

# DNS Exchange

Like an Internet Exchange, but for DNS...

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# Goal

- “A globally distributed, loosely coherent, scalable, reliable, dynamic database” - make it more distributed, more scalable, more reliable.
- Increase performance / decrease latency
- DoS Protection
- Decrease traffic

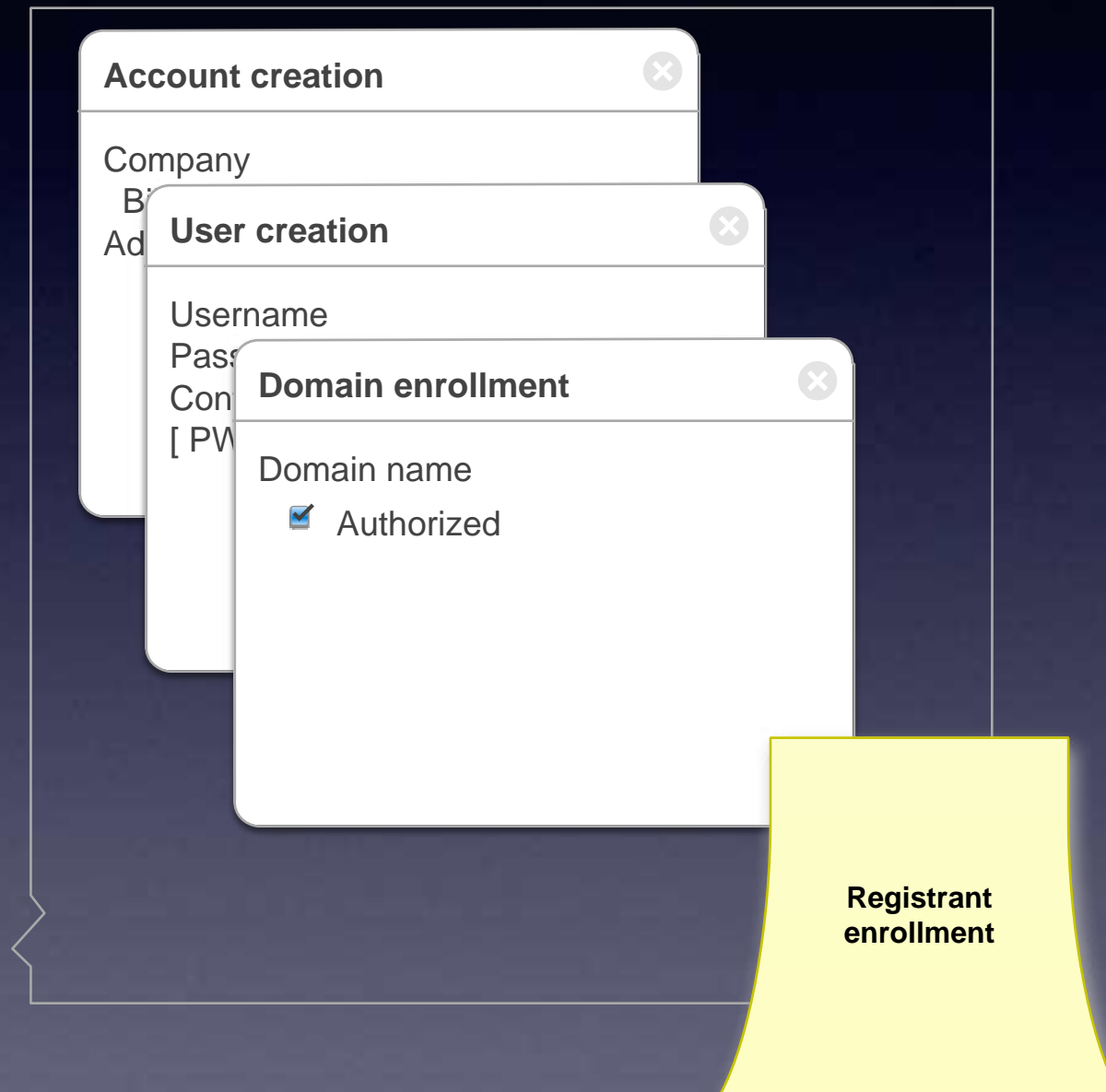
# Overview

- Federation
- People with zone files enroll in system, make zones available via AXFR/IXFR.
  - System fetches zones from them
- Resolvers enroll in system
  - Select the zones they want (or all)
  - Slave zones from the system

# Operation

- Zone gets updated, send notify to DNS Exchange
- DNS Exchange transfers zone
- DNS Exchange sends notify to subscribed resolvers
- Resolvers transfer zone from DNS Exchange
- No muss, no fuss...

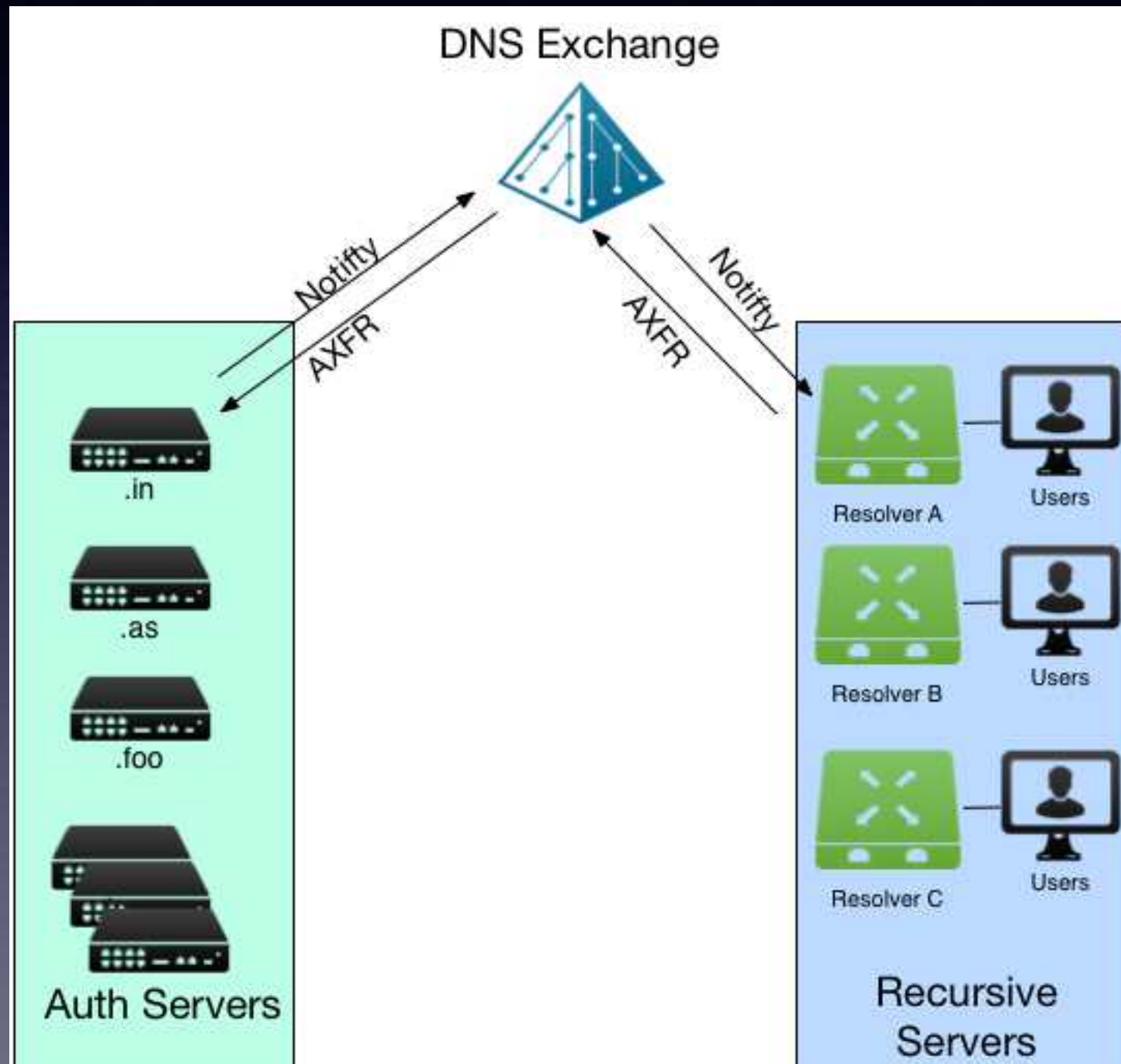
# Account setup



# Selecting domains to slave



# Logic



# Master config

```
// acme.bar -- Zone stanza generated by puppet.  
zone "acme.bar" {  
    type master;  
    file "/etc/namedb/acme.bar";  
    allow-transfer { slaves; dnsexchage; };  
    also-notify { 192.0.2.1; };  
};
```



# Recursive config

```
// acme.bar -- Zone generated by DNS Exchange.  
zone "acme.bar" {  
    type slave;  
    file "/etc/namedb/slave/acme.bar";  
    masterfile-format text;  
    masters { 192.0.2.1; };  
};
```

# Questions?