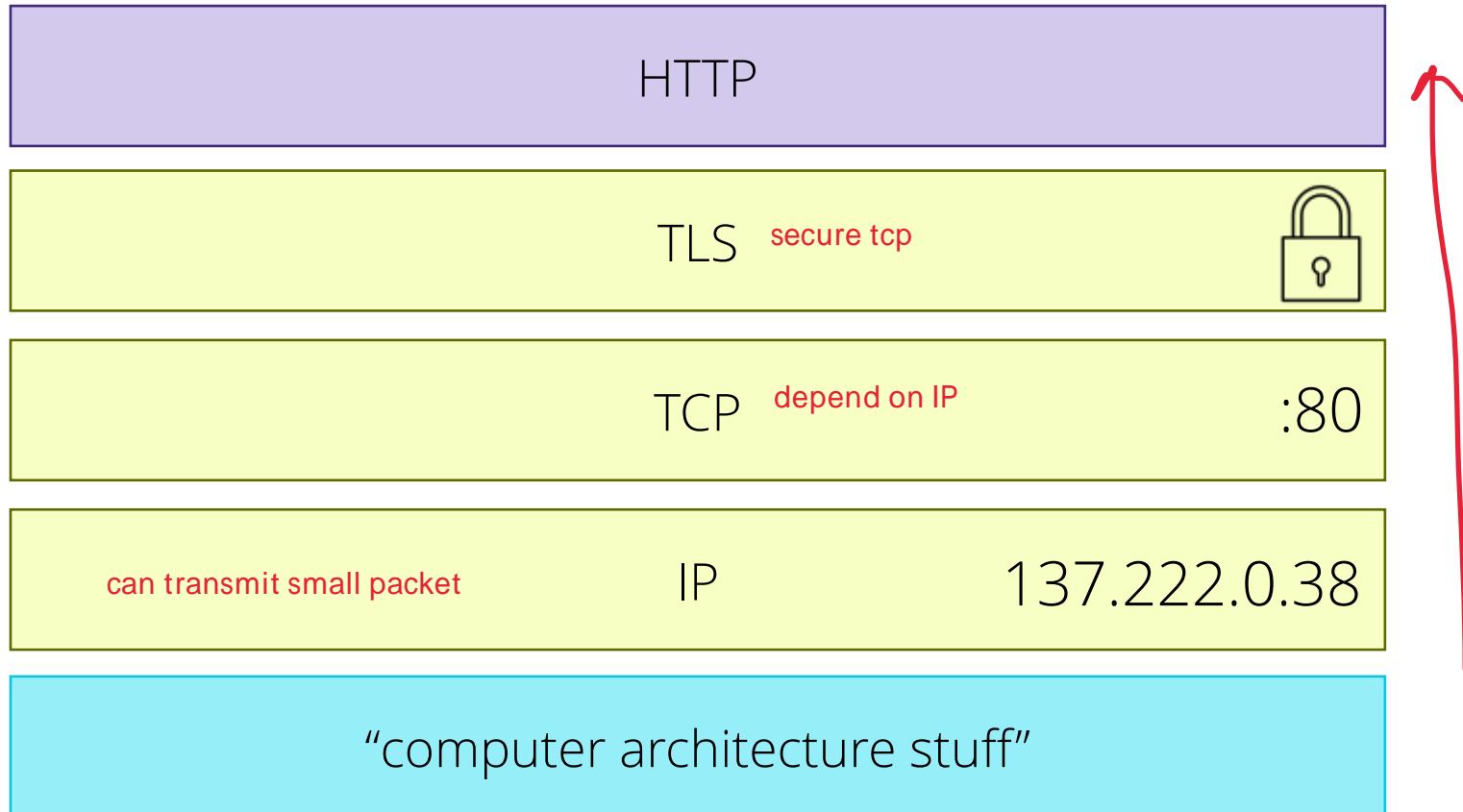


The Internet

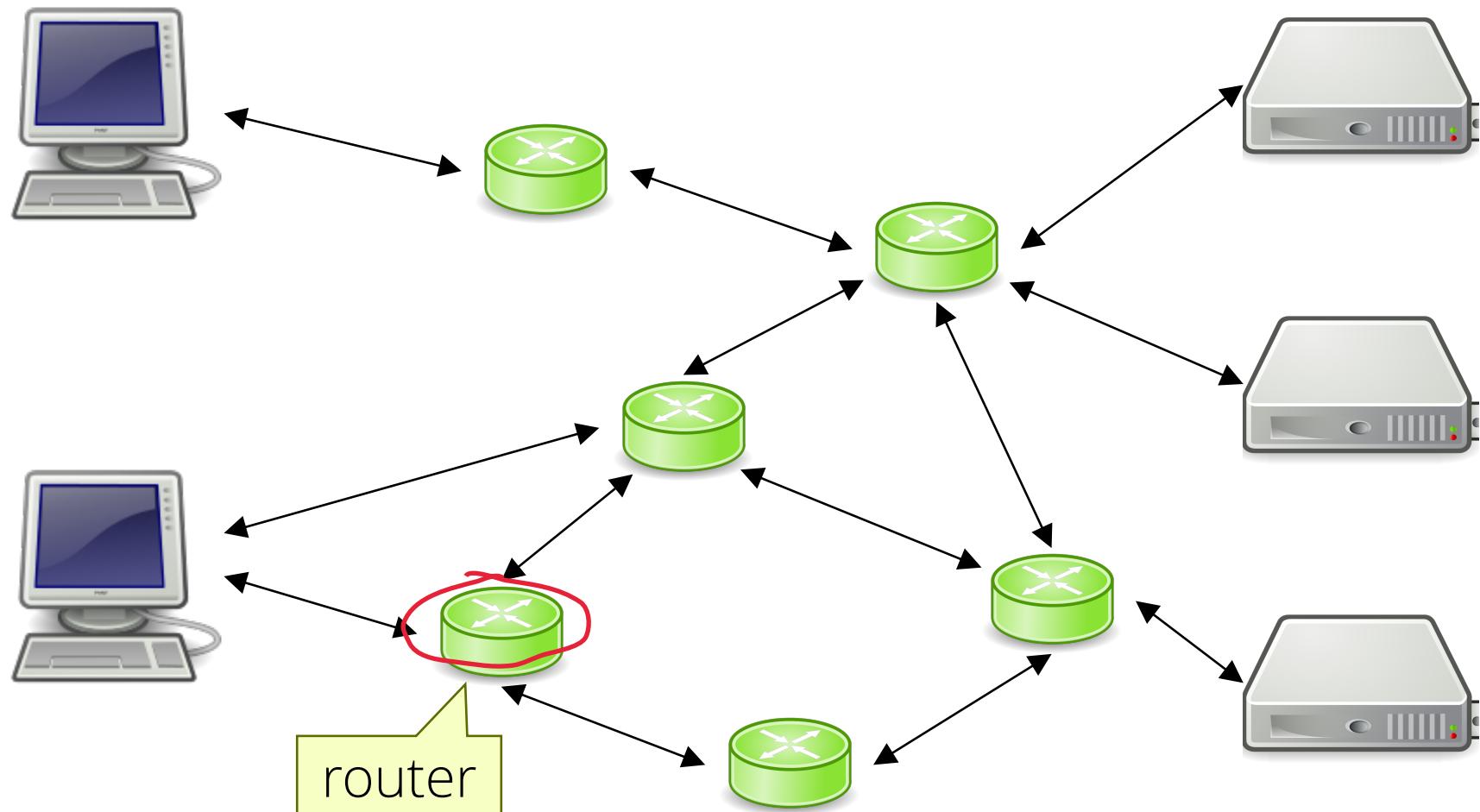
COMS10012 / COMSM0085

Software Tools

Network stack

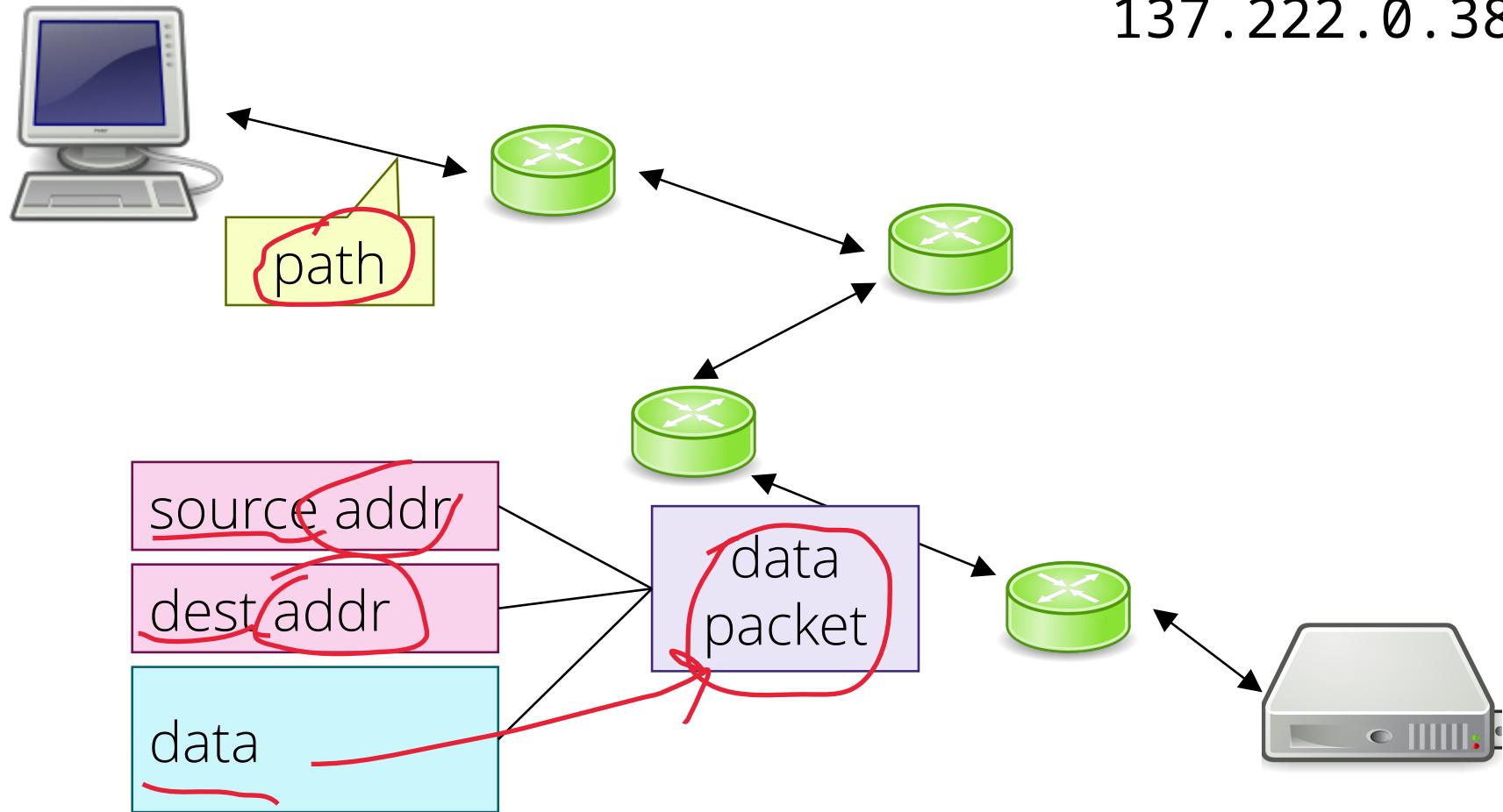


The Internet

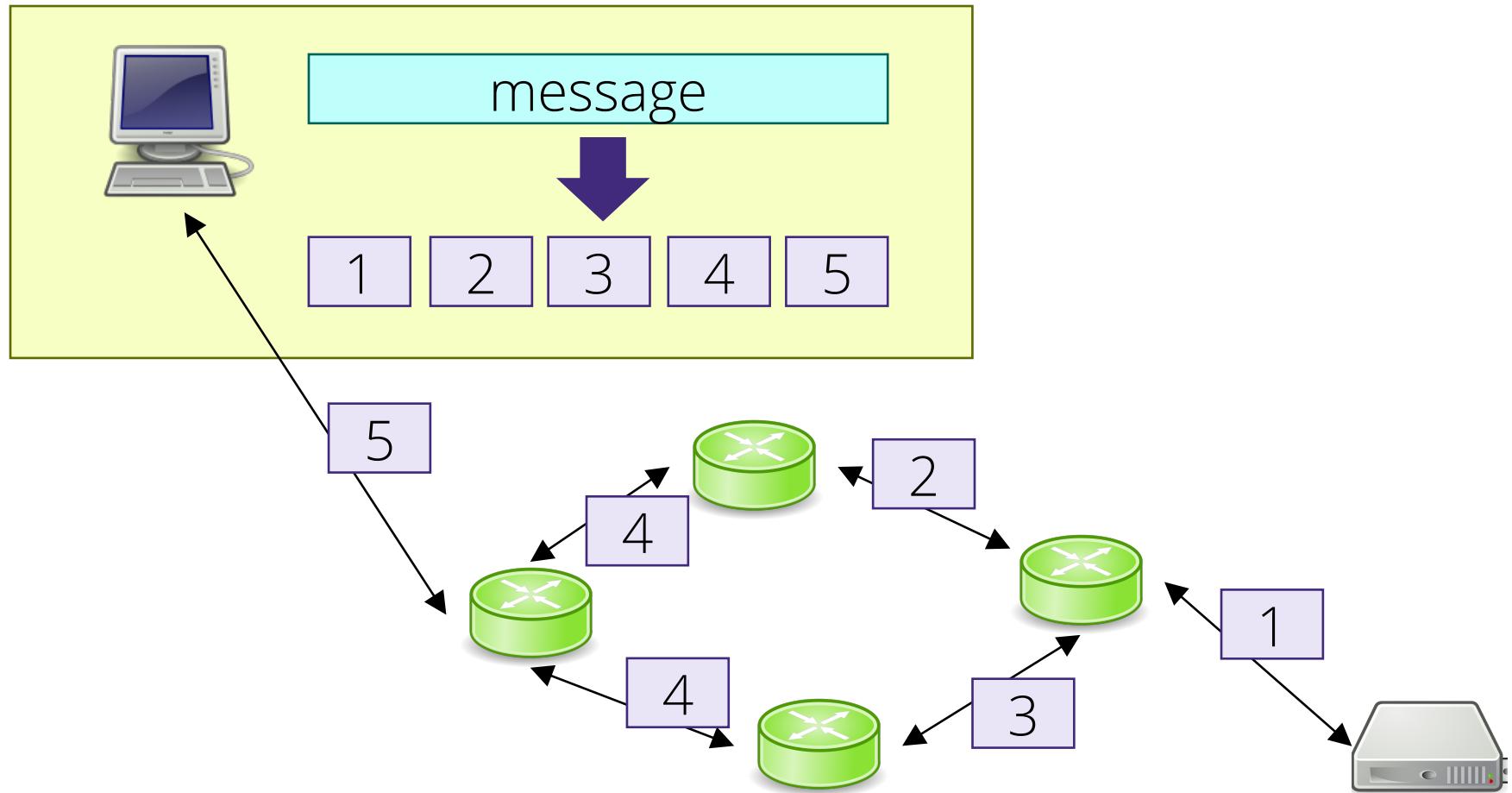


IP: Internet Protocol

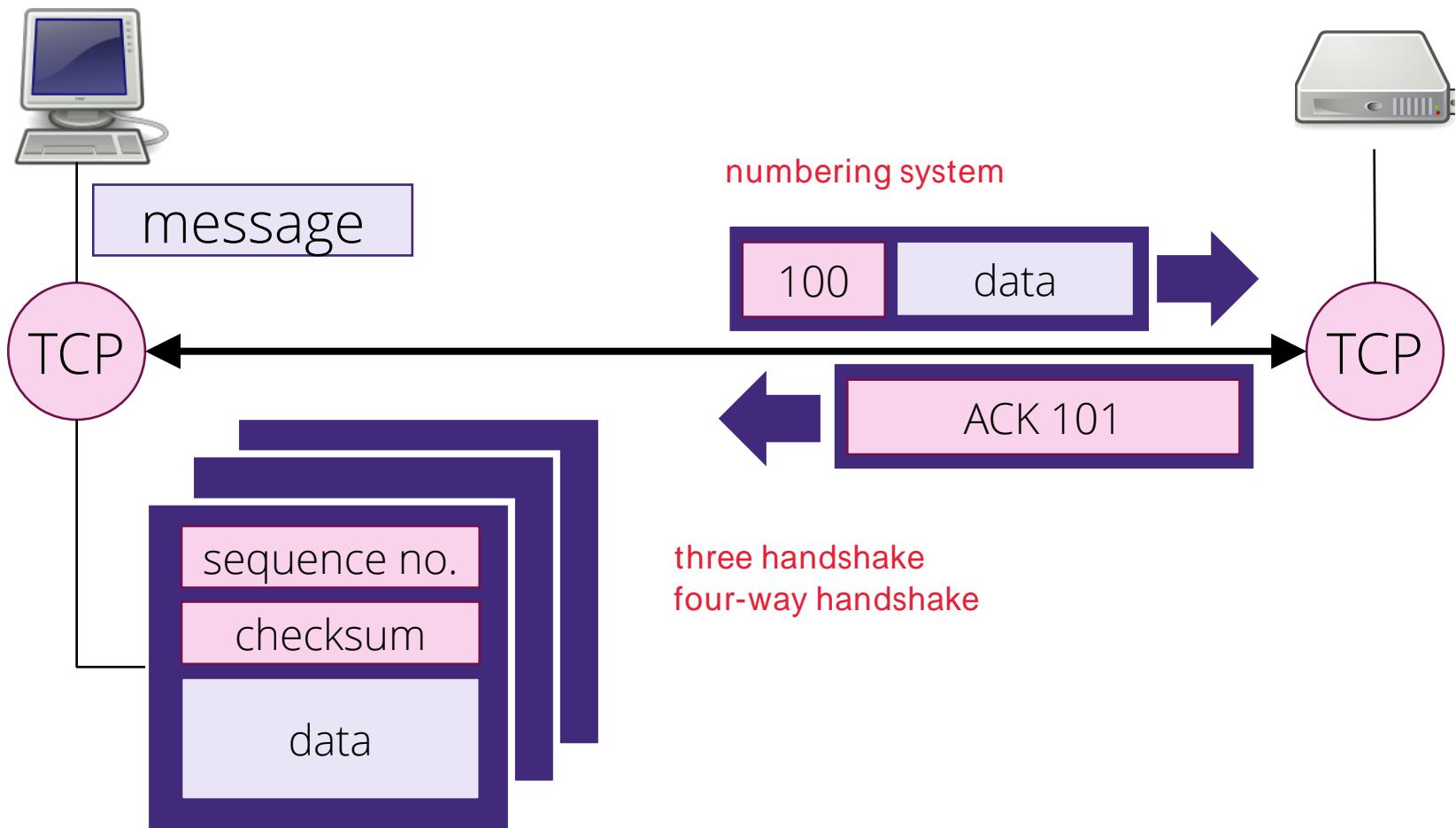
137.222.0.38



TCP: Transmission Control Protocol



TCP



TCP ports

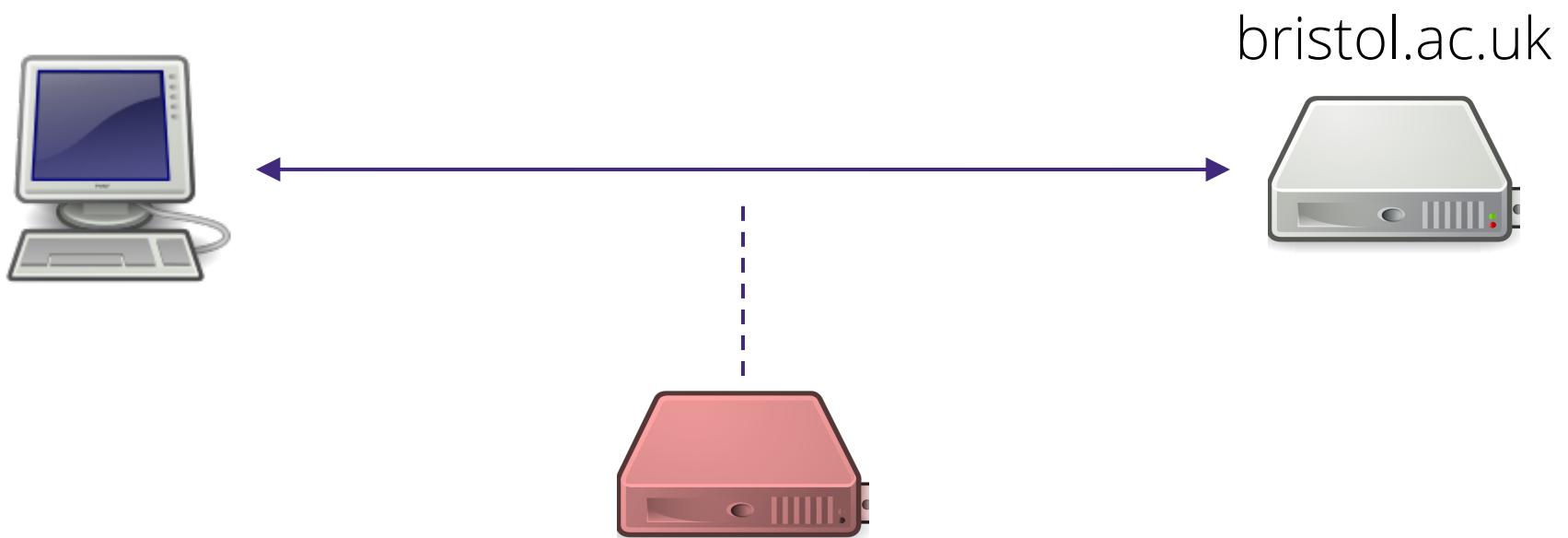
80 HTTP

443 TLS

22 SSH

8000, 8080, ... development (unofficial)

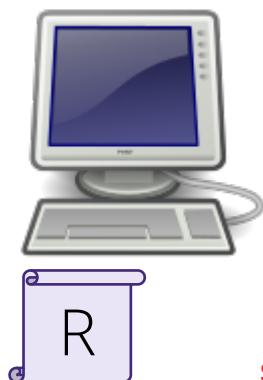
TLS



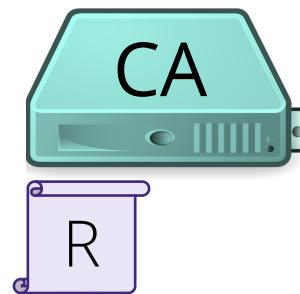
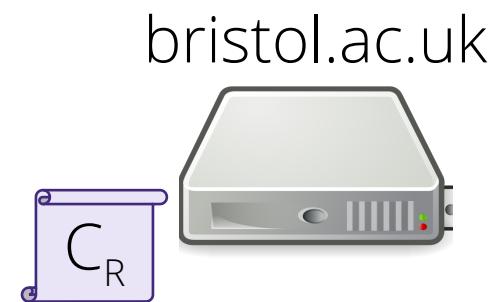
TLS



TLS



server send certification to client
client validates certificate
exchange public key



TLS



bristol.ac.uk



[Not secure | example.org](http://example.org)