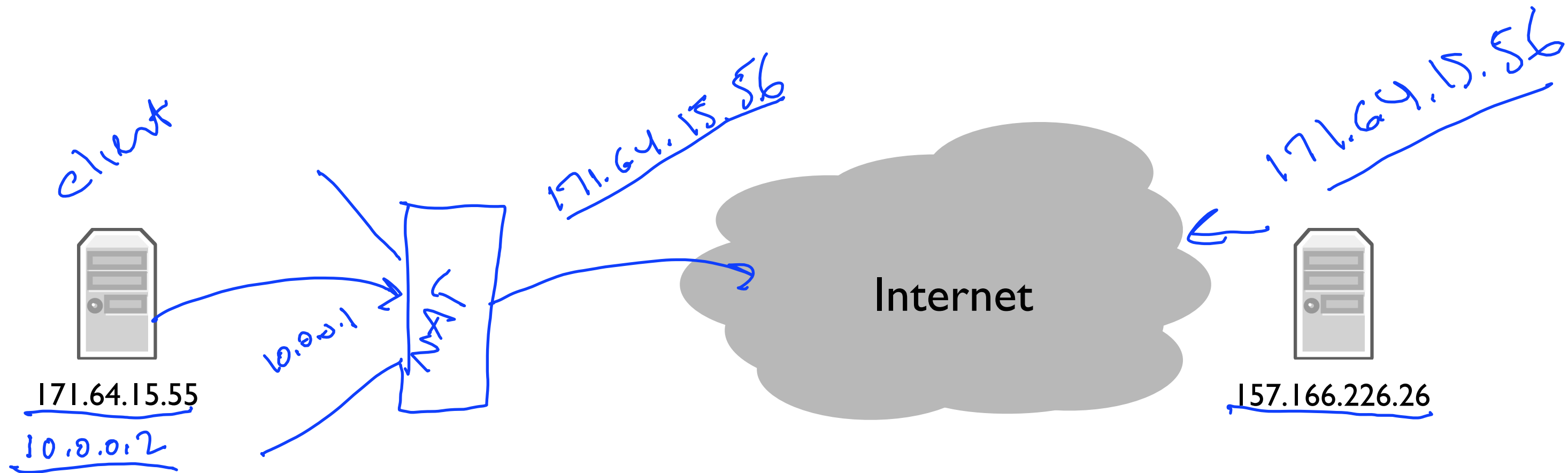


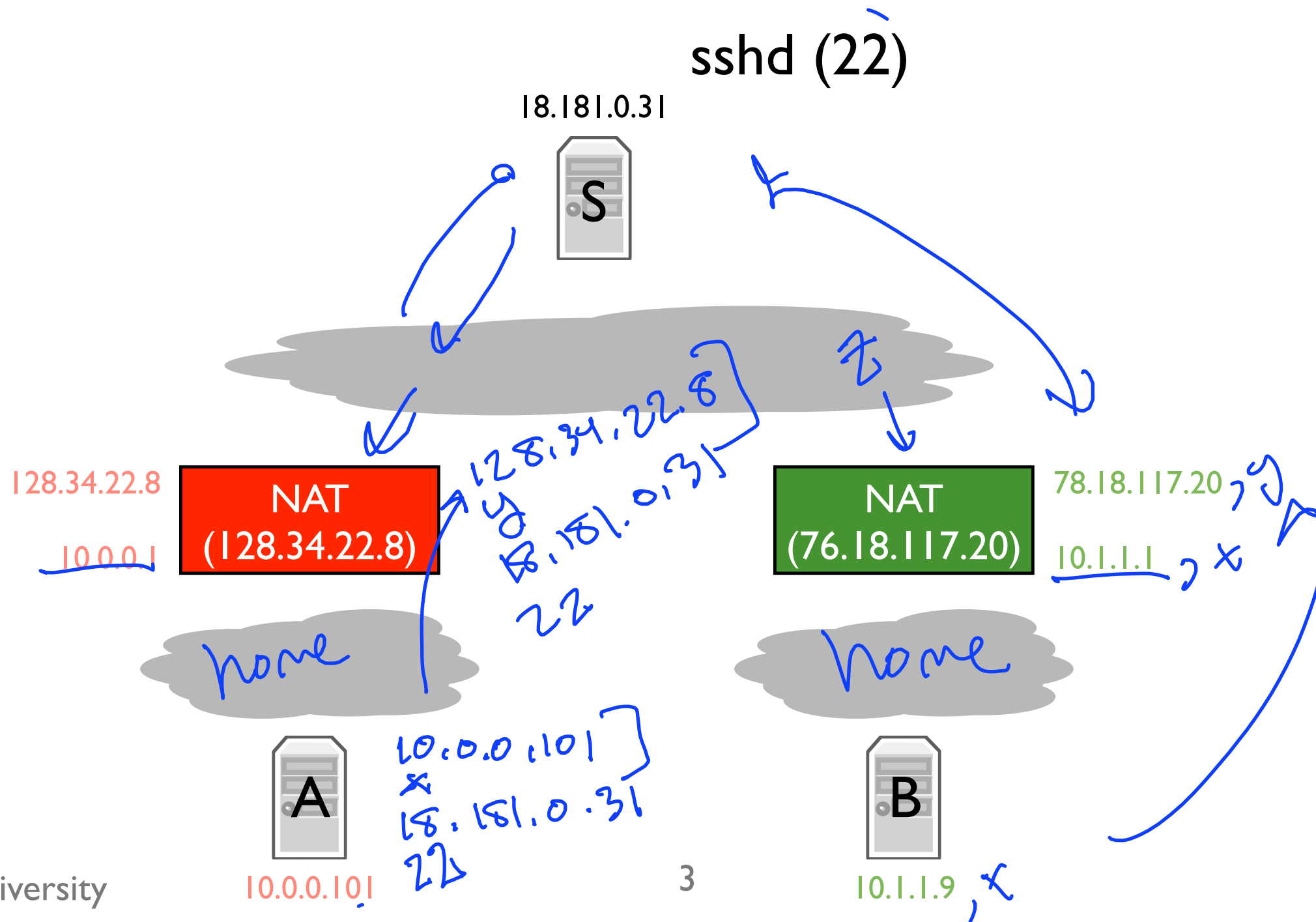
Network Address Translation (NAT)

Network Address Translator (NAT)

RFC1631



NAT Example



NAT Benefits and Complications

- Benefits
 - ▶ Can use private addresses: there are only 2^{32} IP addresses
 - ▶ Firewalls for security
- Complications
 - ▶ Breaks end-to-end (node does not know its external IP)
 - ▶ Node might not even know if it's behind a NAT
 - ▶ Incoming connections break easily
 - ▶ NAT must be aware of transport layer
- RFC 4787/BCP 127 defines recommended behavior

$32 + 16 > 128$
public, 6/29

NAT Example

