

Domain Name System (DNS)

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Names, Addresses, Mapping

❖ **Binding Names to Objects**

- ARP: mapping between layer 2 address and IP address
- DHCP: getting a new IP address

❖ **How to implement?**

DNS: Mapping between Name and Address

- ❖ **Why do we names?**
- ❖ **How do we efficiently locate resources?**
 - DNS: name → IP address
- ❖ **Challenge**
 - How do we scale these to the wide area?