



LaSalle College

FUNDAMENTALS

Clase 01:

Historia de Internet y cómo funciona

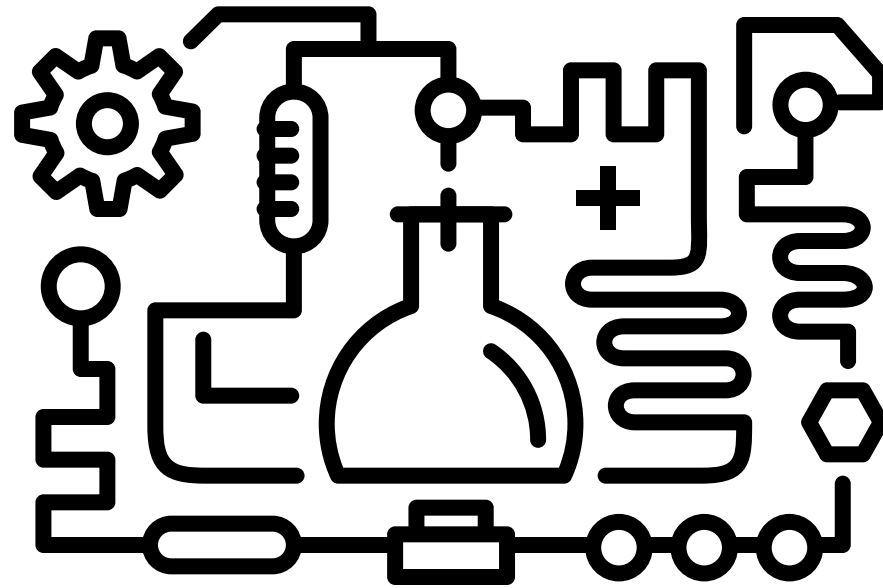


Sebastián Jaramillo Trujillo

sebastianjt.com

[linkedin.com/in/sebastianjt](https://www.linkedin.com/in/sebastianjt)

twitter.com/sebastianjt



Esta clase cubre la historia de Internet, las bases sobre el funcionamiento de este y el sistema de nombre de dominios (DNS).

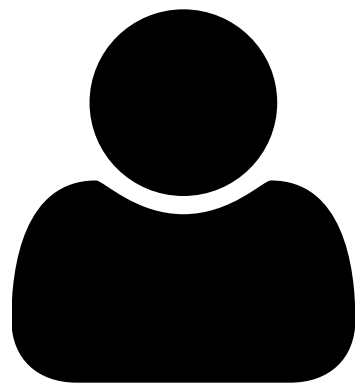
- Historia de Internet
- Cómo funciona Internet

1957

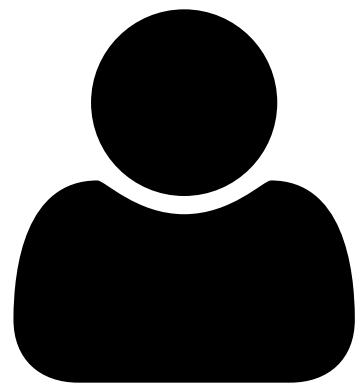


1957

1957



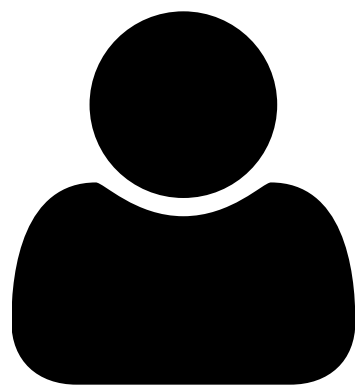
Developer



Specialist

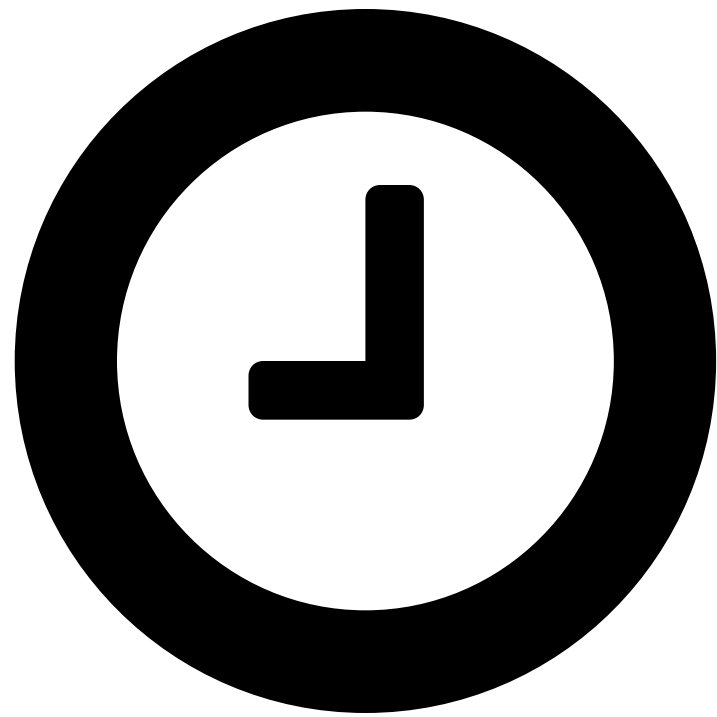


1957



Developer





TIME
SHARING

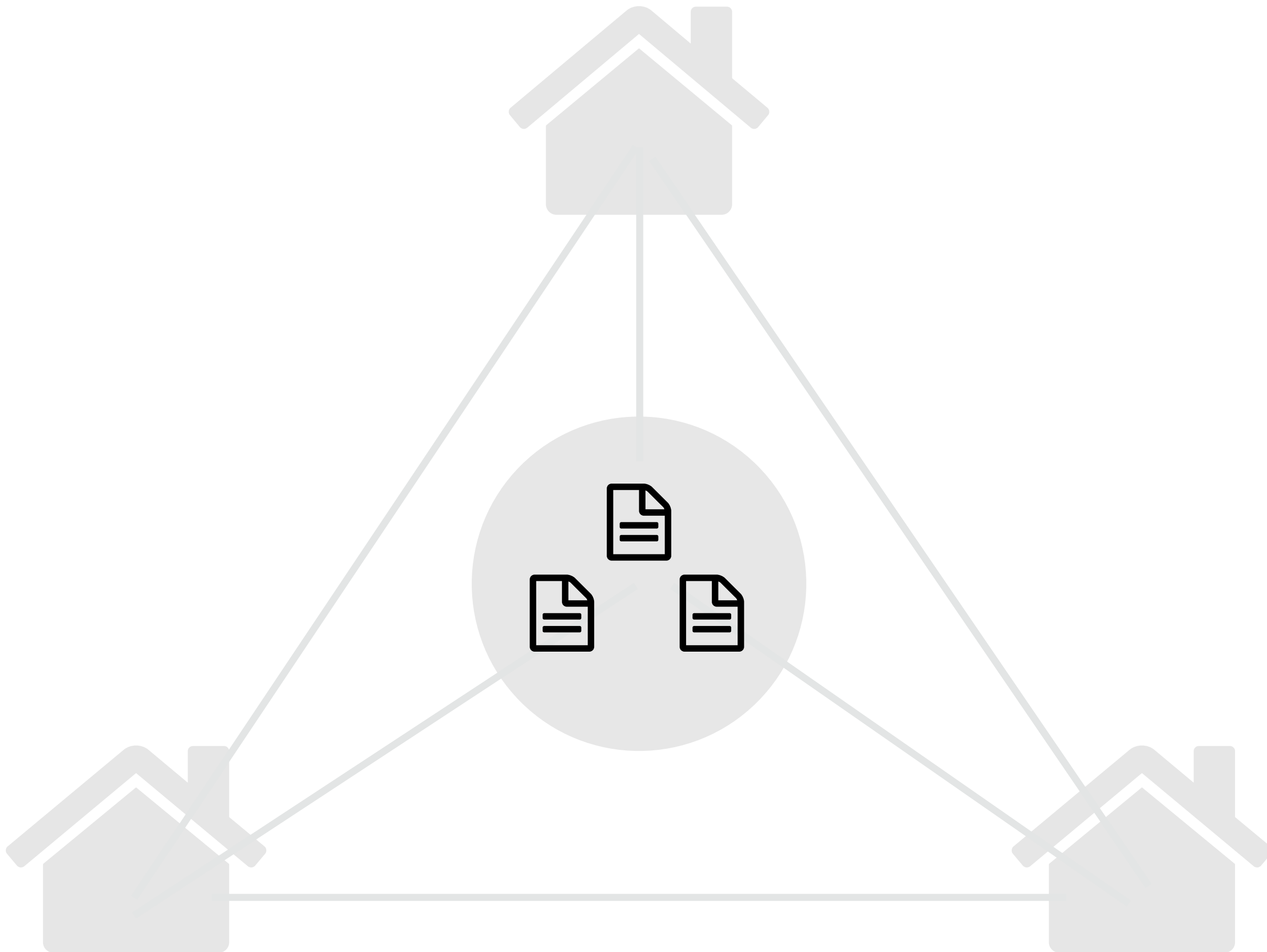
Octubre 1957

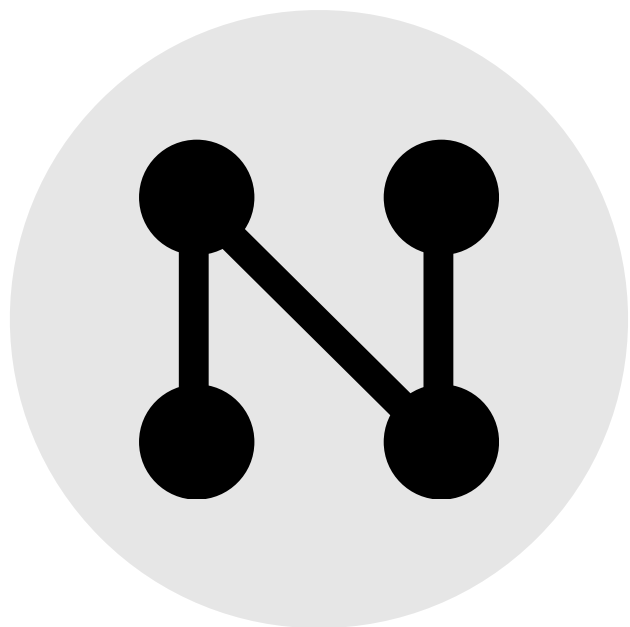


DARPA

Defense Advanced
Research Project
Agency

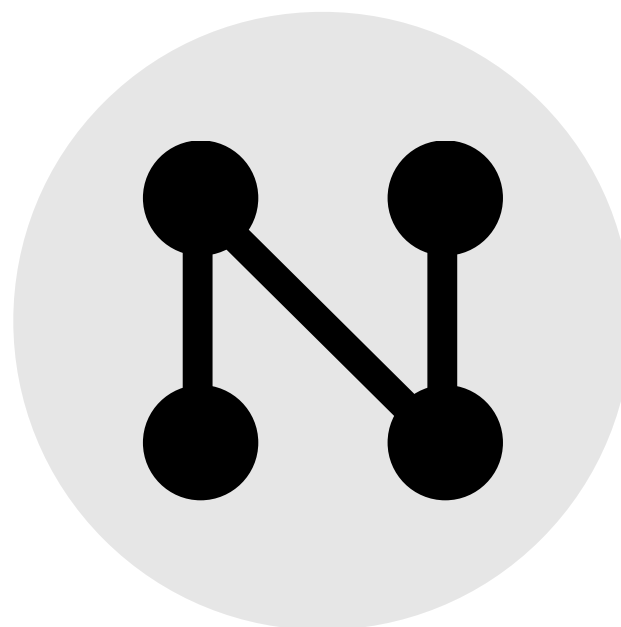
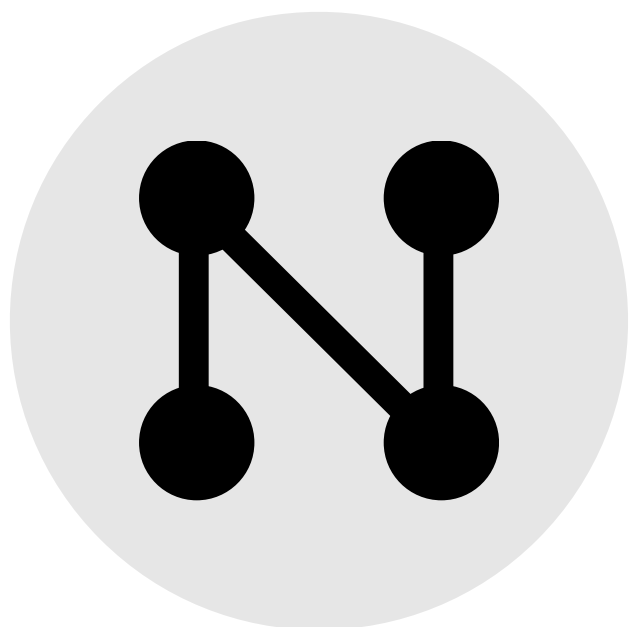
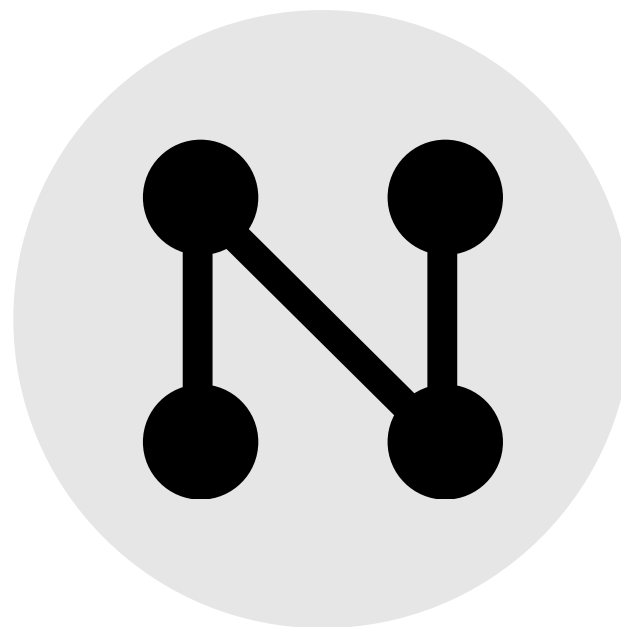
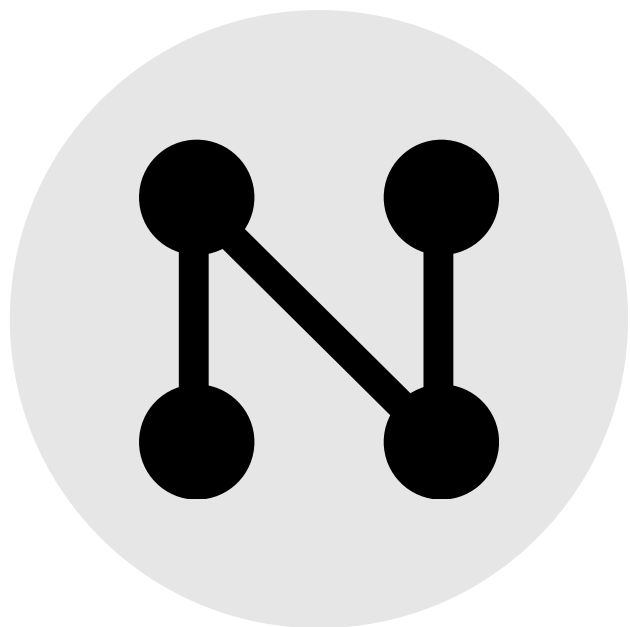


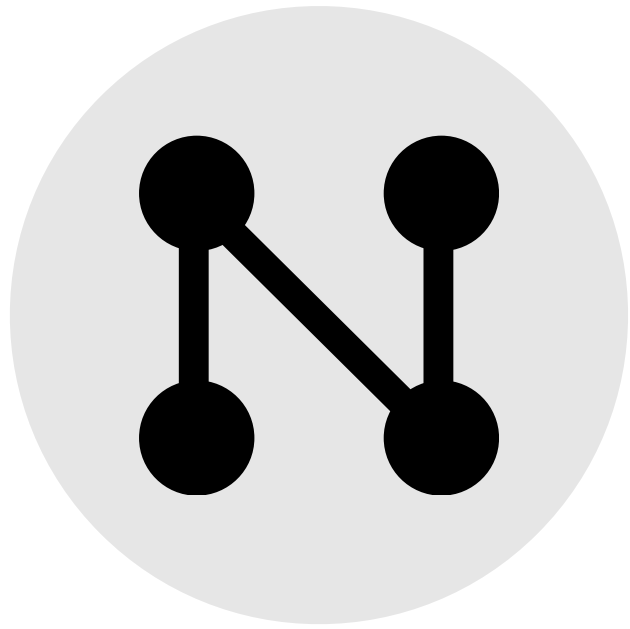




ARPANET

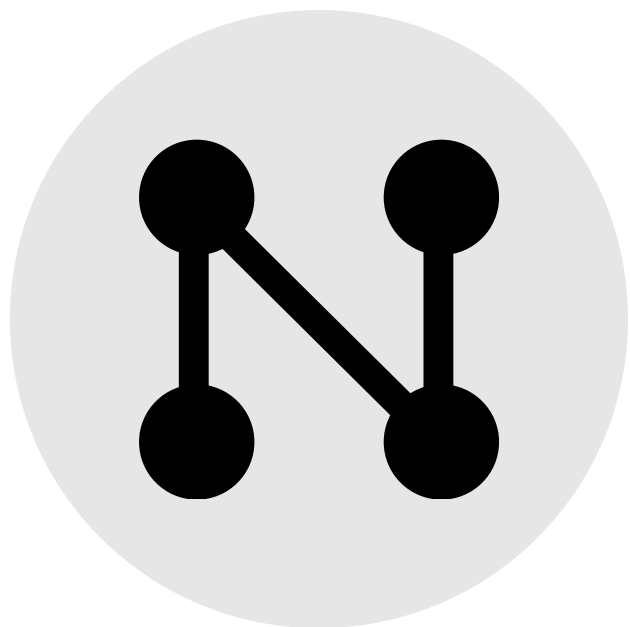
Defense Advanced
Research Project
Agency





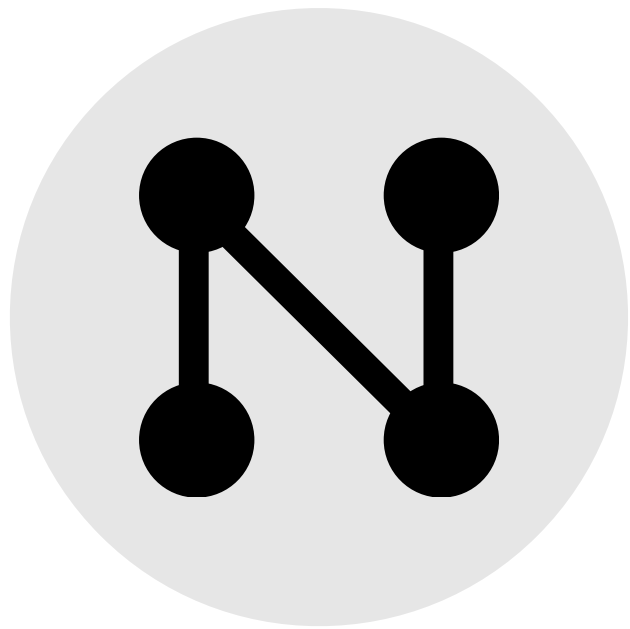
RAND

Rand Corporation



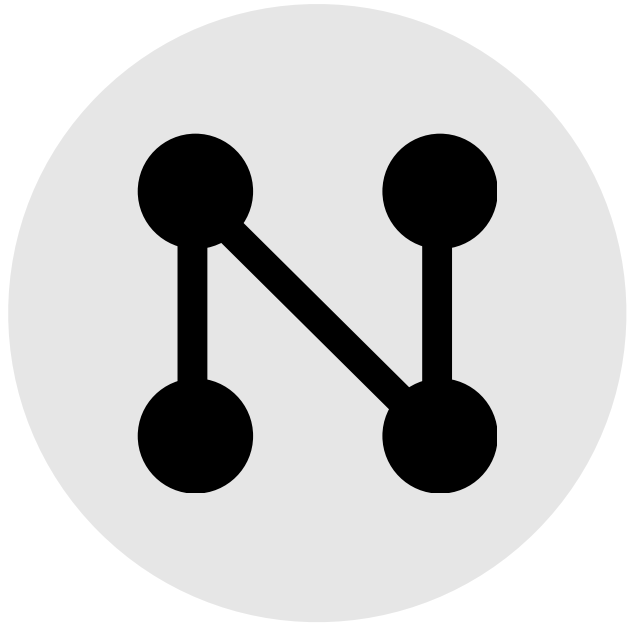
NPL

National Physical
Laboratory

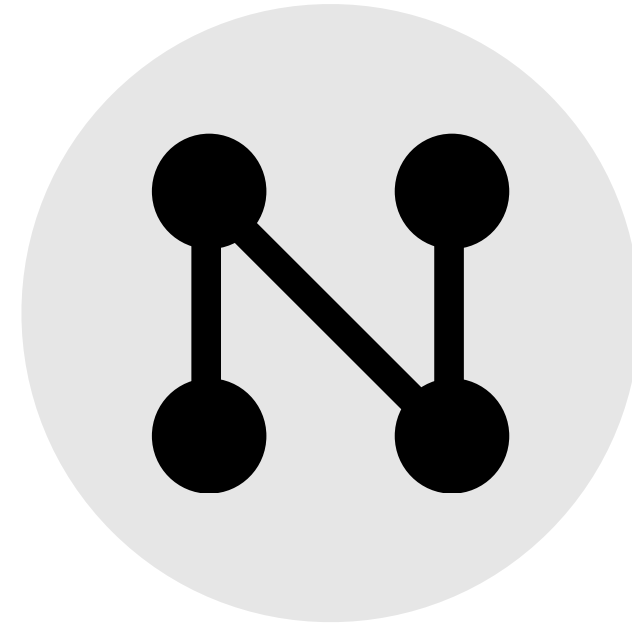


CYCLADES

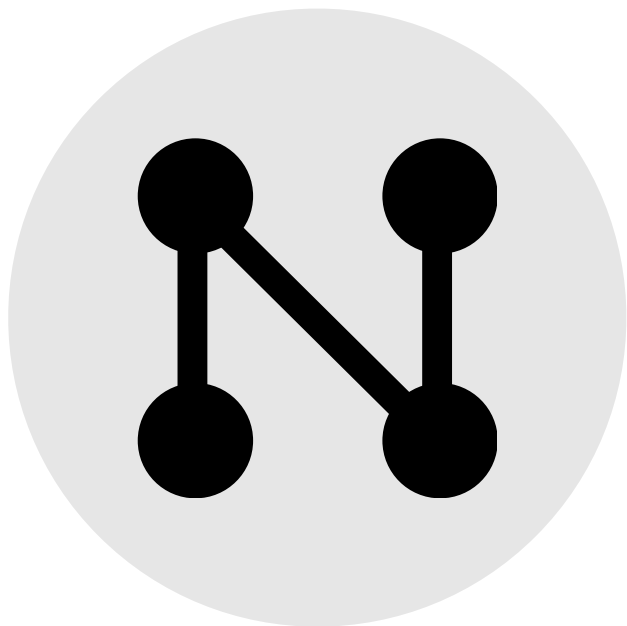
Institut de Recherche
d'Informatique
et d'Automatique



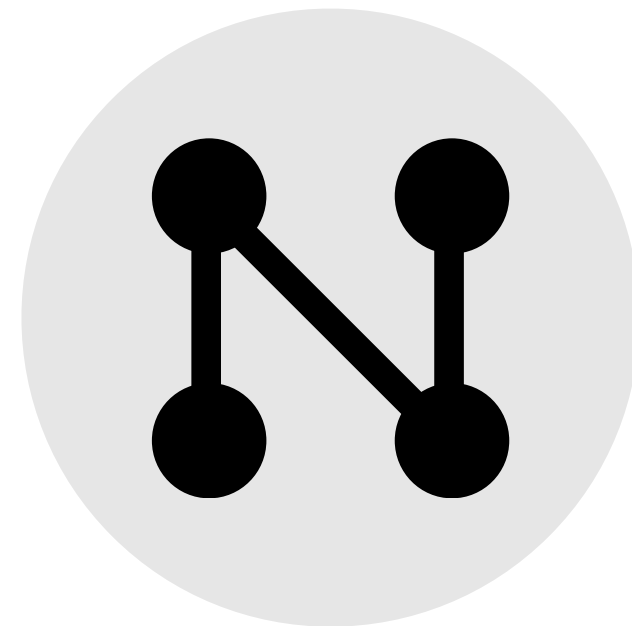
ARPANET



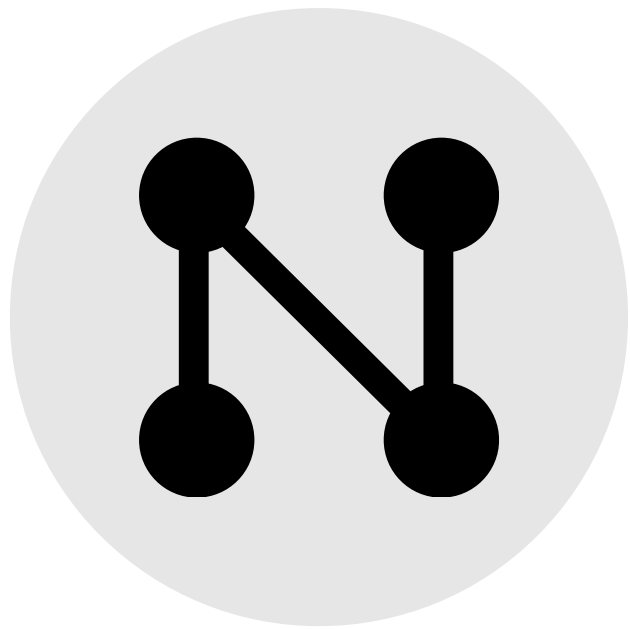
RAND



NPL

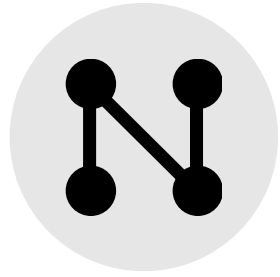


CYCLADES



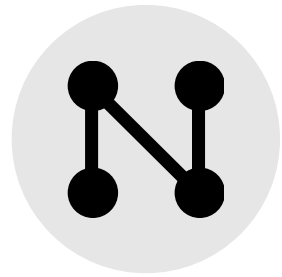
ARPANET

Defense Advanced
Research Project
Agency

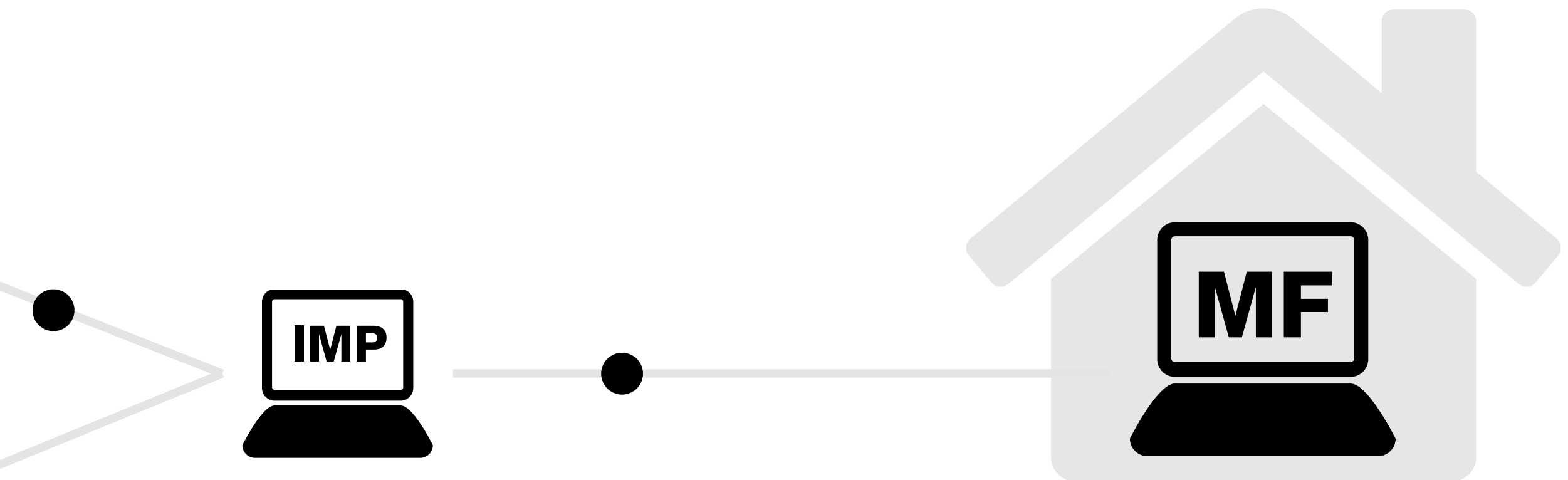


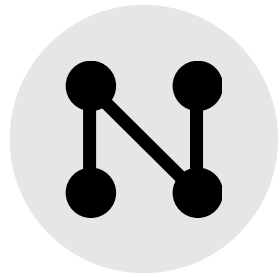
ARPANET



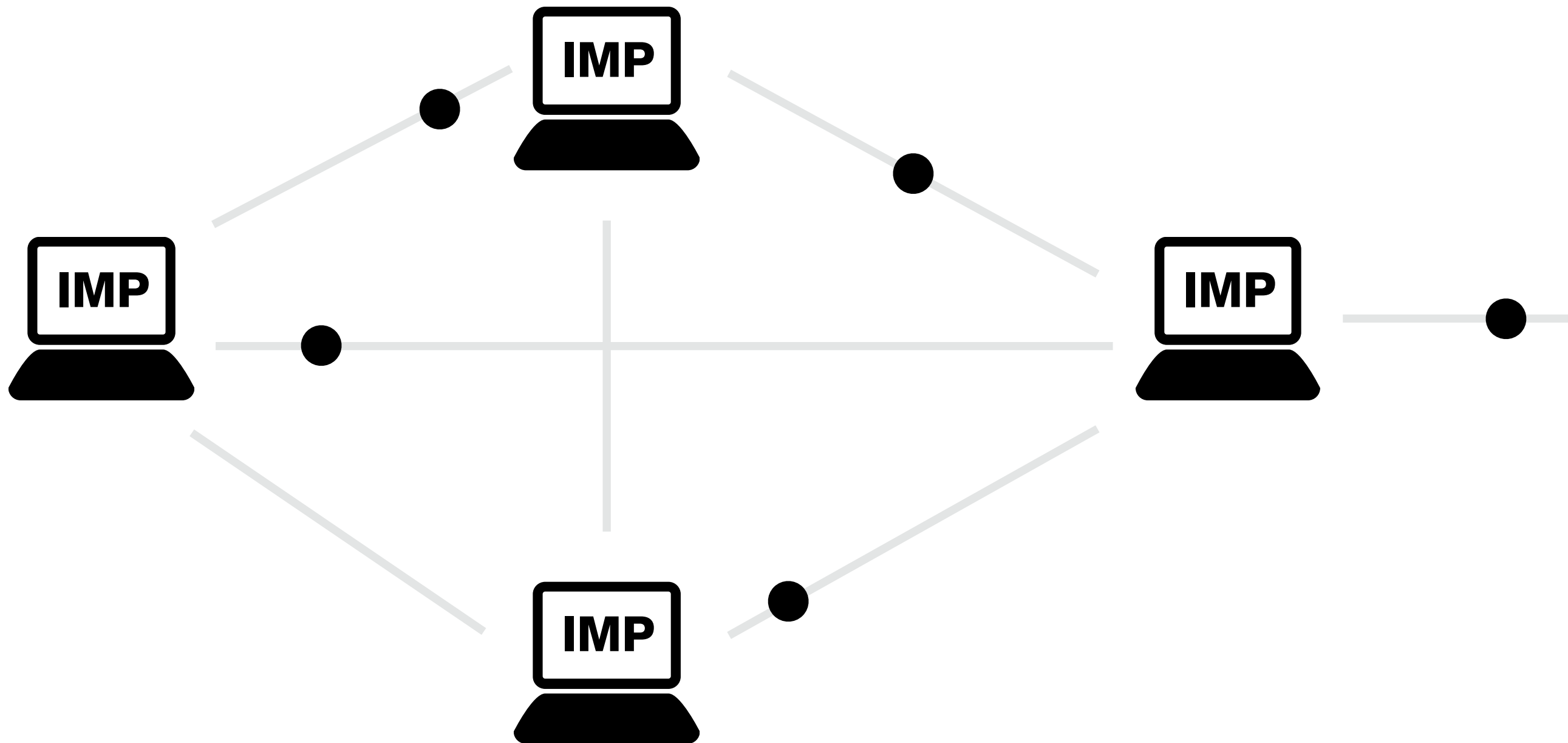


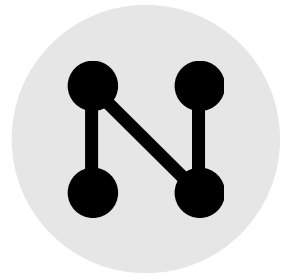
ARPANET





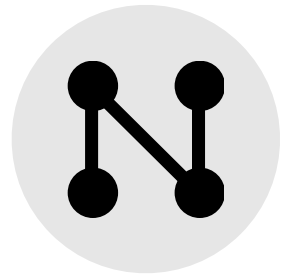
ARPANET



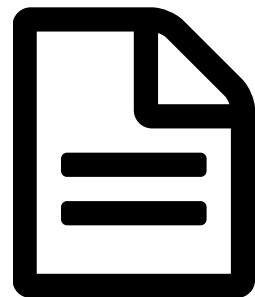


ARPANET





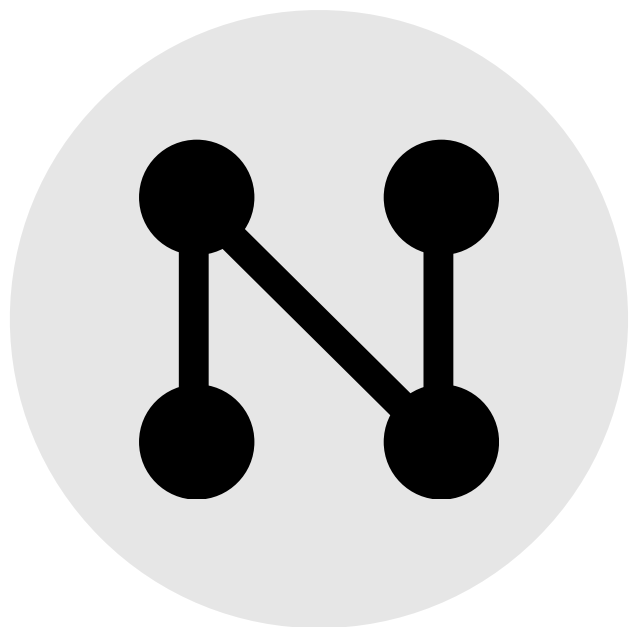
ARPANET



TCP

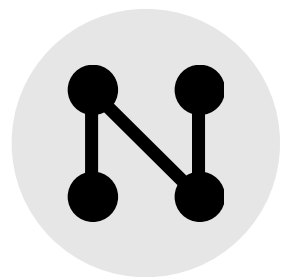
Transmission
Control
Protocol



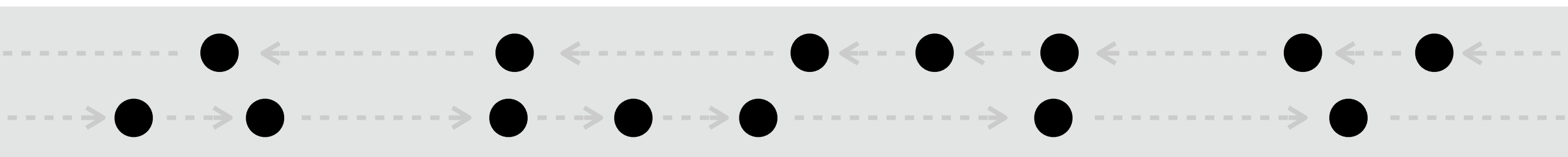


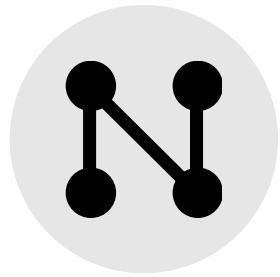
NPL

National Physical
Laboratory

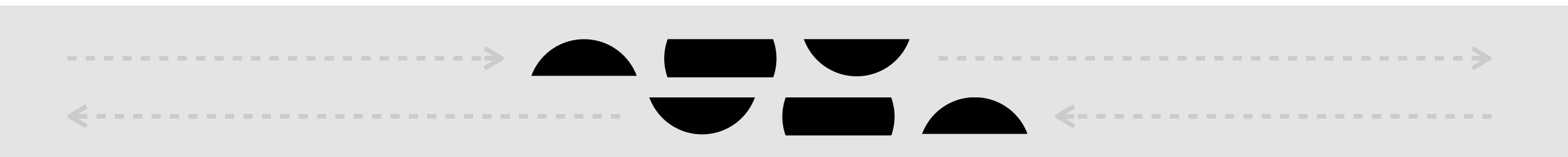
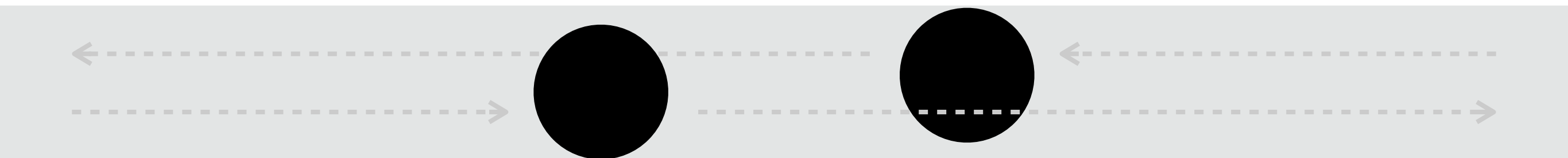


NPL



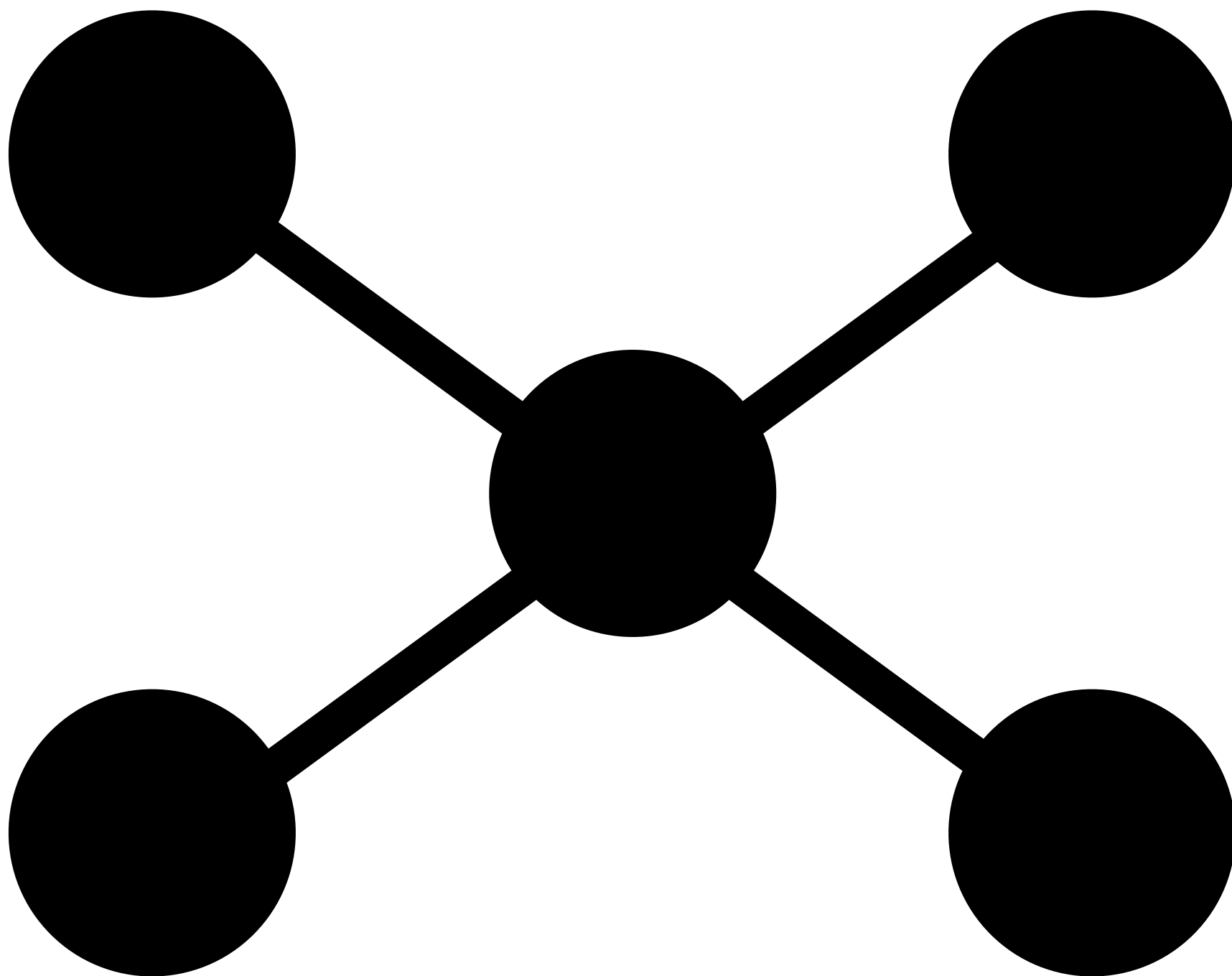


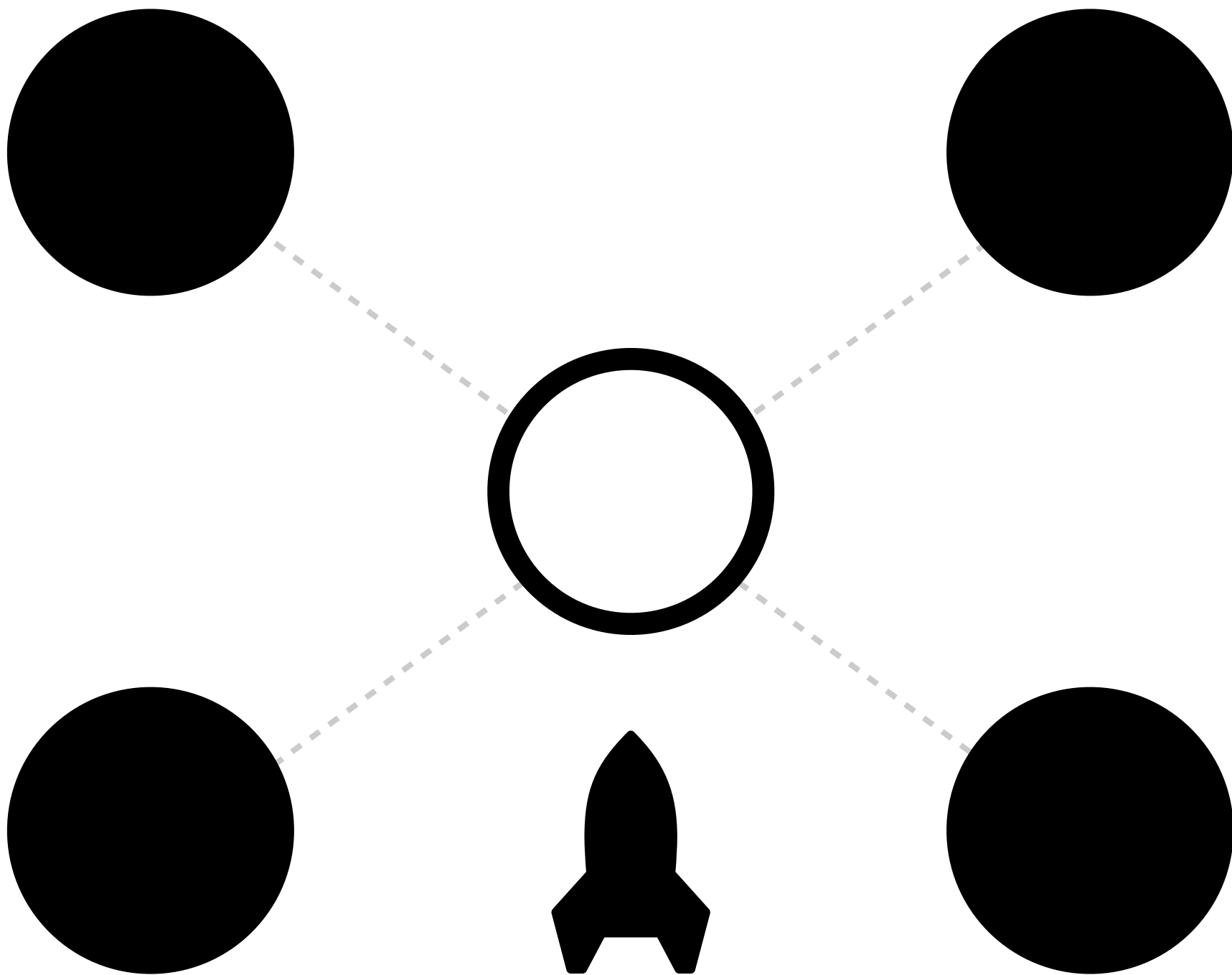
NPL

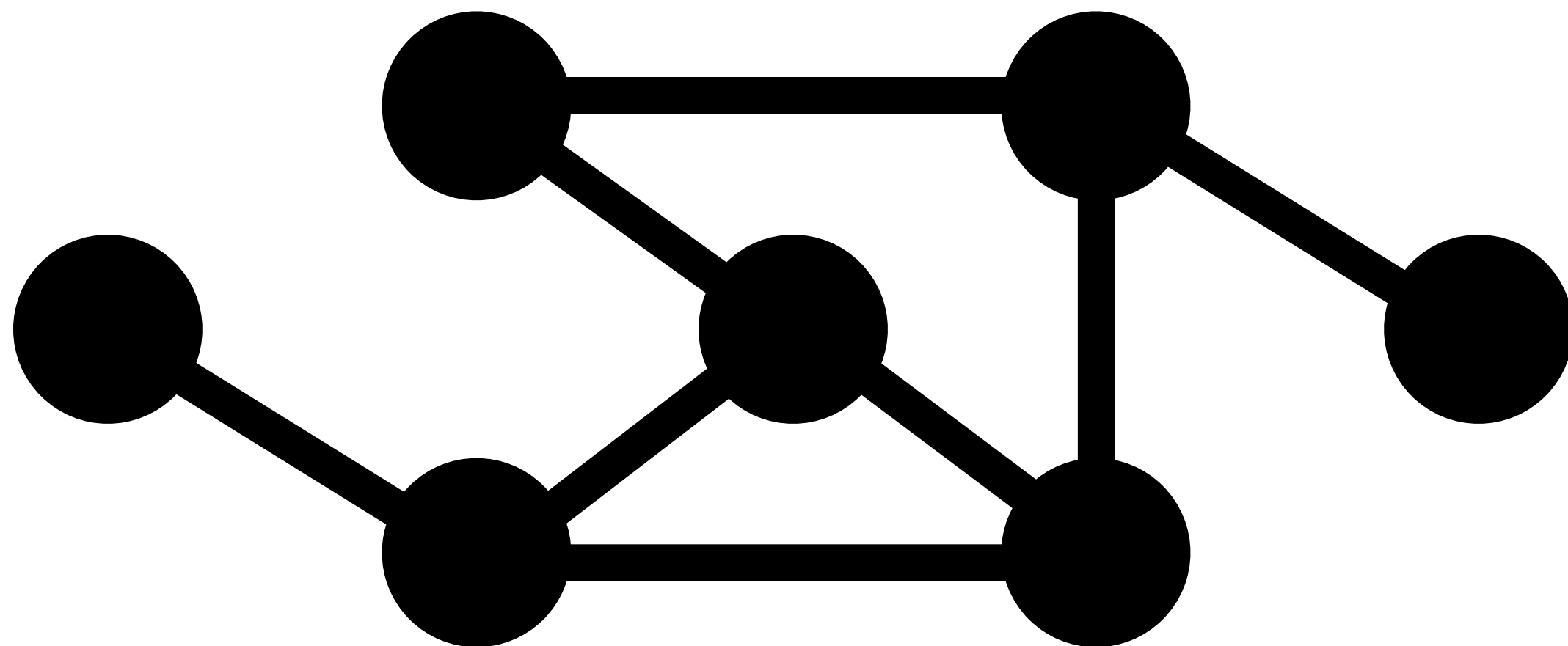


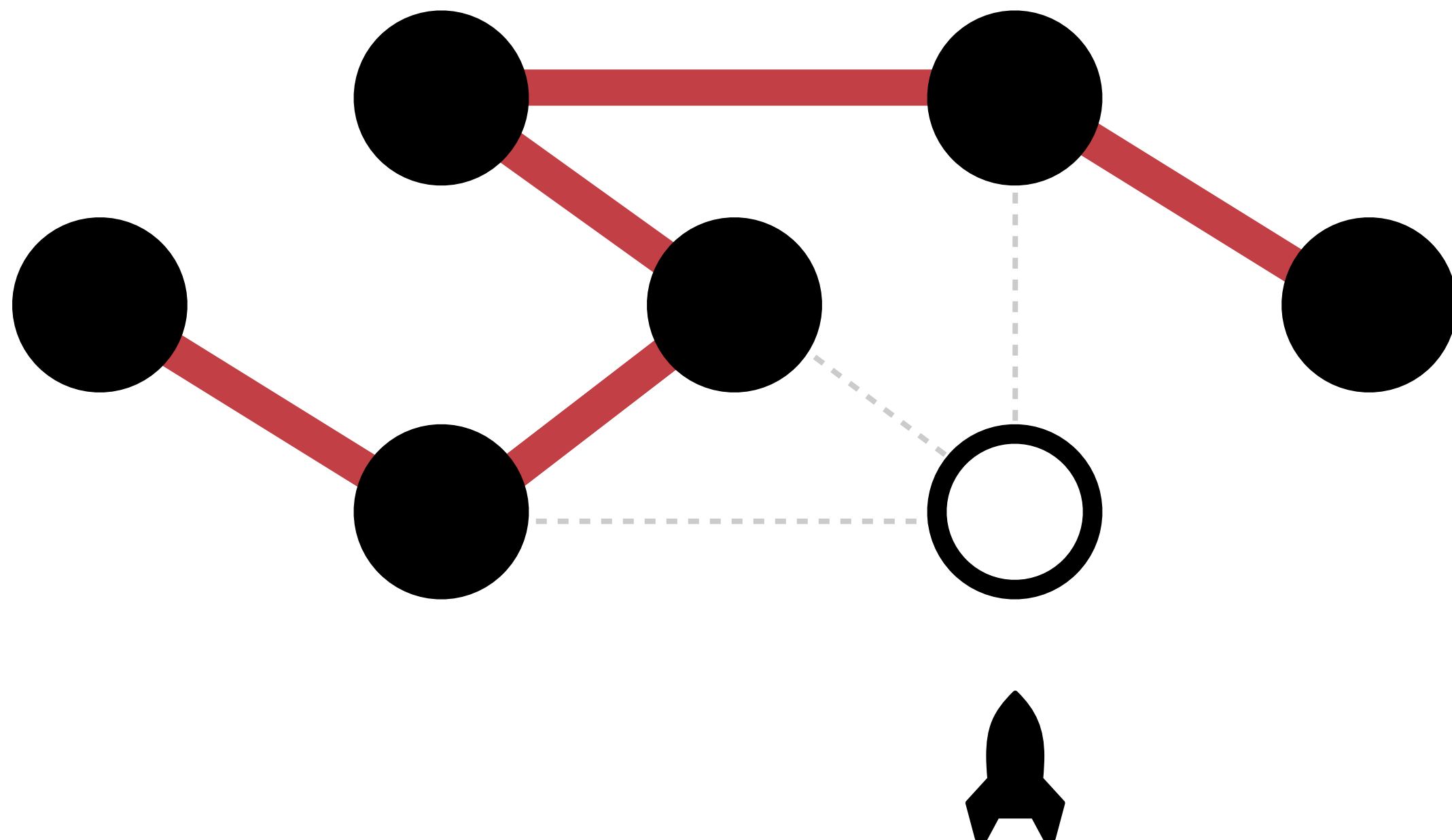
PACKET SWITCHING

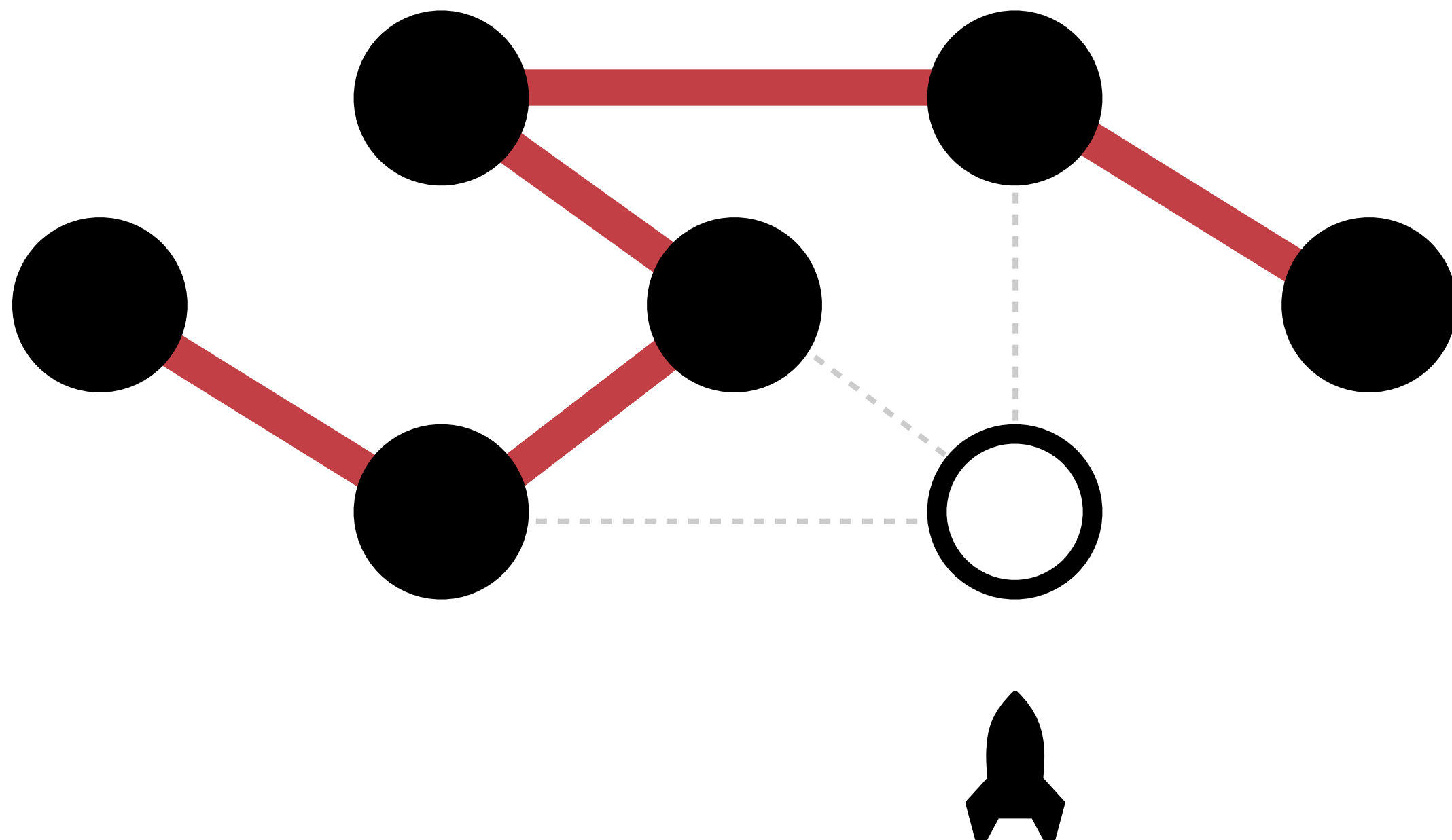
1962

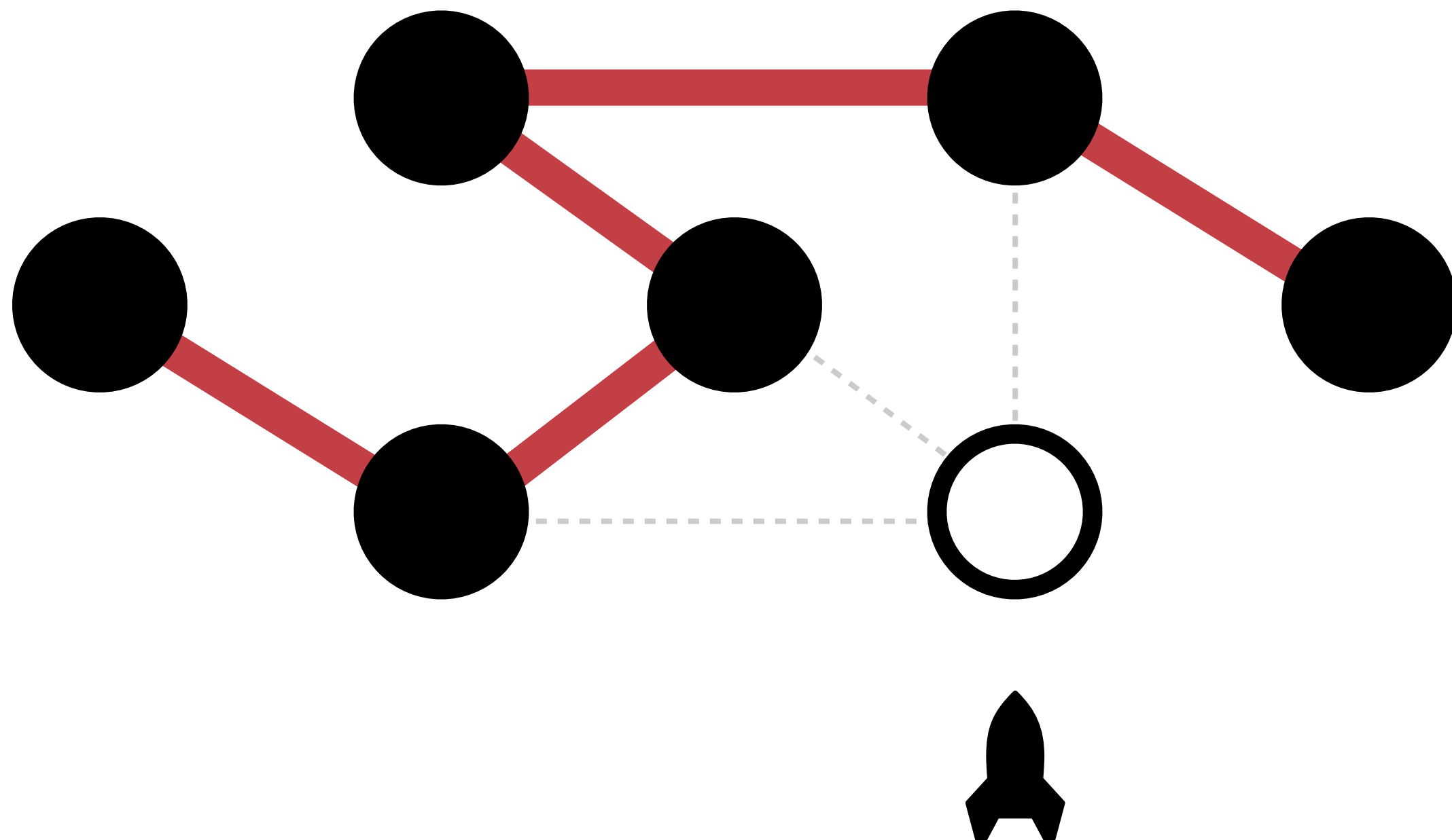


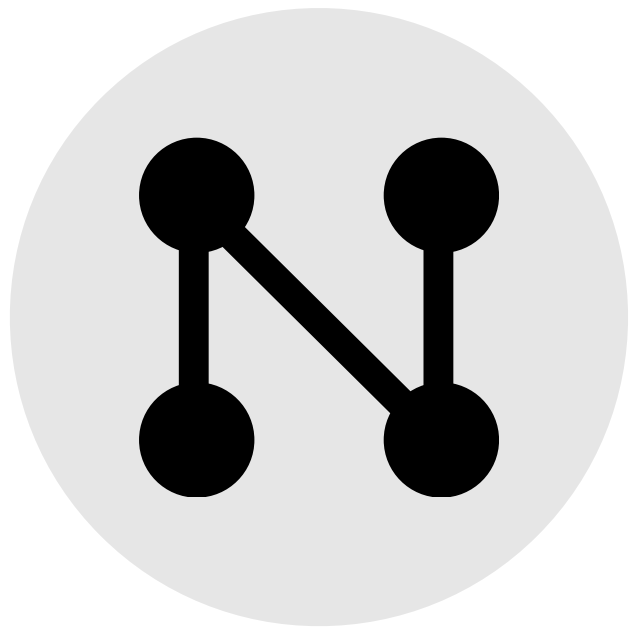






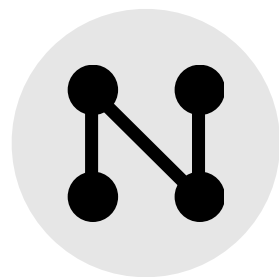




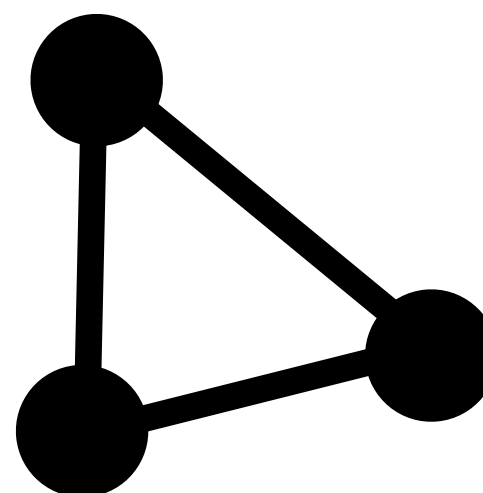
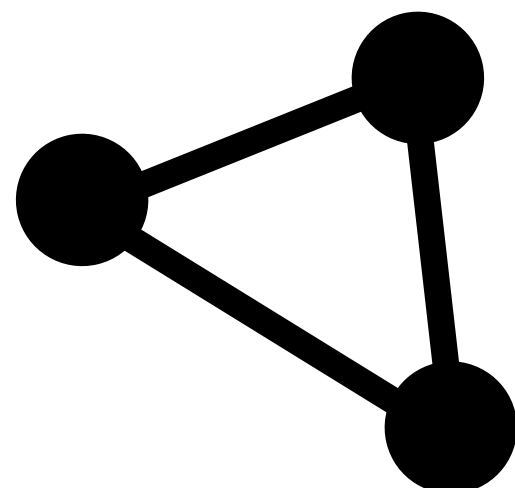
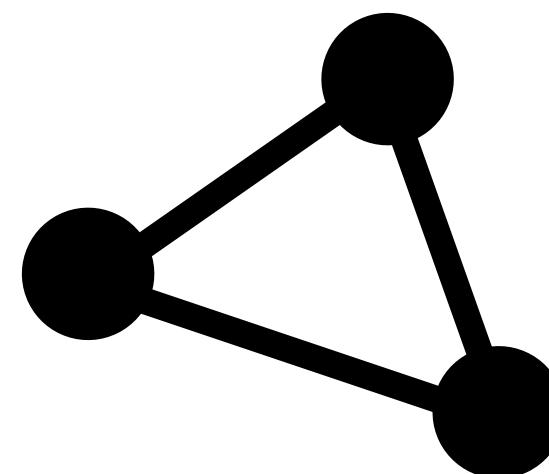
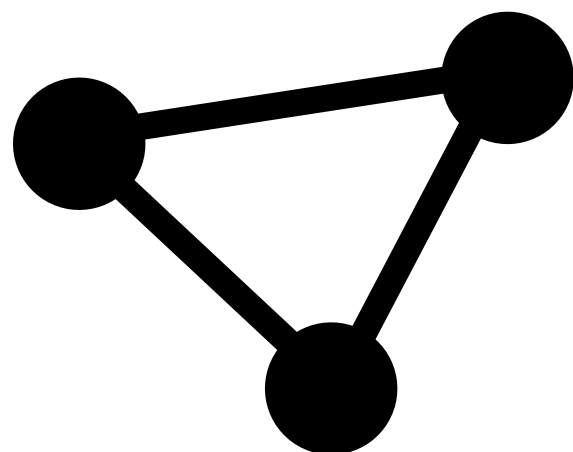


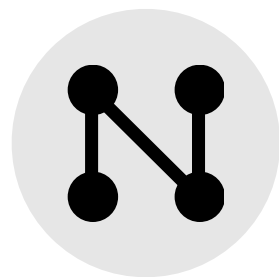
CYCLADES

Institut de Recherche
d'Informatique
et d'Automatique

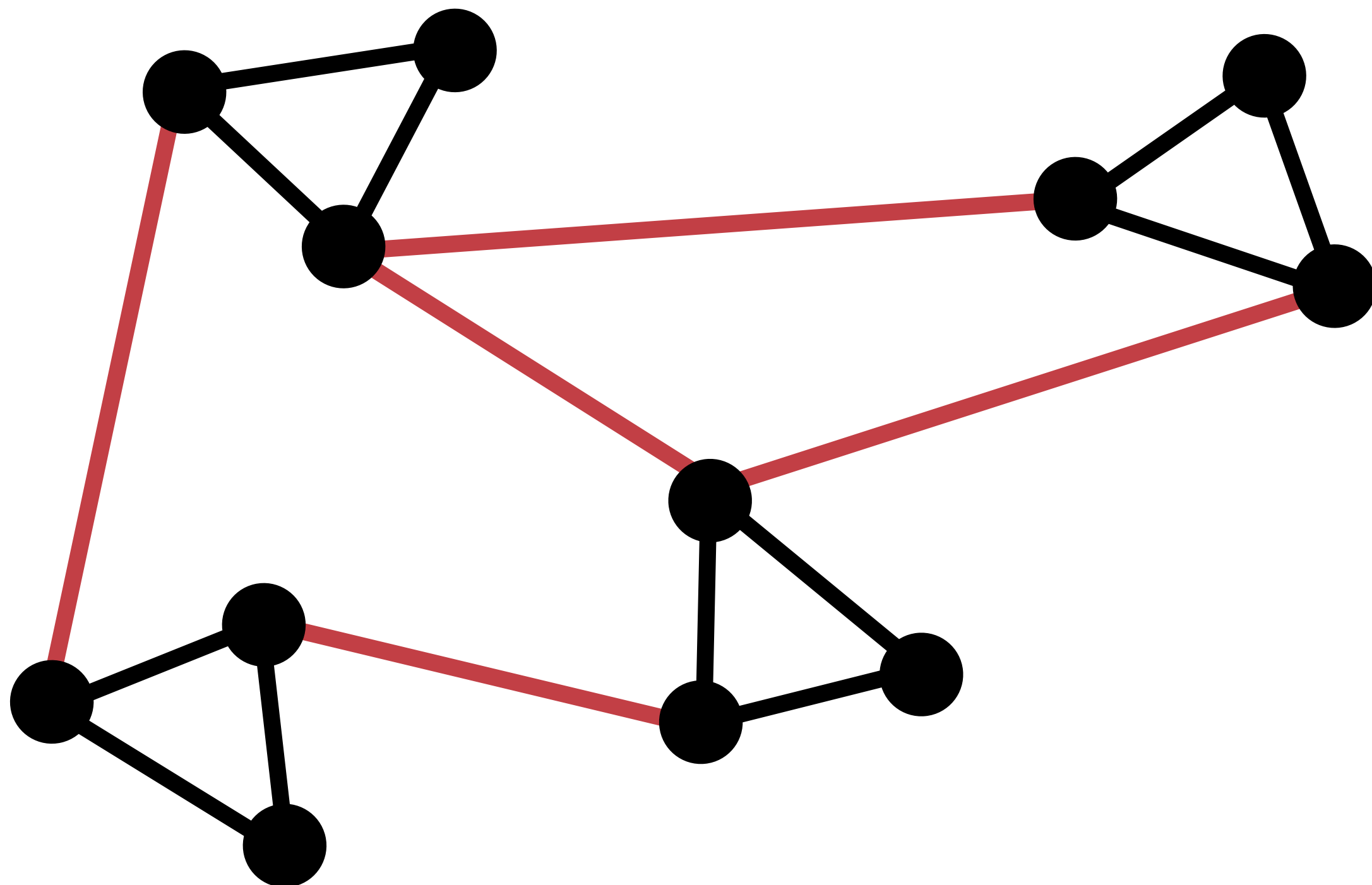


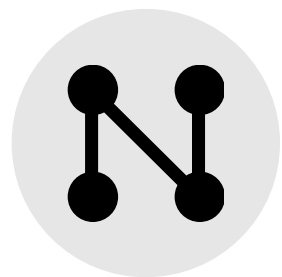
CYCLADES



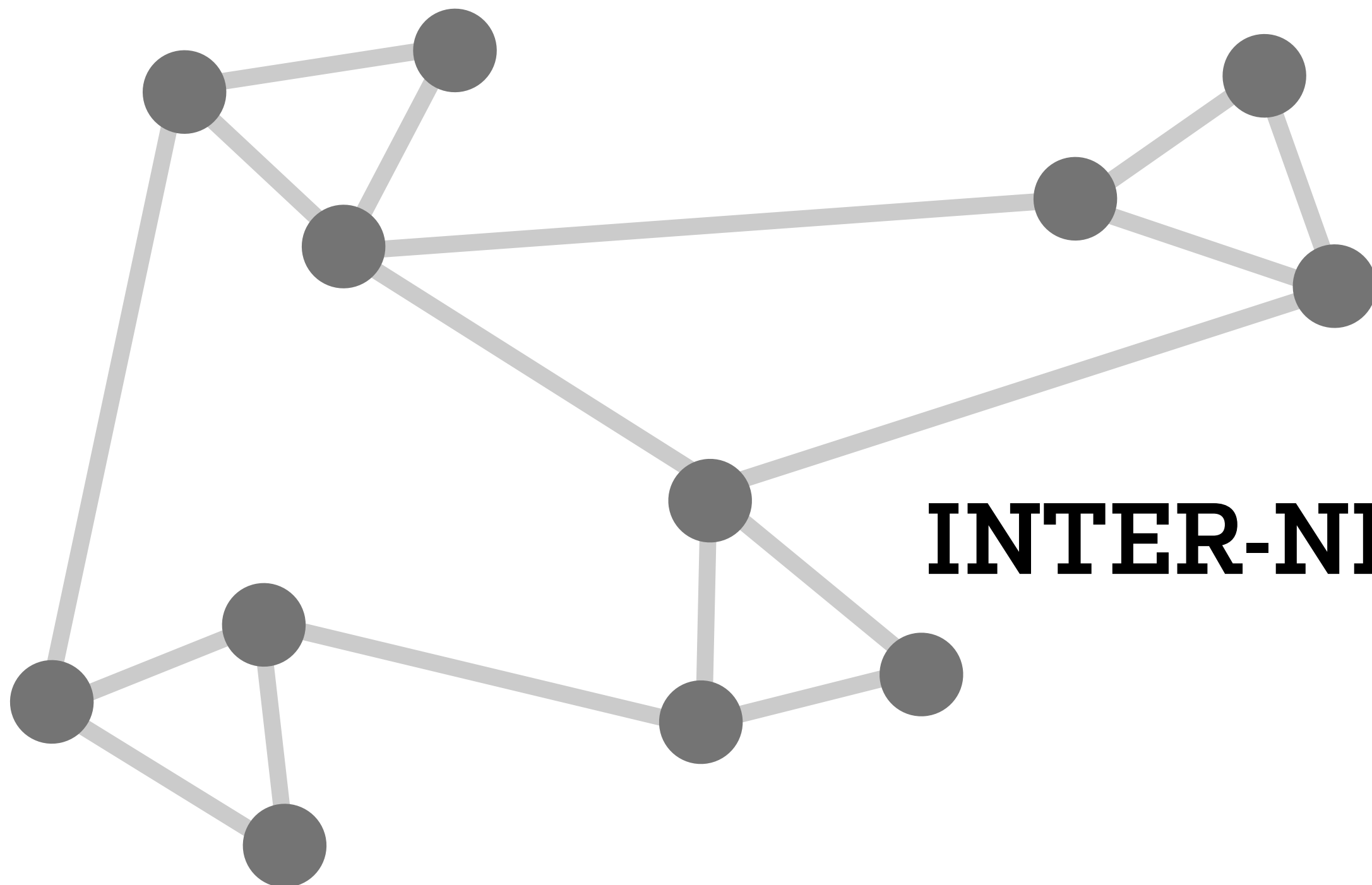


CYCLADES

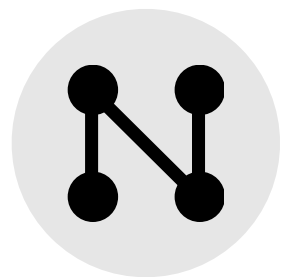




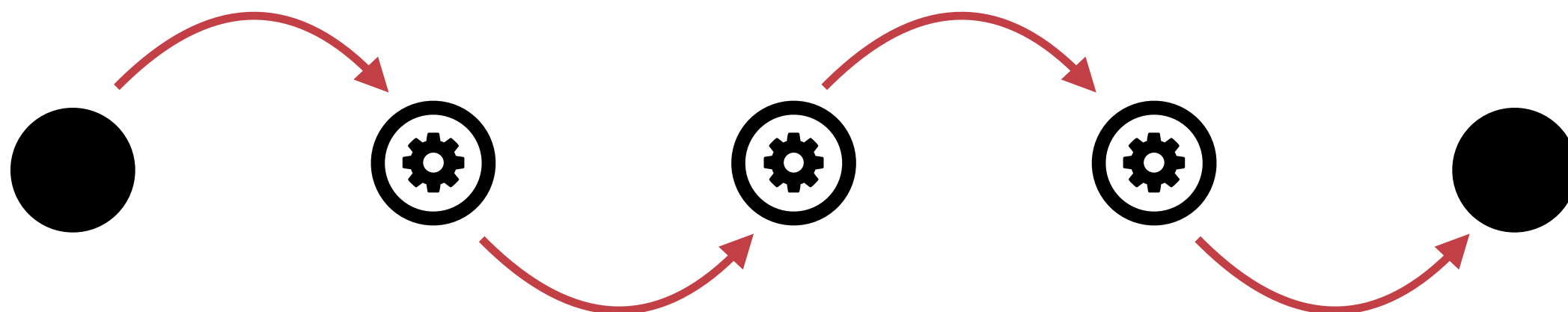
CYCLADES

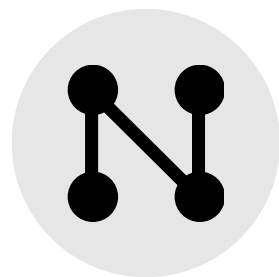


INTER-NET

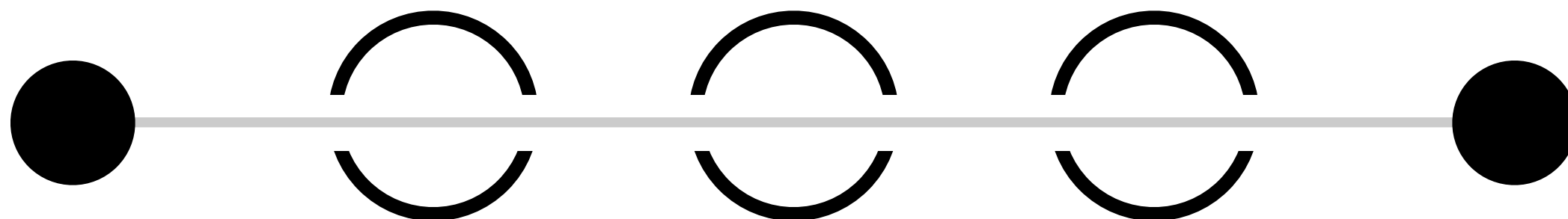


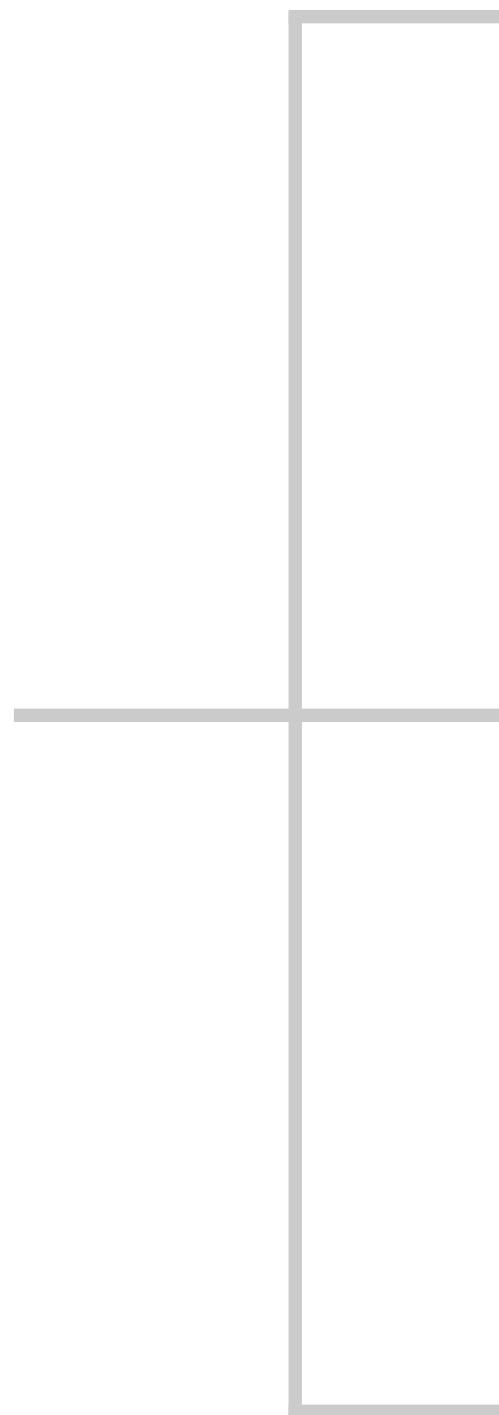
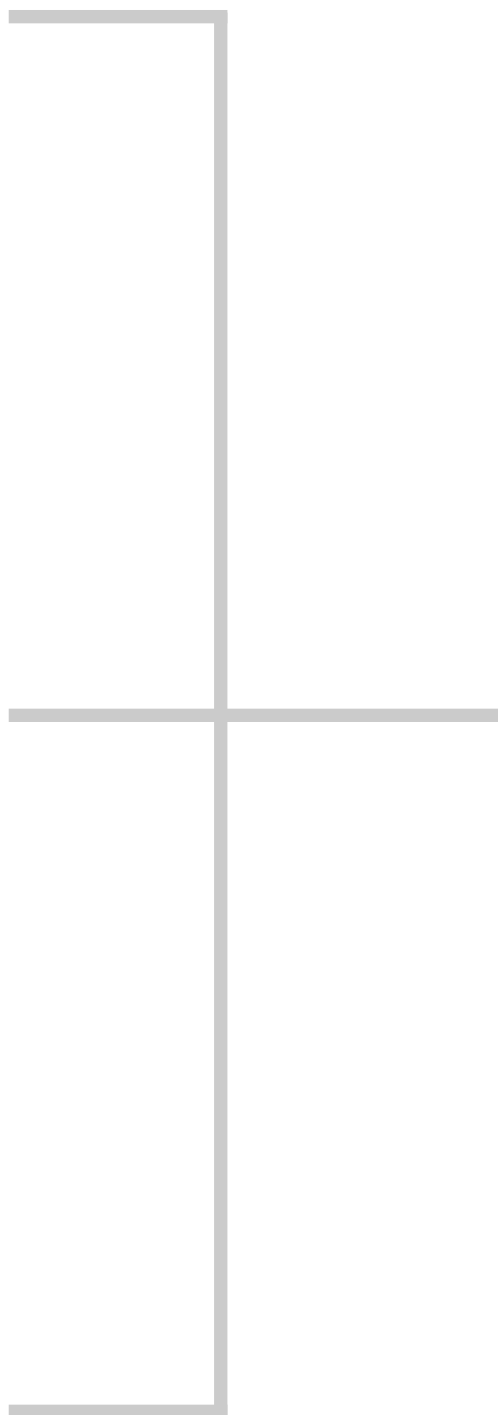
CYCLADES

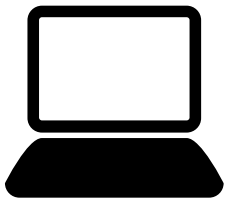
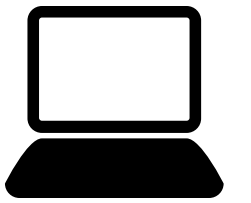


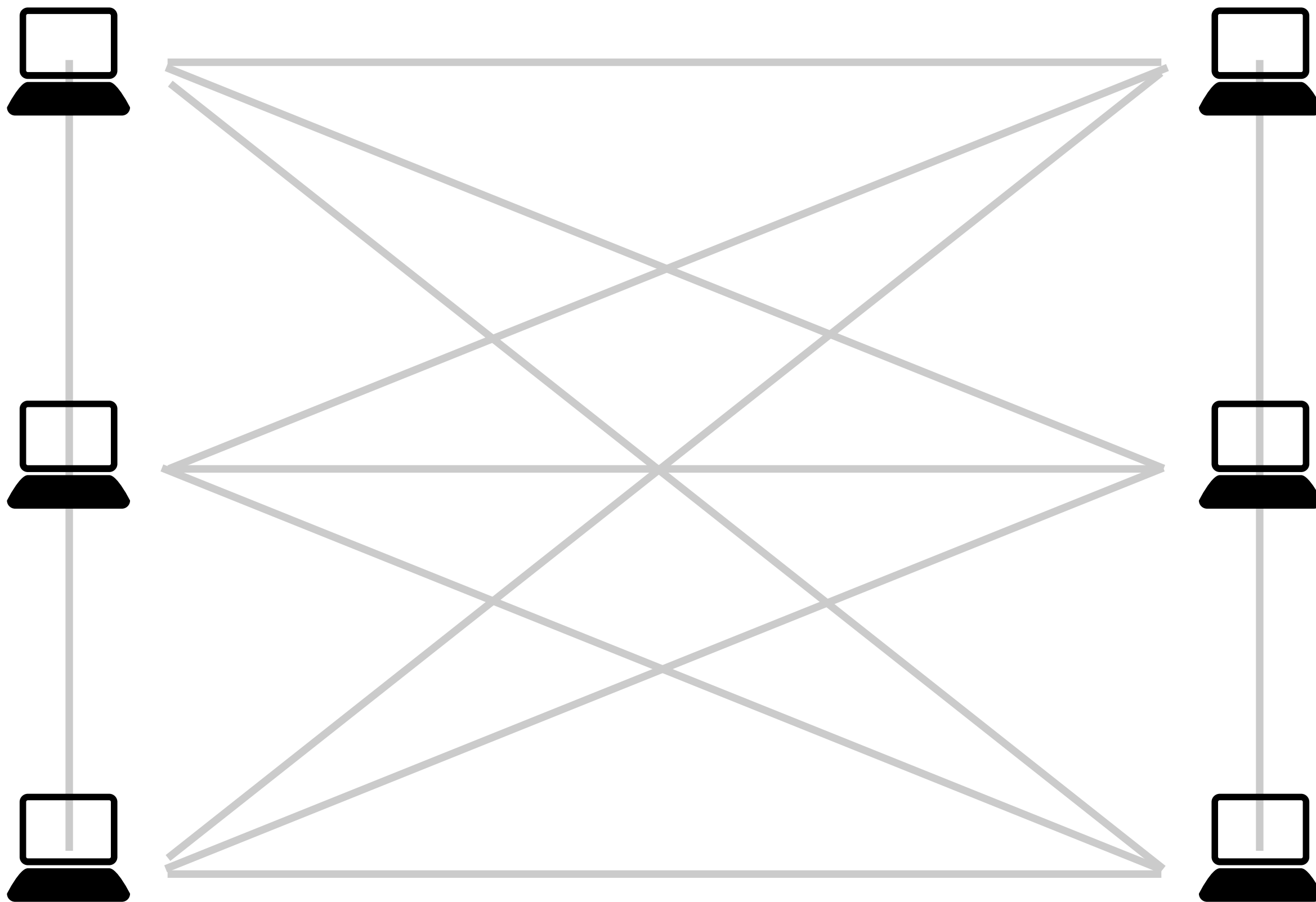


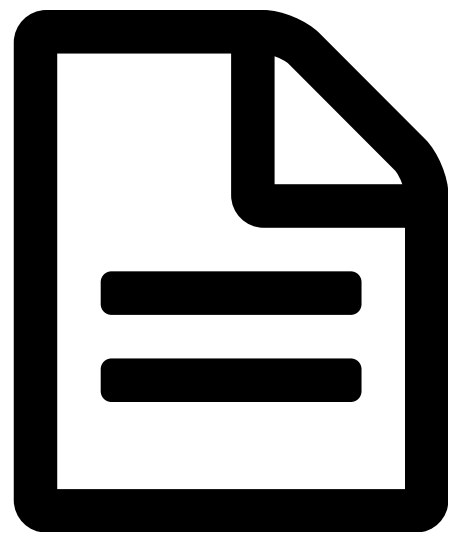
CYCLADES





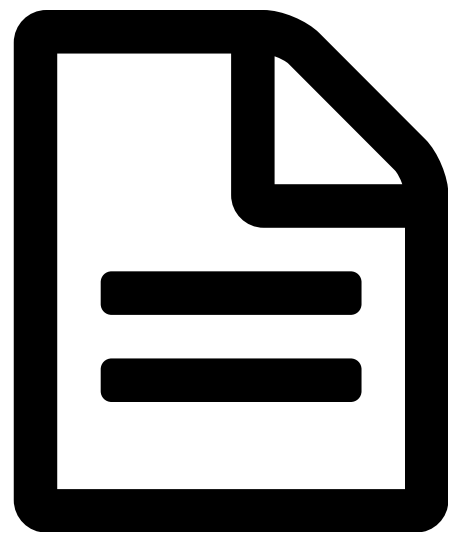






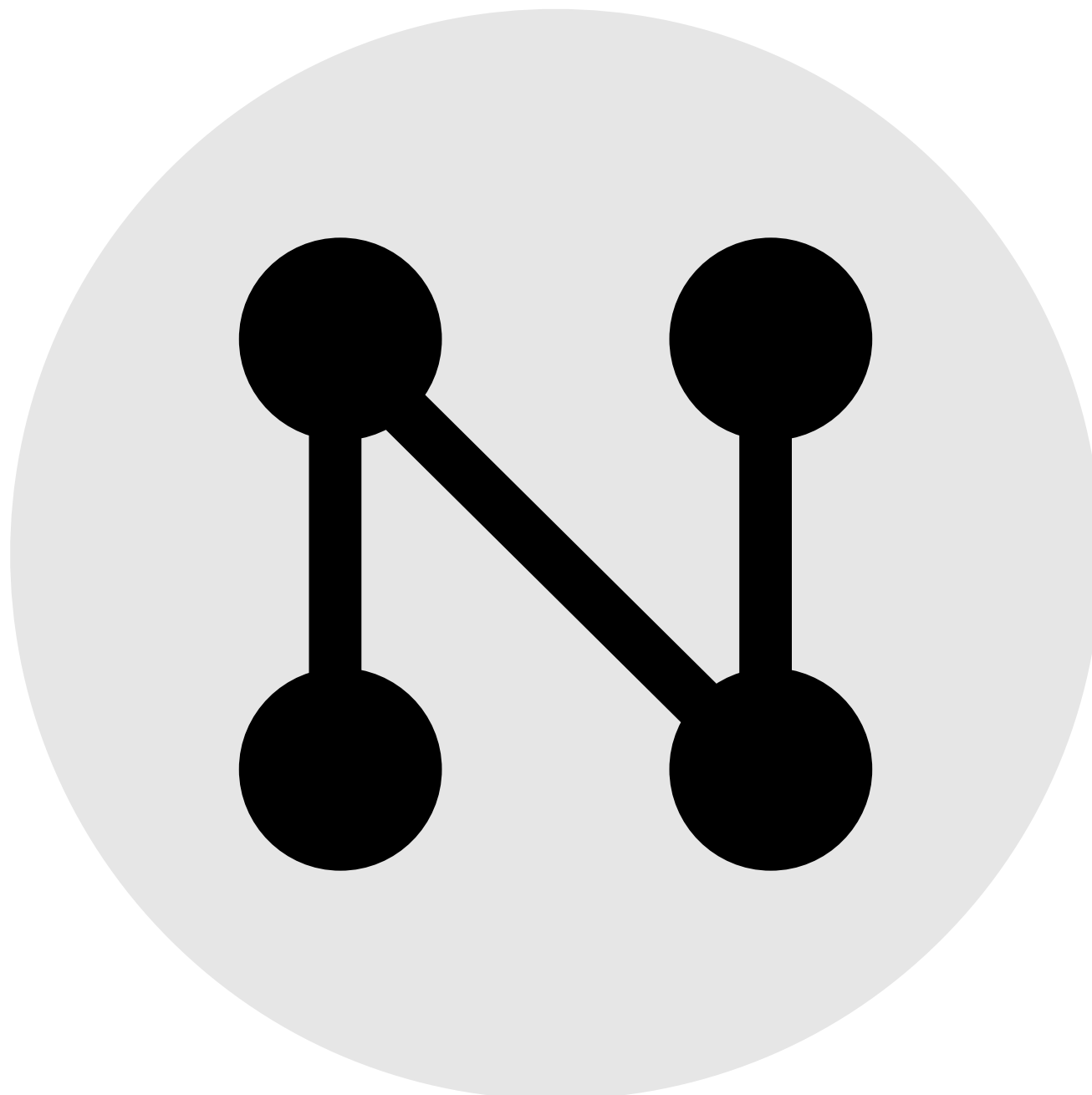
TCP

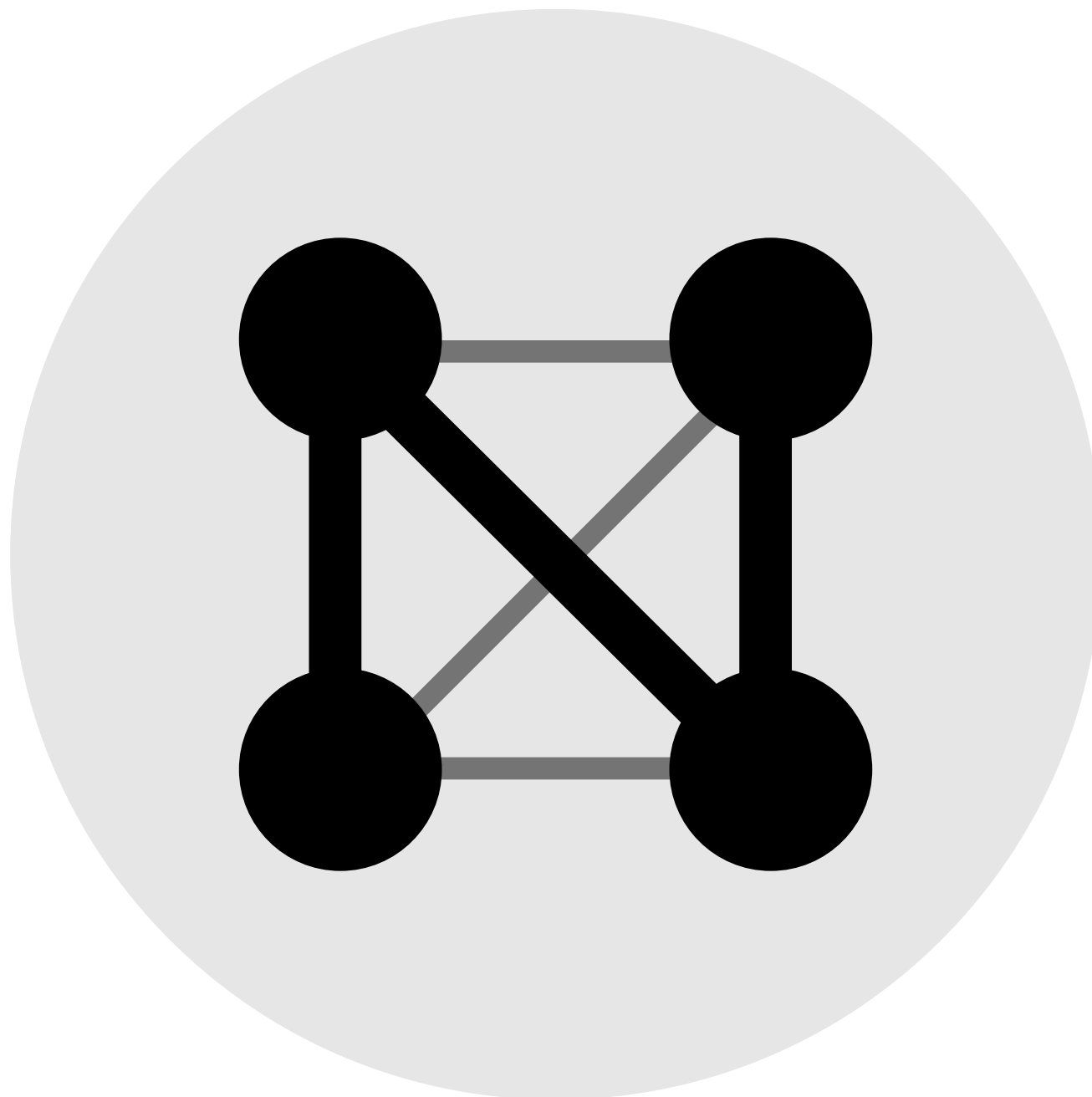
Transmission
Control
Protocol



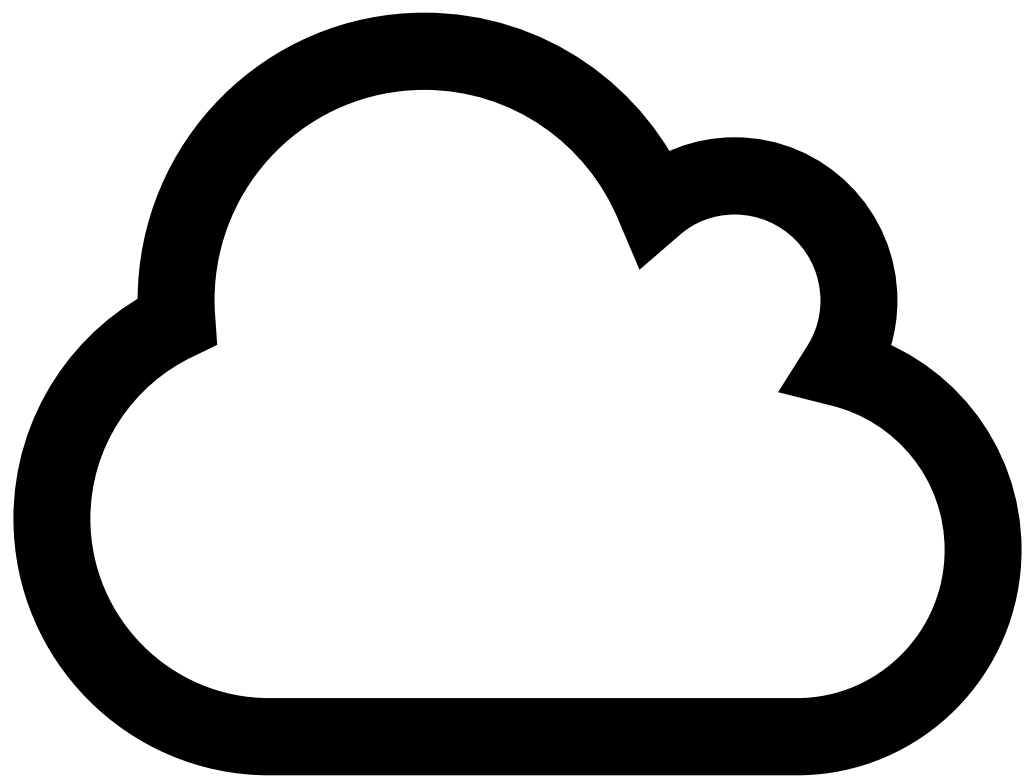
TCP/IP

Transmission
Control
Protocol



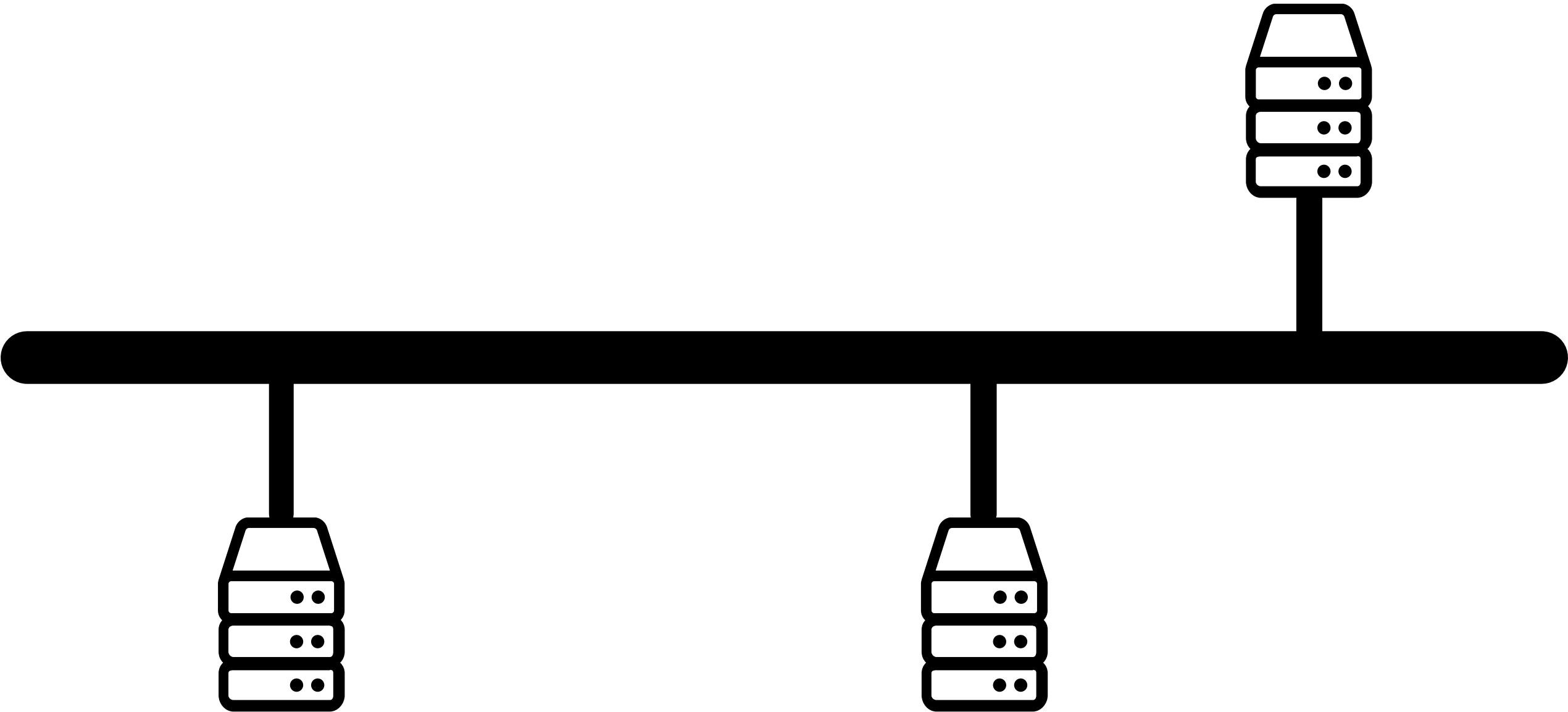


- Historia de Internet
- **Cómo funciona Internet**



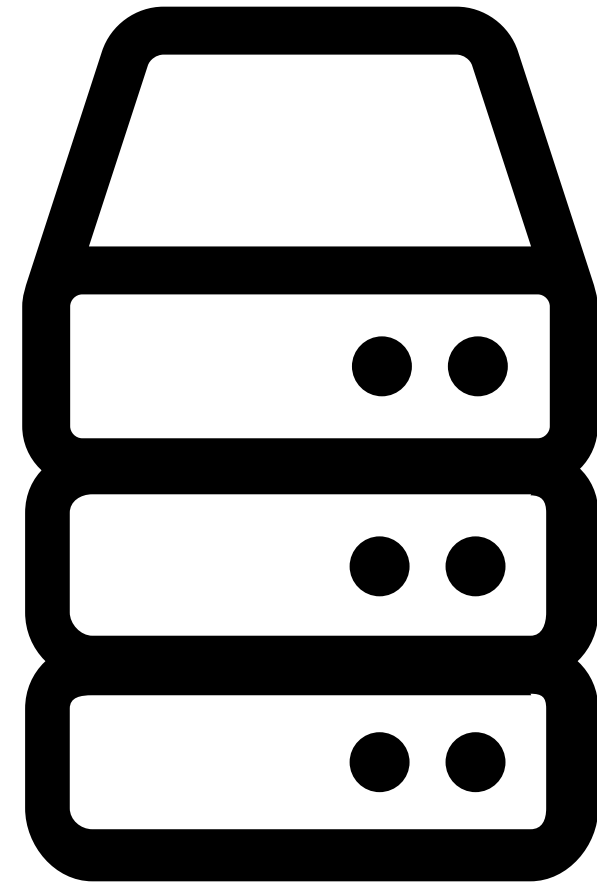


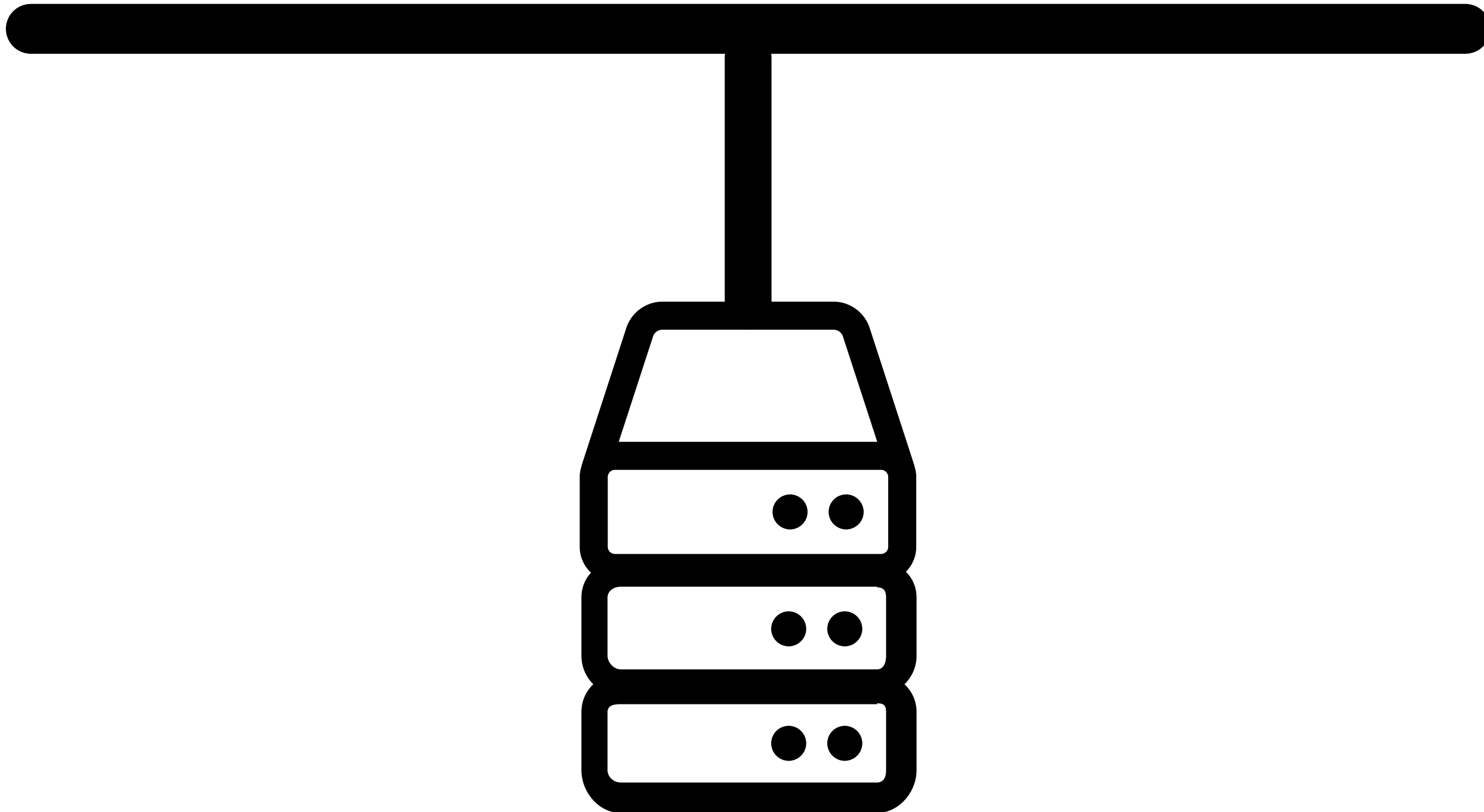




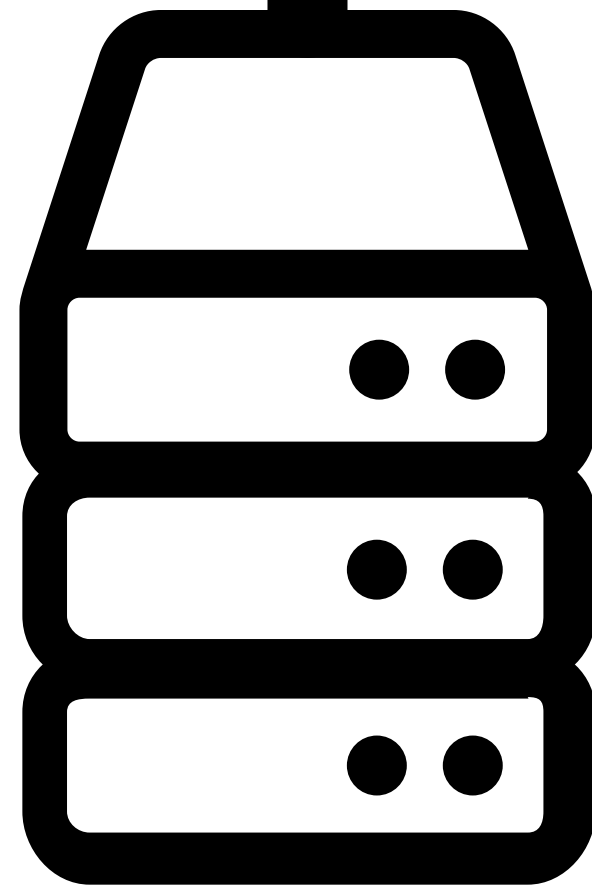
¿Cómo funciona el Internet?

- Un servidor es un tipo especial de computador conectado a esta red.
- Un servidor no es nombrado por lo que es, si no por lo que hace = SERVE DATA.
- Cada servidor tiene una dirección IP única (Internet Protocol Address).





72.14.205.100

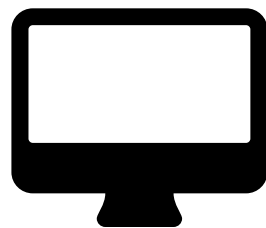
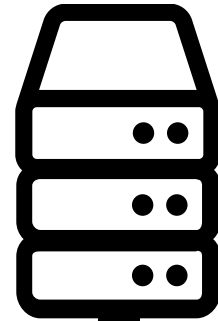
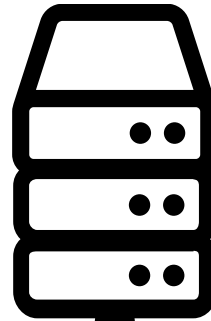


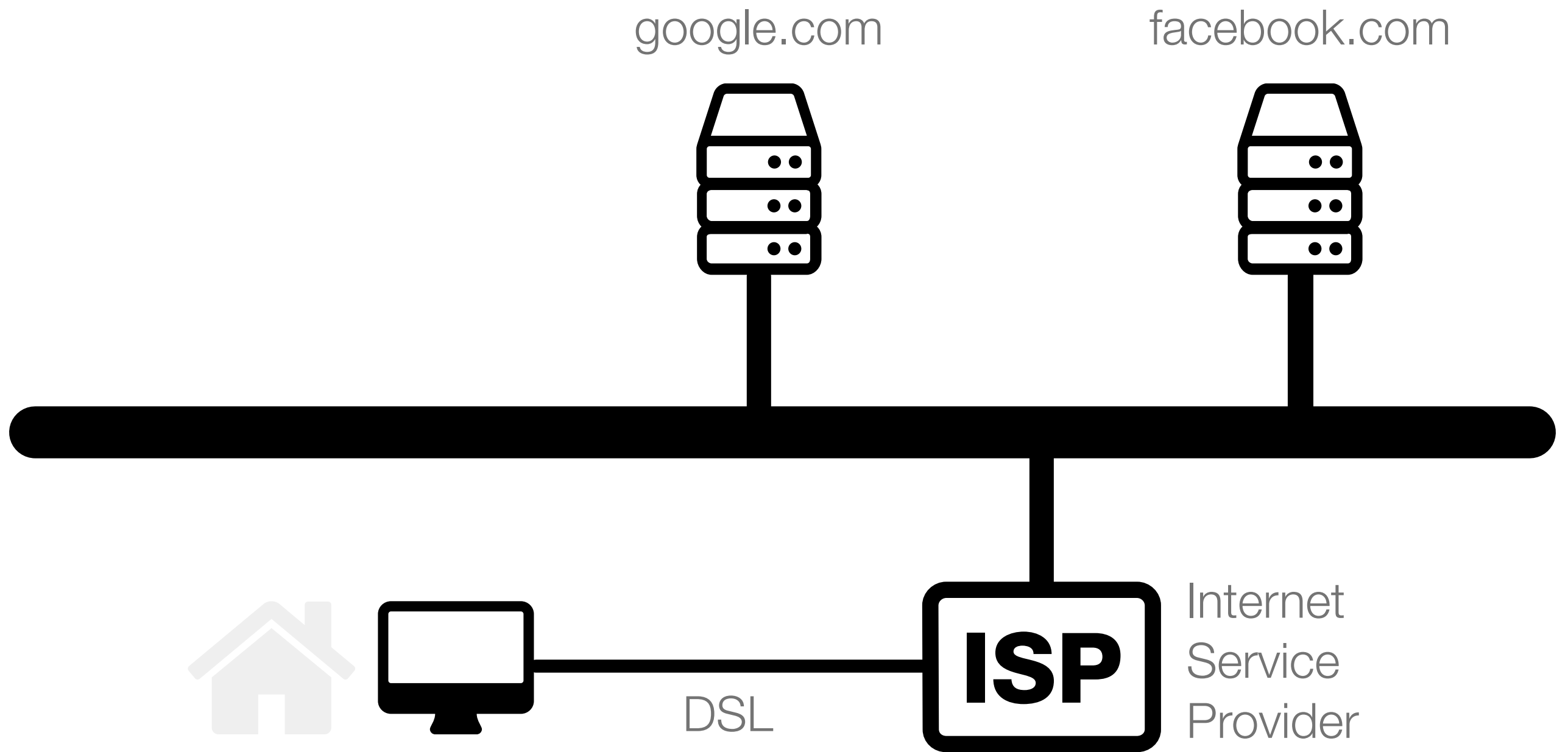
72.14.205.100

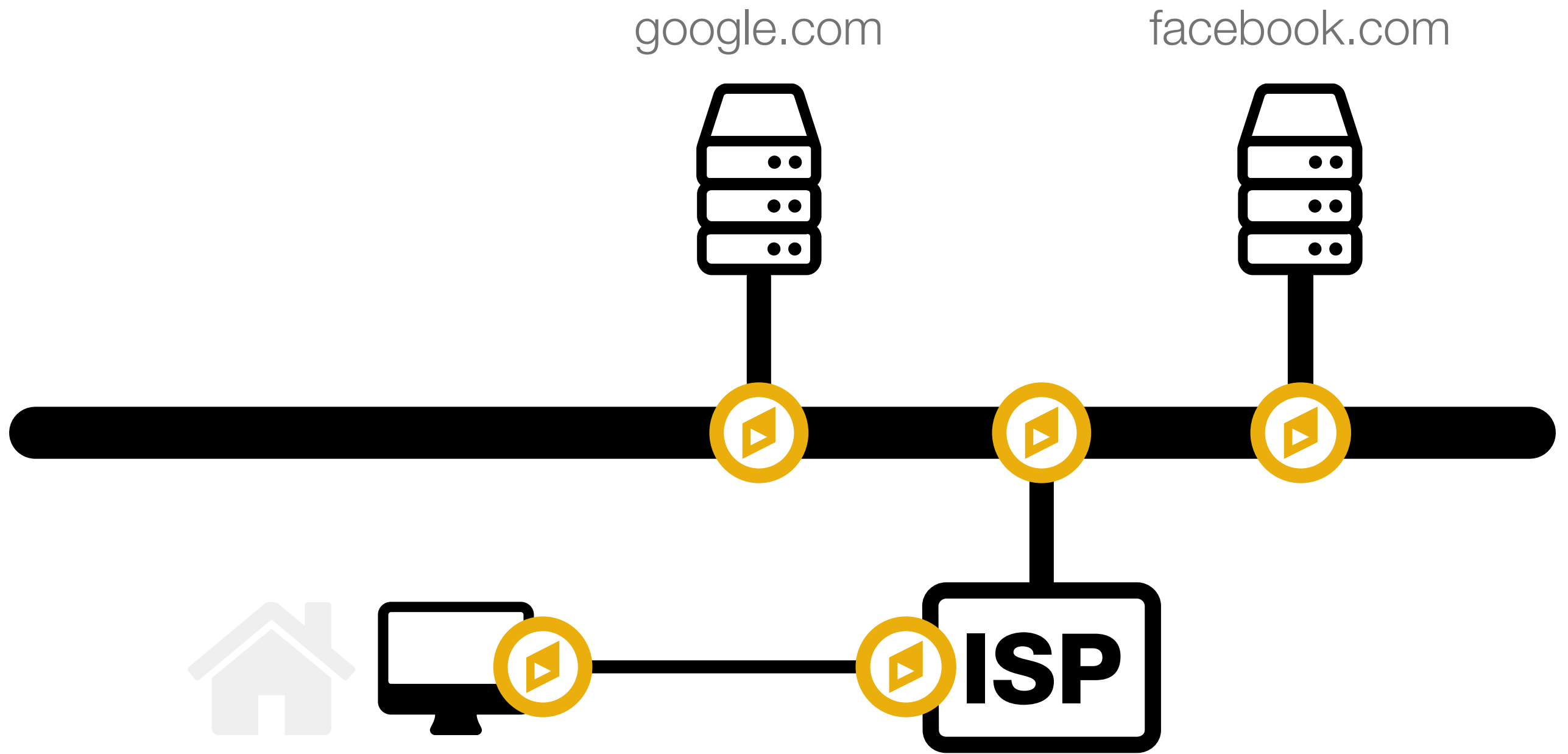
google.com

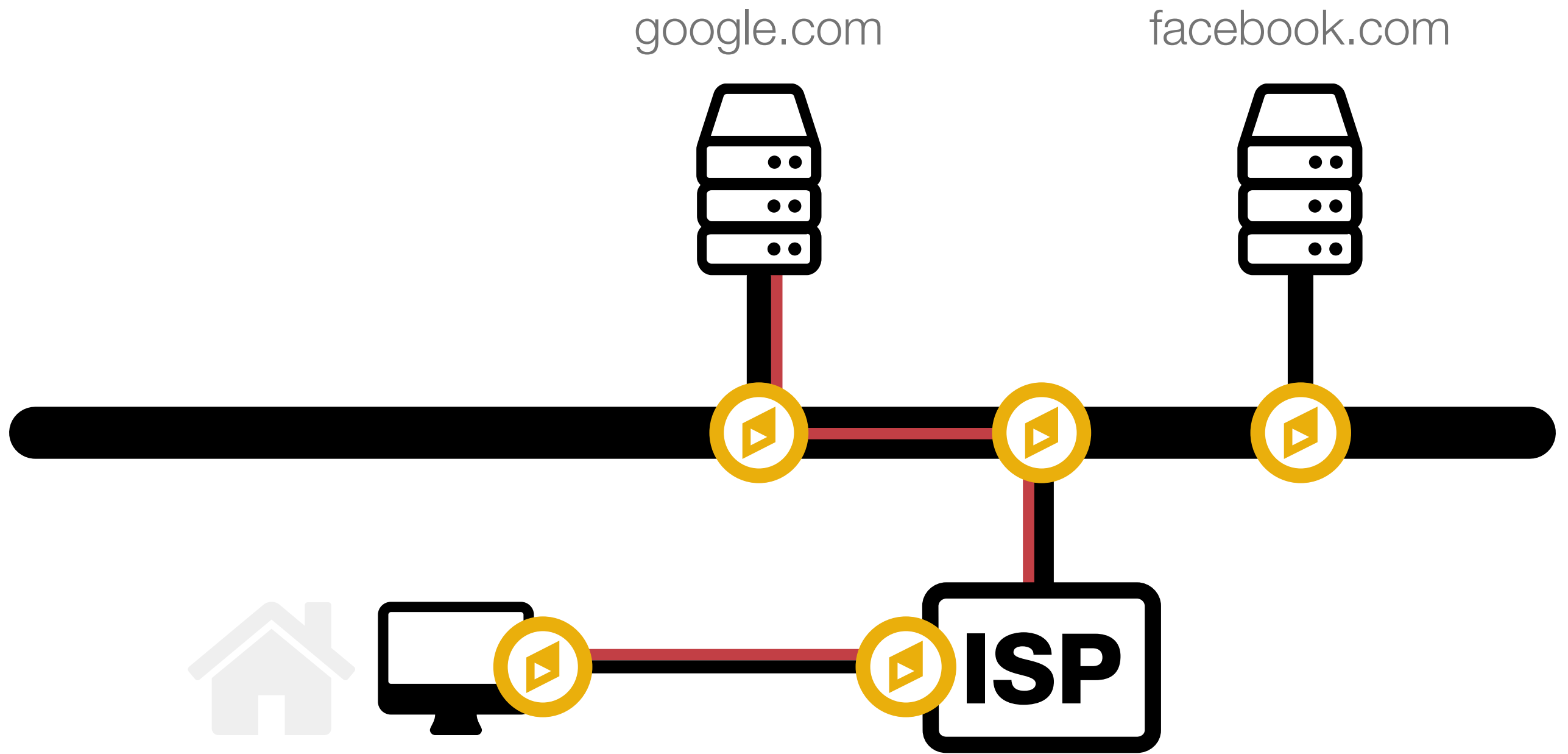
google.com

facebook.com

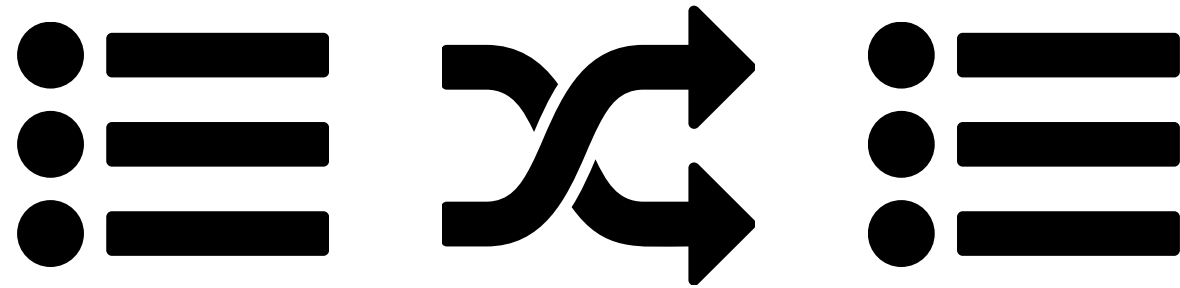








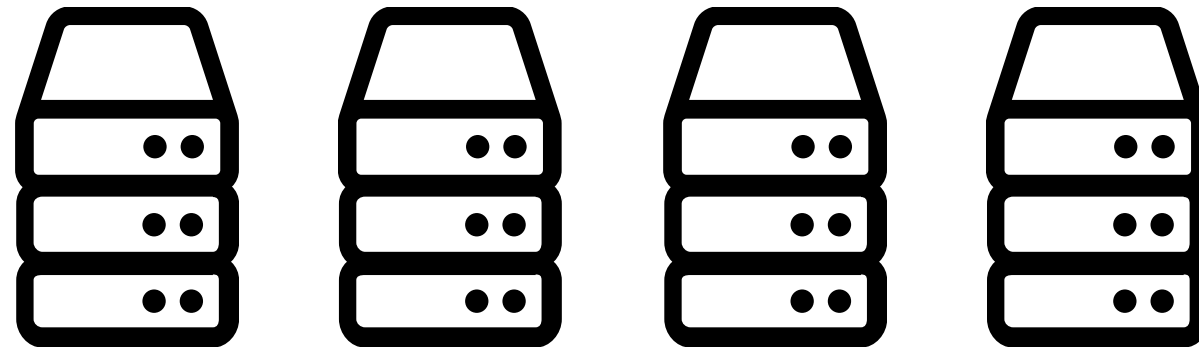
Demo



Domain Name System = DNS

Mantiene un listado de las direcciones donde están ubicadas las páginas web.

72.14.205.100 —————> google.com



Name Servers

El sistema de nombre de dominios (DNS) es mantenido por un sistema distribuido de bases de datos. Los nodos de este sistema son los name servers.

[www.google.com.](http://www.google.com)



[www.google.com.](http://www.google.com)



www.google.com.

root

gle.com.

Donde todo
comienza!





top level
domains



www.google.com.



root



top level
domains

www.google.com.

nombre del
dominio

root



subdominio

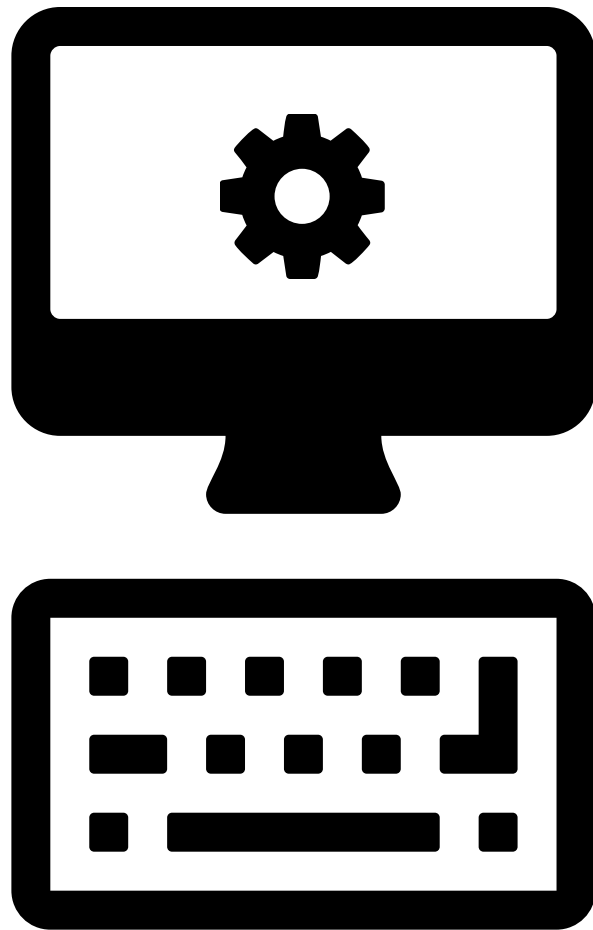
top level
domains

www.google.com.

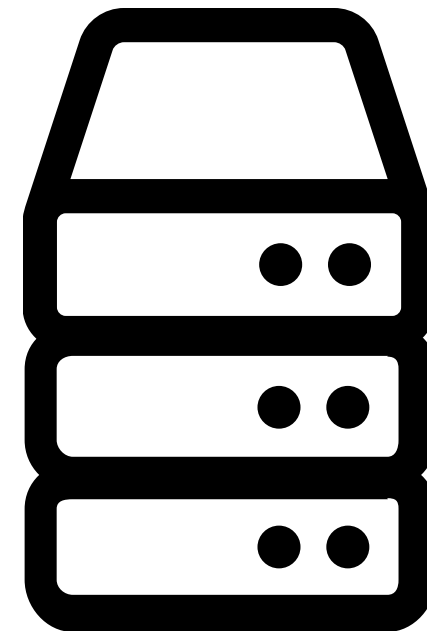
nombre del
dominio

root

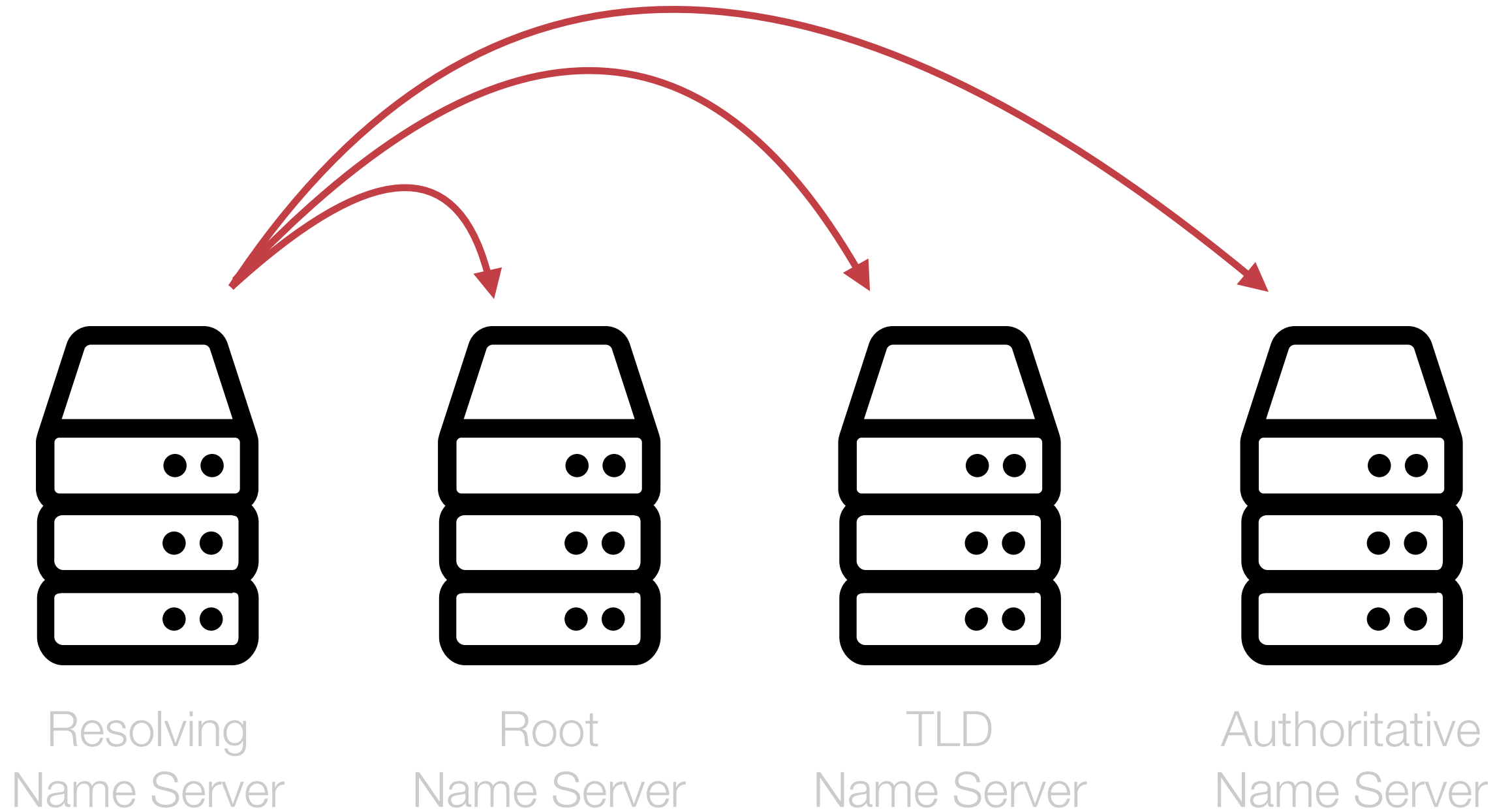
Resolving Name Server



Private Network

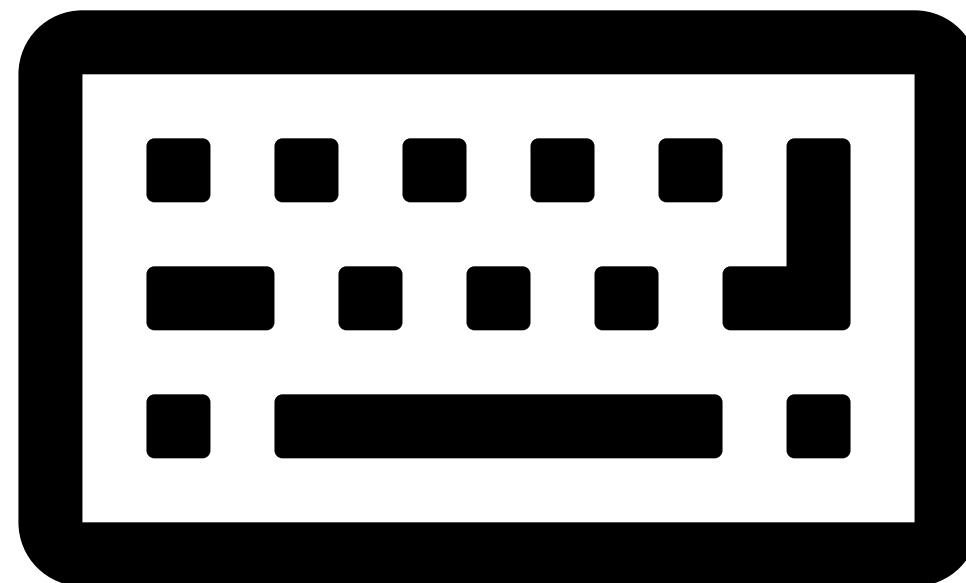


ISP



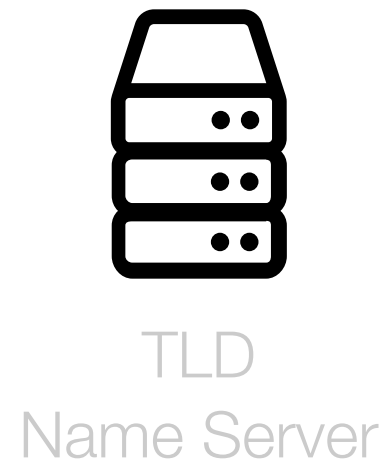
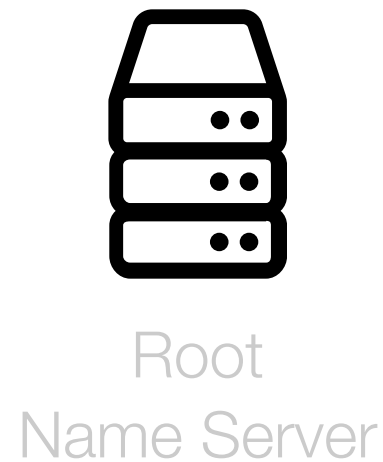


google.com

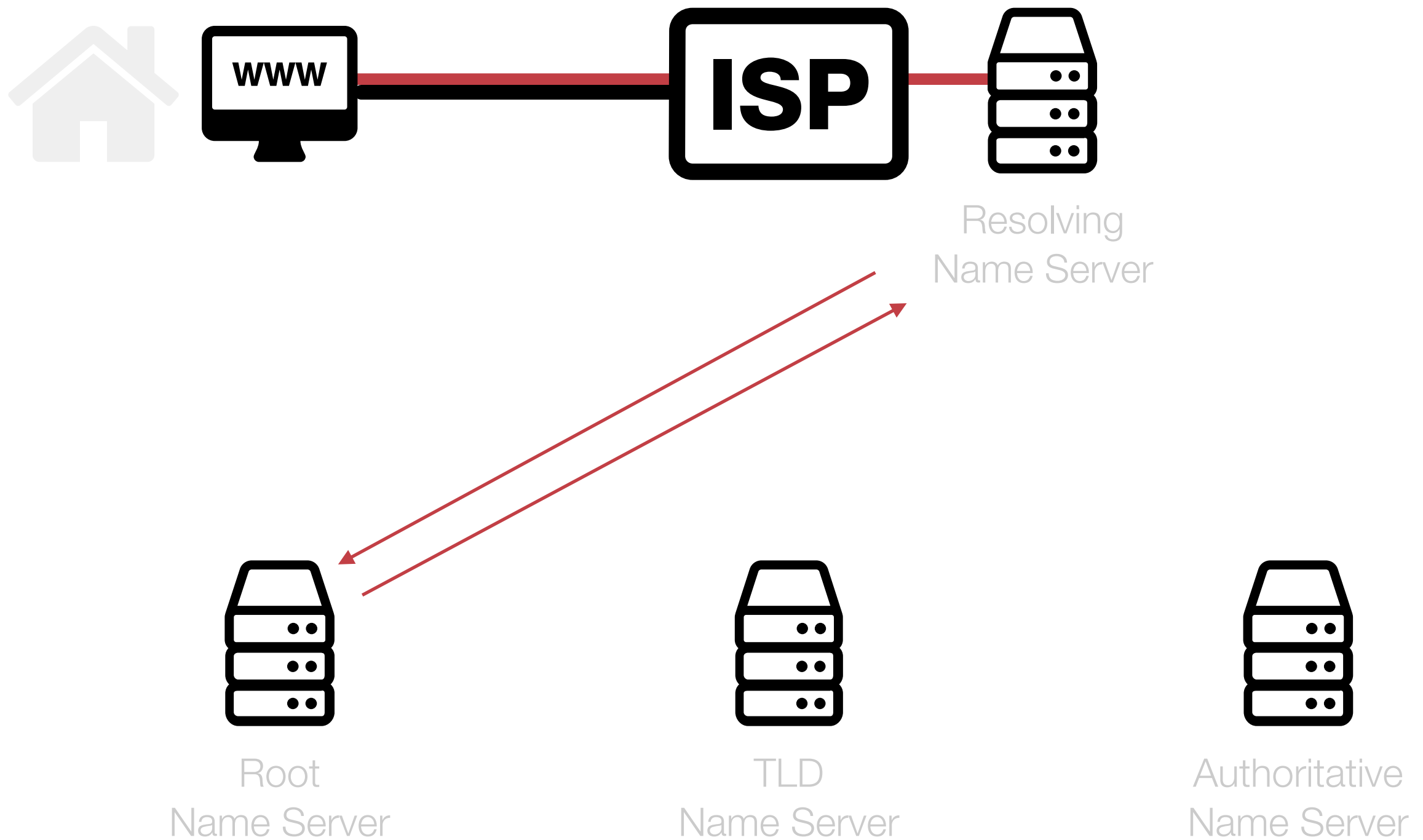




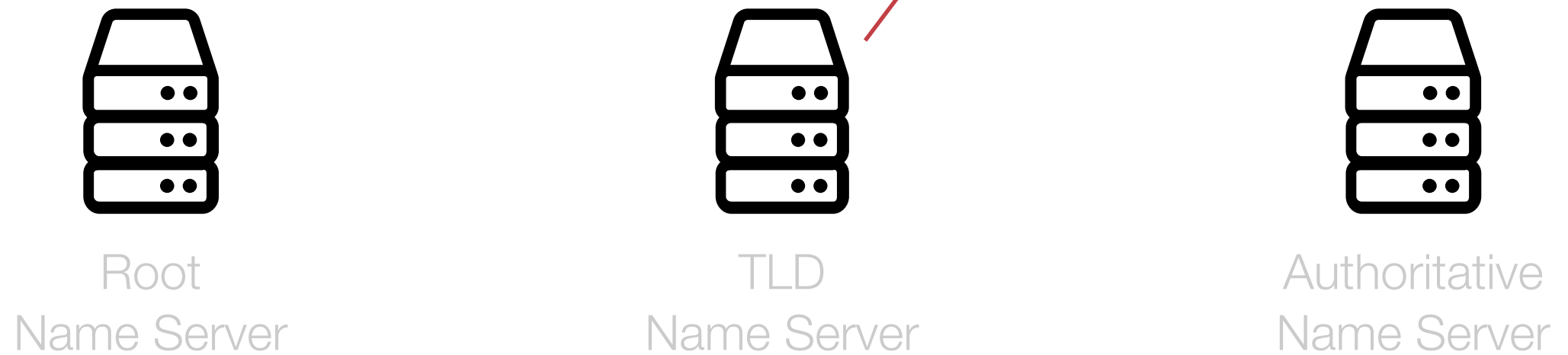
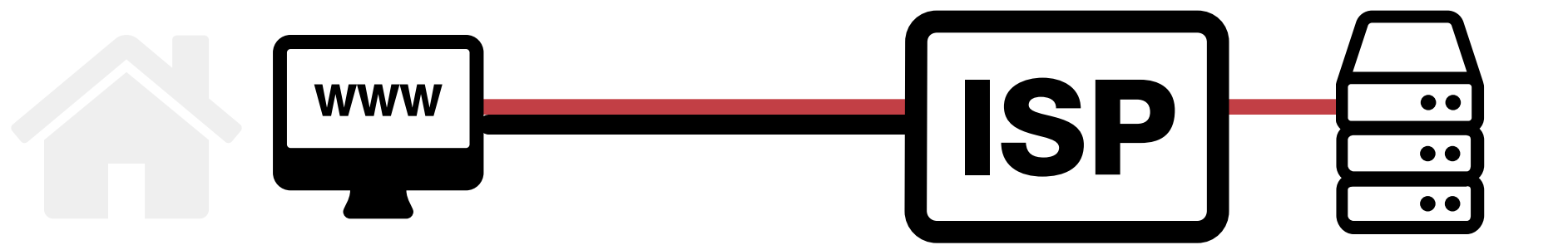
¿Dónde está
www.google.com?



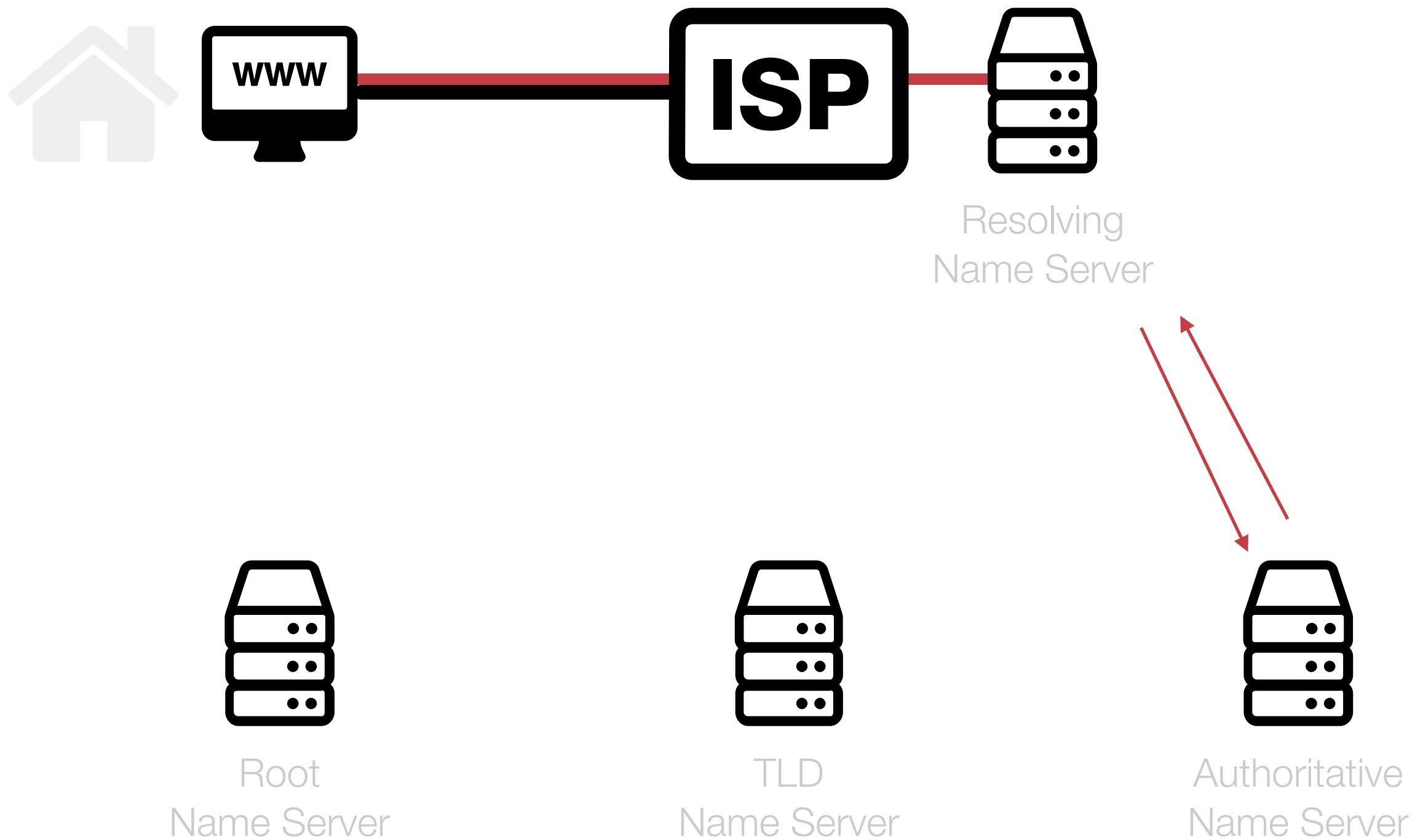
www.google.com.



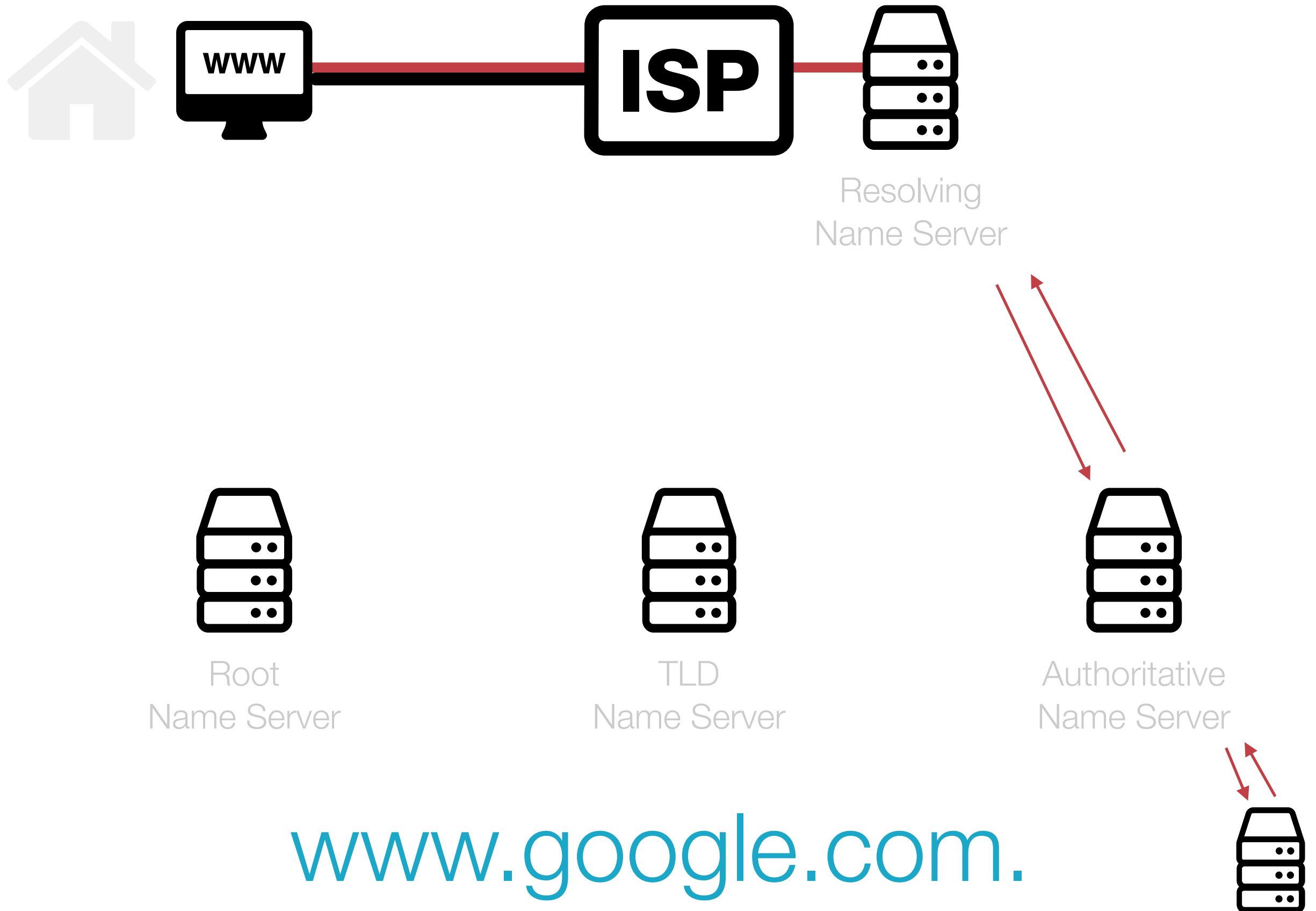
`www.google.com.`

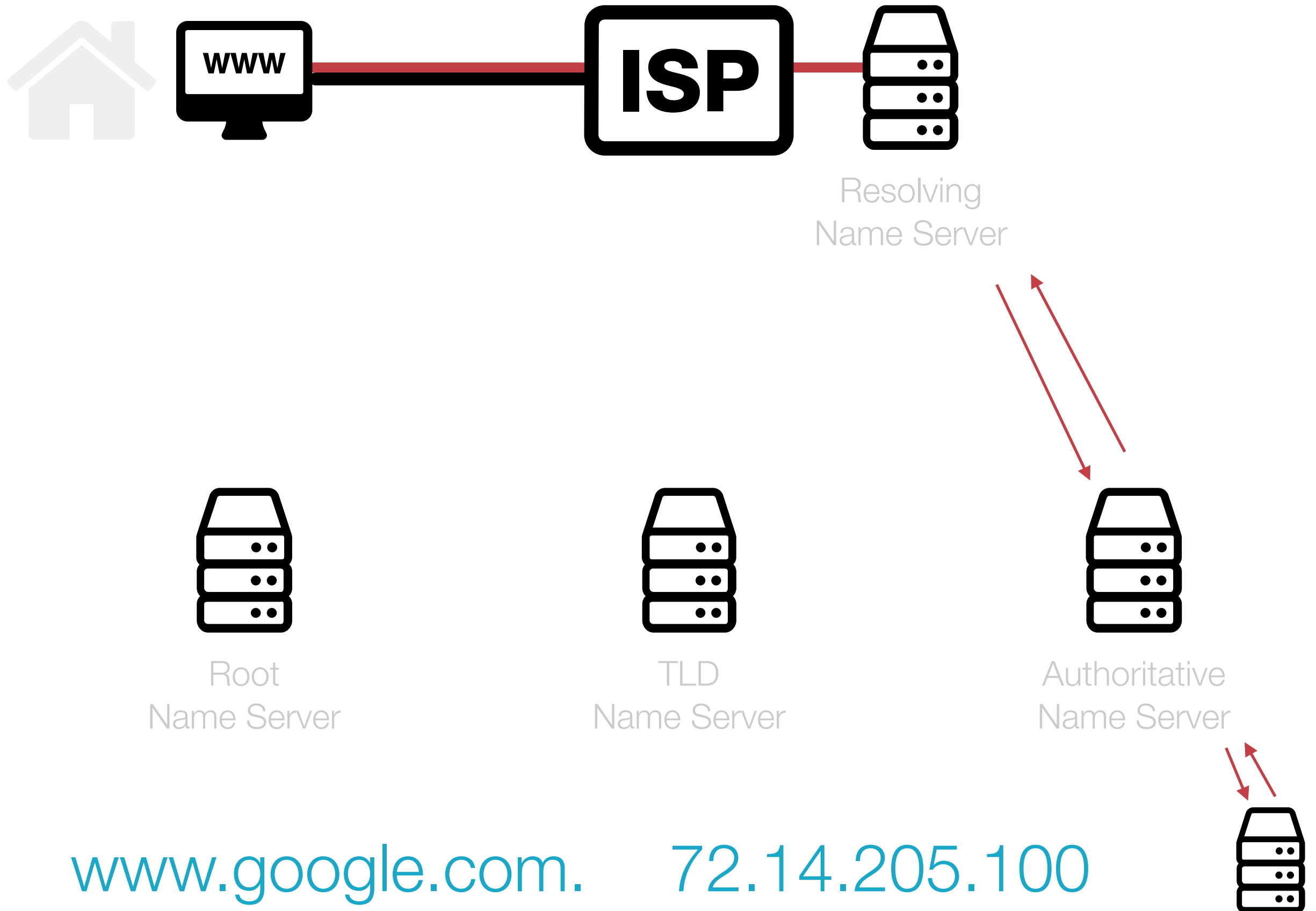


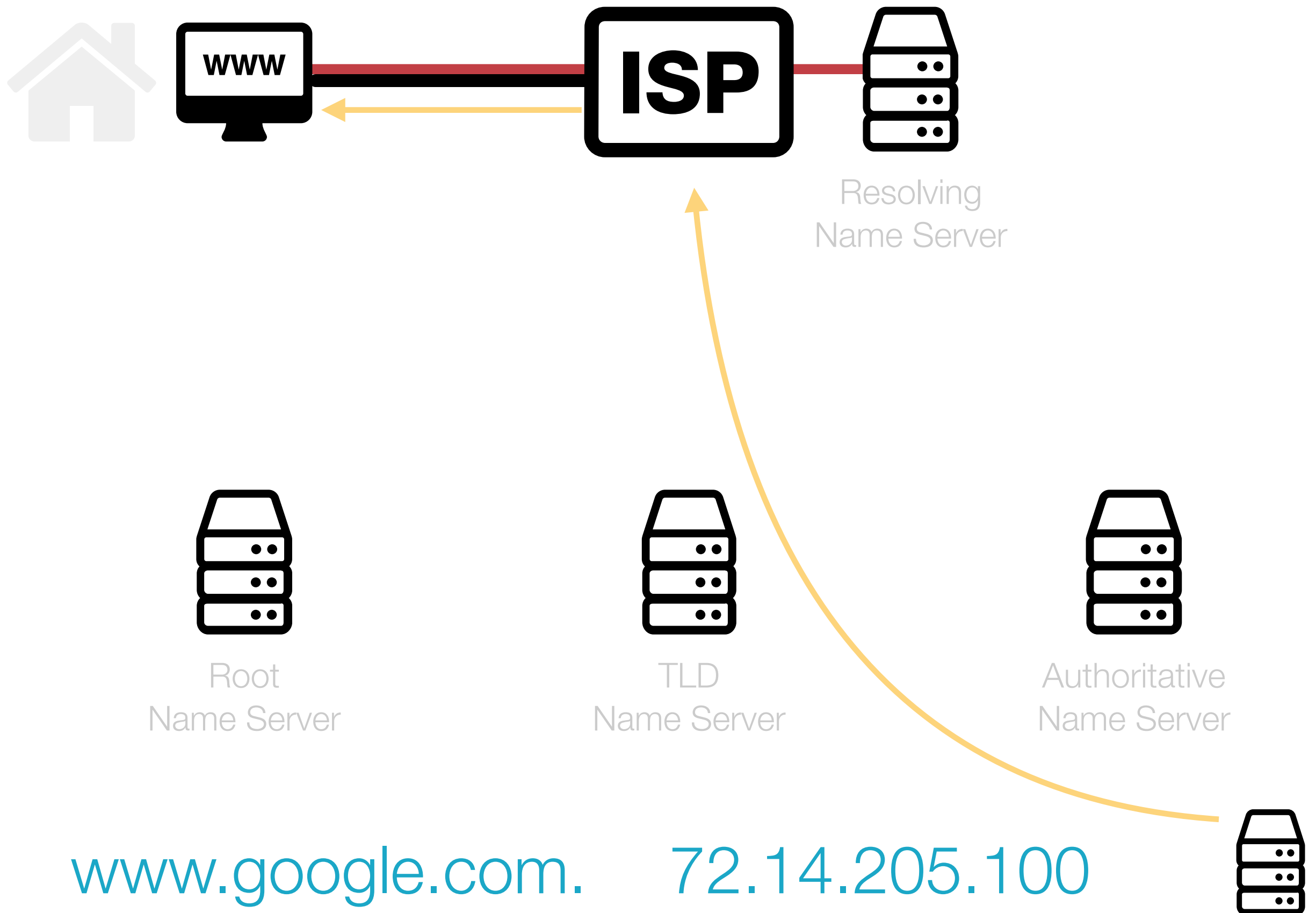
www.google.com.

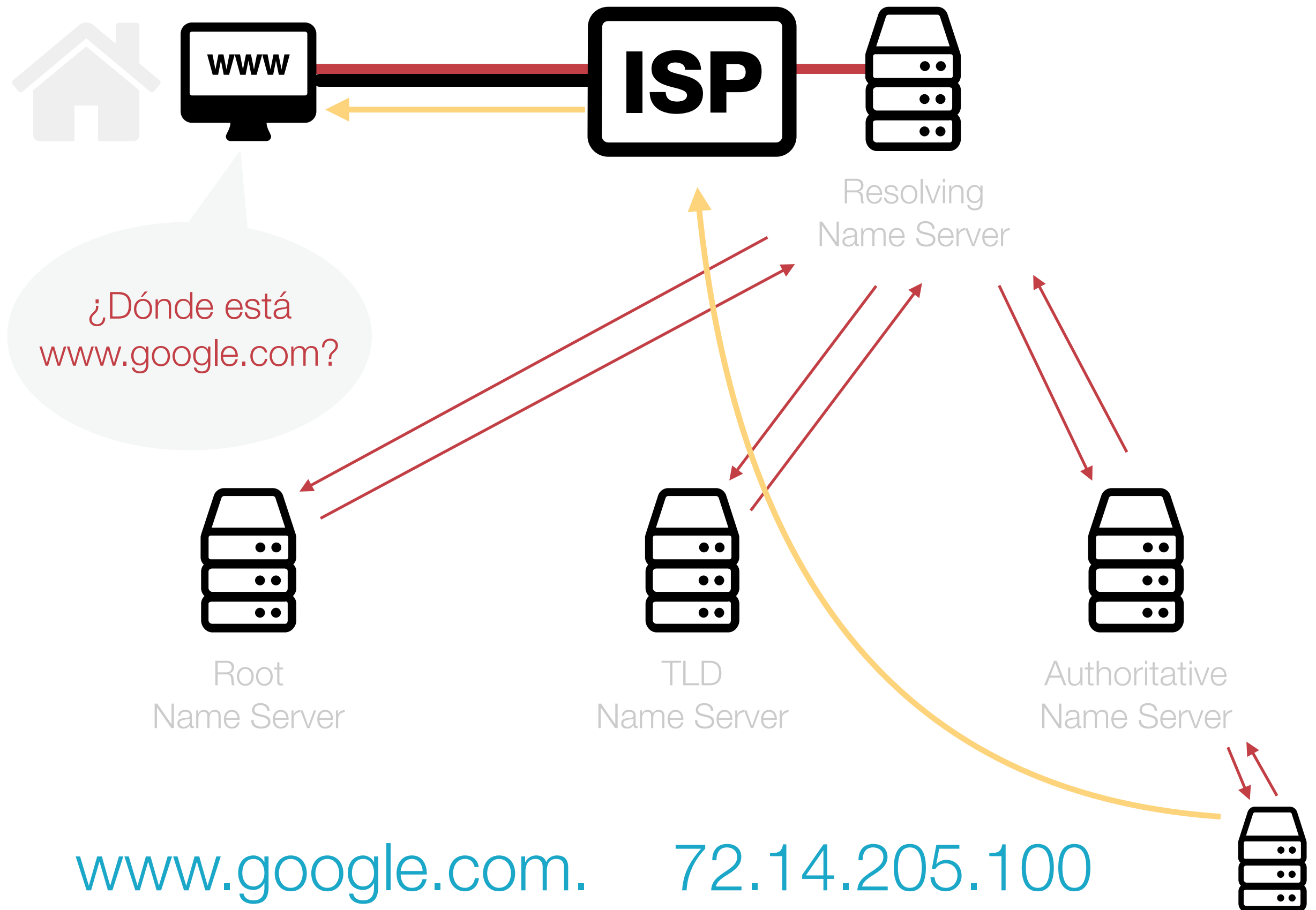


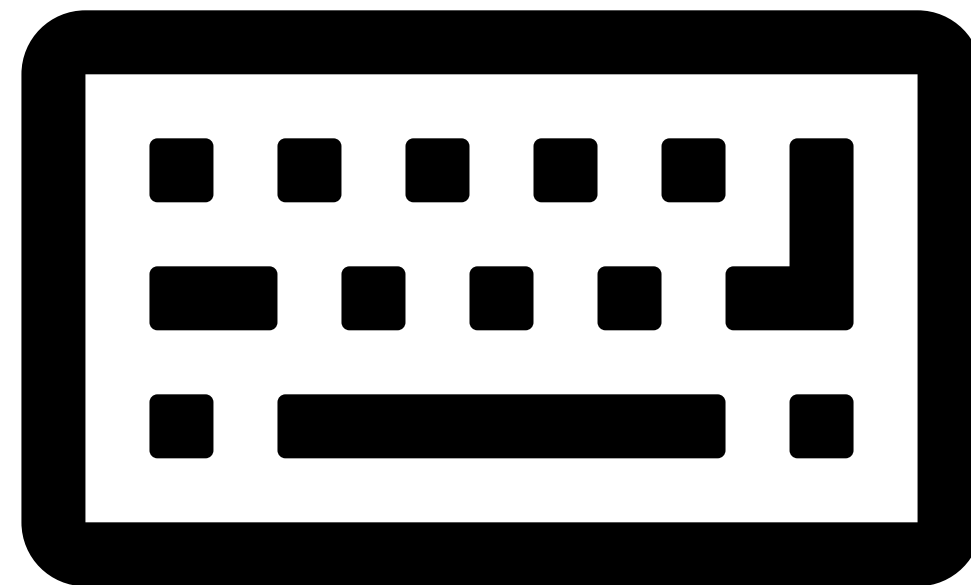
`www.google.com.`

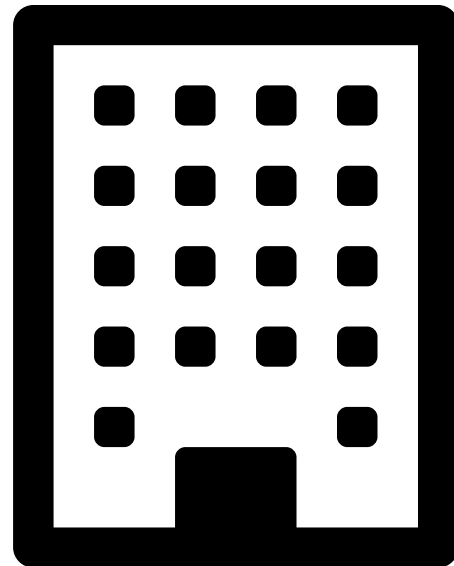




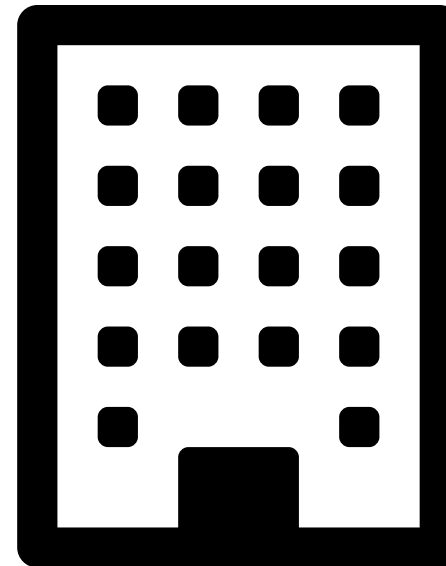




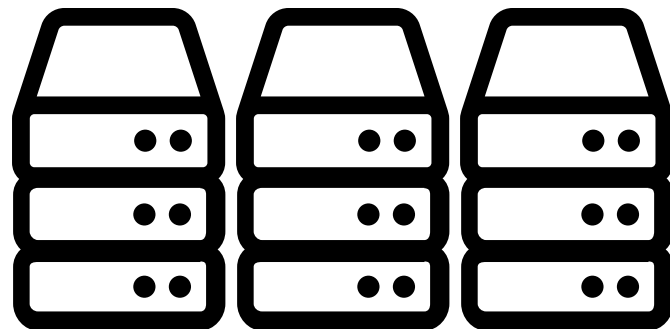




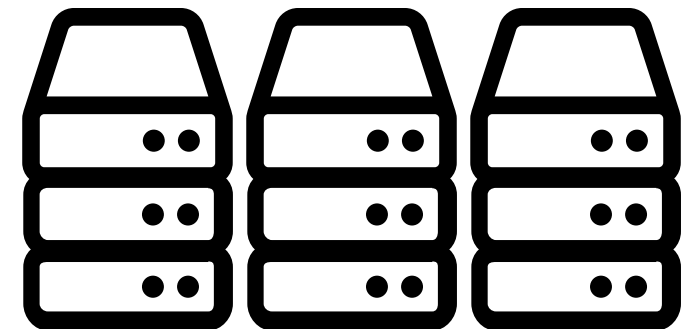
Registrar



Registry

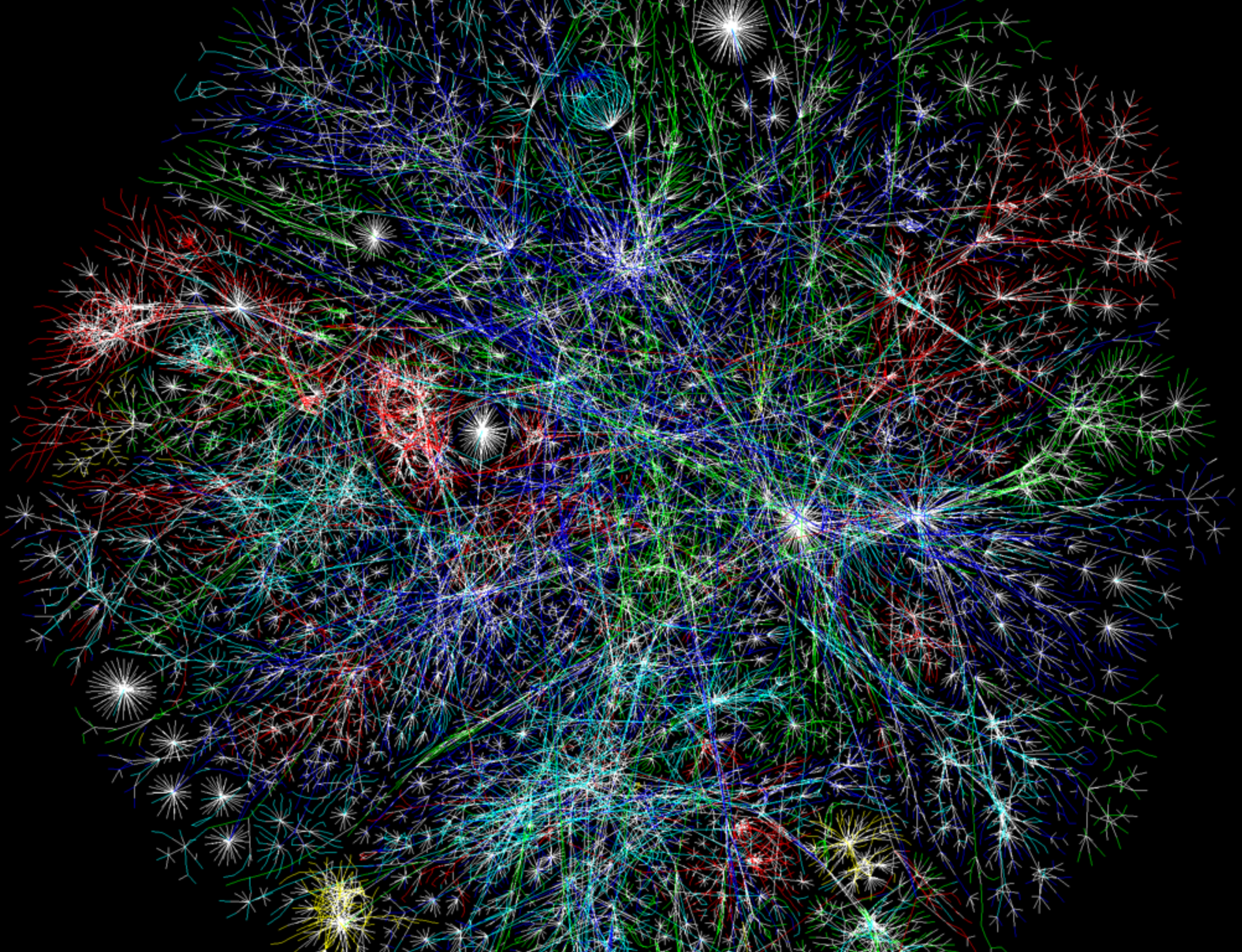


Authoritative
Name Server



TLD
Name Server







Sebastián Jaramillo Trujillo

sebastianjt.com

[linkedin.com/in/sebastianjt](https://www.linkedin.com/in/sebastianjt)

twitter.com/sebastianjt