PROJECT 2: DYNAMIC DNS

EE122: Introduction to Communication Networks (Fall 2008)
    University of California, Berkeley

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part A  Dynamic DNS server and client

part B  P2P gossiping among your servers to learn name mappings
part A: dynamic DNS

Name database

<table>
<thead>
<tr>
<th>name</th>
<th>IP addr.</th>
<th>TTL</th>
</tr>
</thead>
<tbody>
<tr>
<td>laptop.nullpointer.org</td>
<td>128.32.5.222</td>
<td>60</td>
</tr>
<tr>
<td>laptop.nullpointer.org</td>
<td>128.32.48.111</td>
<td>60</td>
</tr>
</tbody>
</table>

128.32.48.111
laptop.nullpointer.org?

128.32.5.222

128.32.5.222

Part of a university campus with a clock tower and other buildings.
part B: P2P gossiping
key ideas

- **Real protocol**
  - If you want, buy your own domain name and serve it with your server
  - *e.g.*, ee122madeallmydreamscometrue.com
  - We'll also give you publicly-accessible names to serve

- **UDP datagrams**
- **Soft state**