Running an Authoritative-only server

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Different type of servers

Several types of name servers

- Authoritative servers
  - master (primary)
  - slave (secondary)
- (Caching) recursive servers
  - also caching forwarders
- Mixture of functionality
Why to separate functionality?

Authoritative and non-authoritative data are served to different sets of clients.

- In order to serve authoritative data to the Internet, the nameserver must be outside any firewalls.
- Caching nameservers should generally be placed inside firewalls to protect them from outside abuse.

Serving authoritative data is more critical than serving cached data.
Why to separate functionality?

Authoritative server may serve authoritative data more efficiently when cached data does not compete for system resources.
- Recursing client uses memory (up to 20kb)
- Caching server uses memory to cache data
- Answering recursive queries needs processing time and system resources
How to run an Authoritative-only Name server

Stop recursion

* With bind9
  
  options {
    recursion no;
  };

Check dns response from server for “ra” flag