

Tunnels

“Dr.” Mark Tunnel^Wtownsley, Cisco Fellow

We build them...

When and
where we think
we need them
for specific
purposes



What goes in should come out..

Tunnels act like the layer below that which they are carrying

Often not perfectly, but “good enough” for a specific purpose

IP tunnels act like Data Link Layers



They provide us a Layer of Indirection

All problems in computer science can be solved by another level of indirection...

...except for the problem of too many levels of indirection

- David Wheeler

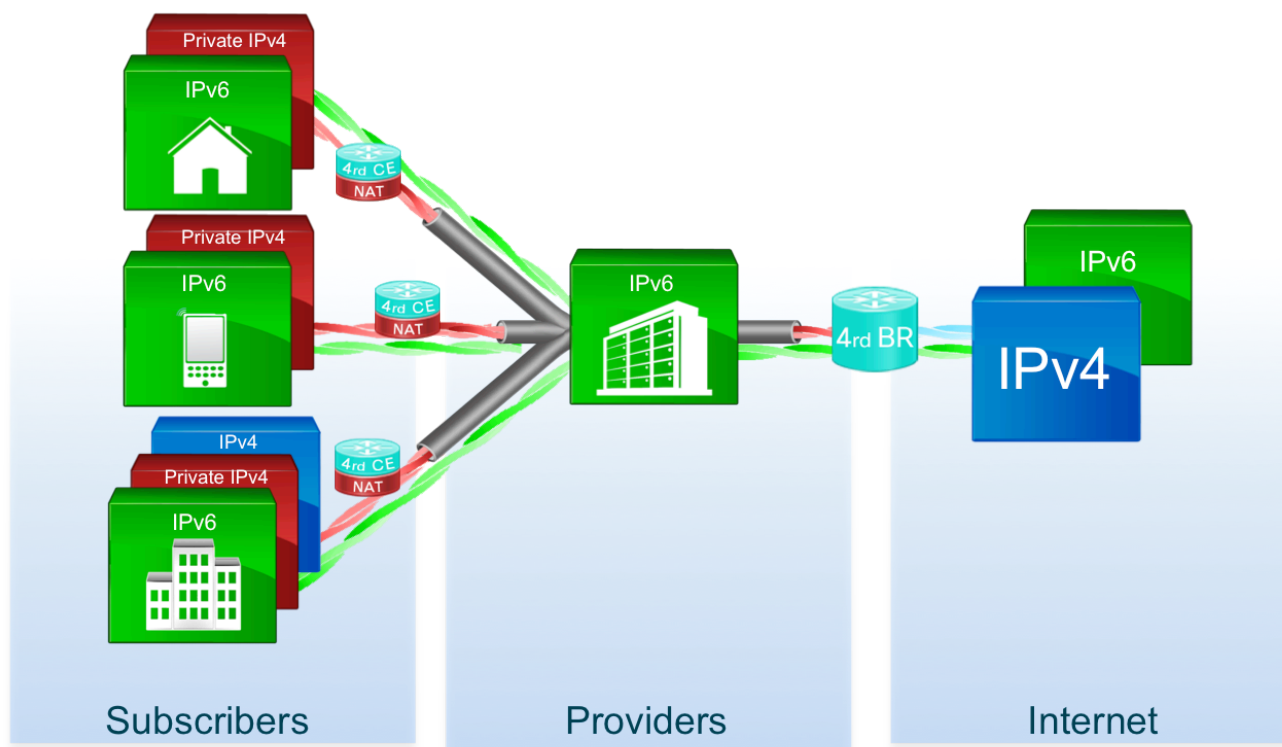


They have a
wide variety
of uses...

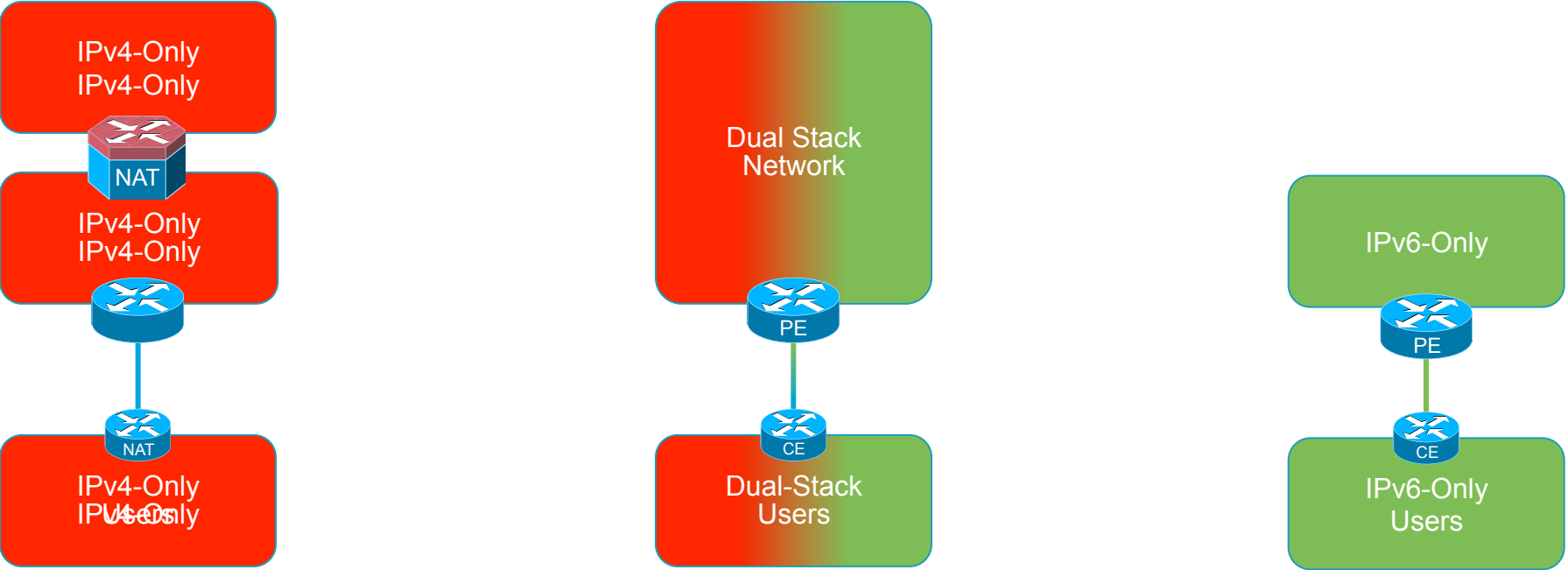


For the specific case of IPv6 Transition

- While incompatible on the wire, IPv4 and IPv6 are both still “philosophically” IP



Dual Stack Transition Leap



Transition Steps Instead of Leaps...

