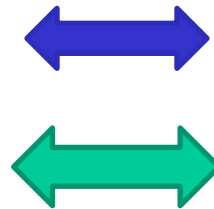


Homework 03

DNS

Architecture



b.nctucs.net
140.113.b.b
192.168.2.0/24

a.nctucs.net
140.113.a.a
192.168.1.0/24



slave



delegation

Requirement

- ❑ Setup a DNS server with BIND
 - Serve your own domain A
 - Serve your teammate B's domain as a slave
 - Updates should be synchronized
- ❑ Delegation
 - Delegate a sub-domain to your teammate B
- ❑ Reverse zone for your NAT
 - Each IP in 192.168.x.0/24
- ❑ SSHFP record for your server
 - Make a reasonable setting

Requirement (Cont.)

View

- Create TA.{your.domain} A record
- For queries from 192.168.0.0/16, answer 192.168.0.254
- Otherwise, answer your public IP

Logging

- Record all records to /var/log/named.log
- Do log rotate
- You might be asked to explain the meaning of each log entry

Security

- Only allow AXFR request from 140.113.235.0/24

Bonus – DNS Hosting Service

- Use database as backend
- Write a simple web page for user to input their zone data
- Zone files in BIND is still valid
- Hint: Dynamically Loadable Zones

Hand-in

- Due
 - 5/22
- Demo
 - TBA