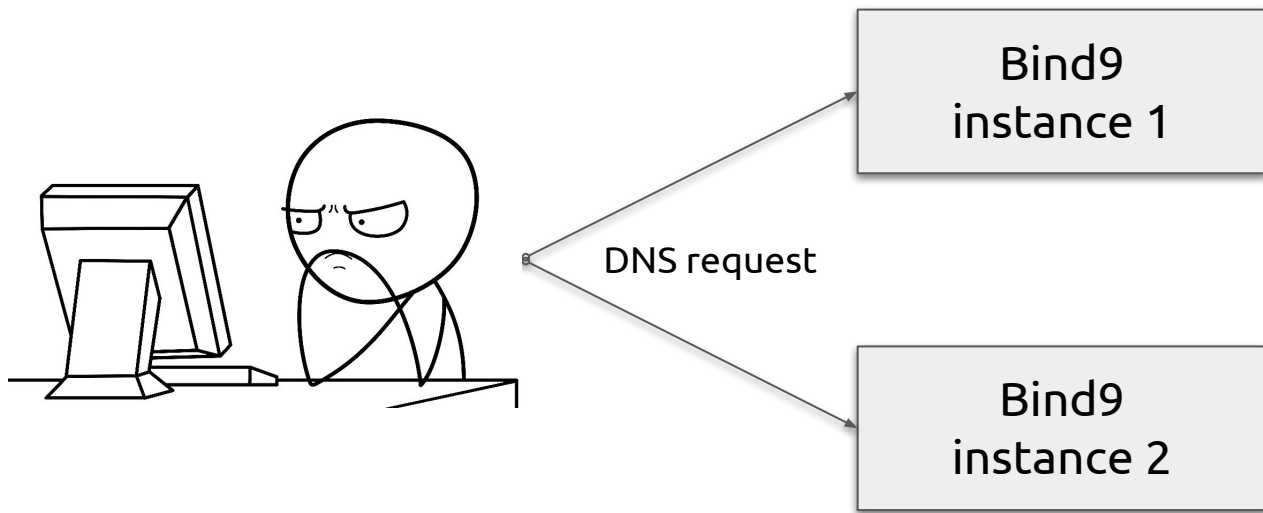# IT Infrastructure services

Roman Kuchin
Juri Hudolejev
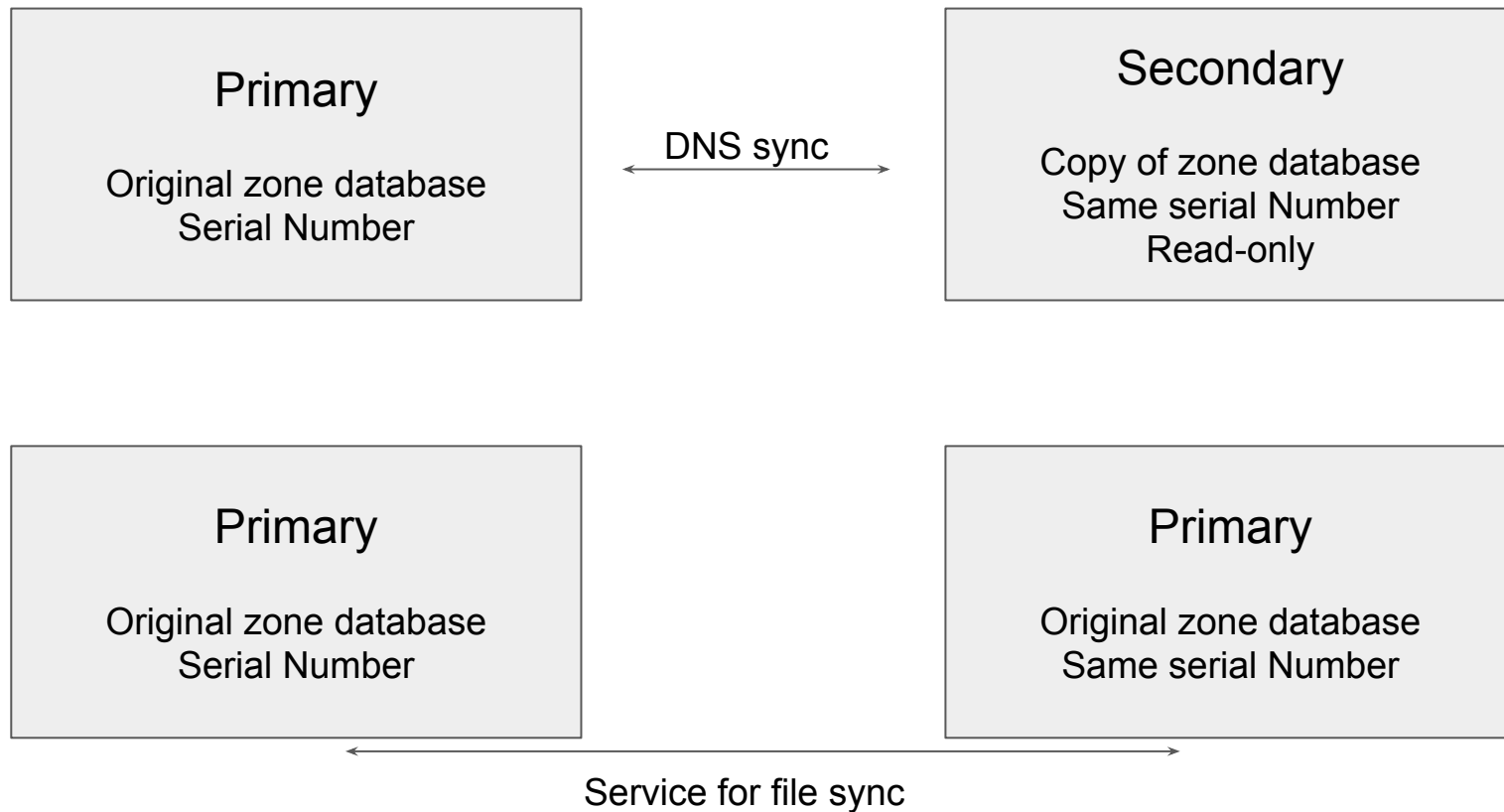2024

Everything should die!

DNS redundancy: round-robin


```
$ cat /etc/resolv.conf
nameserver 10.0.0.1
nameserver 10.0.0.2
```

HA setups

Primary

Original zone database
Serial Number

DNS sync

Secondary

Copy of zone database
Same serial Number
Read-only

Primary

Original zone database
Serial Number

Primary

Original zone database
Same serial Number

Service for file sync

SOA record

Example of zone database:

```
$TTL  604800
example.com.      IN    SOA   vm1.example.com. admin.example.com. (
                   1              ; Serial
                 604800           ; Refresh
                  86400           ; Retry
                2419200           ; Expire
                 604800           ; Negative Cache TTL
);
example.com.     IN    NS    vm1
example.com.     IN    NS    vm2
vm1              IN    A     10.0.0.1
vm2              IN    A     10.0.0.2
```

Example of SOA request:

```
$ dig soa +short google.com
ns1.google.com. dns-admin.google.com. 344600895 900 900 1800 60
```

Our HA setup