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DNS (Domain Name System) PAGENO. DATE: / / What happens when you make a DNS request					
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Packett And Frames PAGE NO. Packet and Rames are small pieces of data that, when forming together, make a larger piece of information of message. However they are two different things in the OST model, A frame is at layer 2 - the data link layer, meaning there is no such information as IP Think of their as putting an envelope within an envelop and dending it away. The first envelop will be the nacket that you mail but once it is opened, the envelop within still exists and contains data (this is a frame). topologies soprious plant sign, a manipulary. We have to use a set of etanderds and protocols of sense that act am a set of sules for how the reckete is handled on a device.

One such protocof is Internet restocof

A packet wing this when a packet is transmitted using this proposed, it includes a cot of headers that contein additional information to the data that is being dent across a network,

Some of the different protocols a nacket might follow can be fi) TEP What I've not in south the saile by getti indompli due of il int Some Notable headers include set an expiry i) THE :- This field expires times for the parteet to not clog up your network is it never manages to Reach a host or escape ii) Checkeum = This field provides integrity checking & peotocols such as TRP (IP . If any is changed, this value will be different from what was expected and thesefore consupt One luch pertone in Internet protocol The checkeum is performed on both sender and receiv side. C. Checksum is a numerical value of code generated through a specific algorithm based on the data it is associated with.) And when the ditt of checkum of render and secernes aide matches, then only it is said to be checken

17/1	Source Address: - He IP address of the device that the packet is being sent
	from so that data knows where to return to.
iv)	Bestination Address: - The device's IP address the packet a being sent to the that
	data knows where to travel next.
	all sections and an arrange of

	TCP/IP (The Three-Way polands hake)
	Many Many Many Many Many Many Many Many
+	TEP is one of the another rule used in networking for communication between 2 devices.
, At a	LOS communication totuean 2 devices.
-11-3	The TOP/IP protocof consists of four layers and is
12/1 (1)	as alguably just a summarcial version of the
BO SANN	The TOP/IP protocof consists of four toyers and is on arguebly just a summarized version of the OCT model. These layers are
5 600	Application
•	Transport
	Reternet
	Network Interface.
MAN	The same of the probability of the state of
-	connection - based, which means that It is
	connection based, which means that TCP
2 4	must establish a connection b/w both a
rall be	data is sent.
	data is sent.
\rightarrow	Because of this, TCP gueentees that any data sent will be secured on the other end.
	data sent will be sectioned on the other
	which is domothing to the come on to
ALL CONTROL OF THE PARTY OF THE	

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Advantages of TCP Chuarantees the integrity of data. capable of synchronizing two devices to prevent each other from being flooded with data in the wrong order. lesforms a lot more processes for reliability Disadvantages of TEP Requires a reliable connection b/w the two devices. If one small one chunk of data is not received, then the entire chunk of data connot be used and must bence - center of hours to any rade - A slow connection an bottleneck another device as the connection will be reserved on the other device the whole time. - TCP is dignificantly slower than VDP because more work (computing) has to be done by the devices using this protocol. The artifactionist parcet can be well TCP packet contain valious sections of information known as headers that are added from incapsulation. Lone en cuial headers are: Source part, doct, port, souce IP, det. IP, sequince No., checkeum acknowlegement No., sheckeum, data, flog

Three-way handshake Shee - way hand shake - the team given for the process used to establish a connection b/w messages it include while communicating ase: Description A SYN massage is the initial packet aint by a client during the hands hake. This packet is used to initiate a connection and synchronise thetwo devices together. SYN/ACK This packet is sent by the receiving derice (server) to acknowledge the synchronisation attempt from the client. The acknowledgement packet can be used by 3. elther the client of sexues to acknowledge that a reside of messages/ nackets have been ourcessfully seconced. once a connection has been esta blished data (such as bytes of a file) went via that DATA melsage This packet is used to clearly lose the connection of 5. it has been complete. there was some problem during the process. For Ez. Who service quickion is not working correctly, of the system has fourth such as