1 Identify the difference between HTTP and HTTPS

HTTP = Hypertext Transfer protocol HTTPS = H&perText Transfer protocol secure

HTTPS = HTTP + security (enception + Certificate)

HTTP, data is sent as plain text. data can be hacking or data theft

HTTPS, data is encypted befor sending. It prevents unauthorized access

HTTP ase 80 port, HTTPS use 443 port by default.

HTTP browser show a Often "Not secure" wak hing.

HTTPS ' brower show a padiock I con is HTTP , use for plublic blogs, Static website, HTTPs, use for that handle login info, personal data, payment, banking line Sites.

PH++ps often use 443 port, Changing port fincreasing port does not chang security. It you do not use standard port (like 443 port) some usels can't reach your site.

- · proxy server hide your of real If address, makes your browser anonymous.
- · cloud hosting.

your site uses a cluster of servers working together 'So resources (cprikam, storage) are drawn from multiple machine.

- + If one server fail , others take over, reducing down time.
- · speding up acces by multiple servers. (often balance traffic)
- · gar Pay-as-you-go-you want to pay

dedicated server hosting

- " security Since you don't share the server , risk from other users are reduced
  - · best for buisness.
- \* you have all control
- · High performance

for

Control

02) Om pare dedicate + hosting server and cloud hosting server cloud hosting ded, cated has ting performance " very high · High and flexible -(load is balane by multiple servers) C05+ · expensive · fay-as - you - go (only for what you use) Reliable "If server fall one server fail, anothe downtime occur serve takes over fixed Best ·B wisness

· high-secure apps

· full control

· Startups,

growing buisness

a Limited control

Static uch page is fixed content to saved in the disk and passed back to requesting browser without Database connet, Load faster.

Dy hamic uch page, content change depending user, time, interection. Stower Slower than Static page. Buil using sever side language python, PHP, thatabase DSP NET + databases.
Usually connect to database

- Client Bide dynamic and server side dynamic

Client side - Client of browser process instructions and

HTML files codes (But web server looks HTML files together with instructions)

Server side web server process instructions and instructions

eneate the heressary HTML codes

Always server looks of HTML files and together with instruction with sixtuction with s

client side dynamic changes happen on your browser. It is Fast, server side changes happen in server. Client side usually does not connect with the database for security server side chang happen in server before sending page.