Databases and Cloud Concepts Notes

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An important note, these notes are absolutely **NOT** guaranteed to be correct, representative of the course, or rigorous. Any result of this is not the author's fault.

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1 The Internet

The internet is a world-wide computer network, connecting computing devices also known as hosts or end systems. These connections can take many forms, such as cables and radio waves. Intermediate switching devices inbetween hosts are known as routers.

1.1 Clients and Servers

A program or machine that responds to requests from others is called a server. A program or machine that sends requests to a server is a client.

1.2 Internet Layers

There are four internet layers:

Layer	Common Protocol	Description
Application	HTTP	Web browsers making requests
		and parsing responses
Transport	TCP	Breaks requests down into num-
		bered packets and can reassemble
		messages
Network	IP	Attaches addresses to packets and
		groups packets based on their in-
		coming addresses
Physical		Sends bits to the local router and
		assembles bits into packets

1.3 Protocols

Protocols are an agreement on how to communicate.

1.3.1 HTTP - HyperText Transfer Protocol

There are four main operations that can be carried out on HTTP resources:

Operation	Performed by
Creation	HTTP POST
Reading	HTTP GET
Updating	HTTP PUT
Deletion	HTTP DELETE

Requests are formed by an operation as well as a host and content-type parameter to describe the format of information.

1.3.2 URL - Uniform Resource Locator

Each URL is formed by a scheme (like http or https), a host (like www.bristol.ac), a path (like .uk/home/maths). Paths can have queries attached, preceded by ? as parameters.