

Creating a Server

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What is a server?

- A computer
- provides a service over a network
- runs server software
- many types of servers
 - web server
 - mail server
 - game server
 - ssh server
 - etc.

What is LAMP?

- LAMP stands for
 - Linux
 - Apache HTTP Server
 - MySQL Relational Database
 - PHP
- Most common open source software bundle for a web application server

Linux

- Any Linux Distribution
- Some distros have server versions
 - Ubuntu
- Pick a stable distro
 - Ubuntu
 - Debian
 - CentOS
 - Fedora

Apache (HTTP Server)

- receives and responds to HyperText Transfer Protocol requests from a client
- The software
 - [Apache HTTP Server](#)
 - [NginX](#) (engine-x)
 - [Lighttpd](#) (lighty)
- Can have modules or other features

MySQL (Relational Database)

- Stores data and quickly retrieve data
- SQL (relational databases)
 - MySQL
 - PostgreSQL
 - MariaDB (drop in copy of MySQL)
 - SQLite (file based database)
- NoSQL (nonrelational databases)
 - MongoDB (document database)
 - CouchDB (document database)
 - Redis (key-value database)

PHP (programming language)

- programming language
- allows creating of dynamic pages
- communicate with other services
- Different languages can be used
 - PHP
 - Perl
 - Python
 - Many others, check your http server

Software Suggestions

- **ssh server**
 - allows remote terminal connections
- **GNU screen**
 - multiple terminal sessions in one
 - ability to disconnect from a screen session and resume at another time
- **node.js**
 - write JavaScript server side web applications

Questions?

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