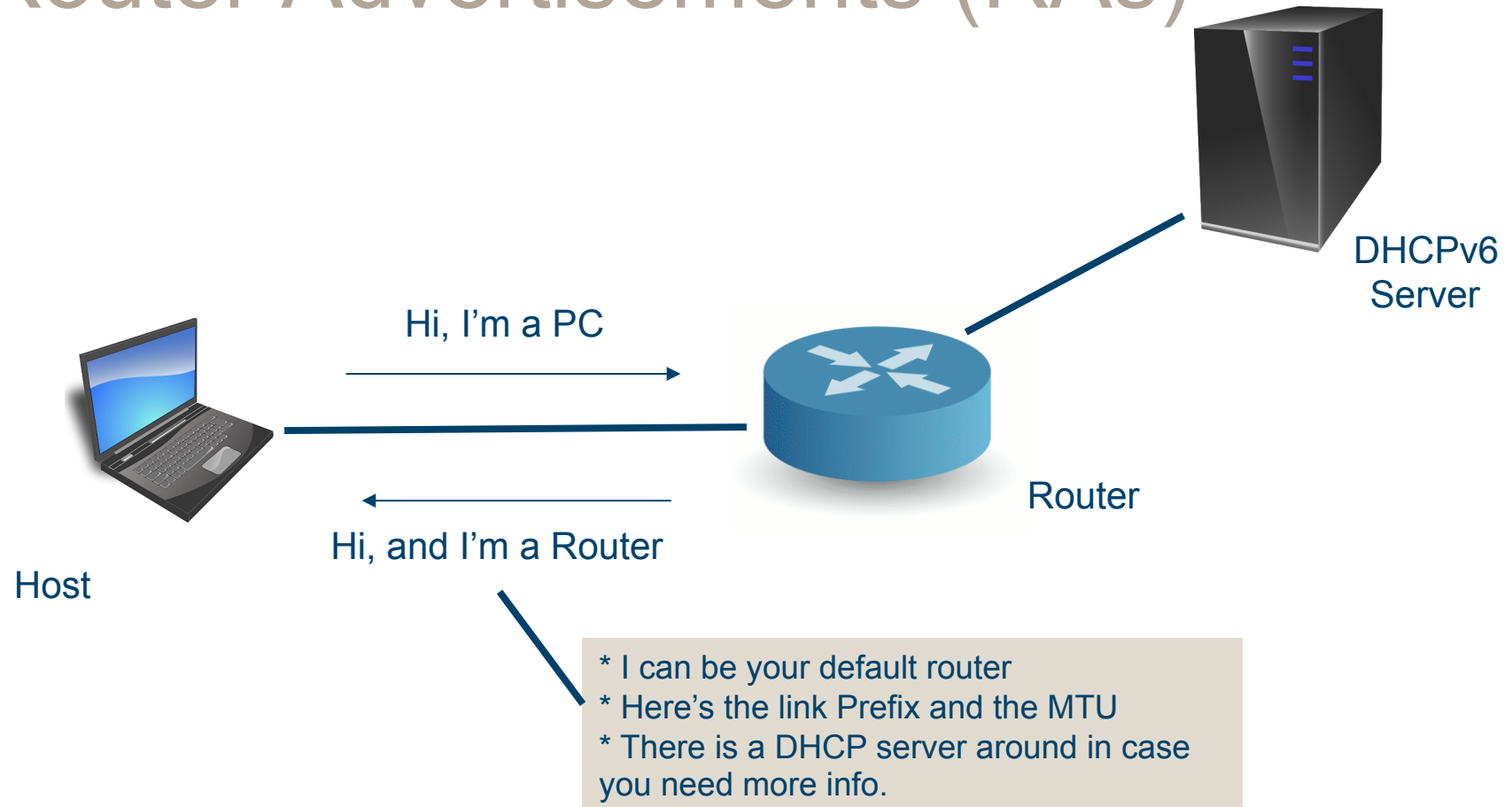


# IPv6 address assignment and configuration

Suresh Krishnan

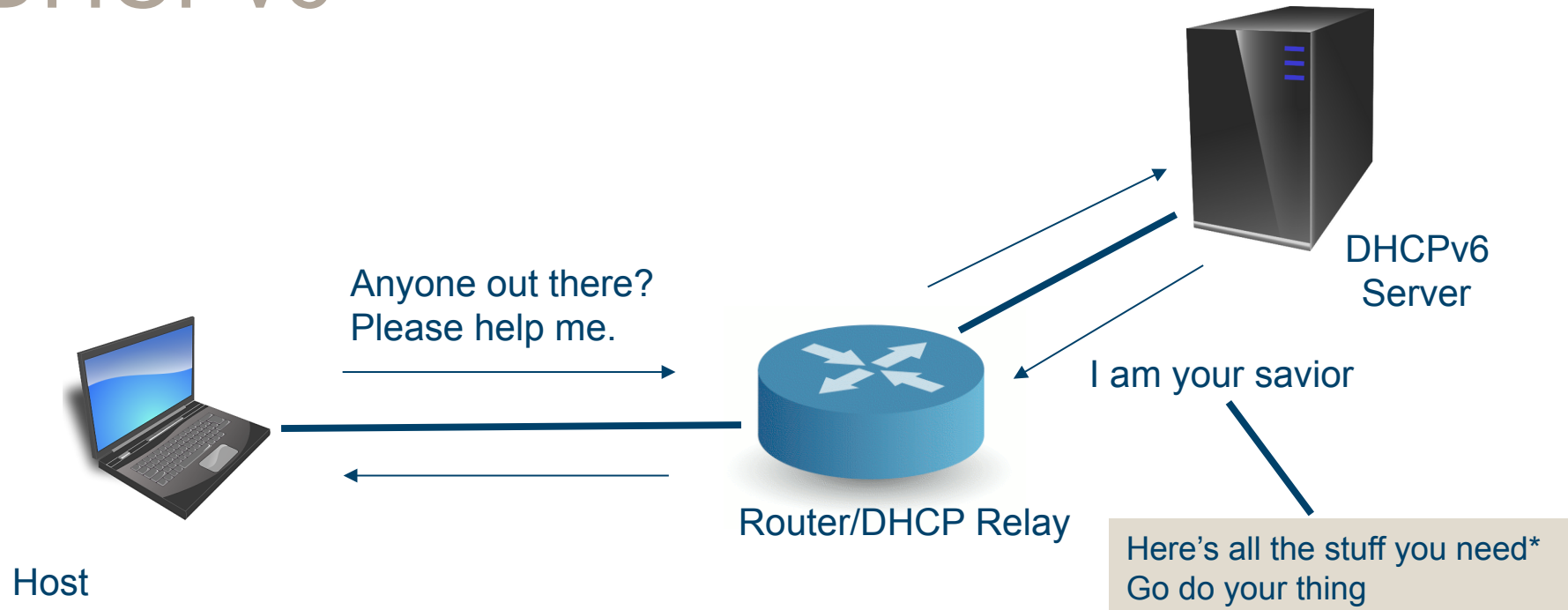
# Router Advertisements (RAs)



# RA characteristics

- Efficient method of dissipating network wide information
- Perfect fate sharing
  - Router goes down, it does not advertise
- Stateless address auto-configuration possible
  - Hosts form their own address without any overhead or state on the network
- Incomplete
  - Need at least a subset of DHCPv6 for non-trivial scenarios
    - Stateless DHCPv6

# DHCPv6















\* Not all the stuff the host needs may be included

# DHCPv6 Characteristics

- Efficient method of dissipating client specific information
- Provides better control of the host
  - For networks that desire this
  - Host address is known – big deal for some

# Comparison

	RAs	DHCPv6	DHCPv6 Stateless
Address Configuration			
Client-specific configuration			
Network-wide configuration			
Default router information			



YES



MAYBE



NO

# Last words

- Synergies
  - RAs can inform hosts about the presence of DHCPv6 servers
  - DHCPv6 “completes” RAs
- There are no right and wrong solutions
  - One size does not fit all
  - Pick what works for you

# Safe Harbor

This document  
**DOES NOT** contain  
forward-looking statements.

**ERICSSON** 

**TAKING YOU FORWARD**