

# Signposts



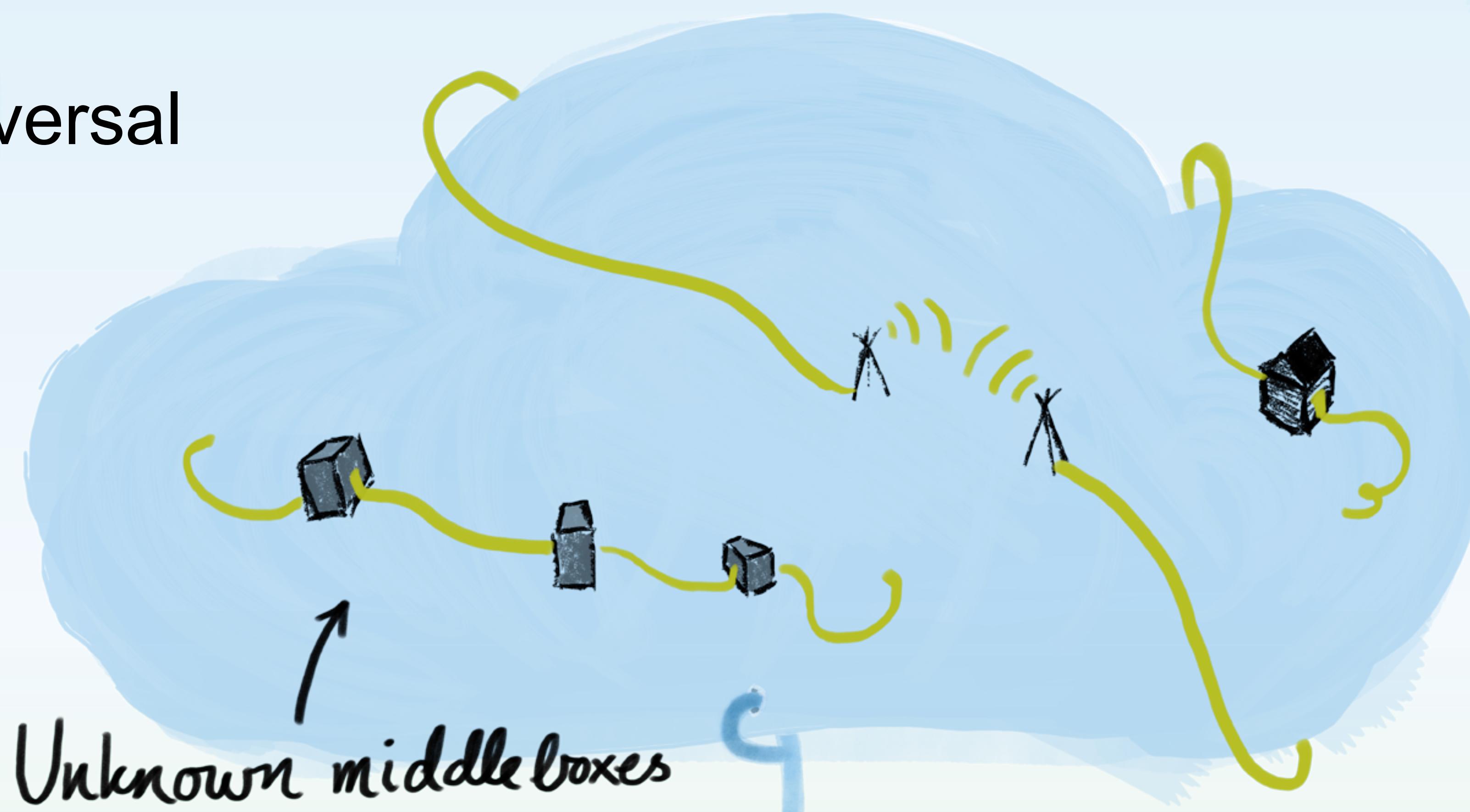
**Signposts** provides users with a secure, simple mechanism to establish and maintain communication channels between their personal cloud of named devices.

**Signpost** names exist in the DNSSEC hierarchy, and resolve to secure end-points when accessed by existing DNS clients.

**Signpost** clients intercept user connection intentions while adding privacy and multipath support. **Signpost** servers co-ordinate clients to dynamically discover routes and overcome the middleboxes that pervade modern edge networks.

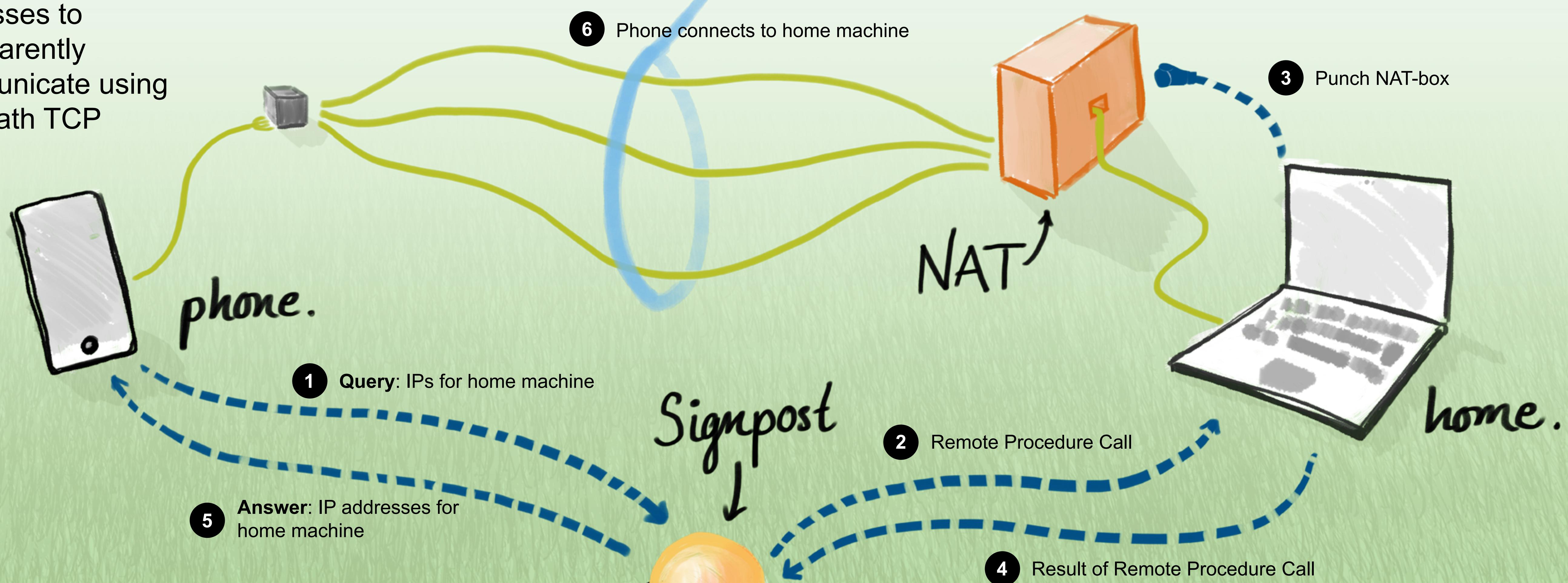
## Middlebox traversal

Using a tactics engine, Signposts automatically traverses the middleboxes between your devices



## Multipath

Signposts allows processes to transparently communicate using multipath TCP



## Secure identity

Signposts is built on top of DNSSEC.

DNSSEC gives both the connecting device, and the device being connected to, a verifiable identity.

DNSSEC is also used to derive secrets (e.g., PEM or X.509) for initiating encrypted communication between devices.

