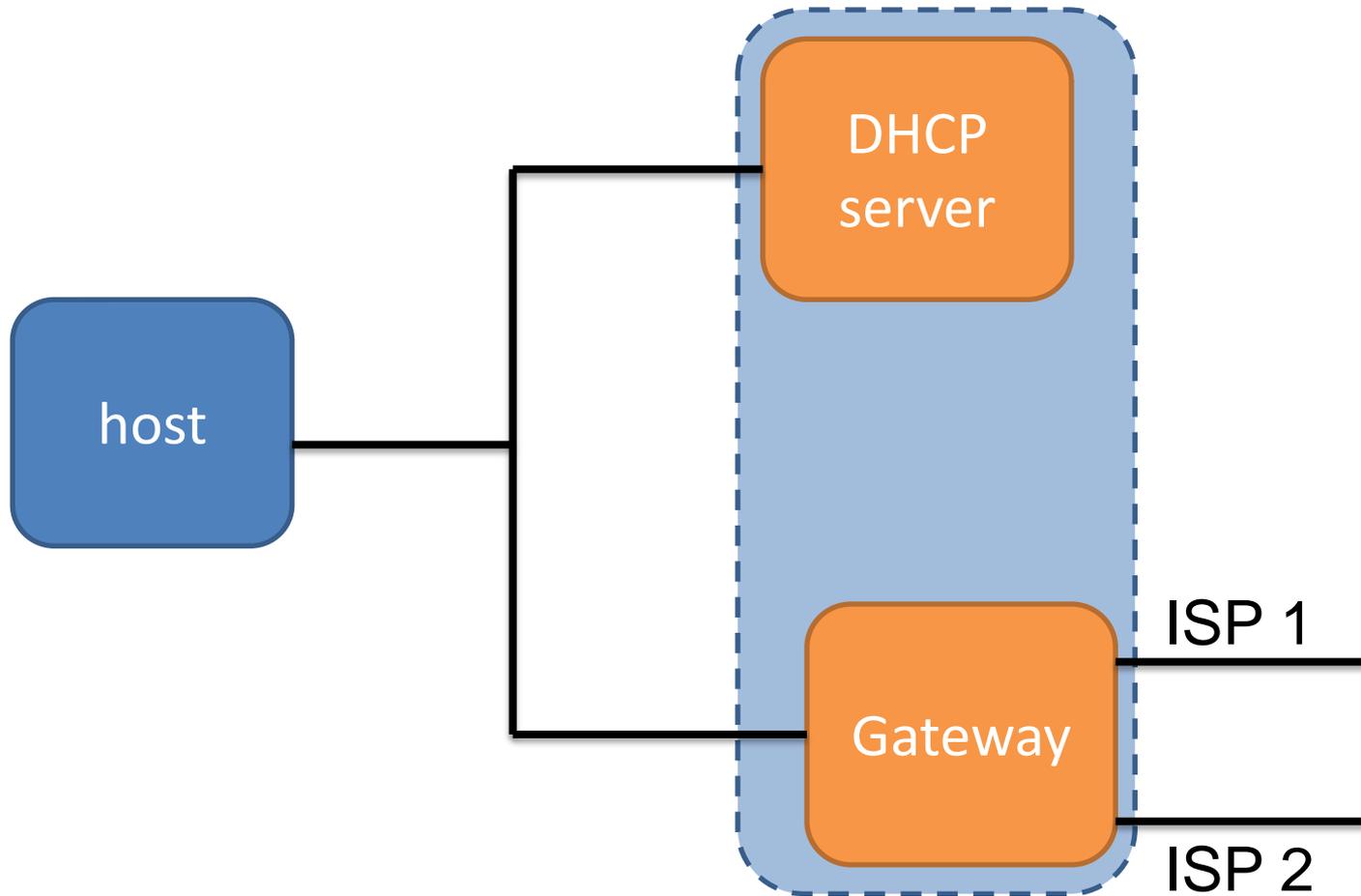


Autoconfiguring single-homed end systems to make use of network multi-homing

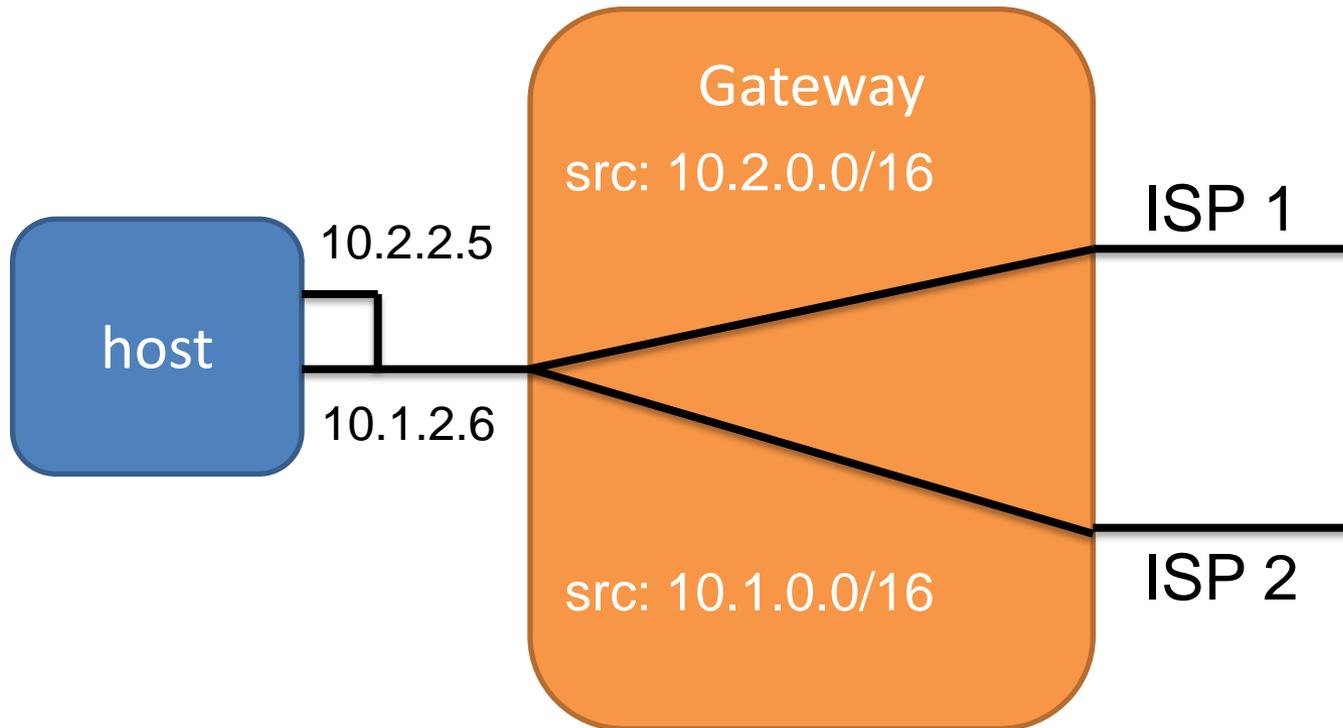
Rolf Winter

Andreas Ripke

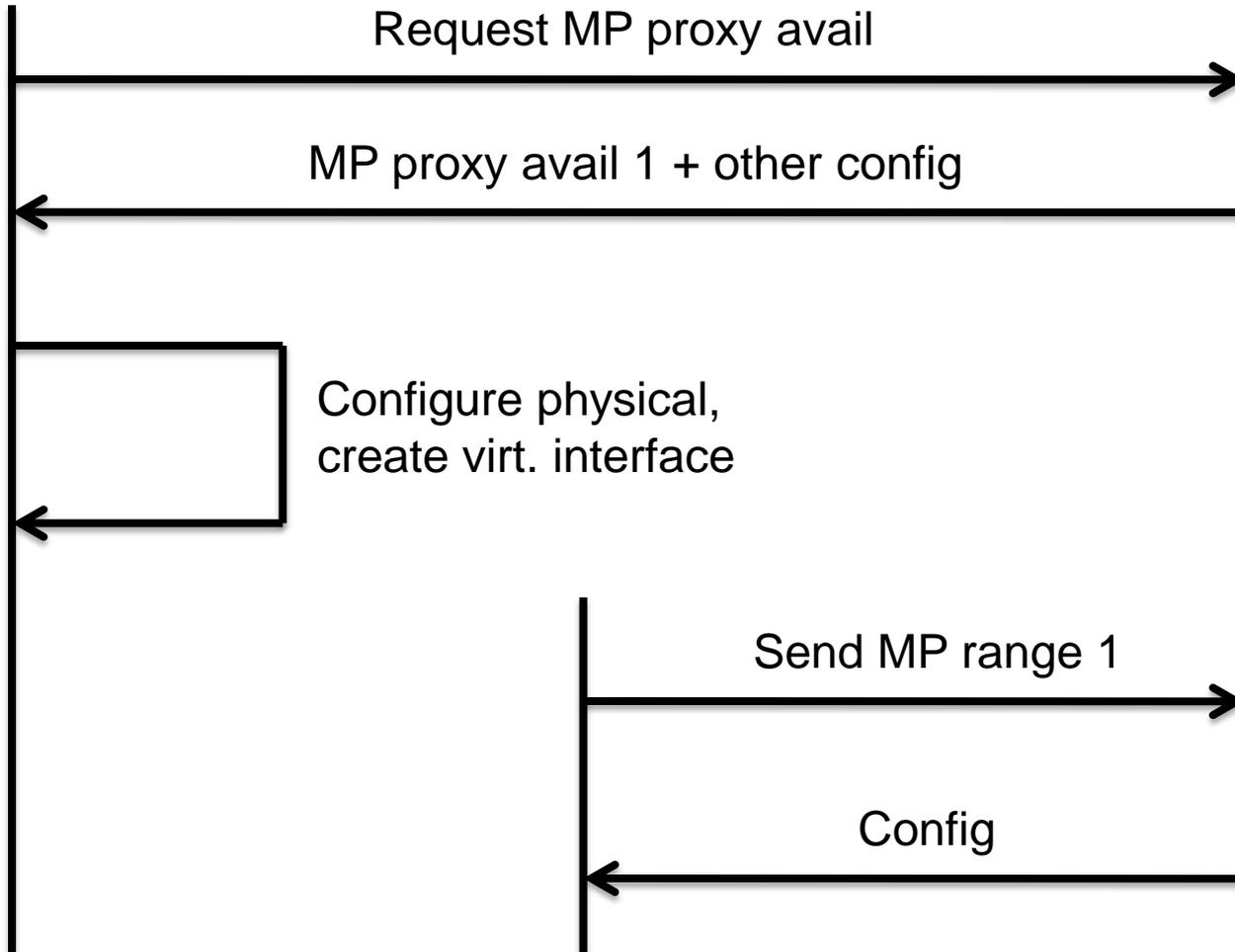
Scenario



One Possible Solution - I



One Possible Solution - II



Implementation

- Implemented using ISC DHCP server/client (latest version)
 - Was easy (little scripting on the client side but mostly config)
- Working in a testbed setup

Other ways to achieve the same

(or something similar)

- Server sends two (n really) offers – client accepts both (all, subset)
 - Good for environments with two (n) DHCP servers, one for each ISP connection – only client changes
 - Client-side behavior is not standard behavior
 - Does not guarantee that this actually will be routed differently
 - Single DHCP server and client (always) needs to change anyway

Other ways to achieve the same

(or something similar)

- Make use of ECMP at the gateway (different port numbers)
 - Would work today
 - Trial and error
 - Depends on ECMP algo (needs to include port numbers)

Is this Useful?