

# Preventing DNS spoofing

**DNSSEC** - Domain Name System Security Extensions provides authentication (but not encryption) between DNS servers

- Not widely deployed

**DNS over HTTPS** (since 2018) provides authentication and encryption between client/server and server/server

- Pushed by Google and Mozilla

# Preventing route hijacking (BGP)

## **Bogon Filtering**

*Best Current Practice* to limit fake route advertisement

Deny route advertised by hosts with spoofed addresses

➡ Implemented by ISPs (Internet Service Providers)