



CISCO

Patric Fältström

Distinguished Consulting Engineer

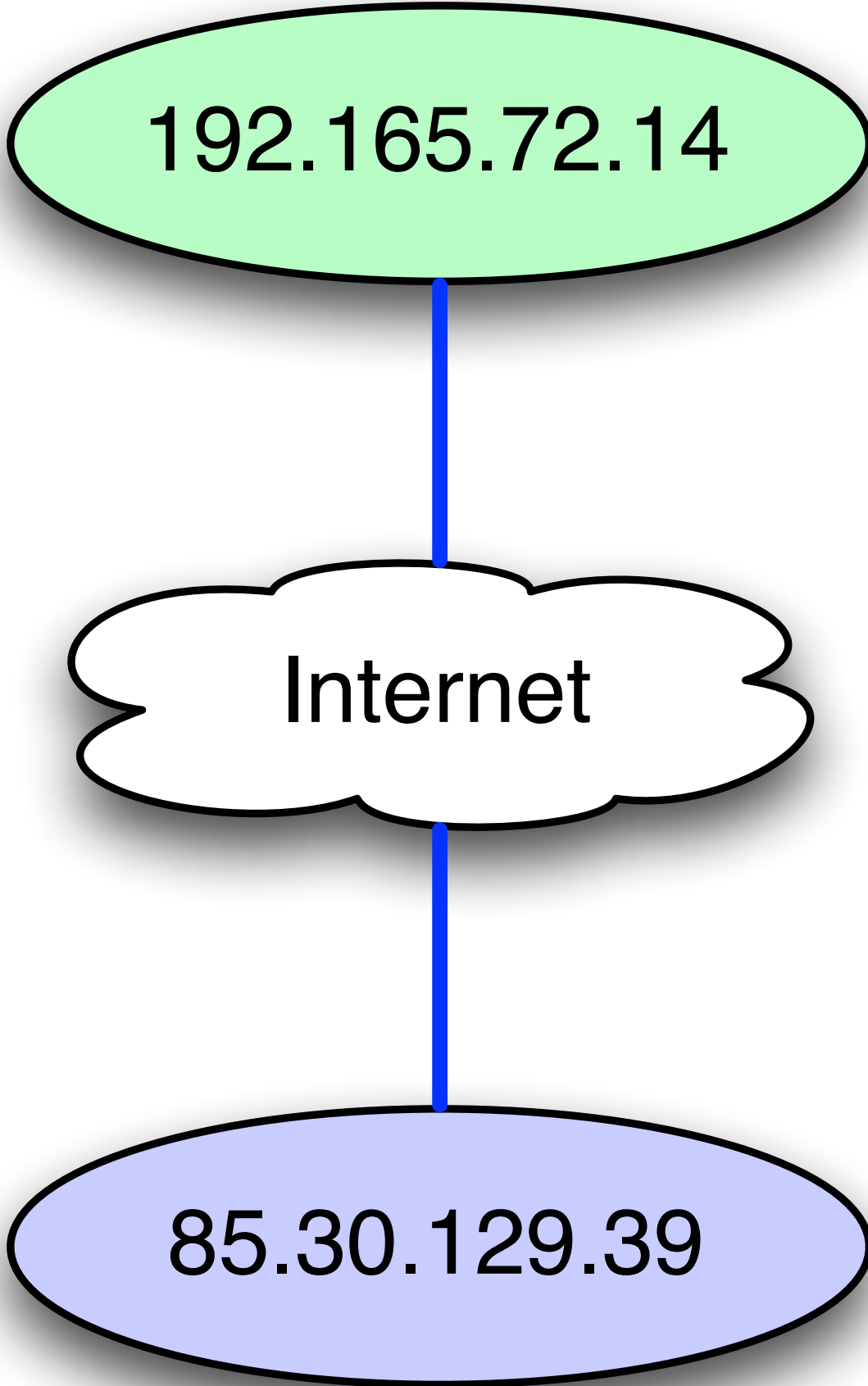
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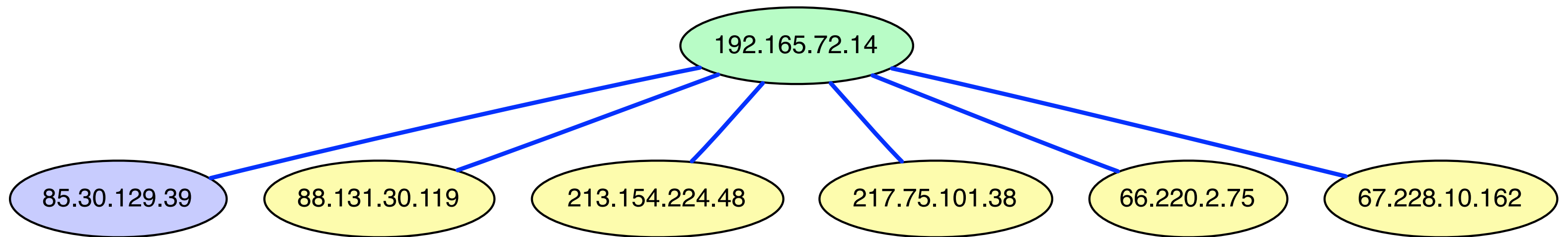
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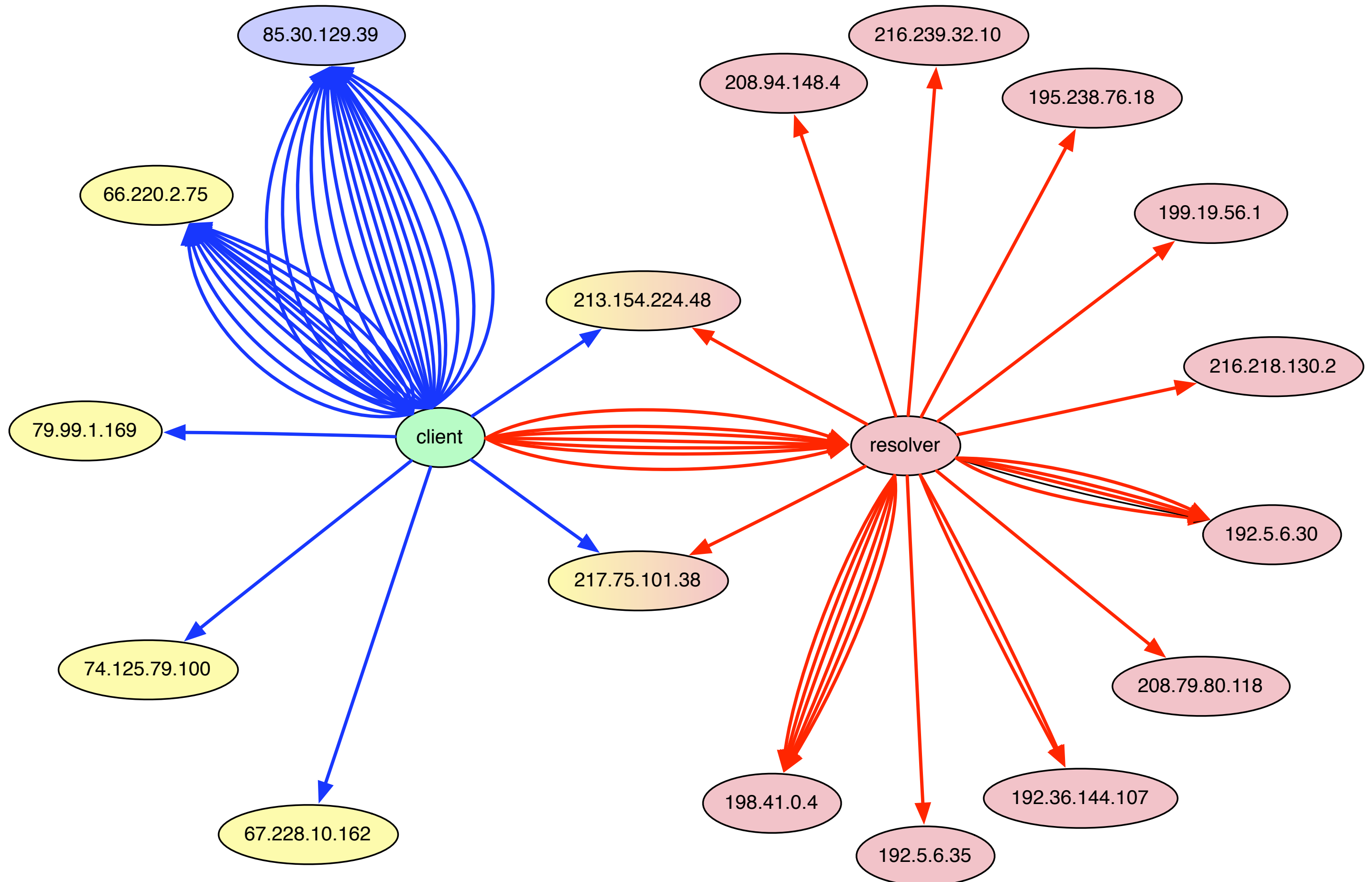
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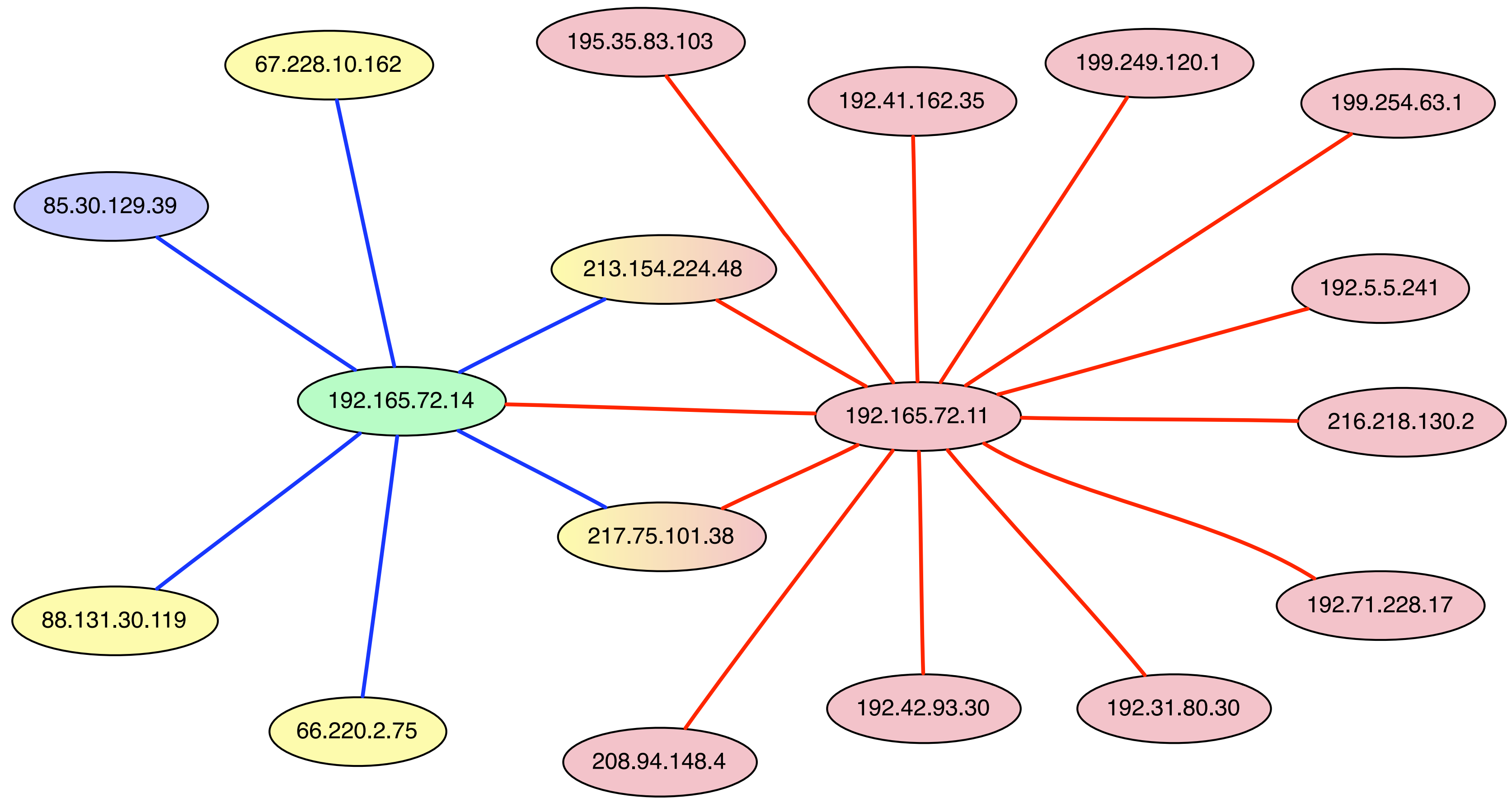


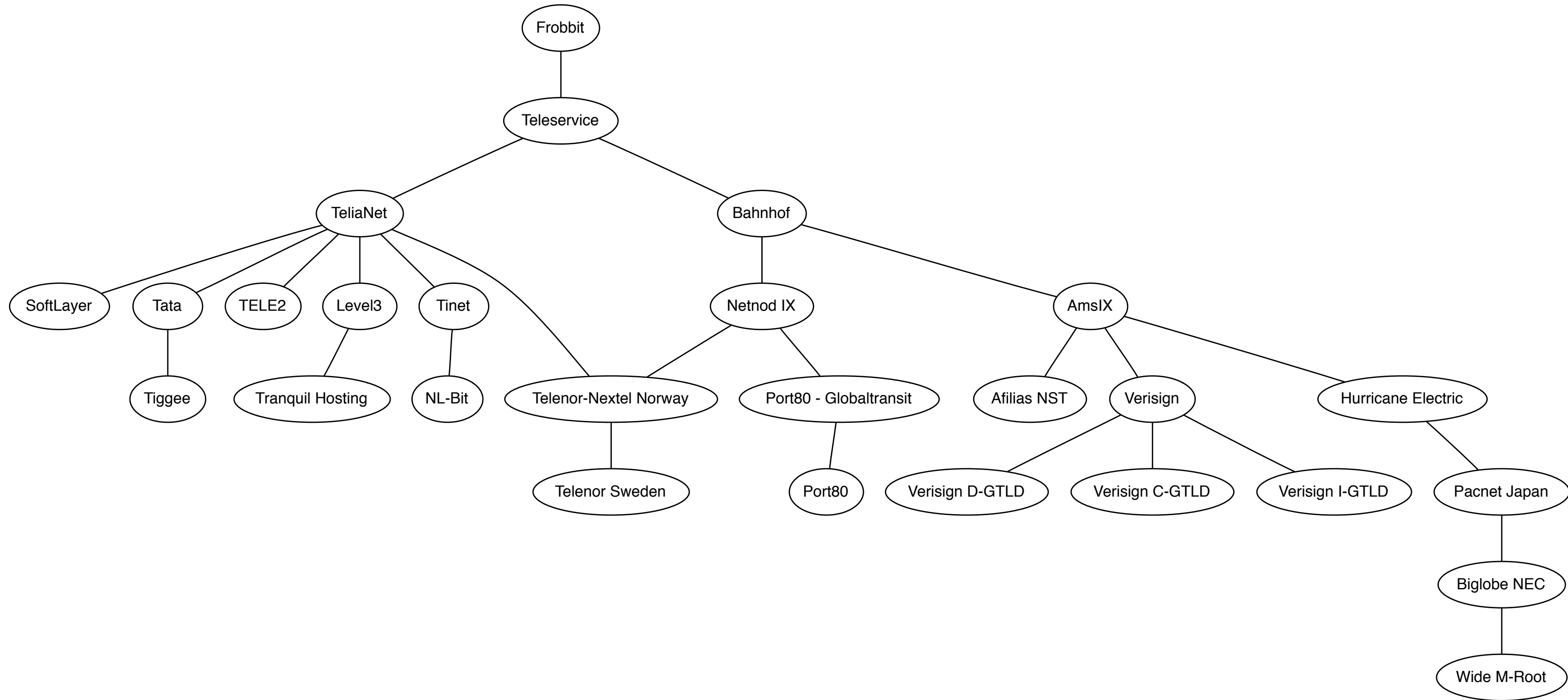
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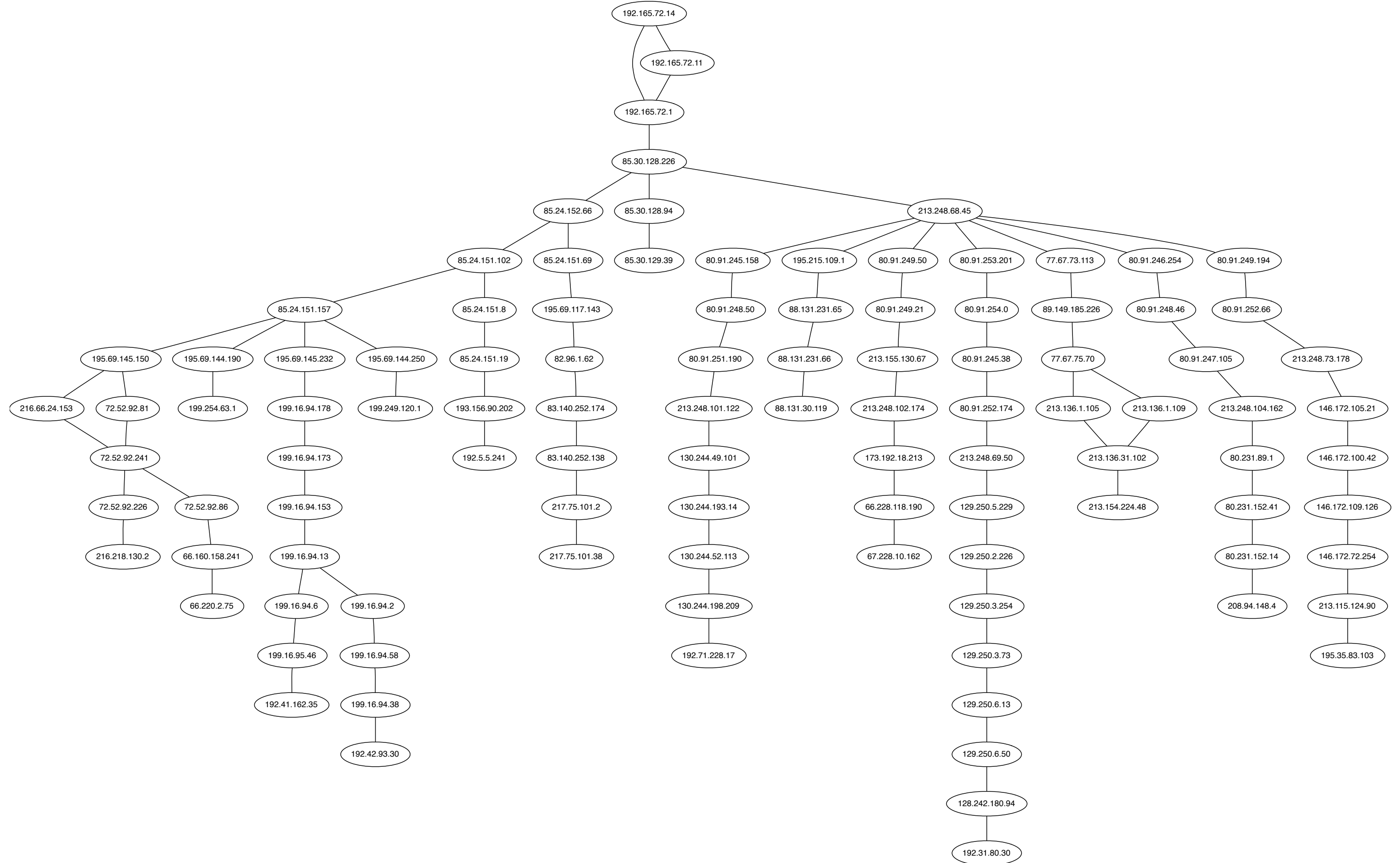
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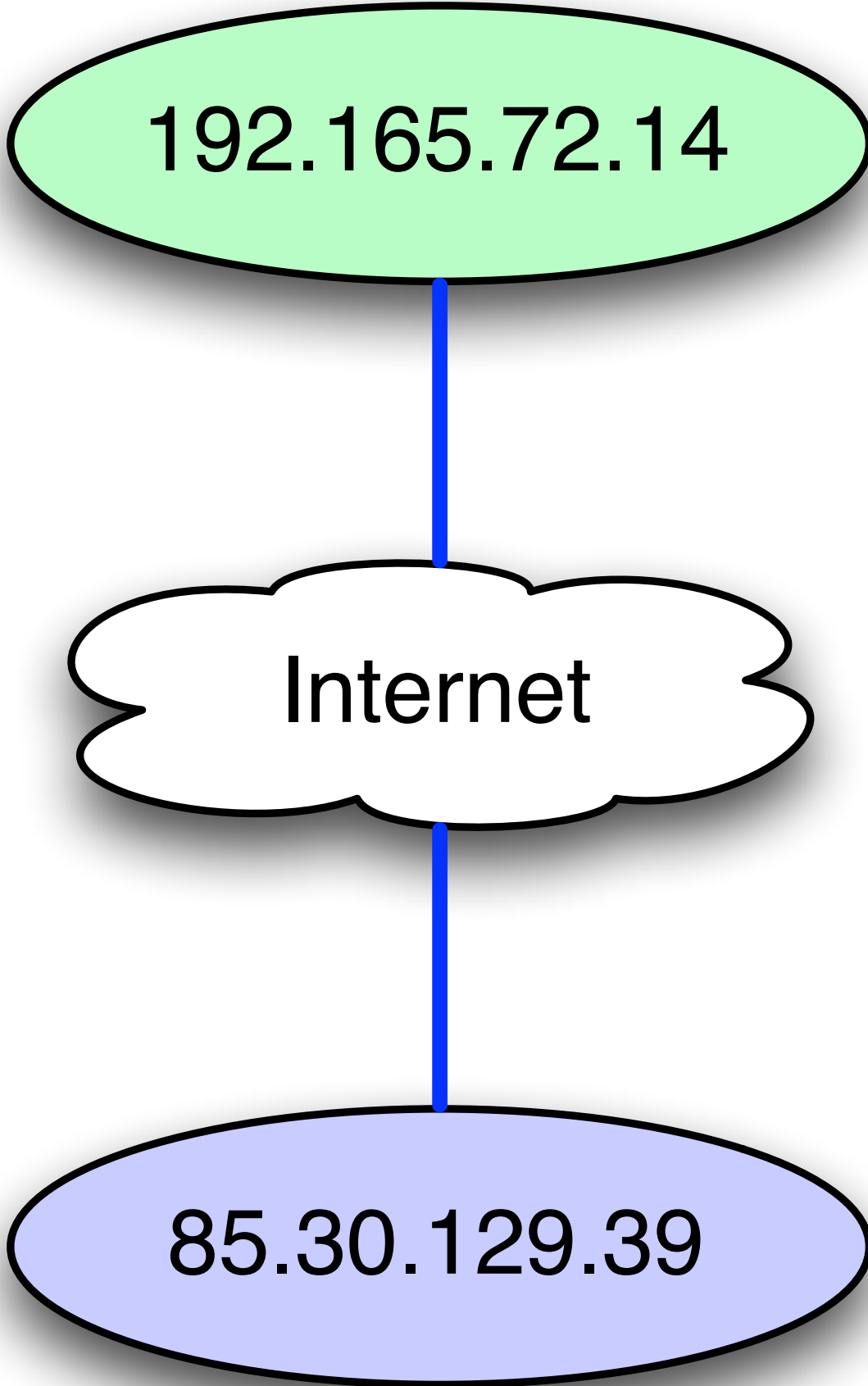




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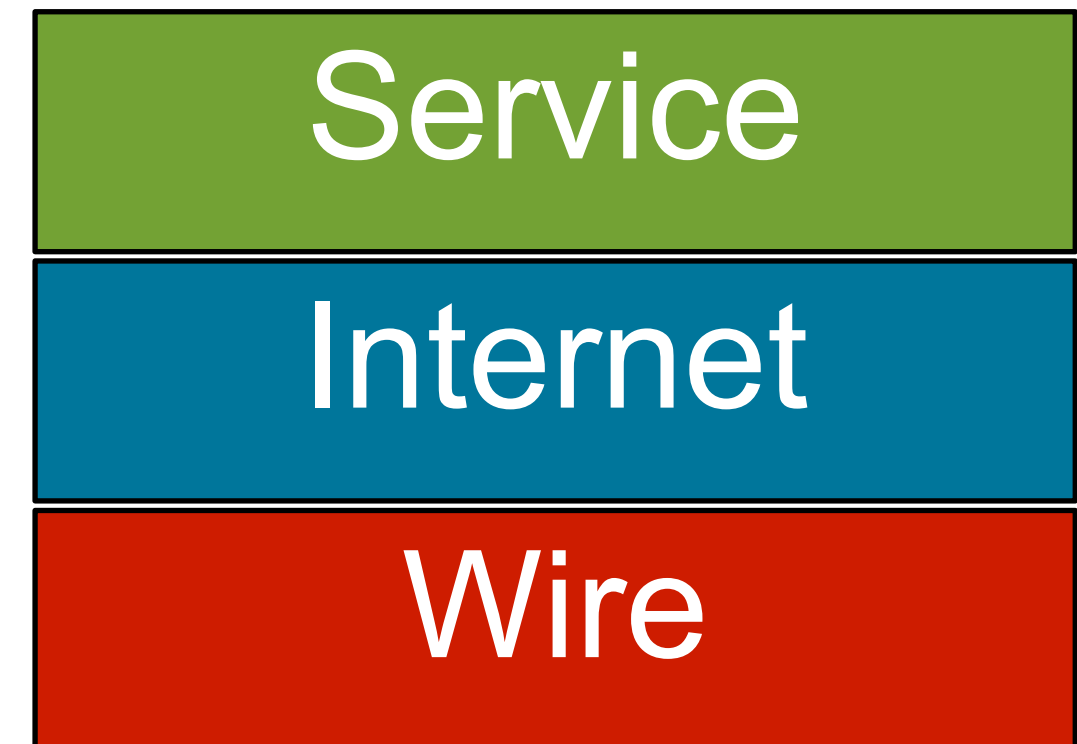
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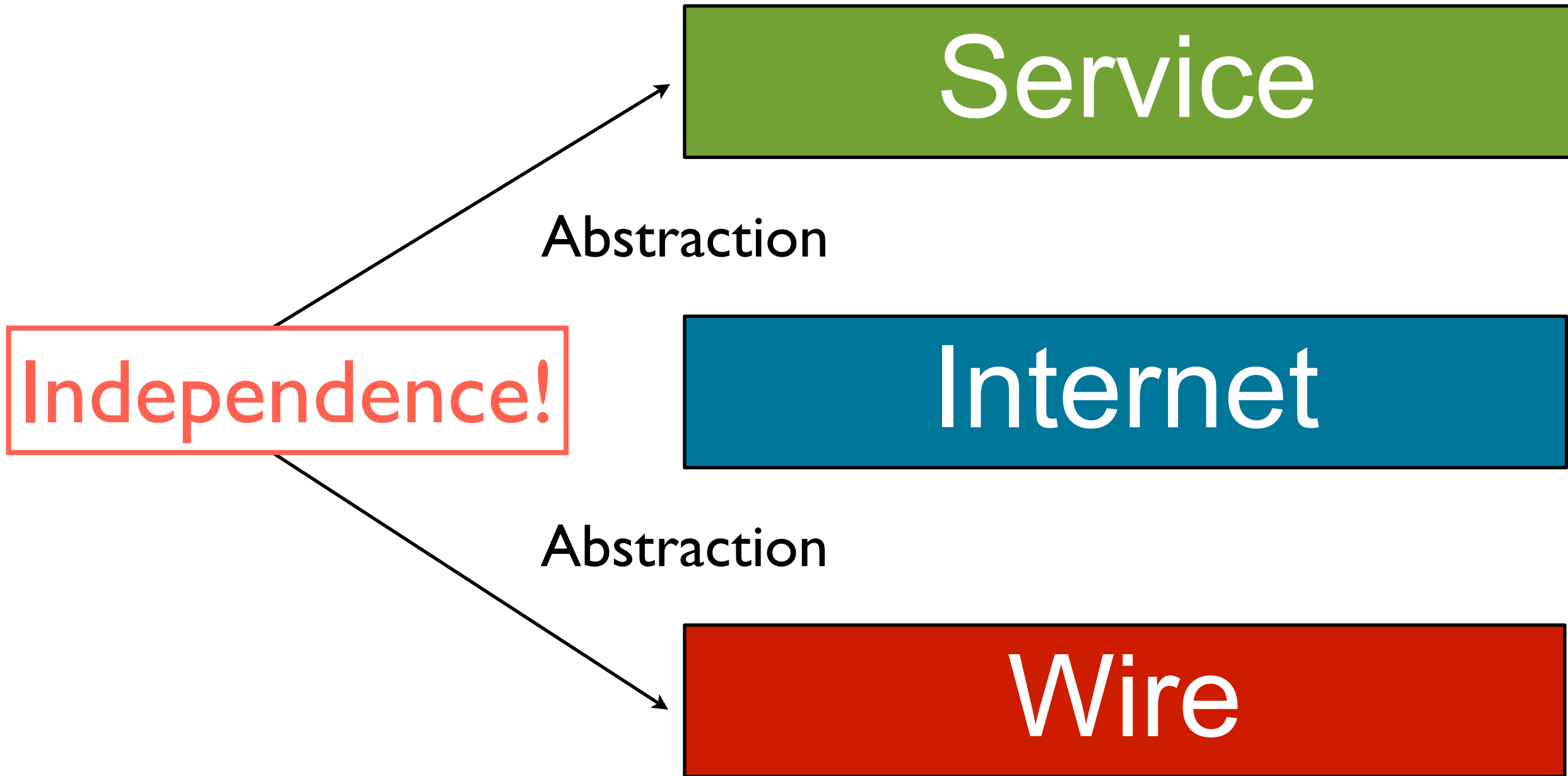


Historically, Vertically Integrated



New, Horizontally Integrated





Why IPv6 is important?

- **Anyone can address anyone else**
 - Market economy forces should do selection of services
 - Innovation is important regardless of location in network
- **Future Internet is (again) p2p communication**
 - For a few years, majority has been client - server
- **End to end is important for transformation of society**
 - For a few years, majority has been client - server

What is Swedish Government doing?

- **Requested e-Delegation to make a plan**

- <http://www.edelegationen.se/sida/vagledning-for-inforande-av-ipv6>

- **Push for A Digital Agenda for Sweden**

- Digital divide is of concern
- Everyone should participate
- Transformation of society

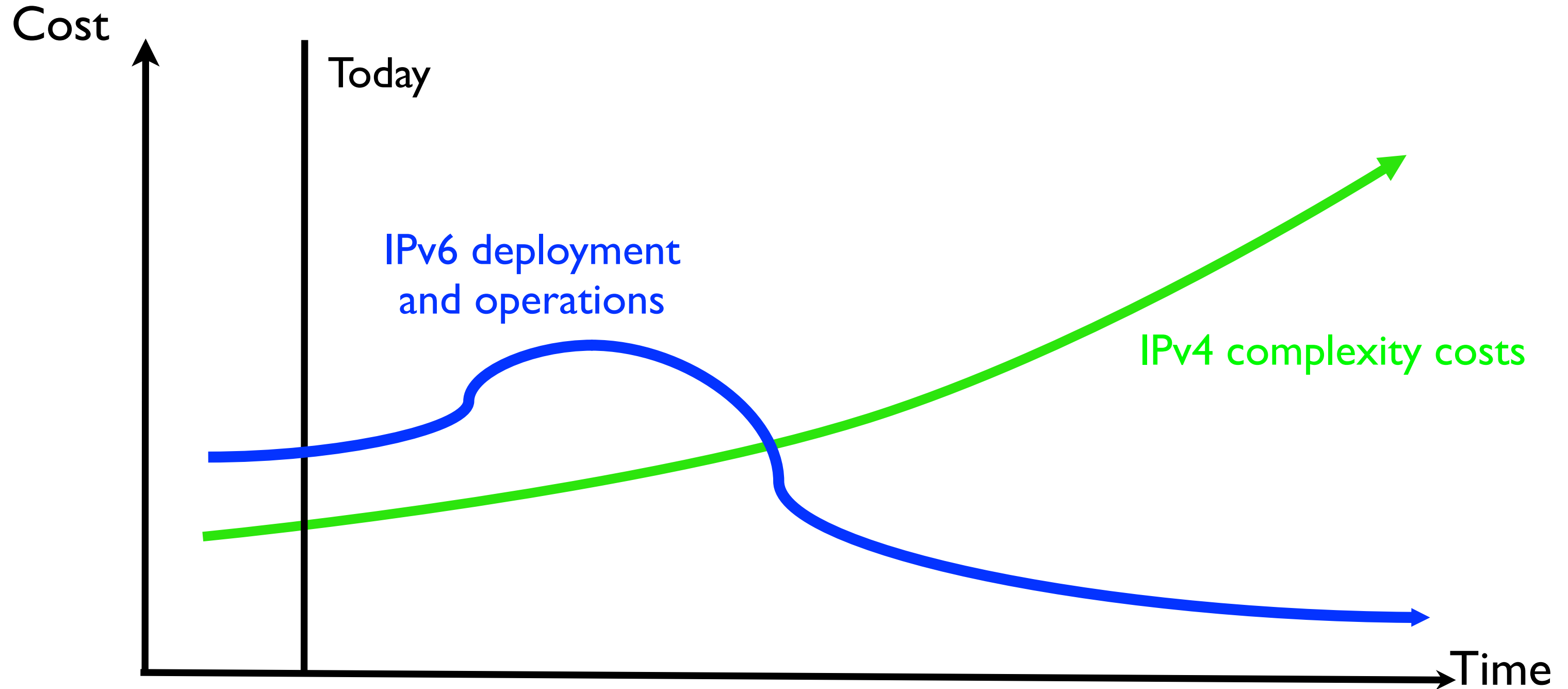
- **Requested PTS to take one step further**

- Describe more in detail what people should do

The IPv6 plan

- *Vad vill uppnås med denna vägledning?*
- **Mål:** En övergång till IPv6, för myndighetens externa kommunikation (webbplats och publika e-tjänster), bör vara genomförd senast vid utgången av 2011. Det är sedan upp till var myndighet att göra sin egna bedömning av tidpunkten för omställningen av den interna IT-miljön till IPv6.
- **Syfte:** Att stödja offentlig förvaltning att i ett första steg genomföra en konsekvens- analys avseende övergång till IPv6 och därefter genomföra själva övergången.

IPv6 vs. IPv4 costs over time



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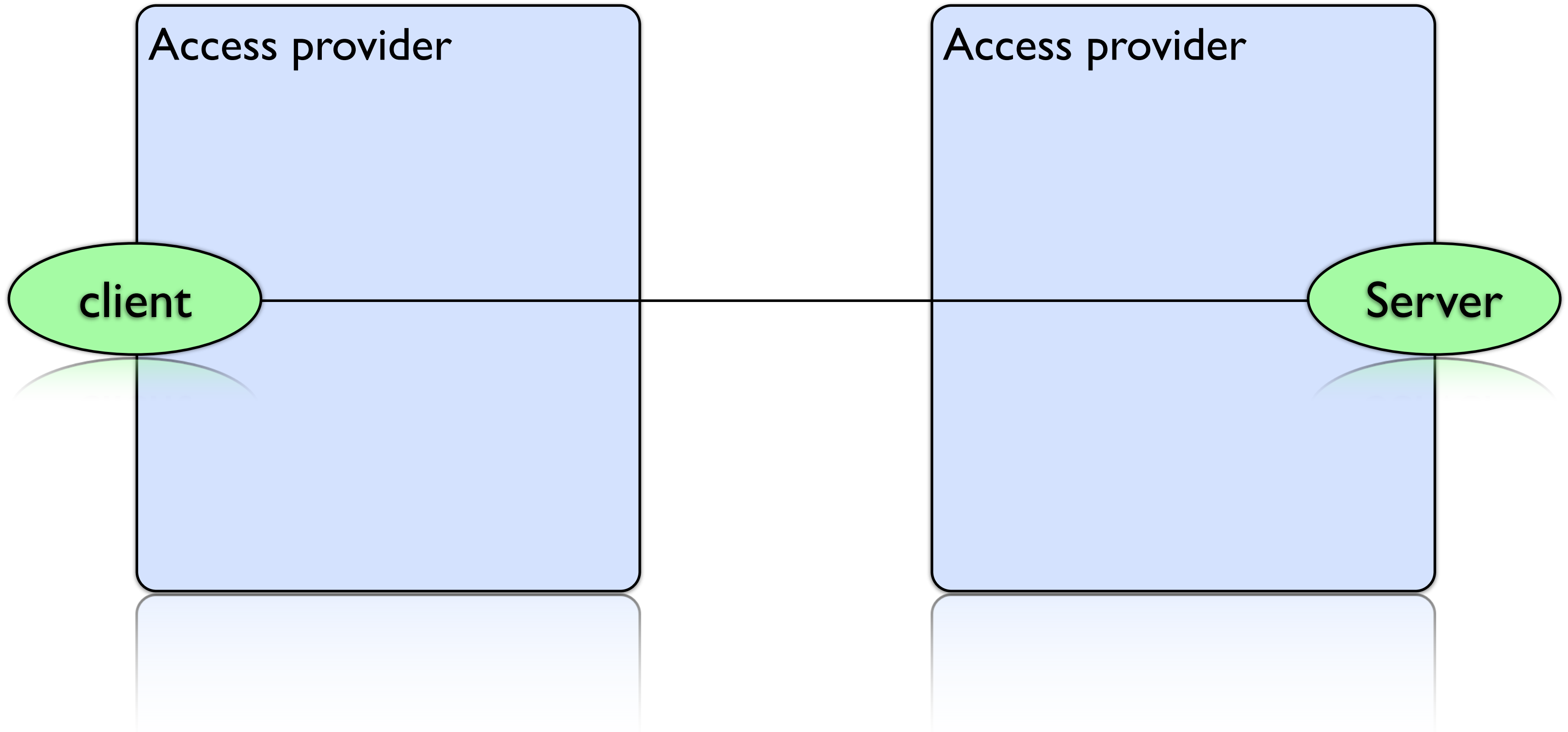
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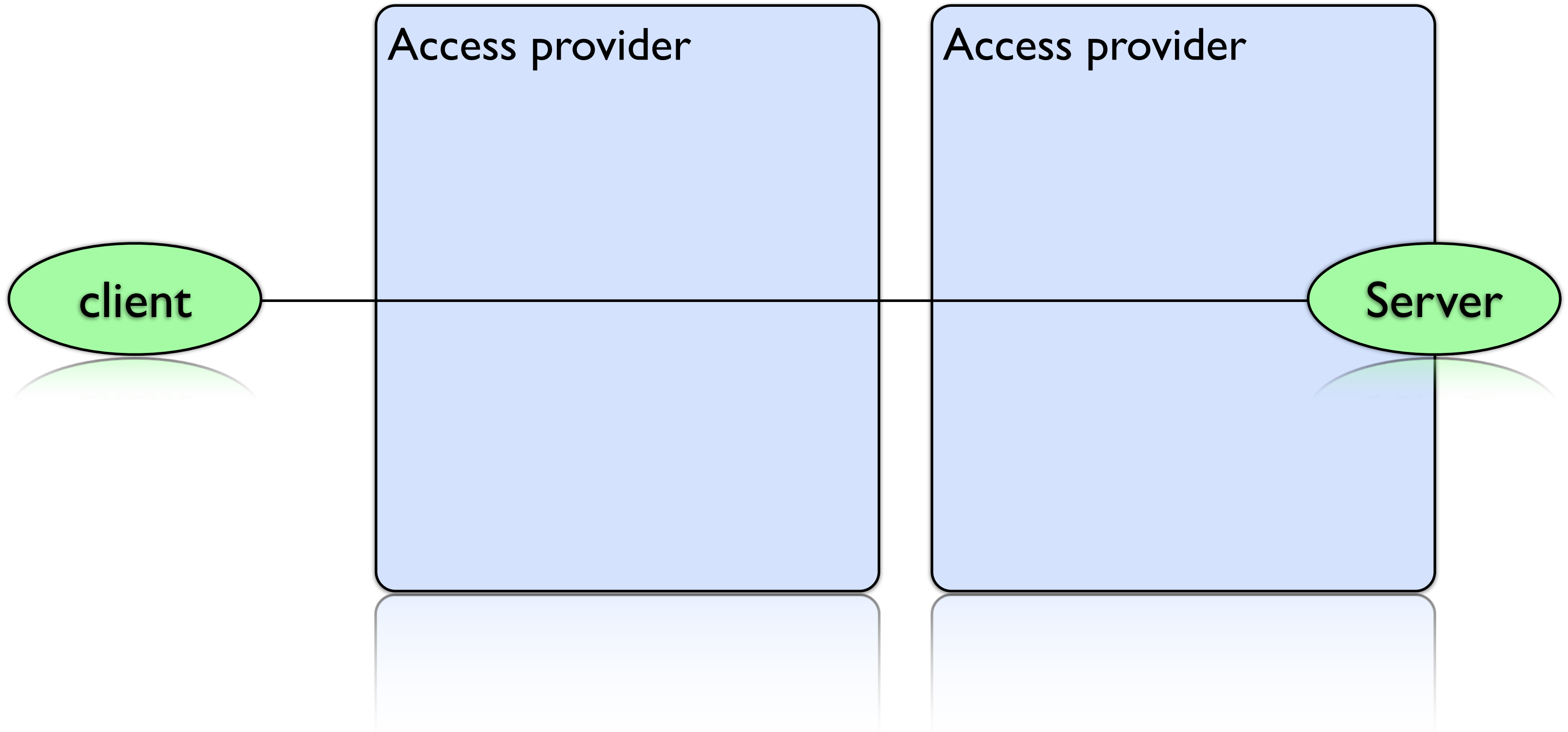


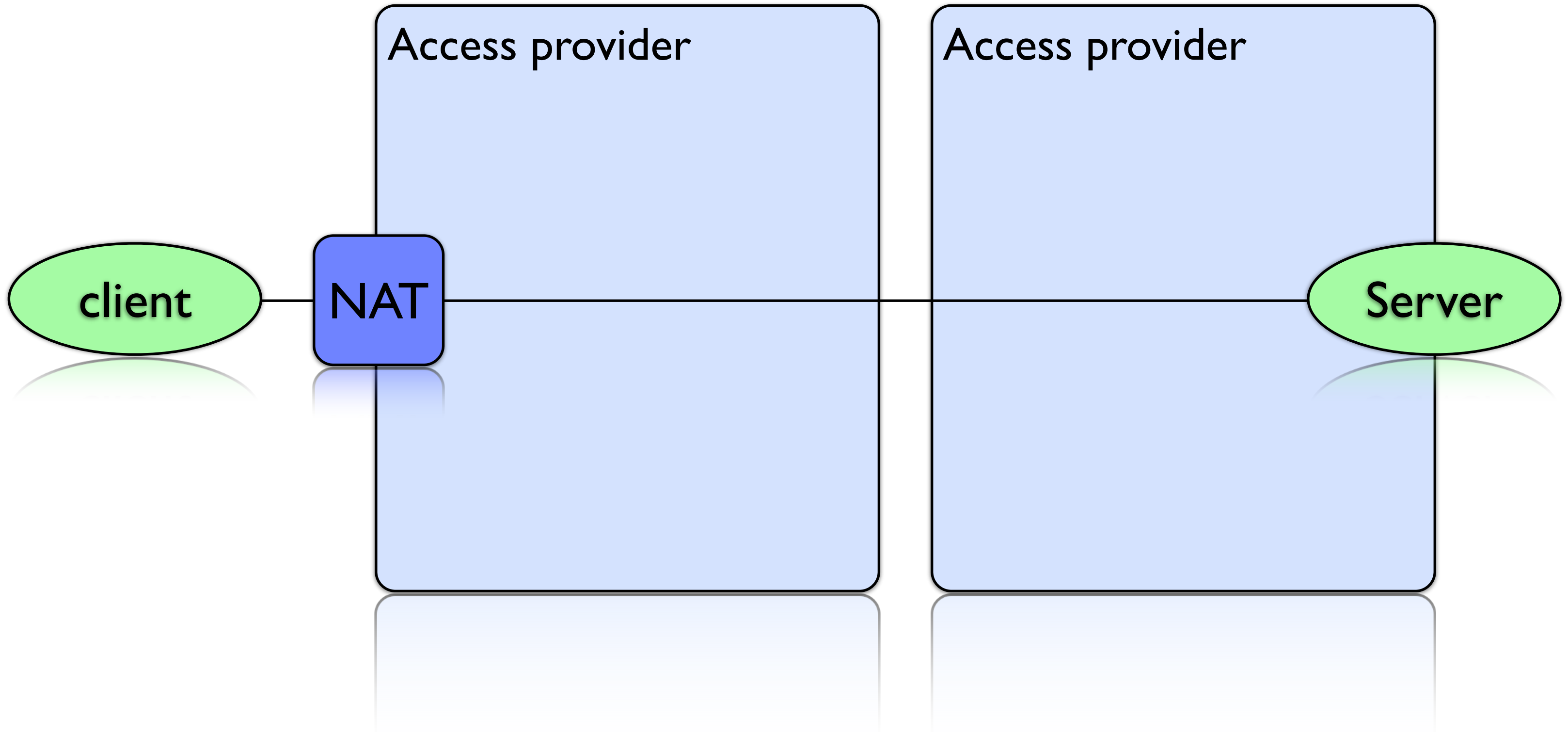
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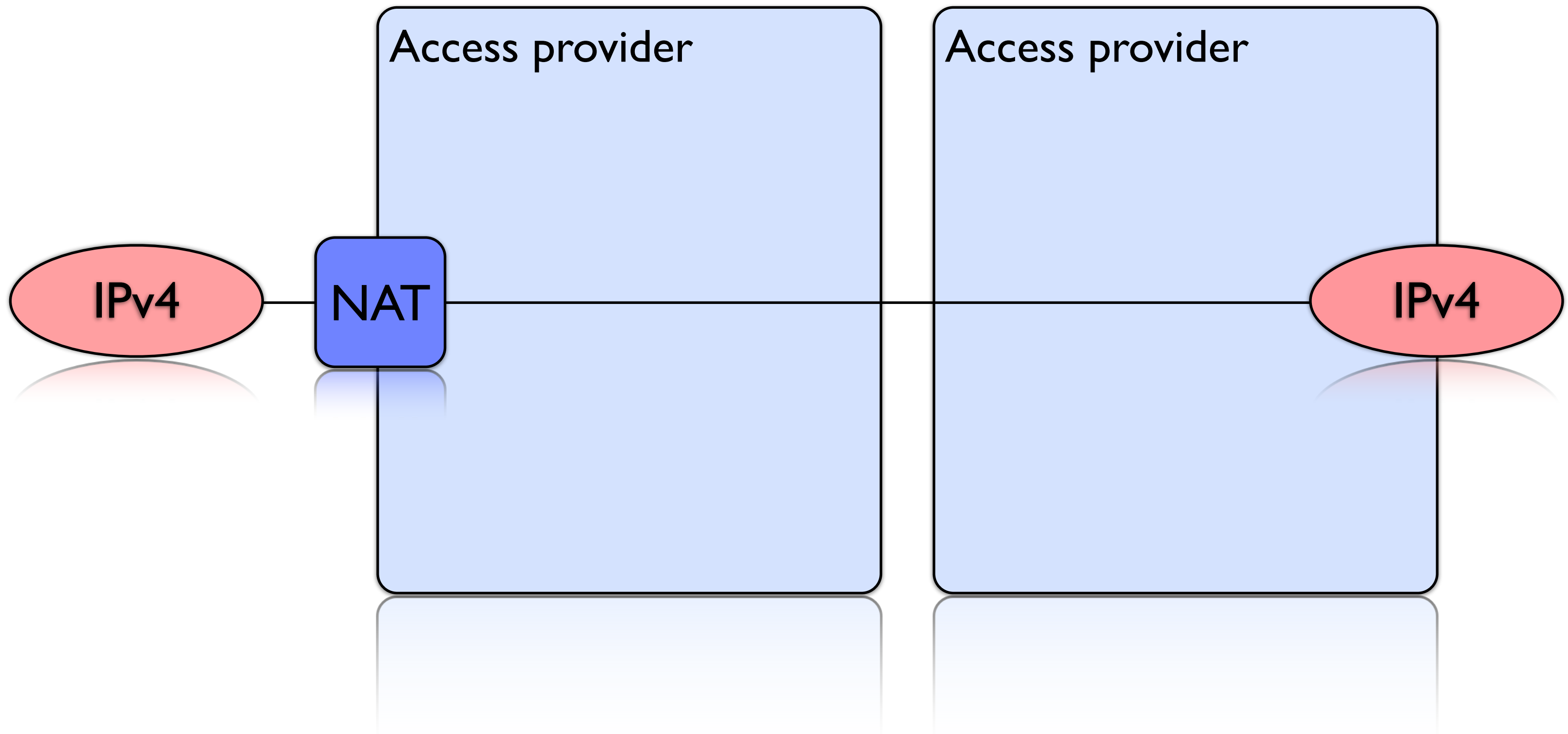
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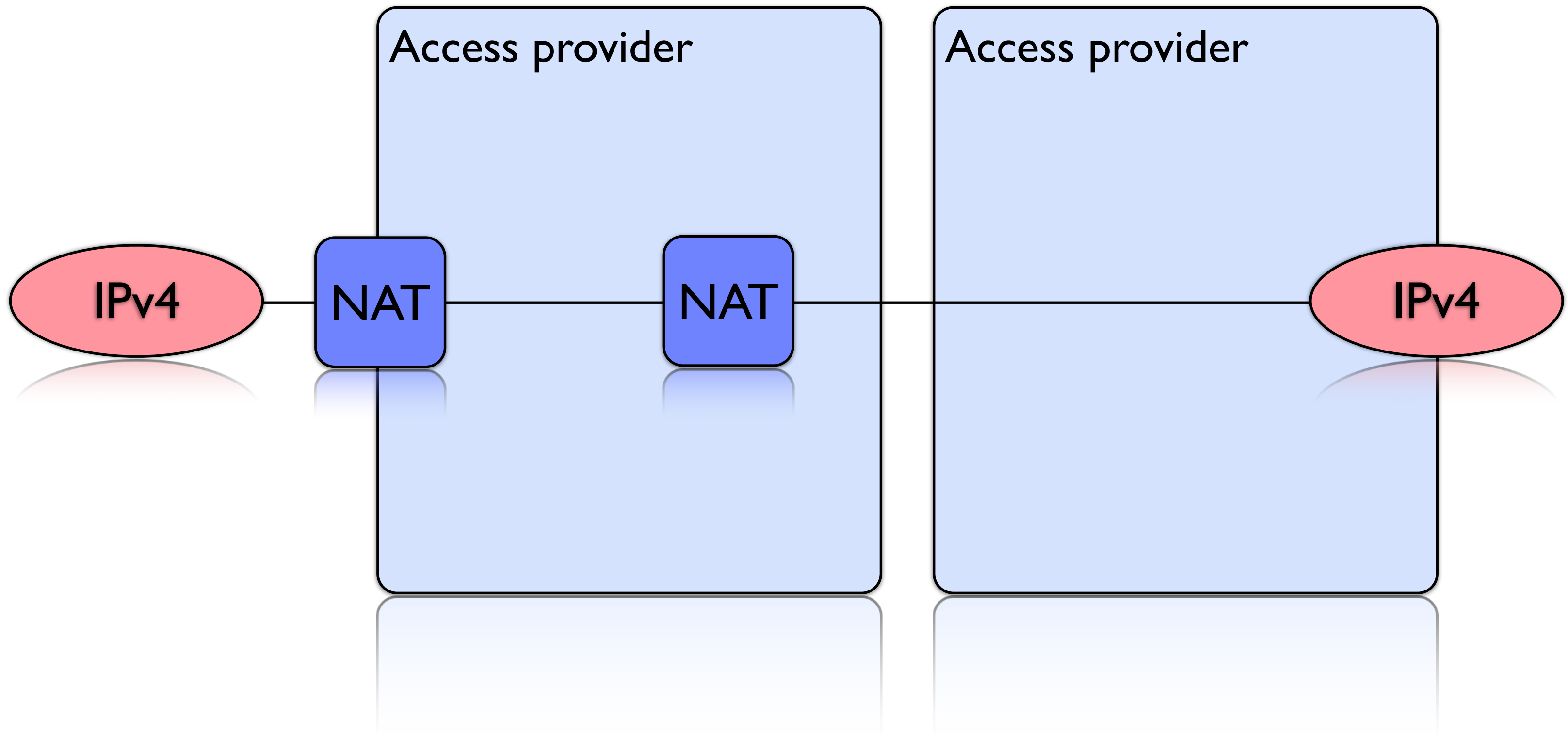
client

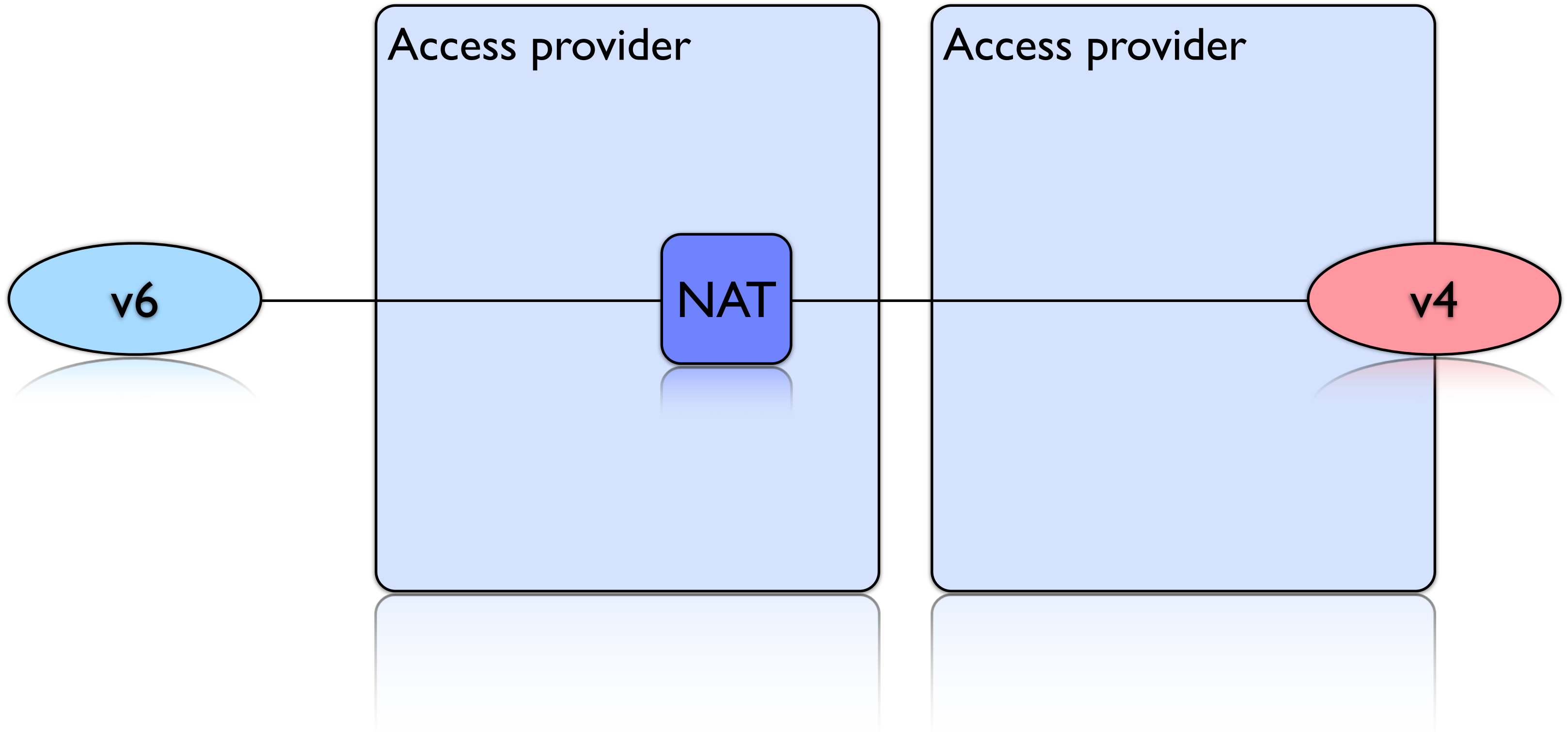
Server



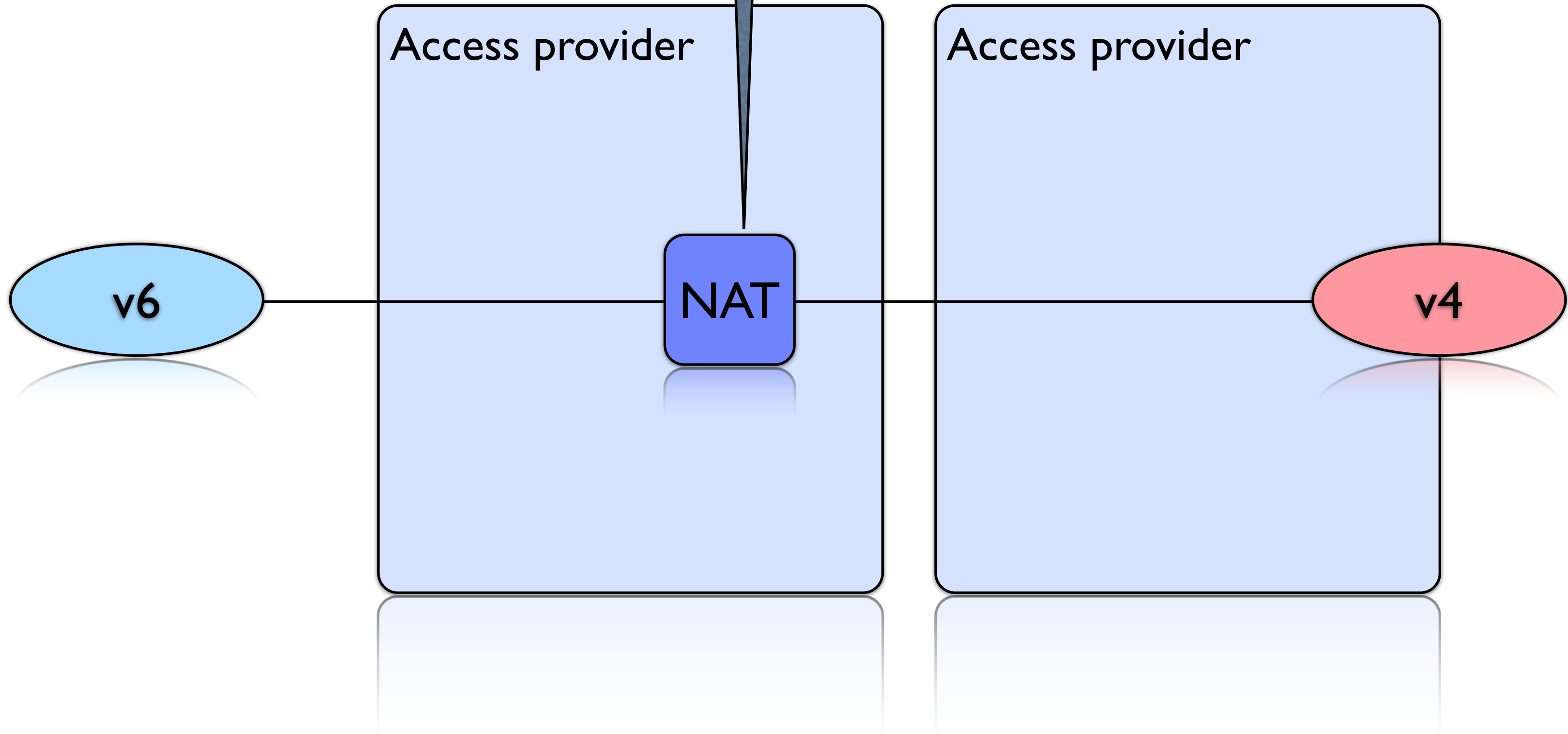


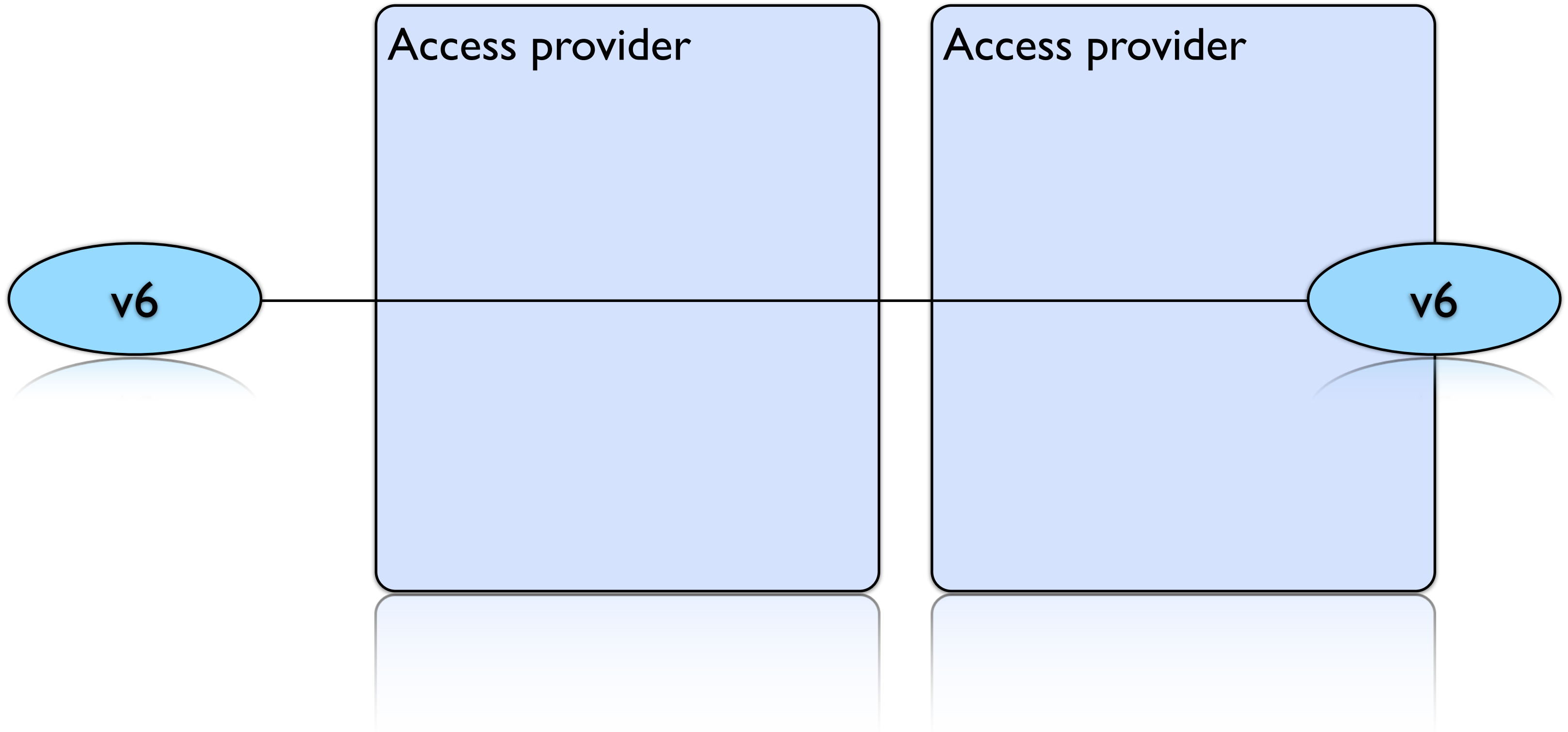






Functionality of service is dependent of well working NAT





Why is IPv6 important?

- **Services must work over IPv6 when first end user only have IPv6**
- **Office network have same environment as end users**
- **By being first customer, public sector help deployment of new technologies**



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