

Two Problems

1. Global IPv4 address depletion
2. Private IPv4 address depletion

“depletion” a.k.a. “completion”

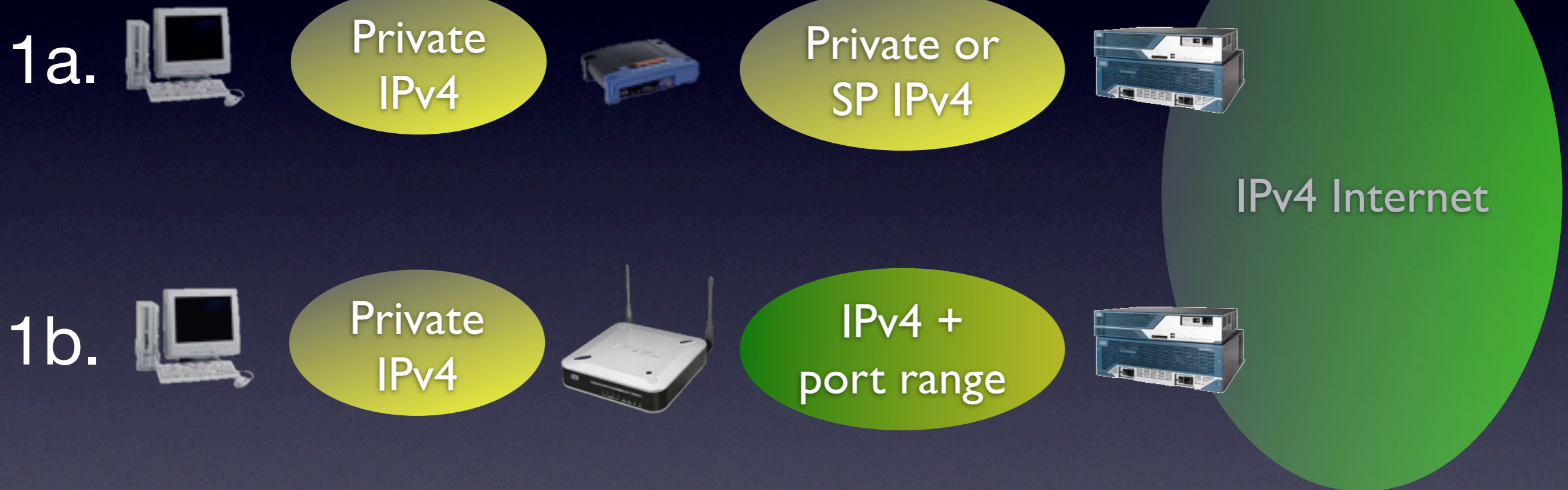
Scenarios

- Focus work on most significant, and most solvable, scenarios
- Solving every possible design iteration is futile

Scenario Grouping

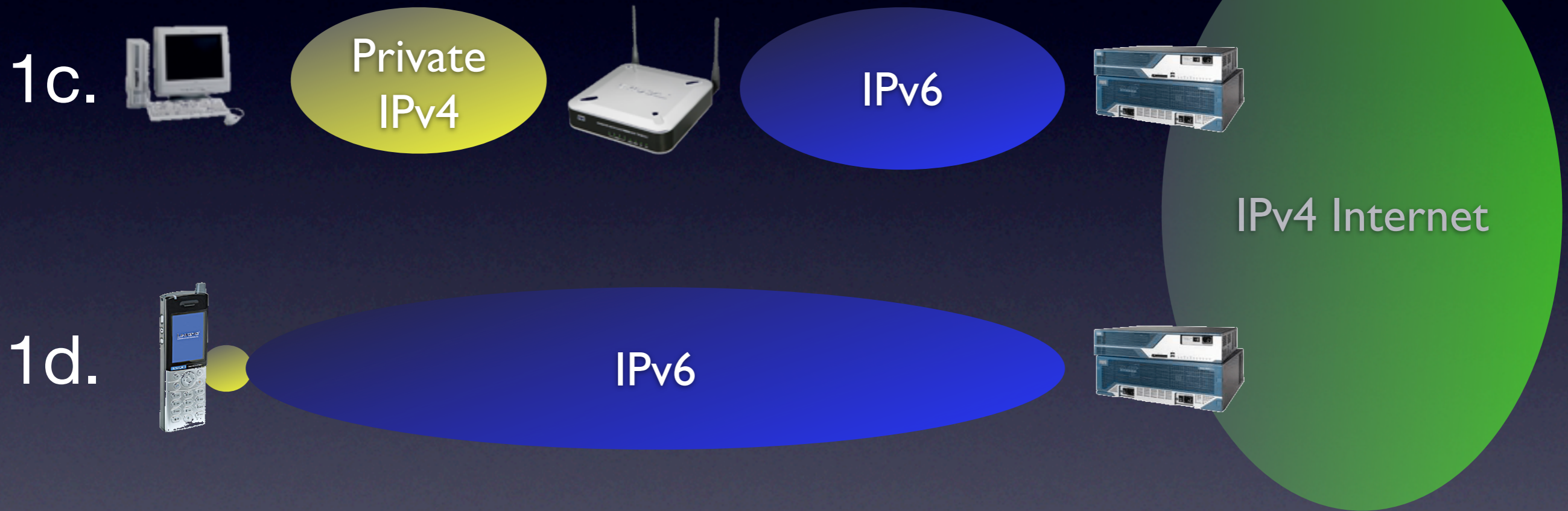
1. Reaching Global IPv4
2. Reaching IPv6 Only Servers
3. Reaching Privately addressed IPv4 Servers

1. Reaching Global IPv4



- Postpones IPv4 meltdown by continuing to encroach on port space

1. Reaching Global IPv4



- Uses IPv6 to target private as well as global address exhaustion

Scenario One Summary

- Each sub-case is about reaching the Global IPv4 Internet
- IPv6-only clients are out of scope
- NAT-PT could be used in some of these scenarios, but none absolutely require it
- Current work in Softwires and Behave WGs targeting this Scenario



Private IPv4



Private or SP IPv4



Private IPv4



IPv4 + port range



Private IPv4



IPv6

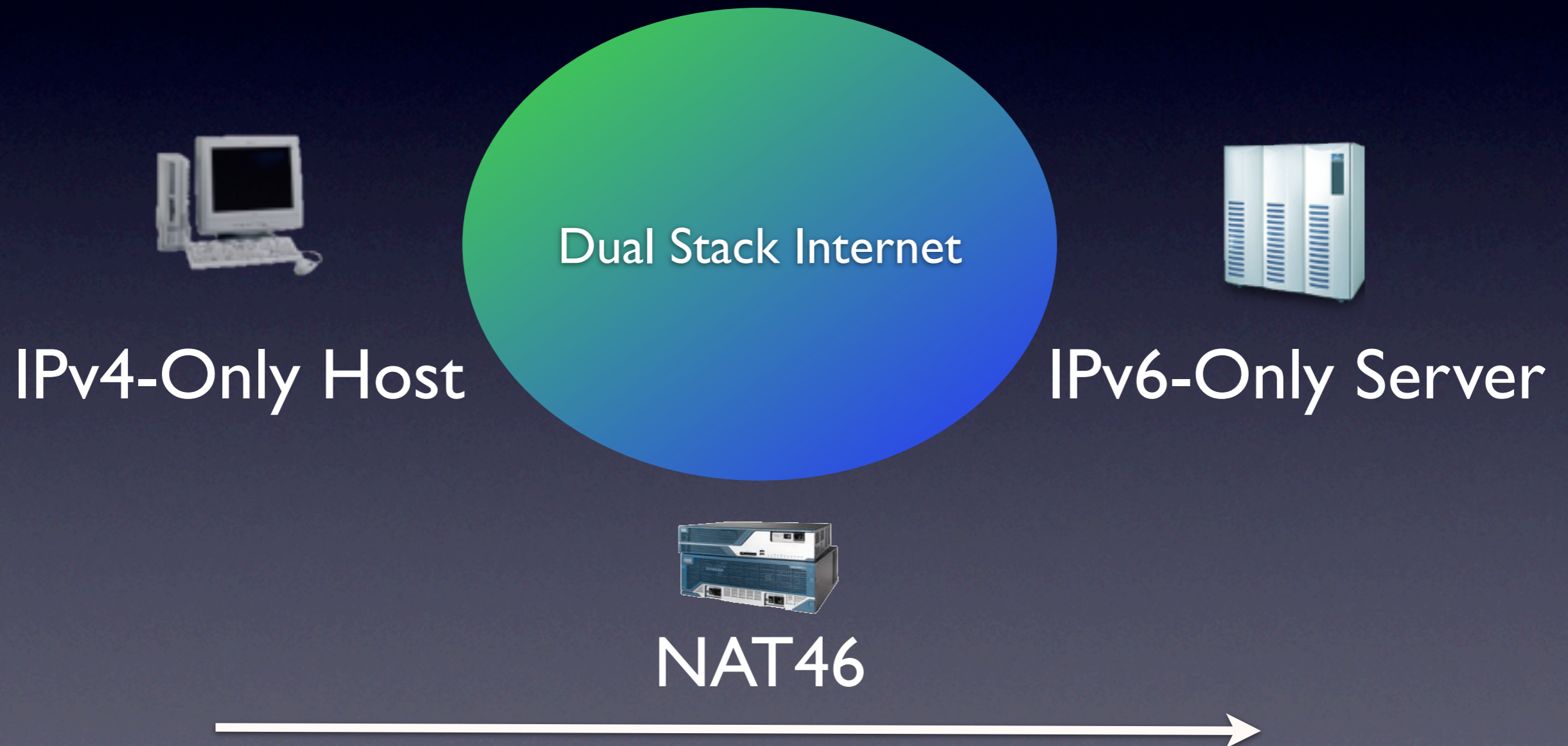


IPv6



IPv4 Internet

2. IPv6-Only Servers



3. Private IPv4-Only Servers

