This is primarily used for mapping host and emais destinations to TP address best can also be used other purposes. DNs is defined in RFC, 1034 and 1035

working:

evilater To autordo in To map a name onto an Ip address, an application program calls a library procedure called Revolves passing it the name as a parameter.

Samo sof asing a replace of the stand

the errolliner bound or not backet to a rocar Disserval which books up the name and returns the IP address to the seewher, which then sesturm it to the calle

* Armed with the IP address, the program can then cestablish a TCP connection with the destination, or Sand it UDP packets.

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is allow no orwand played

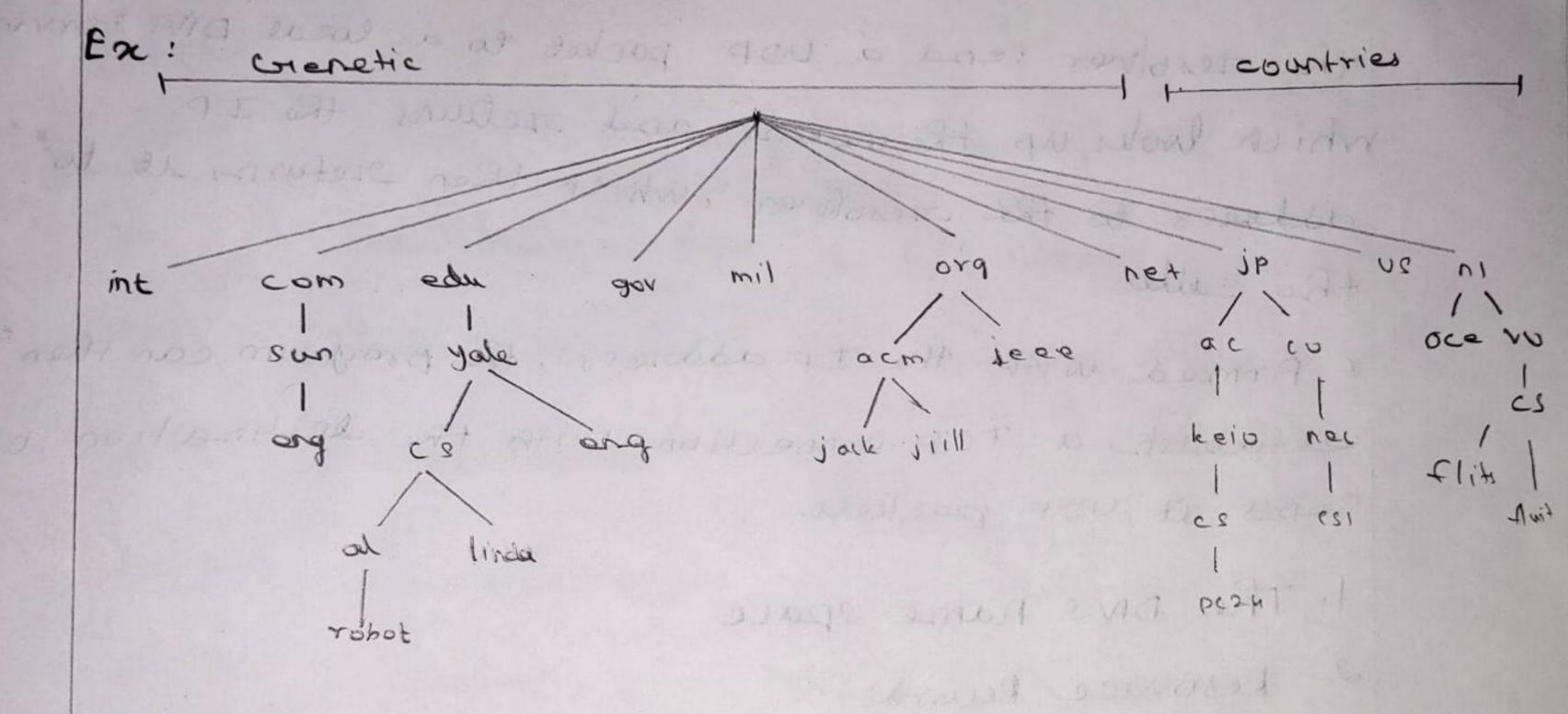
- 1. The DN3 name space
- Resource Records.
- 2 Name servers.

The DNS Name spale: The Internet is divided into several hundred top level Domain, where each domais covers many hosts. Each domais is pactitioned into sub domains, and there were fur the partitioned as so on. An there domains can be supresented by a tree, in which the leaves represent domains that Lane no sus domains. A leaf domain may contain a Single host for it may represent a company and contain thousand of hosts.

The top domain comes in 2 Flavours!

* VI enetic: com (commercial), adu (education instructions), mil (the U.s. armed forces, government), int (certain international organizations).

* Country: Include I entry for every country. Domain names can be either absolute or relative. Domain names are case sensitive and the component name can be up to 68 characters long and full path names must not exceed 255 characters.



2 Resource Records:

Every domain can have a sent of the most common associated with it. For a single host, the most common resource record is just its Ip address. When a tresource records a domain name to DNS, it gets both the tresource records associated with that name.

			I have been			-	
1	Domois	Name	Time	so live	Type	dass	value

Domain-name: Tells the domain to which this reword applies.

Las uneginos e savergos pende not don algeris

Time to - line: Crive on identification of how stable the stecord is (High stable = 86400 i.e no. 01. sec/day)

Type: Tells what kind of record this.

Class: It is IN for the internet information and codes for non internet information.

Value: This field can be a number a domain name or an ASCII Etring.

Type	Meaning	value	
908	Start of Authority	parameters for this	
P	IPaddress of host	zone 32-bet integer	
MX	Mail Exchange	principal domain willing	
2	Name rerver	to accept e-mail	
CNAME	canonice name	this demain	
PTR	Pointer	Alias for an It address	
HWYPO	Host description	coo and os in Asc11	
TXT	Tent	uninterpreted AscII	
in sallen	200/19/23/ 100 VISTO 8 - 10-11/6003	140001 9204448 099	

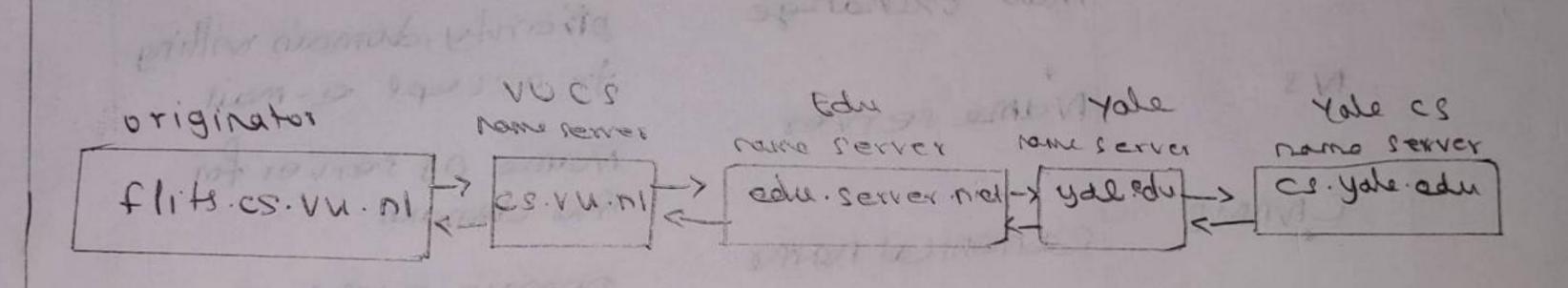
3. Name genver: It contain the entire database and tesponds to all queries about it. Das name space it divided up into non-overlapping zone, in which wall zone contain some past of the tree and also contain name server holding the authoritative information about that zone

when a resolver has a query about a domain name, it passes the query to one of the local name servers:

- 1. If the domain boung sought four under the jurisdiction of name sorver. it return the authoritative resources.

 The cord.
- 2. If the domain is remote and no information about the requested domain is available locally the name server sends a query message to the top level name server for the domain requested.

E.g: A resolver of fluts. cr. vle.nl wants to know the IP address of host Linda. cr. yale adv



- Step 1: Resolver send a query containing domain rame sought the type and the class to local name server, cs. vu.nl.
- step 2: Suppose local name server known nothing about it, it asks few others nearby name servers. It none of them know, it sends a upp packet to the server for edu-server. Let.
- step 8: This server knows nothing about Linda.cs. yole ed benger aft the server and 10 it forwards the request to the name server for yole. adu

step 4: This one forwards the request to cs. yale edu.
Which must have authoritative resource records.

Step 5 to 8: The stessource record requested work its
way back in steps 5-8 this query method
is known as Recursive Query.

when a query connot be satisfied boally, the query falls but the name of the next server along the line to bry is returned.