

Networking 101

* How devices communicate

* IP ←

* MAC ←

* Internal and external Network

* Ping

IP_{v4}: $\frac{192}{1} - \frac{168}{2} - \frac{1}{3} - \frac{1}{4}$

$2^{32} = 4.29 \text{ Billion}$

IP v6
↓

$2^{128} =$
340 trillion

IPv6

2a_00:22c4:a531:c500:425f:ccb6
:c36b:f64d

IPv4 ↔ IPv6
UPN

MAC:

12-charc : Hex

a4:c3:f0:85:ac:2d

MAC Spoofing

Internal Network → Private IP

