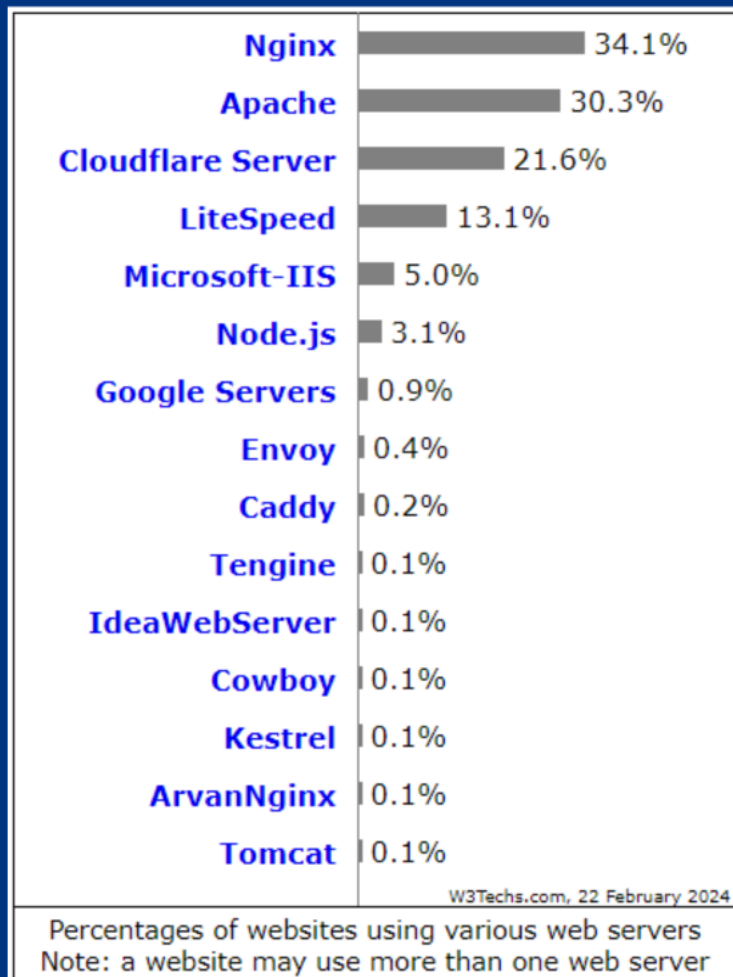
# Why use Apache as web server?

- Apache is a free, open-source web server software that is part of the Apache Software Foundation.
- Approximately 30% of active websites are powered by Apache.
- Apache has been around since 1995 and has a huge community that contributes and creates modules for specific use cases.



# Why use Apache as web server?

- Apache is a free, open-source web server software that is part of the Apache Software Foundation.
- Approximately 30% of active websites are powered by Apache.
- Apache has been around since 1995 and has a huge community that contributes and creates modules for specific use cases.



# Jargons:





## Jargons:

- Modules: Programs that can be dynamically linked and loaded to extend the nature of the Apache.



## Jargons:

- Modules: Programs that can be dynamically linked and loaded to extend the nature of the Apache.
- Directives: Apache directives are a set of rules which define how your server should run, the number of clients that can access your server, etc





## Jargons:

- **Modules:** Programs that can be dynamically linked and loaded to extend the nature of the Apache.
- **Directives:** Apache directives are a set of rules which define how your server should run, the number of clients that can access your server, etc
- **VirtualHost:** The practice of running multiple websites (or domains) on a single web server. Apache allows configuring multiple virtual hosts on a single server.



## Jargons:

- **Modules:** Programs that can be dynamically linked and loaded to extend the nature of the Apache.
- **Directives:** Apache directives are a set of rules which define how your server should run, the number of clients that can access your server, etc
- **VirtualHost:** The practice of running multiple websites (or domains) on a single web server. Apache allows configuring multiple virtual hosts on a single server.
- **htaccess:** A configuration file used by Apache web servers to control directory-level configuration settings. It allows users to override the server's global settings for specific directories.



# Use case:

Create a new website "myseureshop.app" for end-users and implement an admin dashboard for employees to monitor the site.

Use "myseureshop.app/admin" to access the admin dashboard.

Application used by Admins is running on port 8080 on the same Machine.

Ensure the website is SSL protected.

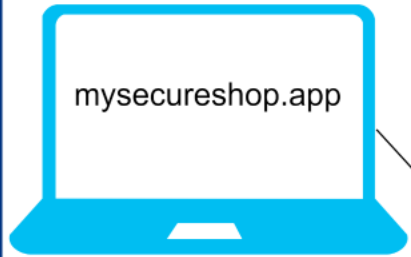
Create a new website  
"myseureshop.app" for end-users  
and implement an admin  
dashboard for employees to  
monitor the site.

Use "mysecureshop.app/  
admin" to access the  
admin dashboard.

Application used by Admins is running on port 8080 on the same Machine.

Ensure the website is  
SSL protected.

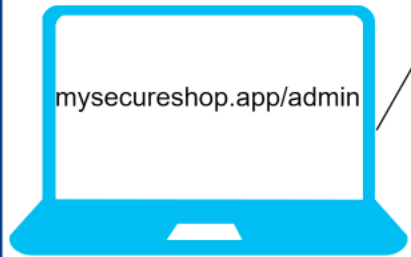




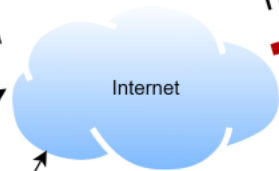
User 1



User 2



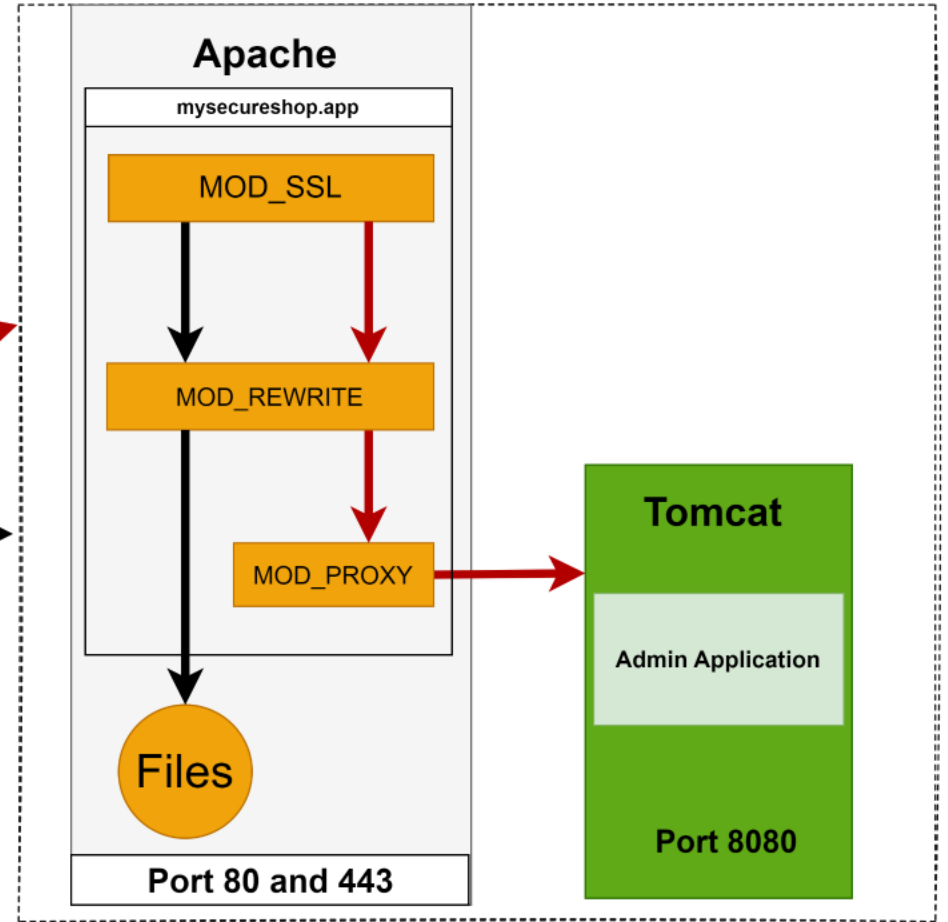
User 3



Internet

<https://mysecuregroup.app/admin/>\*

<https://mysecureshop.app/>\*





## Solution Overview

- We will create a Virtualhost to isolate configurations for our website.
- We will configure mod\_ssl module for SSL verification.
- Module mod\_rewrite will be used to upgrade insecure connection ( http requests ) to secure connection ( https requests ).
- Module mod\_proxy and mod\_proxy\_http will be used to setup a reverse proxy for "/admin" path.

# Scan for feedback



# Scan for feedback

