

# Back end components

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## Back end Servers

Hardware and OS that hosts all apps necessary to run the web app

## data access layer

## Software

the backend server contains the other 3 backend components

- web server
- DB
- Development Framework

other software components may be  
hypervisors, containers, WAFs

common back end server stacks:

## common back end server stacks:

- **LAMP** = Linux Apache MySQL PHP
- **WAMP** = Windows "
- **WINS** = Windows IIS .NET SQL server
- **MAMP** = macOS ...
- **XAMPP** = cross-platform Apache MySQL  
PHP/PERL

## Hardware

many large web apps distribute load  
over many back end servers