

Read the tutorial. Write down every concept you don't understand and research them.

## HTTP traffic:

It helps to record all the HTTP traffic that passes between the computer and the Internet

## Virtual Hosts:

Virtual Host refers to the practice of running more than one web site (such as `company1.example.com` and `company2.example.com`) on a single machine.

## nano:

GNU nano is a small editor for on the terminal. It supports syntax highlighting, spell checking, justifying, completion, undo/redo, etc.

## Answer The following questions:

### What is a web server? Hardware and software side

The term web server can refer to hardware or software, or both of them working together. On the hardware side, a web server is a computer that stores web server software and a website's component files for example, HTML documents, images, CSS stylesheets, and JavaScript files.

### What are some different web server applications?

#### Apache HTTP Server.

Apache is a free and open-source software that allows users to deploy their websites on the internet. It is one of the oldest and most reliable

#### Microsoft Internet Information Services (IIS).

### What is Microsoft IIS used for?

Internet Information Services, also known as IIS, is a Microsoft web server that runs on Windows operating system and is used to exchange static and dynamic web content with internet users. IIS can be used to host, deploy, and manage web applications using technologies such as ASP.NET and PHP.

### What is NGINX used for?

NGINX is open source software for web serving, reverse proxying, caching, load balancing, media streaming, and more. It started out as a web server designed for maximum performance and stability.

#### Lighttpd.

**Lighttpd is a free, open-source, and high-performance web server designed for speed-critical environments. It is lightweight, secure, fast, and consumes very few resources compared to other web**

## **Sun Java System Web Server.**

**Sun Java System Web Server 6.1 is a multi-process, multi-threaded, secure web server built on open standards. It provides high performance, reliability, scalability, and manageability for enterprise of any size.**

## **What is virtualization?**

**Virtualization is technology that lets you create useful IT services using resources that are traditionally bound to hardware.**

## **What is virtualbox?**

**Oracle VM VirtualBox is cross-platform virtualization software. It allows users to extend their existing computer to run multiple operating systems including Microsoft Windows, Mac OS X, Linux, and Oracle Solaris, at the same time.**

## **What is a virtual machine?**

**A computer system created using software on one physical computer in order to emulate the functionality of another separate physical computer.**

## **What is Ubuntu Server?**

**Is a Linux distribution based on Debian and composed mostly of free and open-source software. Ubuntu is officially released in three editions: Desktop, Server, and Core for Internet of things devices and robots.**

## **What is a firewall?**

**A firewall is a network security system that monitors and controls incoming and outgoing network traffic based on predetermined security rules.**

## **What is SSH?**

**SSH is a network communication protocol that makes it possible for two computers to communicate with one another.**