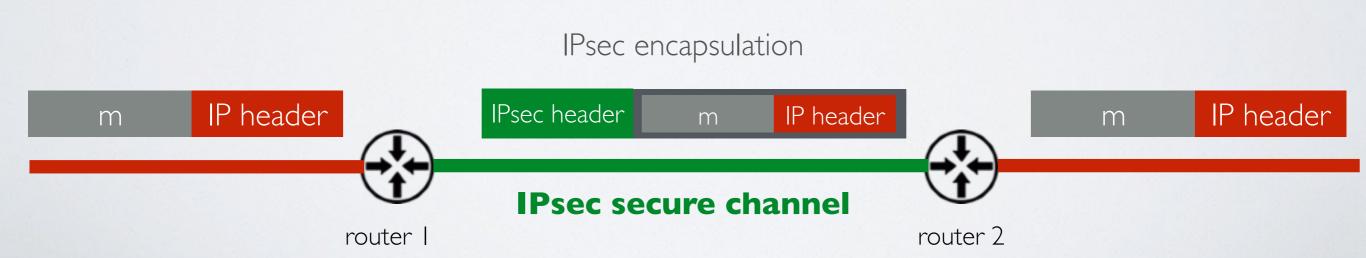
Preventing IP forgery

- IPsec Internet Protocol Security provides authentication (and optionally encryption) of IP traffic
- → Uses SHA2 and AES (previously SHA1 and 3DES)
- ✓ Used usually between routers (link and network layers only)
- However IPsec is rarely deployed in practice



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