

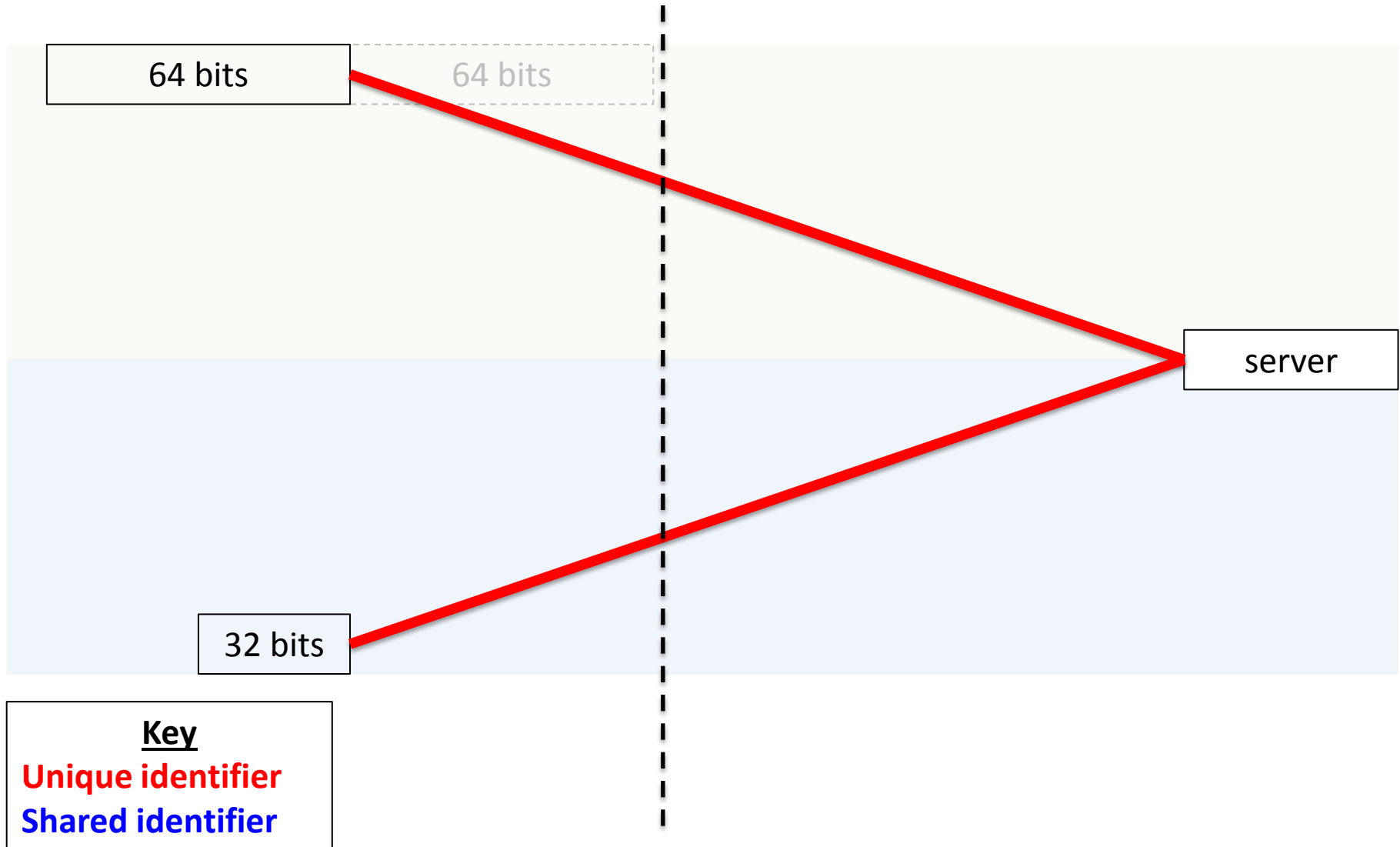
IP Address Privacy

Dan Wing

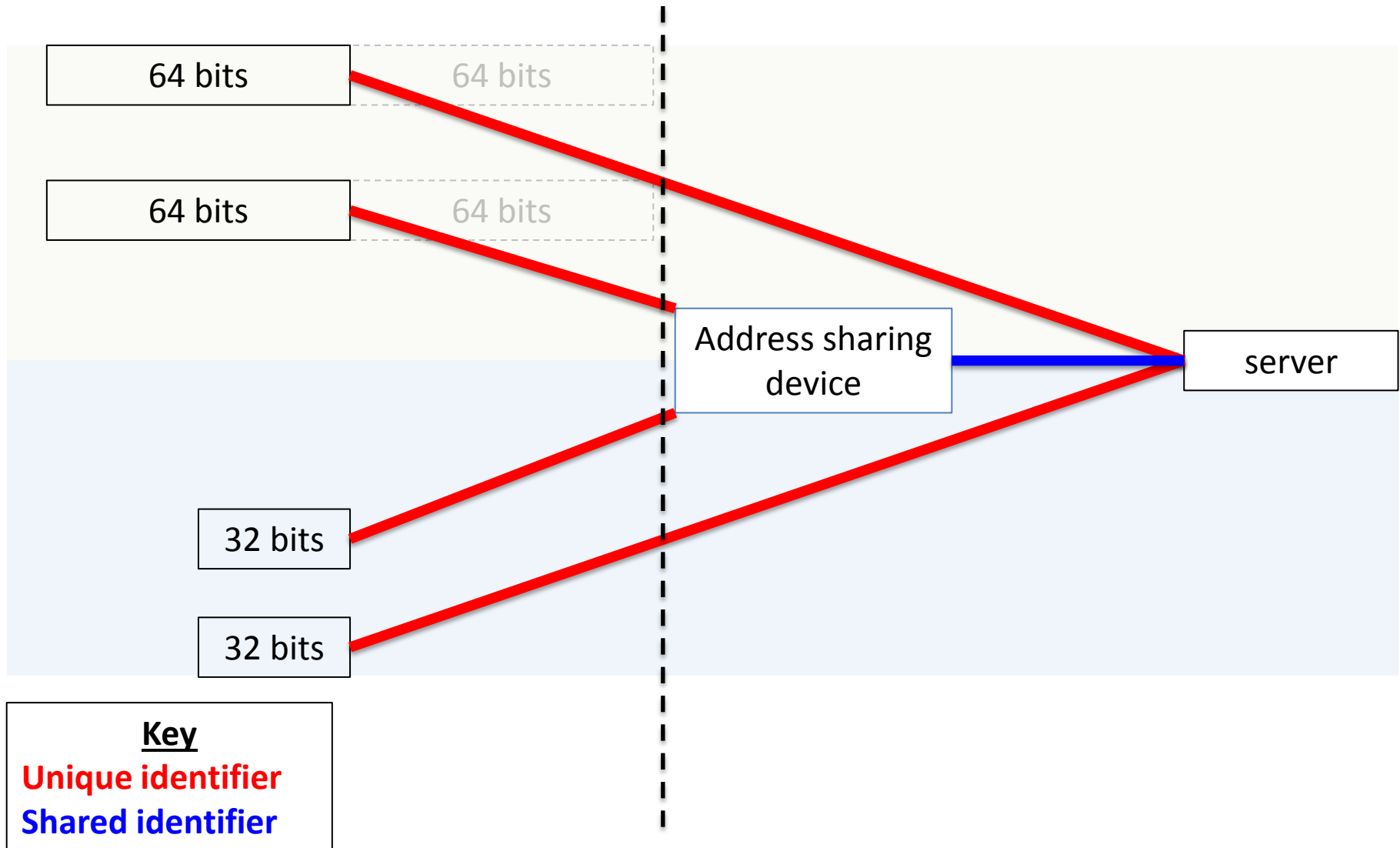
Address Sharing in the Wild

- Application proxy
 - HTTP, FTP, RTSP, SOCKS
- TCP proxy
 - Inline web caching proxies
 - TCP accelerators
- NAT64
- NAT44 (really, NAPT44)

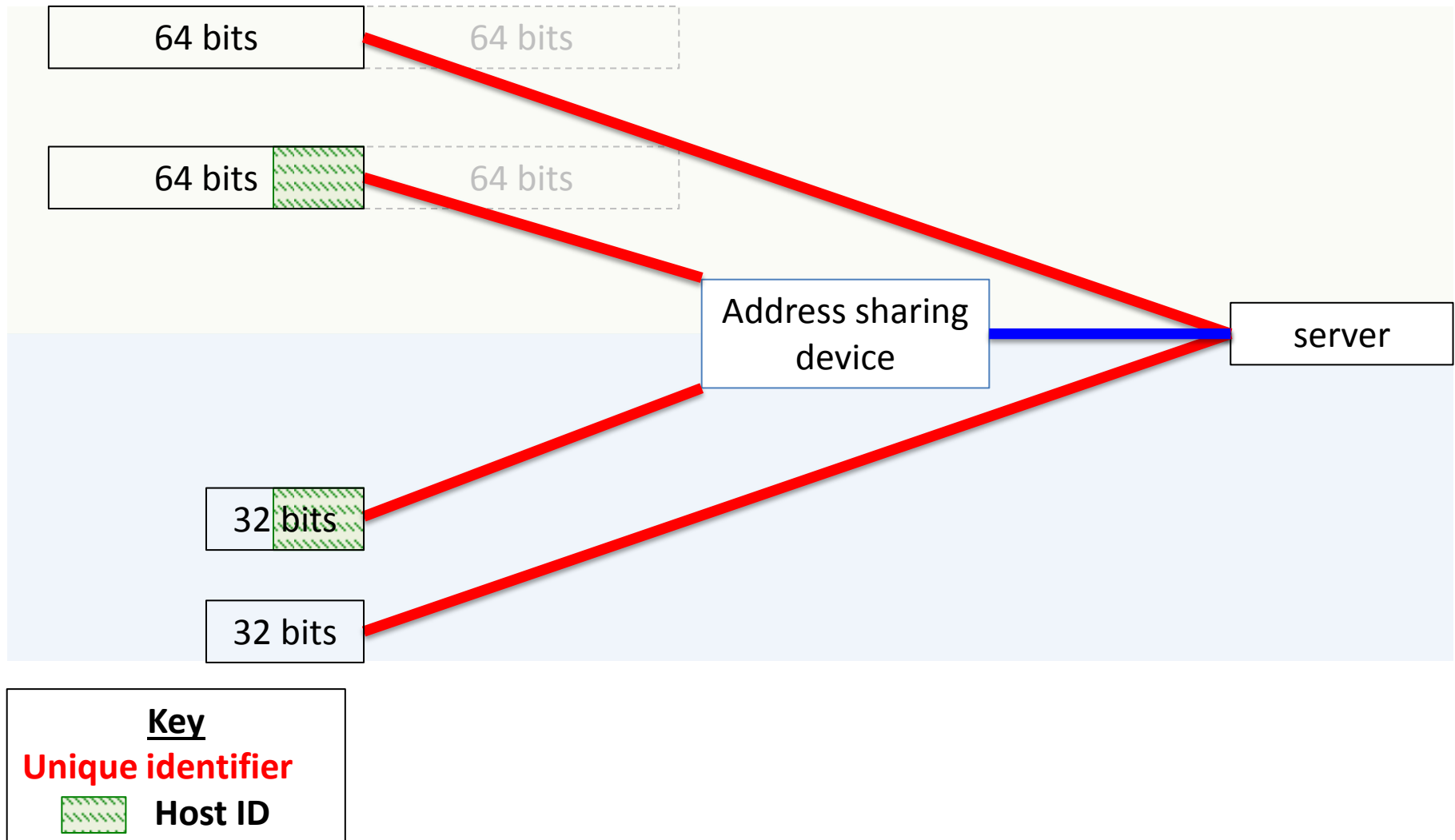
Without Address Sharing



Address Sharing



Address Sharing with Host ID



Privacy Comparison

- IPv6 prefix is identifiable to a “home”
- Host identifier also identifiable to a “home”
- Carrier NAT provides better privacy
 - More users sharing one IP address
 - Yet, we hate NAT