



# Nginx - Introduction

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# We will cover with the following concepts

- 1) What is a web server software?
- 2) What and why Nginx?

# Web server softwares decide what gets served

- A **Web server** is a program that uses HTTP (Hypertext Transfer Protocol) to serve the files that form **Web** pages to users, in response to their requests, which are forwarded by their computers' HTTP clients.
- So all your static files and sometimes dynamic routes are identified by it and they map the path of component of URL to the local files and applications

# Nginx is a high performance web server

- Nginx (pronounced "Engine X") is a high performance web server designed to deliver large amounts of static content at good speed by effectively using system resources.
- It was originally developed to tackle the [C10K problem](#) which means serving 10000 concurrent connections.
- Nginx can be used as a standalone web server, or serve in front of other web servers as a reverse proxy.

# Nginx comes with a lot of advantages

- Its fast
- Nginx uses an **asynchronous event-driven model** which provides more predictable performance under load.
- It comes with additional features to maintain SSL / HTTPS, GZip, cache headers, load balancing and a lot of other stuff
- It can be used as **reverse proxy**
- Its paid version comes with advance security and DDOS mitigation etc
- [Nginx website](#)

# The next steps are ...

Installation and basic commands

Running a basic website.