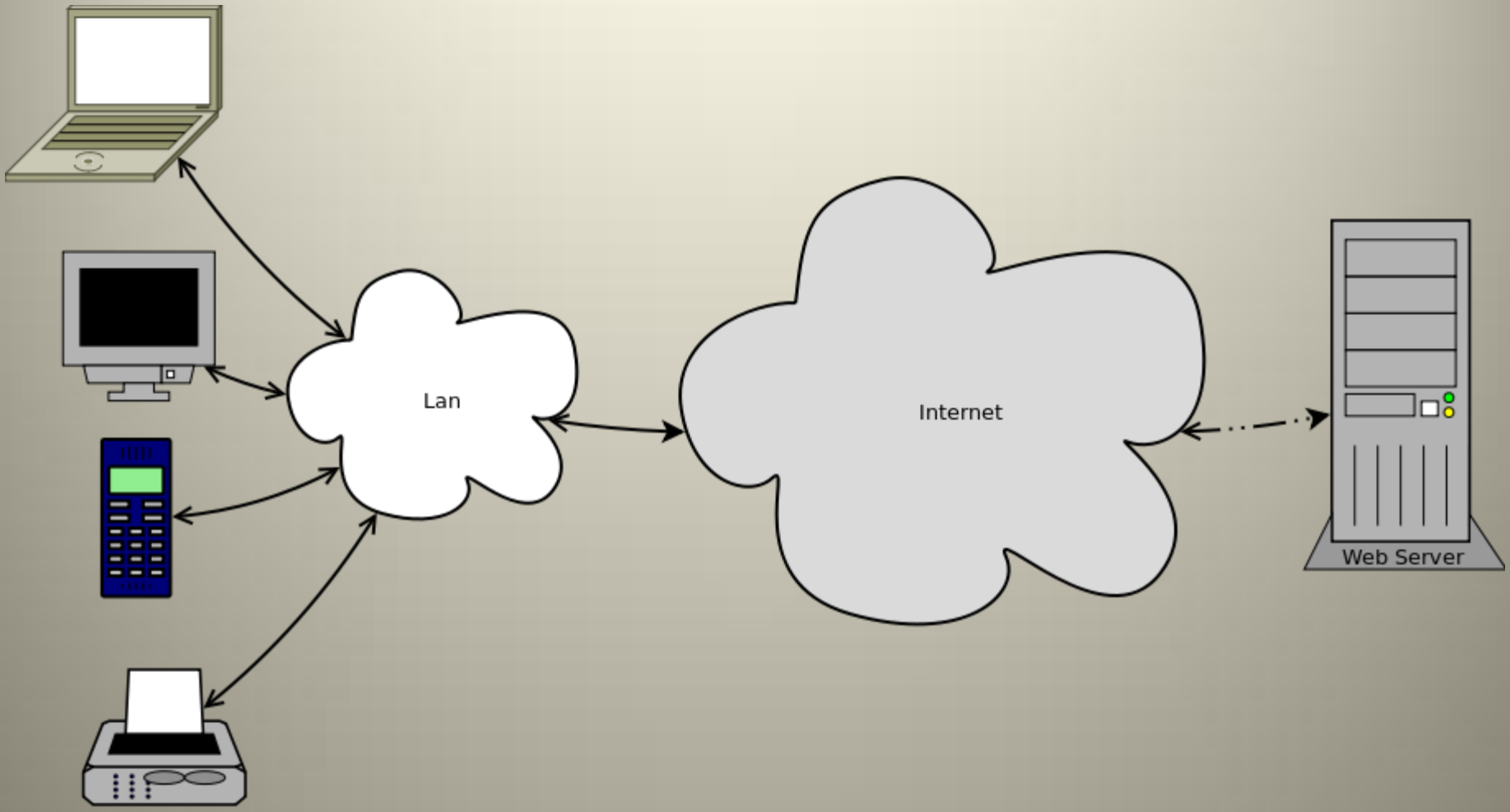


< Web Server / >

By Touhid Arastu

<http://arastu.ir>

Web Server
Refer To
Software & Hardware



Web Server

In common
helps to deliver content
that can be accessed through the Internet.

History

- NeXTSTEP Create in Next company

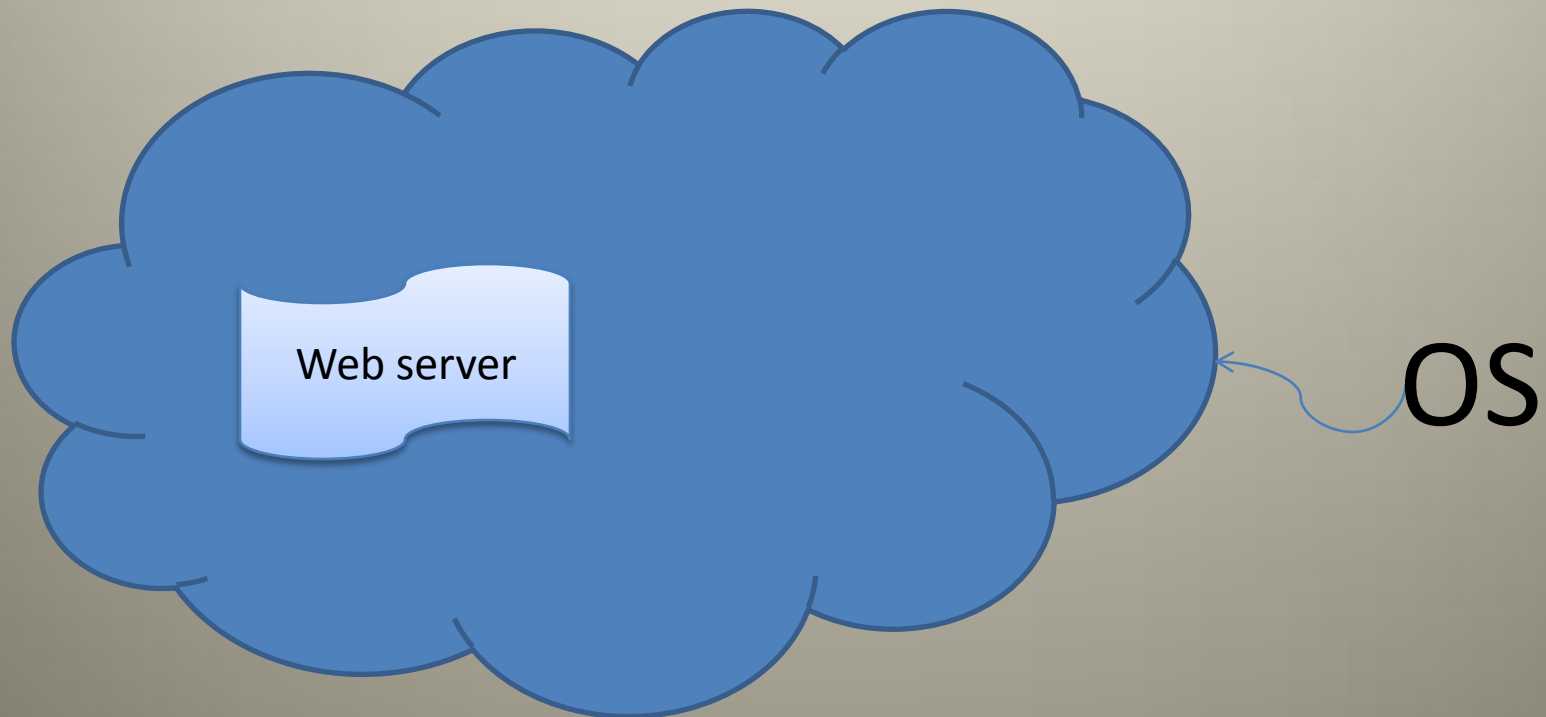
- Tim Berners-Lee Develop First Web Server In Cern



In 1989
the world's first web server
later known as CERN httpd
which ran on NeXTSTEP.

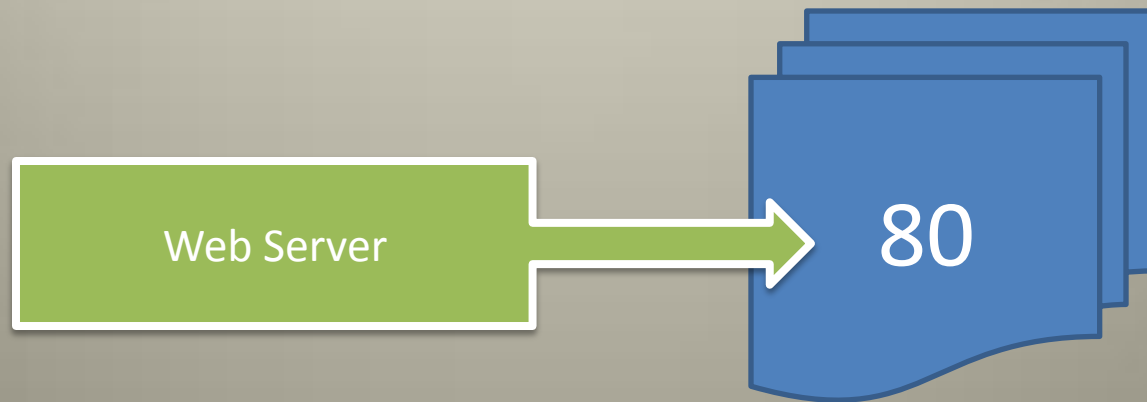
How to work?

Web Server Application Run As Process In OS



2

Web Server Listen To Special Port, ex 80



3

When Request Received, Handle It.



4

Create Response And Sent Back It To Client



Handle Request

Path Translation

Web servers are able to
map the path component of a Uniform Resource Locator (URL)

- a local file system resource => •Static Request
- an internal or external program name => •Dynamic request

URL Structure

scheme://domain:port/path?query_string#fragment_id

http://arastu.ir/slides/ilug/web_server.pdf



Web Server Append The Given Path To The Path Of
Its Root Directory

Root Directory Specified With Web Server Configs

http://arastu.ir/slides/ilug/web_server.pdf



/home/arastu/www/arastu.ir/slides/ilug/web_server.pdf

Based On Web Server Configs, Create
Response Dynamically Or Return Static file.
If Error acquired, Return Error.

Dynamic Content Create With Server Side
Programming language

2

Handle Connections

When Request Received Web Server:

- Create A New Process In Os
- Fork A New Thread
- Use One Thread For All
Connection

Comparison Use Server resource

Start Process > Fork New Thread > One Thread for All Connection

Comparison Using Web Server In Internet, March 2011

Product	Vendor	Web Site Hosted	Percent
Apache	Apache	179,270,332	60.31%
IIS	Microsoft	57,644,692	19.34%
Nginx	Igor Sysoev	22,806,060	7.65%
GWS	Google	15,161,530	5.09%
Lighttp	Lighttp	1,796,471	0.60%

Other **Common** Feature

Virtual Hosting

Large file support

Any Question?

Download This Slide At:

http://arastu.ir/slides/ilug/web_server.pdf