



















<b>DNS</b> Organization						
Item	Global	Administrational	Managerial			
Geographical scale of network	Worldwide	Organization	Department			
Total number of nodes	Few	Many	Vast numbers			
Responsiveness to lookups	Seconds	Milliseconds	Immediate			
Update propagation	Lazy	Immediate	Immediate			
Number of replicas	Many	None or few	None			
Is client-side caching applied?	Yes	Yes	Sometimes			

• A comparison between name servers for implementing nodes from a large-scale name space partitioned into a global layer, as an administrational layer, and a managerial layer.

Type of Associated record entity		Description		
SOA	Zone	Holds information on the represented zone		
A	Host	Contains an IP address of the host this node represents		
MX	Domain	Refers to a mail server to handle mail addressed to this node		
SRV	Domain	Refers to a server handling a specific service		
NS	Zone	Refers to a name server that implements the represented zone		
CNAME	Node	Symbolic link with the primary name of the represented node		
PTR	Host	Contains the canonical name of a host		
HINFO	Host	Holds information on the host this node represents		
ТХТ	Any kind	Contains any entity-specific information considered useful		

	Name	Record type	Record value
	cs.vu.nl	SOA	star (1999121502,7200,3600,2419200,86400
An excerpt	cs.vu.nl	NS	star.cs.vu.nl
i in excerpt	cs.vu.nl	NS	top.cs.vu.nl
from the	cs.vu.nl	NS	solo.cs.vu.nl
from the	cs.vu.nl	TXT	"Vrije Universiteit - Math. & Comp. Sc."
DNS	cs.vu.nl	MX	1 zephyr.cs.vu.nl
DINS	cs.vu.nl	MX	2 tornado.cs.vu.nl
database	cs.vu.nl	MX	3 star.cs.vu.nl
ualabase	star.cs.vu.nl	HINFO	Sun Unix
for the	star.cs.vu.nl	MX	1 star.cs.vu.nl
for the	star.cs.vu.nl	MX	10 zephyr.cs.vu.nl
7000	star.cs.vu.nl	A	130.37.24.6 192.31.231.42
zone			
cs.vu.nl.	zephyr.cs.vu.nl	HINFO	Sun Unix
	zephyr.cs.vu.nl	MX MX	1 zephyr.cs.vu.nl 2 tornado.cs.vu.nl
	zephyr.cs.vu.nl zephyr.cs.vu.nl	A	2 tornado.cs.vu.ni 192.31.231.66
		CNAME	
	www.cs.vu.nl		soling.cs.vu.nl
	ftp.cs.vu.nl	CNAME	soling.cs.vu.nl
	soling.cs.vu.nl	HINFO	Sun Unix
	soling.cs.vu.nl	MX	1 soling.cs.vu.nl
	soling.cs.vu.nl	MX A	10 zephyr.cs.vu.nl 130.37.24.11
	soling.cs.vu.nl		
	laser.cs.vu.nl	HINFO	PC MS-DOS
	laser.cs.vu.nl	A	130.37.30.32
	vucs-das.cs.vu.nl vucs-das.cs.vu.nl	PTR A	0.26.37.130.in-addr.arpa 130.37.26.0



















