

# DNS

## Delegation

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### Explanatory review

- Where do `cs.utahtech.edu` servers get authority?
  - Where did you get authority for the `it.cit.utahtech.edu` subdomain?
  - Where did you get authority for your domain?
  - What information had to be given to registrar for delegation?
    - Name and ip of each authoritative server.
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### Delegation

- Most registrars require at least 2 authoritative servers
  - Delegation, or glue, records link the DNS hierarchy together.
  - Caching lookup servers receive the glue records to recurse through the hierarchy.
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### Lessee Steps (Person wanting to get a subdomain)

- Arrange for subdomain from registrar
  - Configure one authoritative master
  - Configure one or more authoritative slaves
  - Give authoritative server information to registrar
  - Test.
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### Lessee Notes

- Its ok for new names to point to existing addresses
    - i.e. `ns1.games.horgoth.com` and `ns1.dsutux.us` both have same IP (A record)
  - We can have A records for IPs that aren't used yet
  - Slave and master are set up same way we set up previously
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### Registrar Notes

- Agree to delegate
    - What subdomain will you use?
  - Receive information from client
    - subdomain name, names and ips of clients authoritative servers
  - Add a NS and A record to zone file
    - Increment serial
    - These are the glue records
  - Restart bind
  - Test master and slave
  - Fix errors
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