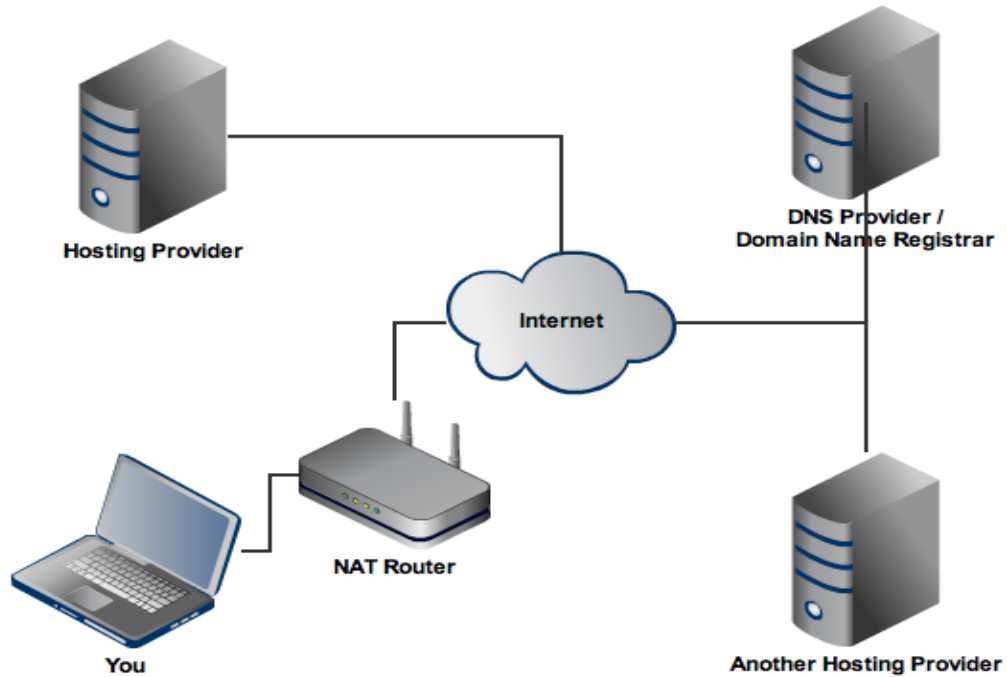


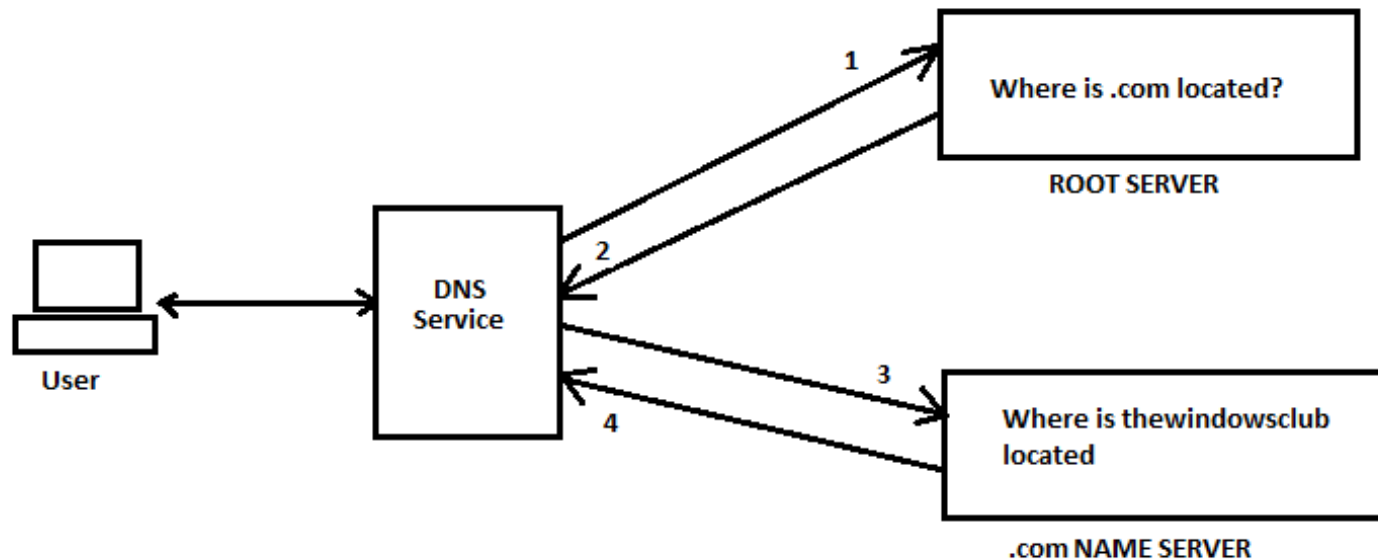
Internet

For Programmers

Web Client - Web Server

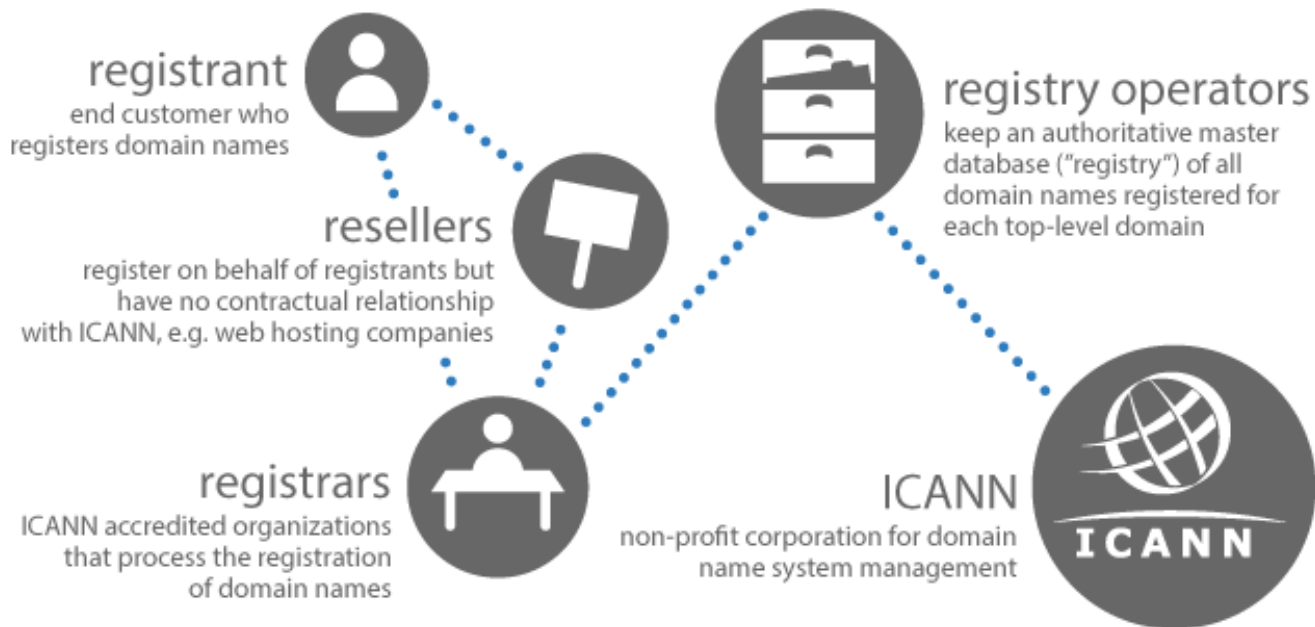


DNS Service



Understanding How DNS Lookup Works

Domain Registry



domain registry process

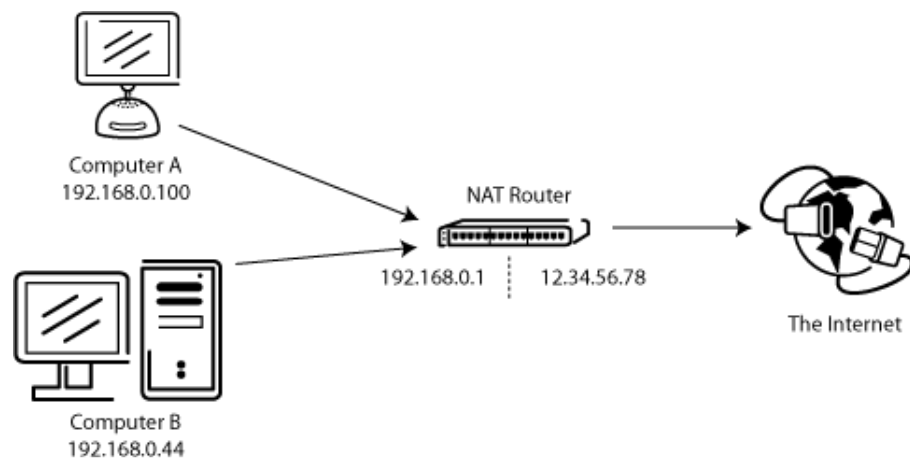
NAT Router

2^{32} - 4,294,967,296

8.7 billion - 2012

50 billion - 2020

Nat Router



Protocol	: TCP
Source Address	: 192.168.0.12
Source Port	: 1944
Destination Address	: 208.147.66.234
Destination Port	: 21

NAT

Protocol	: TCP
Source Address	: 157.54.35.39
Source Port	: 5001
Destination Address	: 208.147.66.234
Destination Port	: 21

NAT Mapping Table

192.168.0.10: 3576	← TCP →	157.54.35.38: 5000	(Dynamic Address Translation)
192.168.0.11: 2258	← TCP →	157.54.35.39: 5000	(Dynamic Address Translation)
192.168.0.12: 1944	← TCP →	157.54.35.39: 5001	(Dynamic Port & Address Translation)