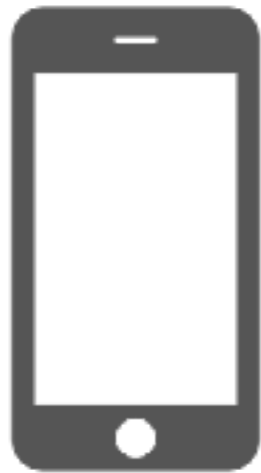
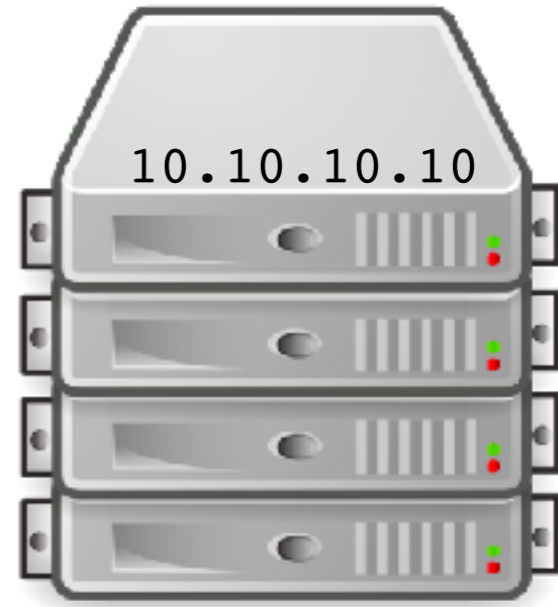
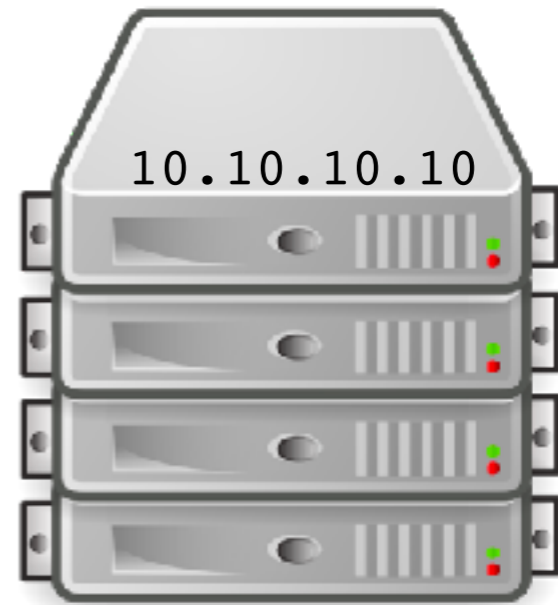
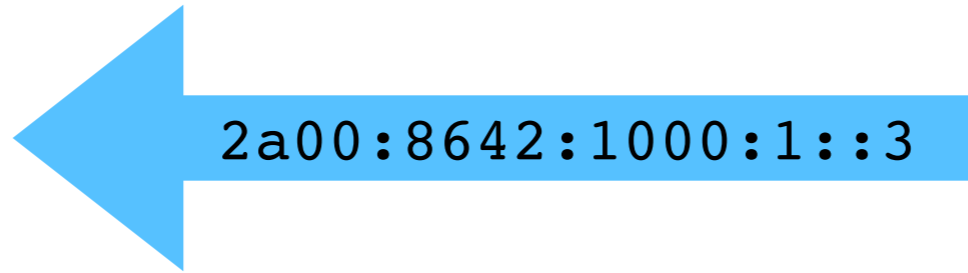
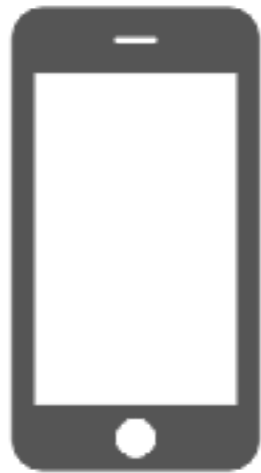


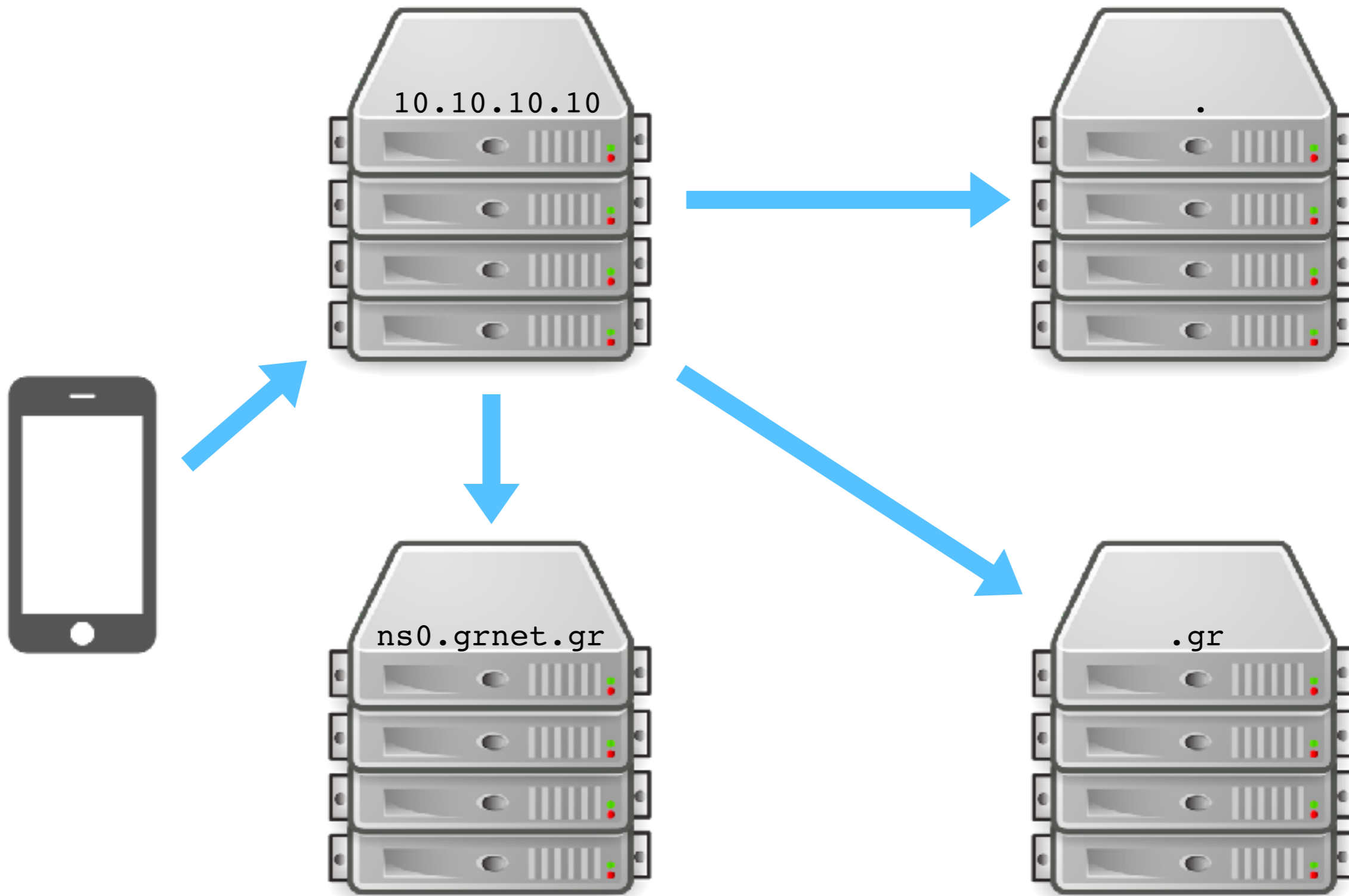
DNS over *

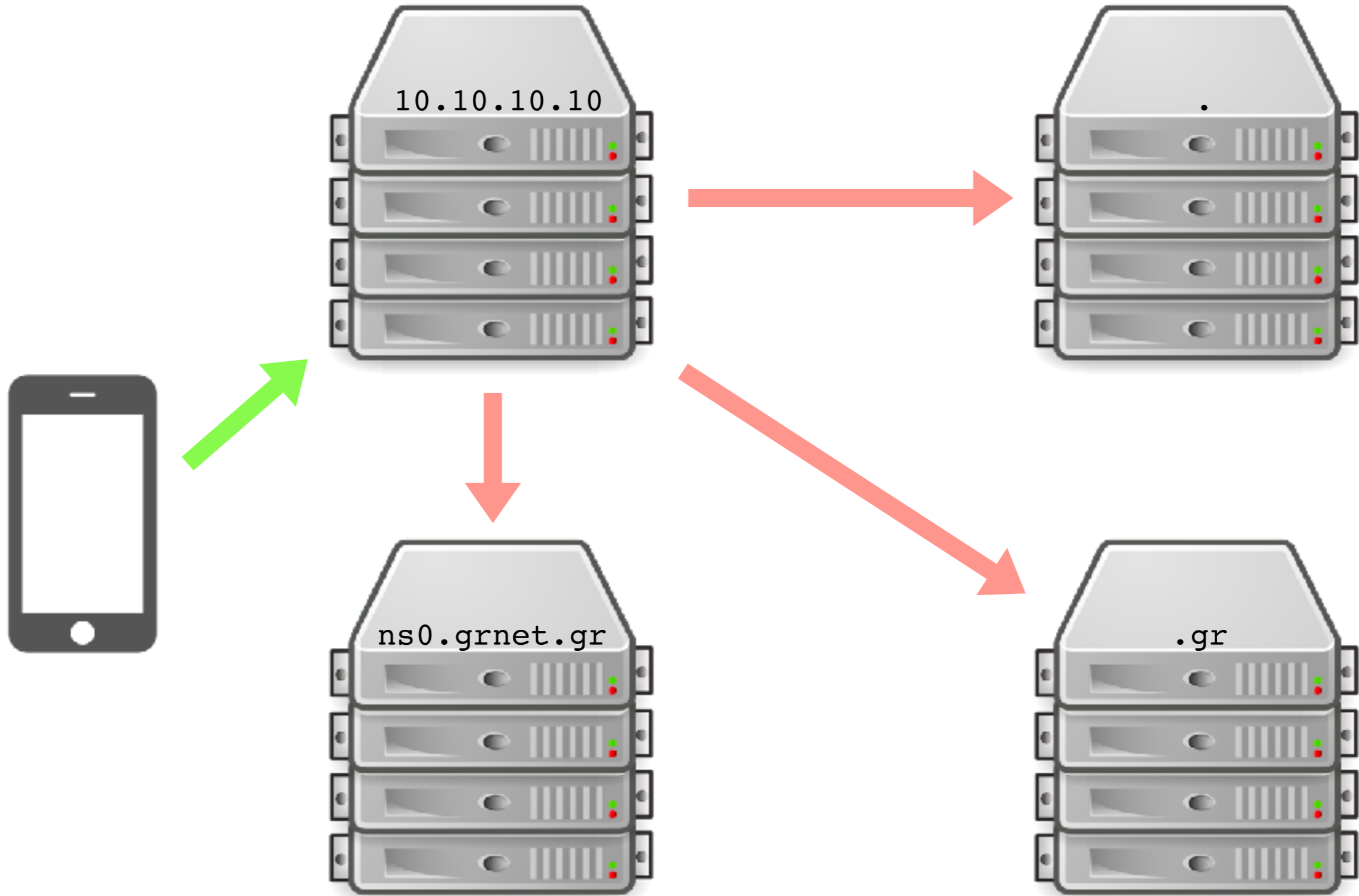


AAAA for grnog.gr?









Do* Transport

| | Encryption | Protocol | Port |
|-----------------|------------|------------|------|
| Traditional DNS | ✗ | UDP | 53 |
| DoT | ✓ | TCP | 853 |
| DoH | ✓ | TCP (HTTP) | 443 |
| DoQ | ✓ | UDP (H3) | 443 |

Do* Transport

| | Encryption | Protocol | Port |
|-----------------|------------|------------|------|
| Traditional DNS | ✗ | UDP | 53 |
| DoT | ✓ | TCP | 853 |
| DoH | ✓ | TCP (HTTP) | 443 |
| DoQ | ✓ | UDP (H3) | 443 |

Do* Threat Model

| | Customer ISP | Intermediate Networks | Resolver ISP | Resolver |
|--------------------|-----------------|--------------------------|-----------------|----------|
| Traditional DNS | ✓ | ✓ | ✓ | ✓ |
| DoT | ✓ | ✗ | ✗ | ✓ |
| DoH | ✗ | ✗ | ✗ | ✓ |
| DoQ | ✗ | ✗ | ✗ | ✓ |

Do* Network Threats

| | Read Queries | Modify Queries | Hijack Queries |
|-----------------|--------------|----------------|----------------|
| Traditional DNS | ✓ | ✓ | ✓ |
| DoT | ✗ | ✗ | ✓ |
| DoH | ✗ | ✗ | ✗ |
| DoQ | ✗ | ✗ | ✗ |

What do you gain?

- Security
 - Responses cannot be changed
- Privacy
 - Queries cannot be read / logged

What do you lose?

- Network Visibility
- Protection Against Threats

Do you, really?

Open Discussion

Please stay on topic! 😊