Recitation 3: DNS
Plan

- What is DNS for?
- How DNS works
  - Amit leads
- Hands-on with Dig
- Security issues

Logistics

- Design project
  → Our Now ←
- Reading: Unix
What is DNS for?

Mapping hostnames → IP addresses:
- logical addr → physical addr

Why would we want this?
- Clean UI
- Clean separation of concerns
- Fault tolerance
- Load balancing...

Why is it cool?
- Decentralized
- Scalable ("Internet scale")
- Fault tolerant
- Extensible

Remember phone numbers? Phone books?
How DNS works?

Amir's exercise goes here...

Record types

- A - IPv4 address
- AAAA - IPv6 address
- CNAME - Alias "common name"
- MX - mail
- NS - name serve
- LOC

...
Dig exercise goes here...
Security issues

DO NOT TRY THIS AT HOME!

* No privacy
* No authentication (cache poisoning)

* Censorship (see UK)

* Anyone can register any name.
  
  finance.mit.edu
  google.com
  mit.co.uk
  mit.edu

If time, mention DoH...