

Preventing ARP-cache poisoning

- **Authenticating ARP messages** has been proposed (research) but never implemented
- **Static ARP** tables (not practical in dynamic environment)
- **Detection and correction** tools

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

