Names are a sequence of labels, separated by dots.

Name anatomy

Finding a host name is called a name lookup. The reverse
lookup of 4.16.2.29

Example:

dns -a

A host name associates a human-friendly name with an IP address.
Now there are some new ones.

ISO 3166 country codes continue

data domains

International organizations

Other organizations

Military networks

Commercial organizations

Governmental institutions

edu

Education institutions (4-year)

com

Top level domains

- Independent of physical structure

- Hierarchical structure

- General purpose

- Client server architecture

- Distributed database

DNS

First implementation software called JEHVES.

scite the domain Name System DNS.

1984, Paul Mockapetris releases RFC882 and RFC883 that de-

- consistency

- name collisions

- traffic and load

Problems

downloaded frequently by all hosts on the Internet.

In the 70s, one single file HOSTS.TXT was maintained at SRI-NIC.