

# Bringing Systems Together To Form Clusters

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**Simon Anderson**

@thelegendofando

# Summary

- **Enabling clustering**
- **Seed nodes**
- **Lighthouse**
- **Gossip**

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A diagram consisting of two nested rounded rectangles. The outer rectangle has a blue border and contains the text 'Akka.Cluster'. Inside it, a smaller rectangle has a green border and contains the text 'Akka.Remote'. This visualizes that Akka.Remote is a sub-component or module of Akka.Cluster.

Akka.Cluster

Akka.Remote

Akka.Cluster

Akka.Remote

Helios



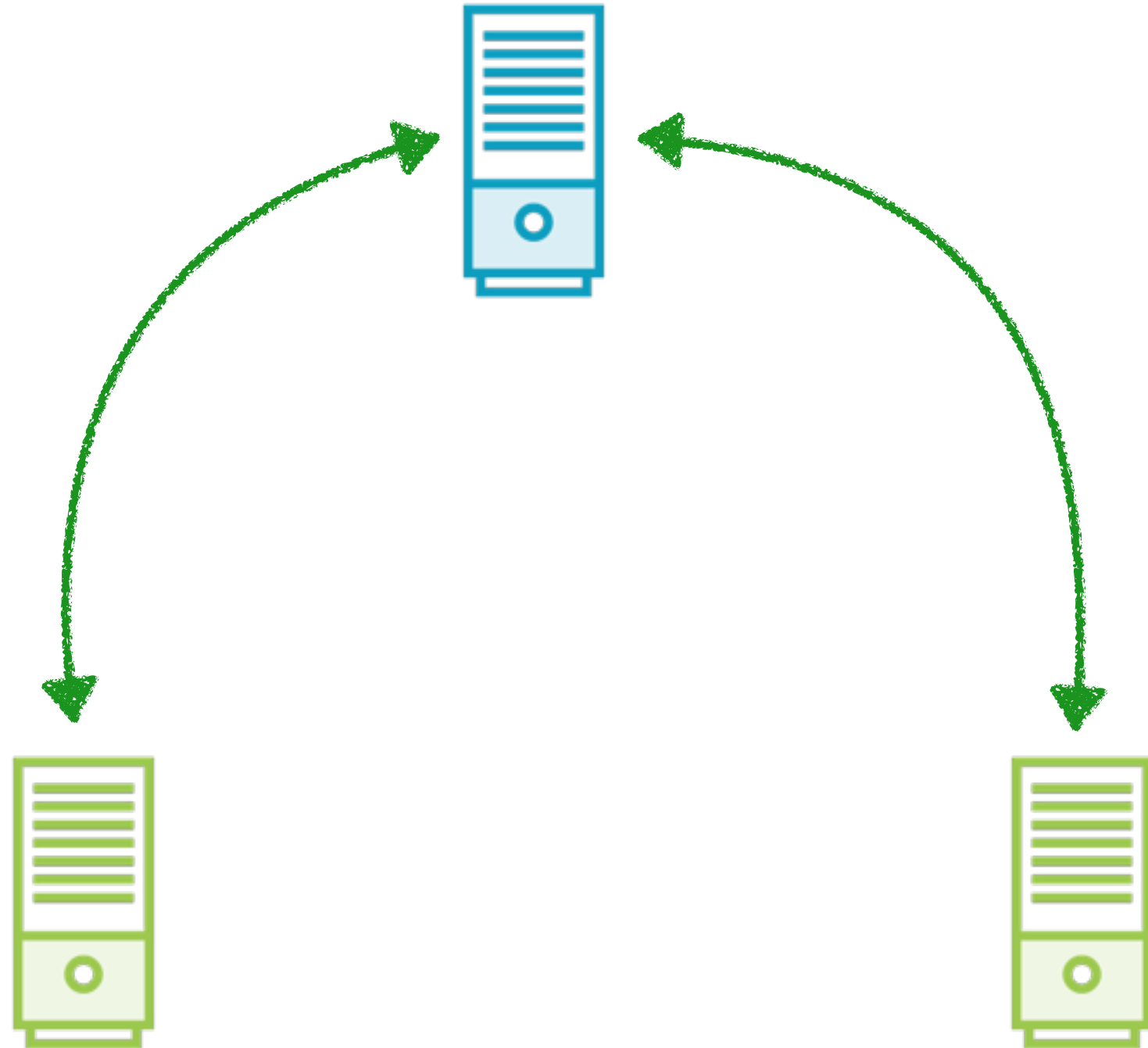
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# Seed Nodes

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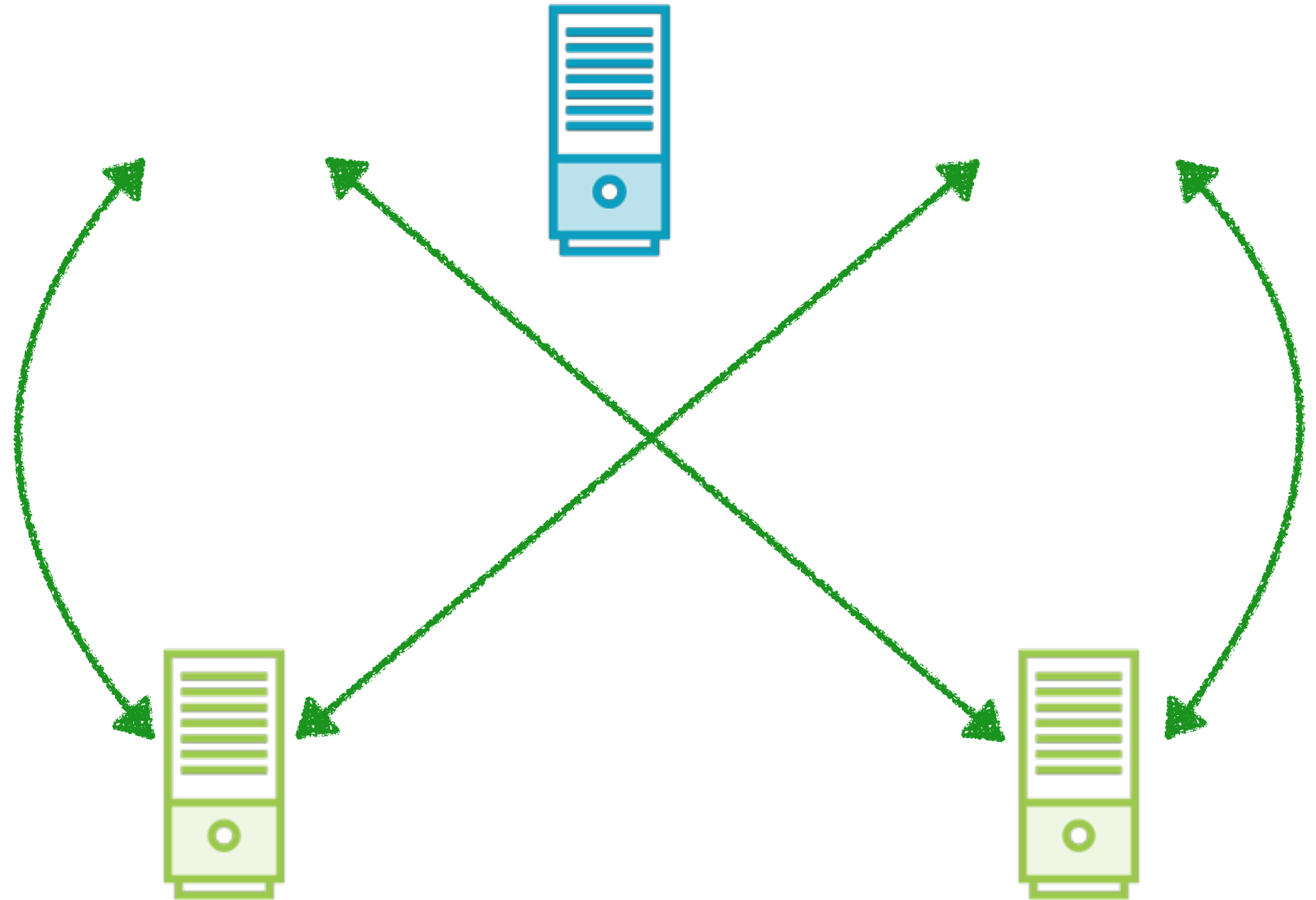
Seed Nodes

Other Nodes



Seed Nodes

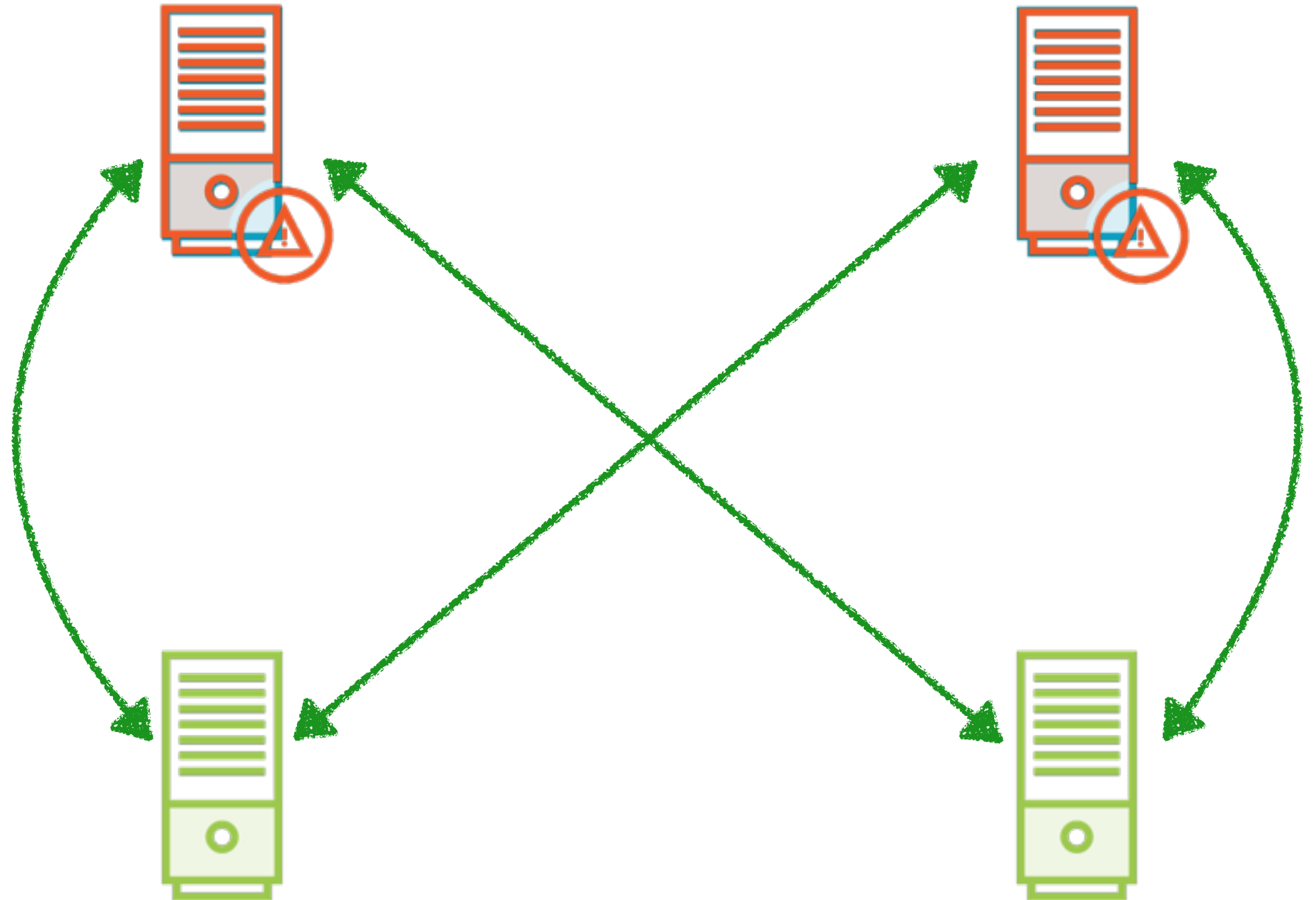
Other Nodes





Seed Nodes

Other Nodes



**Lighthouse** is a

**simple** but **effective**

**dedicated** seed node

Lighthouse Nodes



Independent

Your app



akka.tcp://MyActorSystem@127.0.0.1:4053

akka.tcp://MyActorSystem@127.0.0.1:4053

  
Protocol

Remote Actor System



akka.tcp://MyActorSystem@127.0.0.1:4053

Protocol

Remote Actor System

akka.tcp://MyActorSystem@127.0.0.1:4053

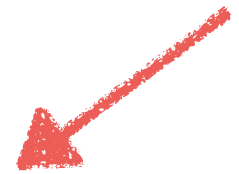
Protocol

Remote address



Remote Actor System

Remote Port



akka.tcp://MyActorSystem@127.0.0.1:4053

Protocol

Remote address





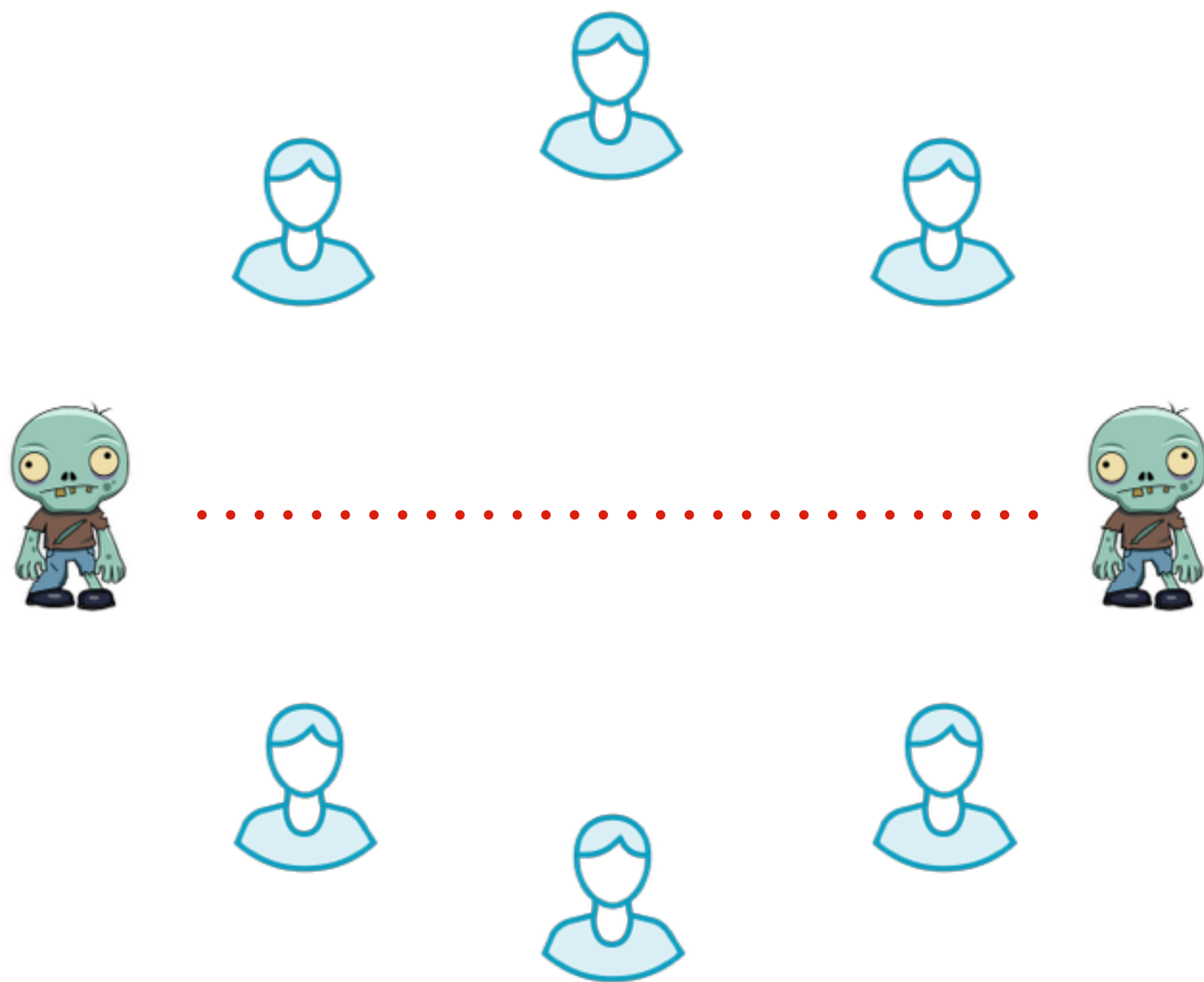
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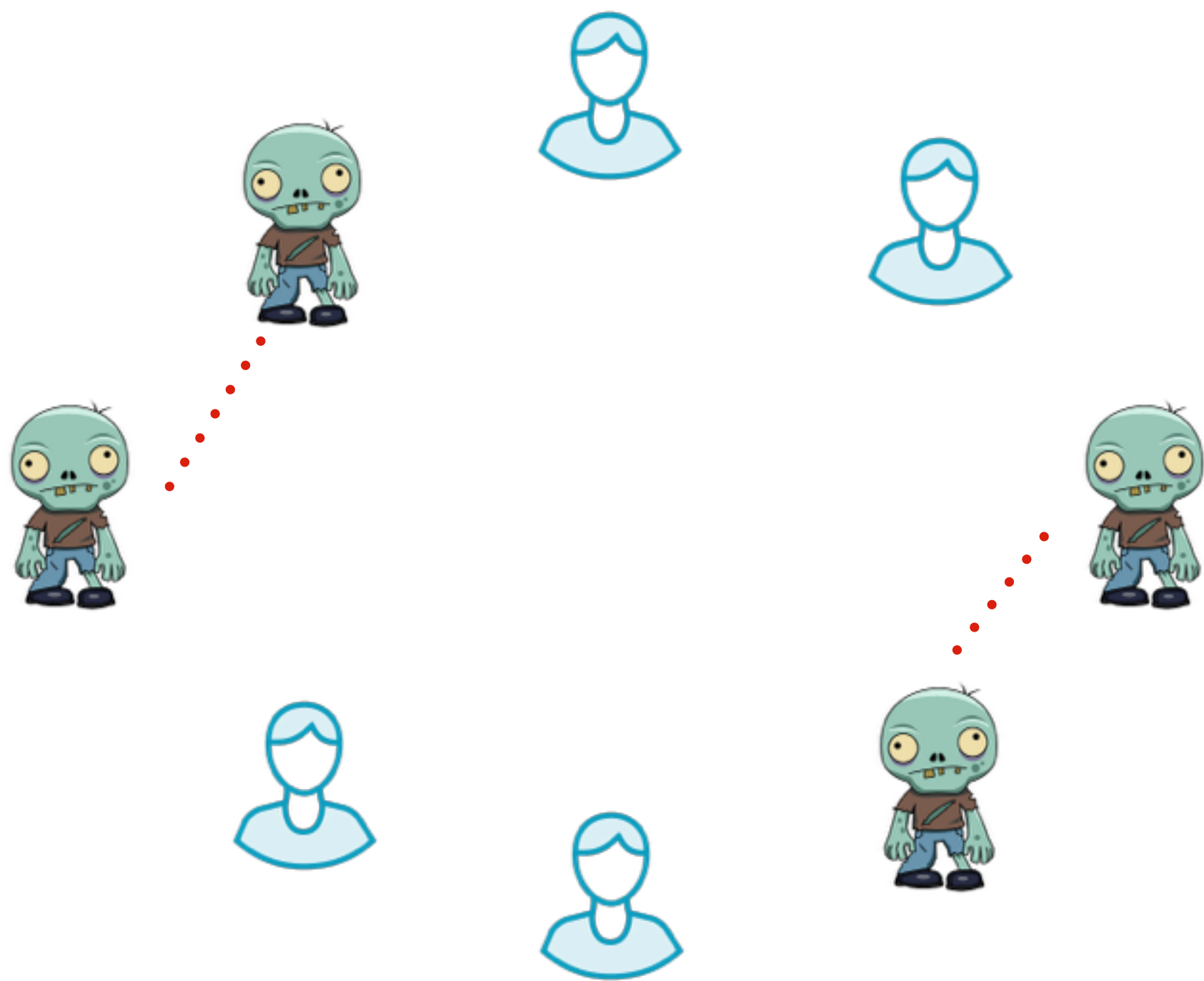
# Gossip

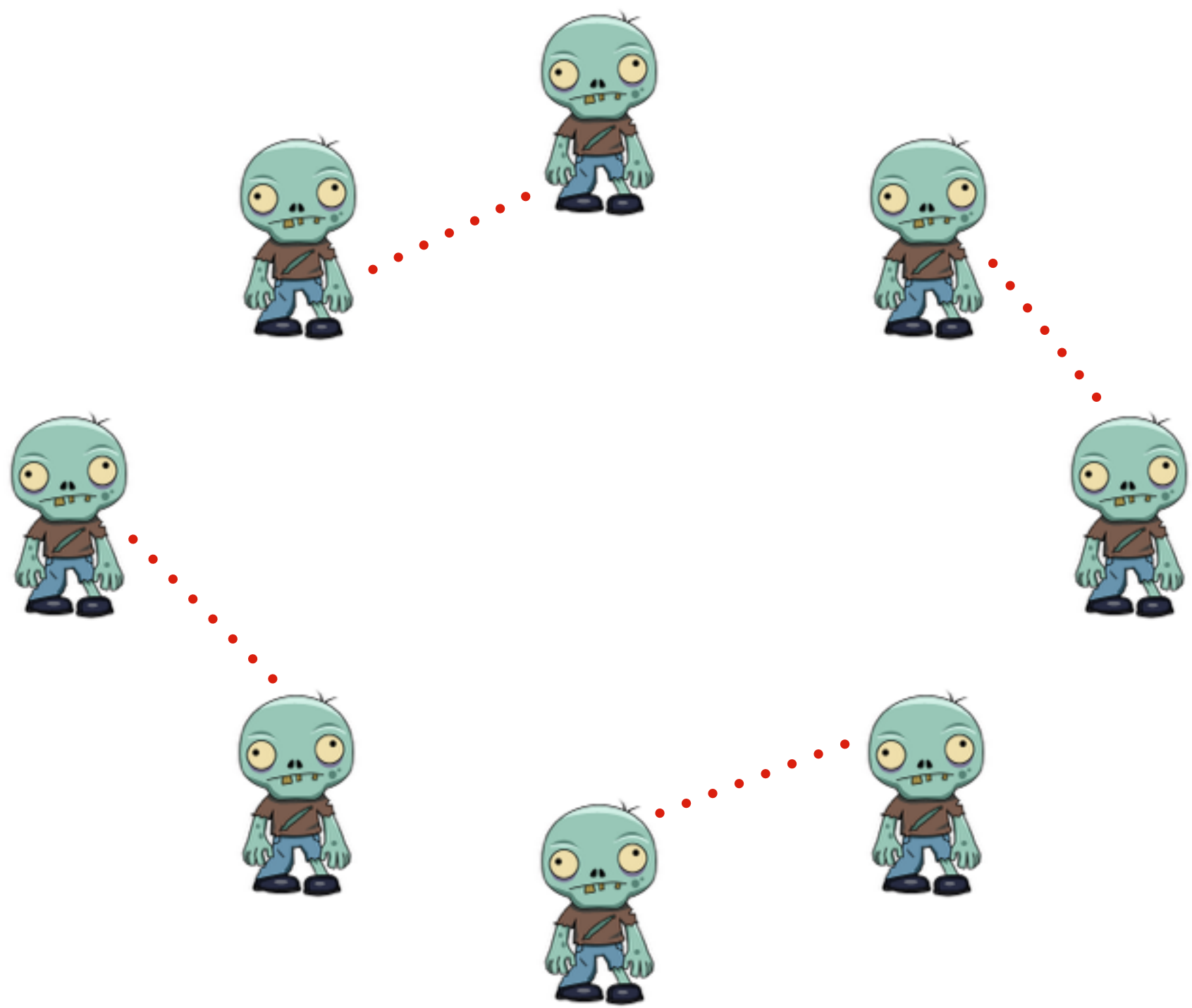
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**Gossip** is the flow of **special**  
**messages** which **spread**  
throughout the cluster

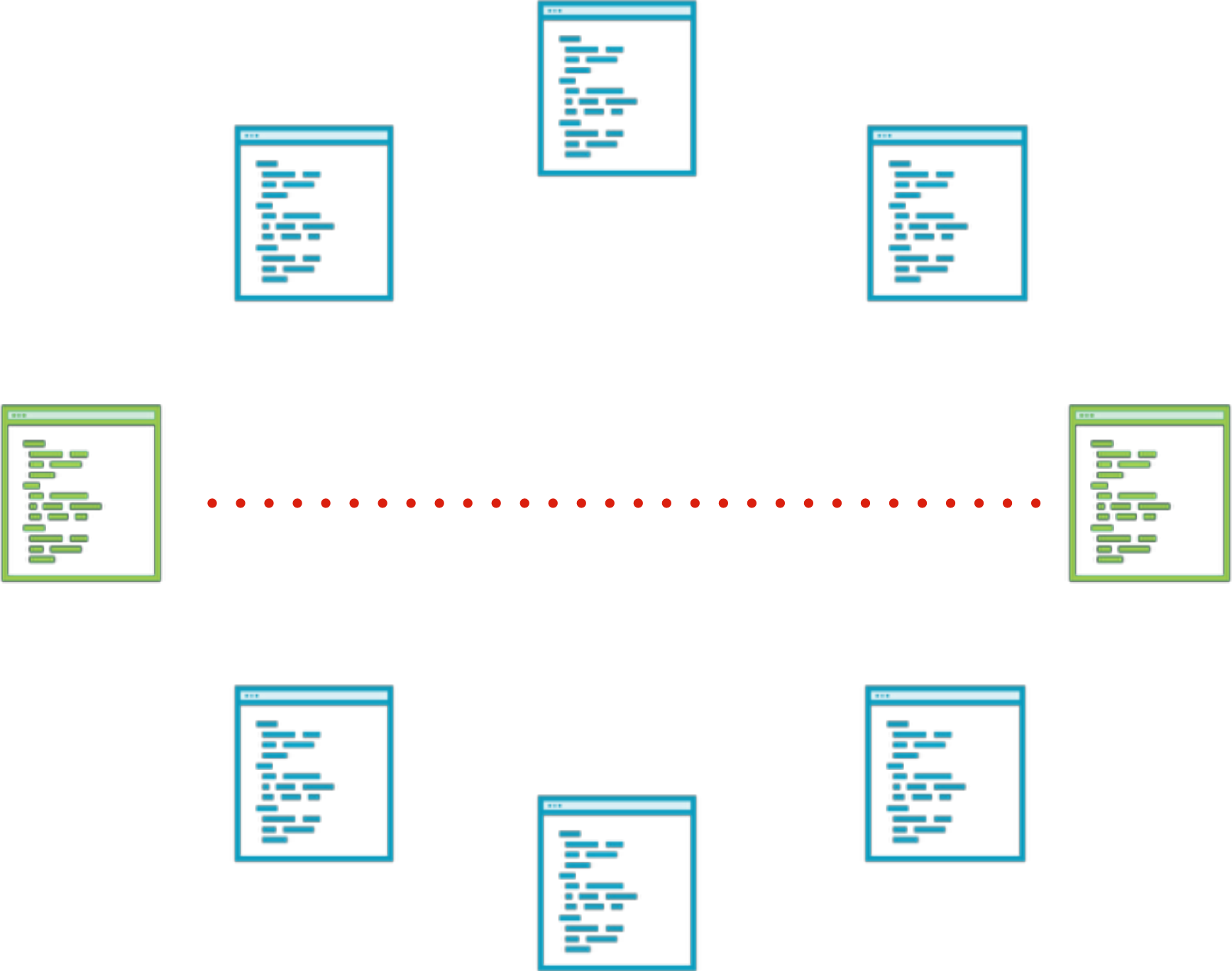


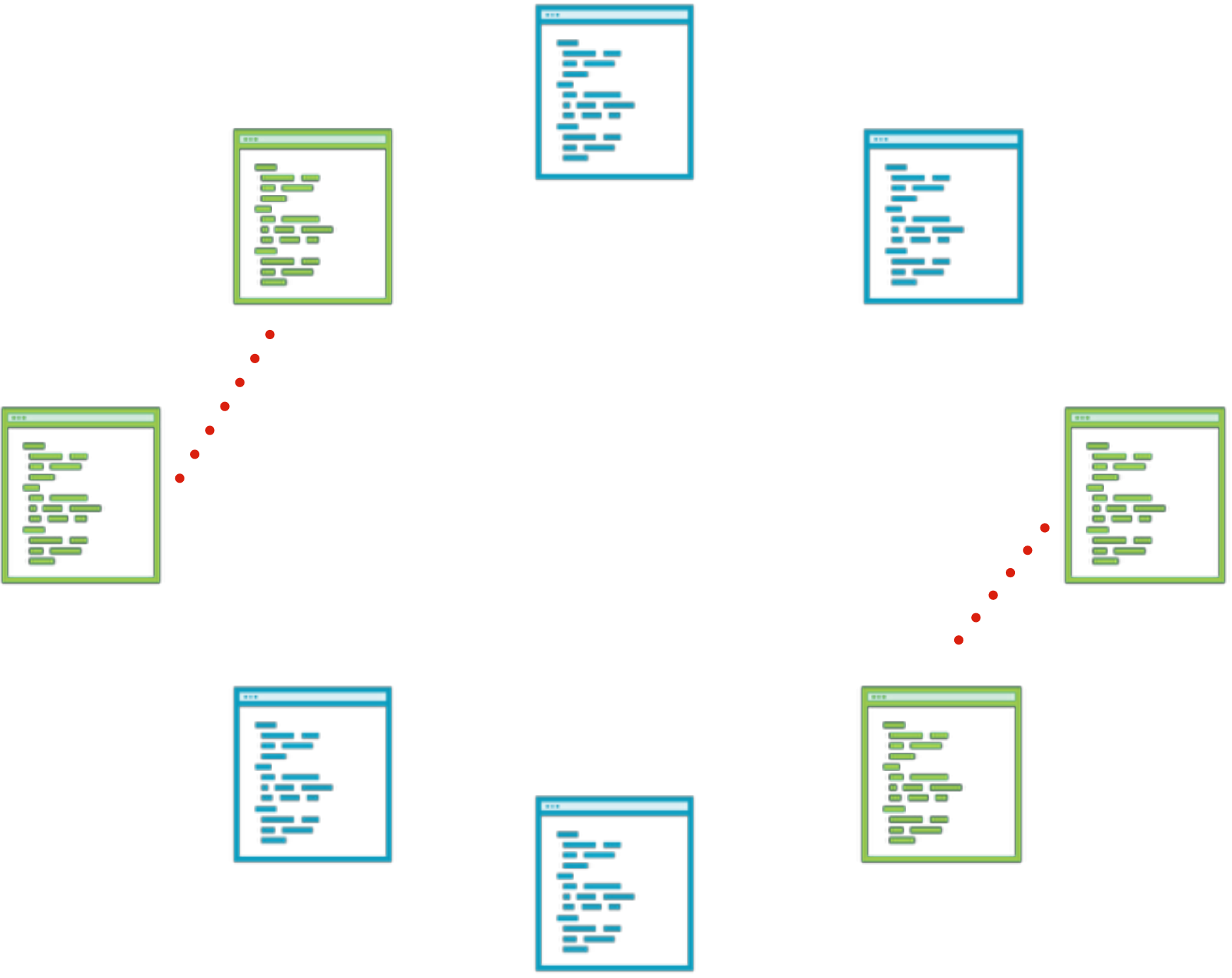




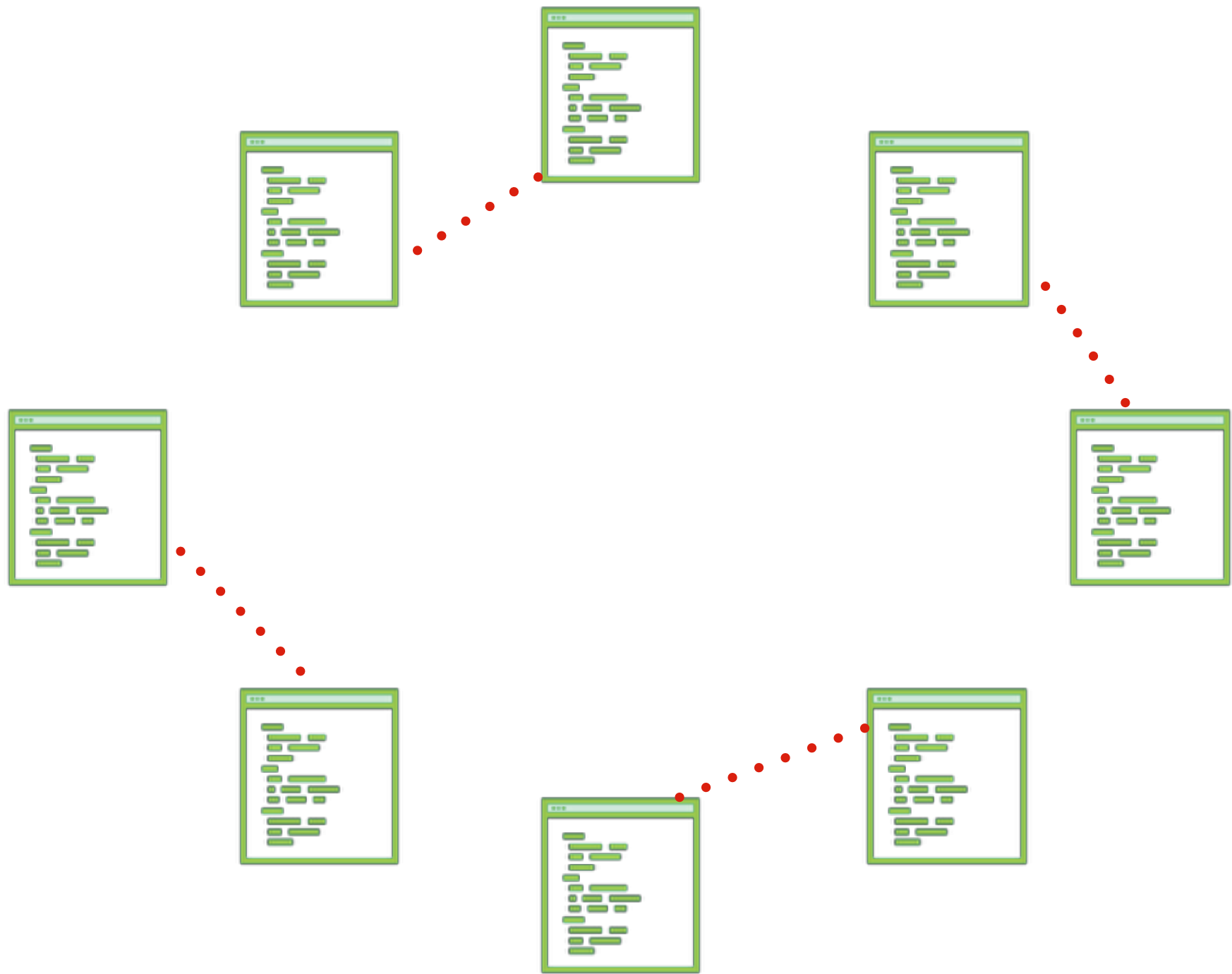


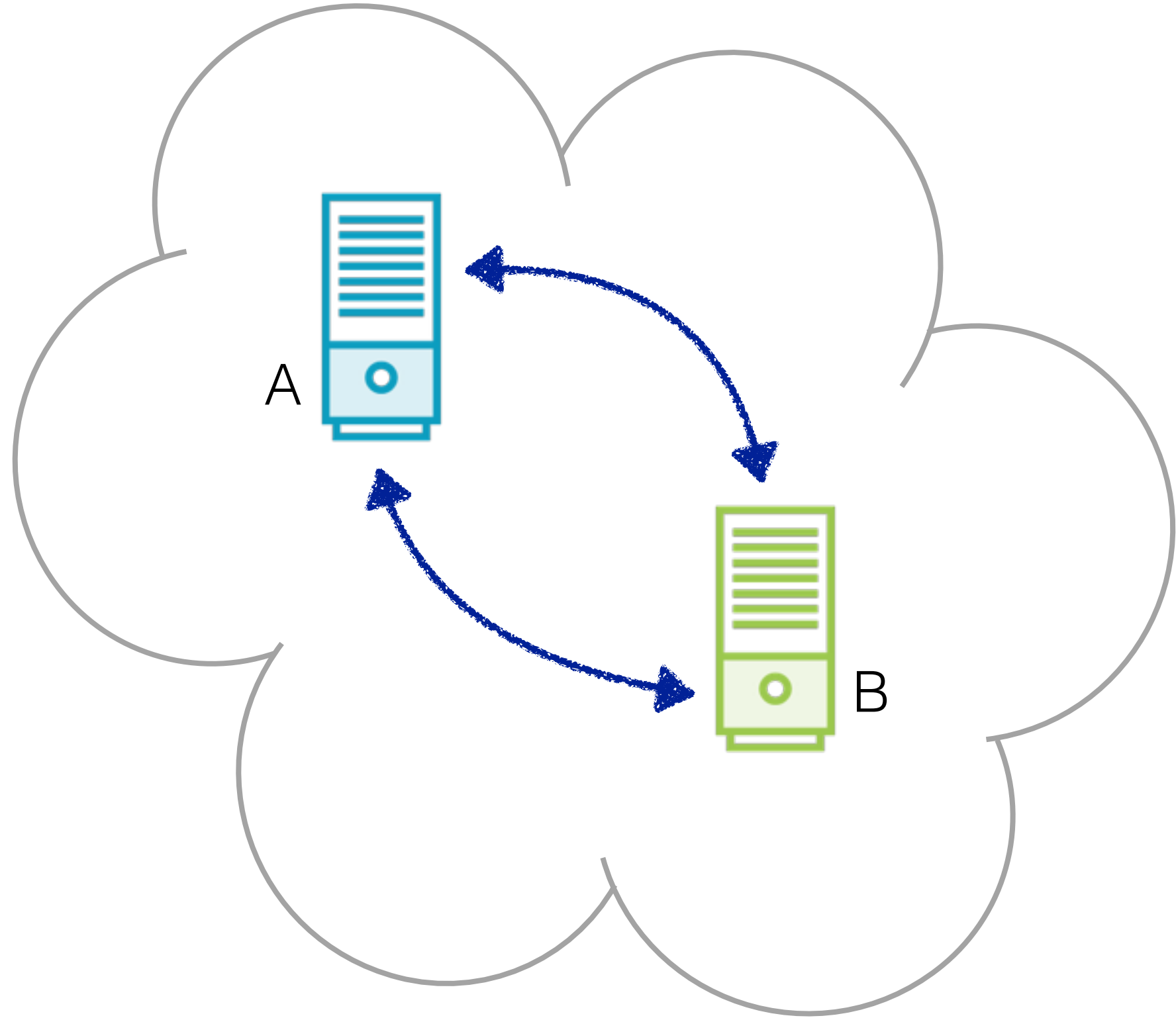


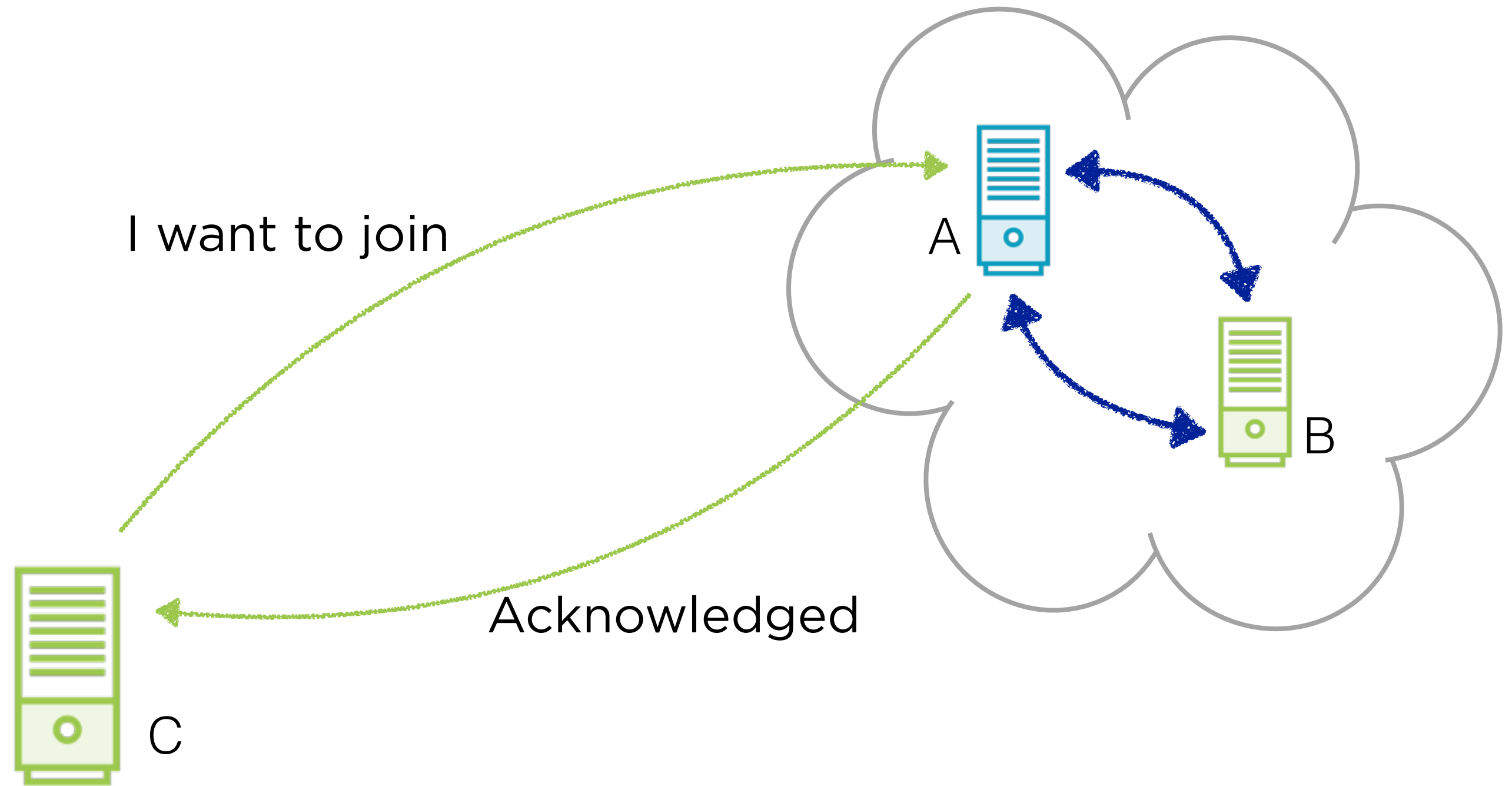


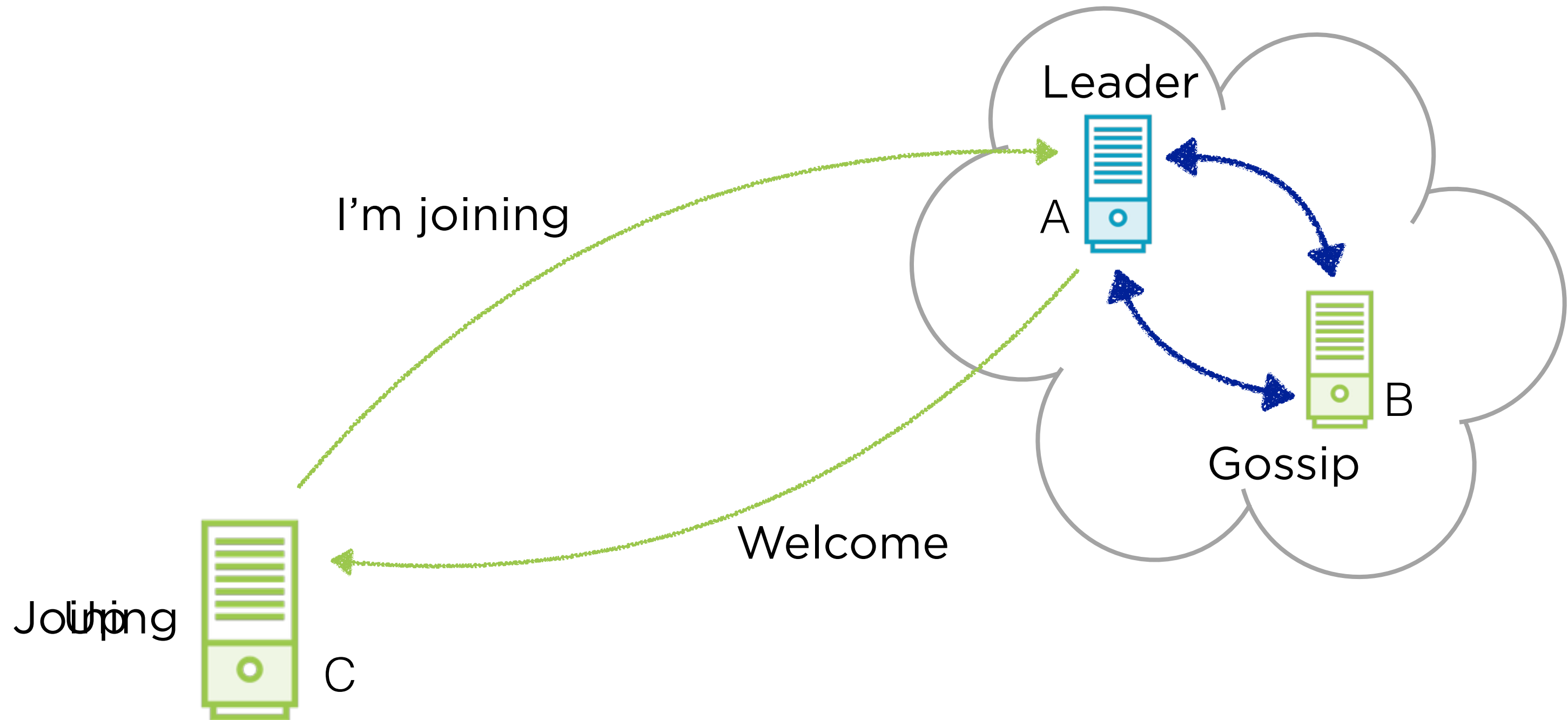




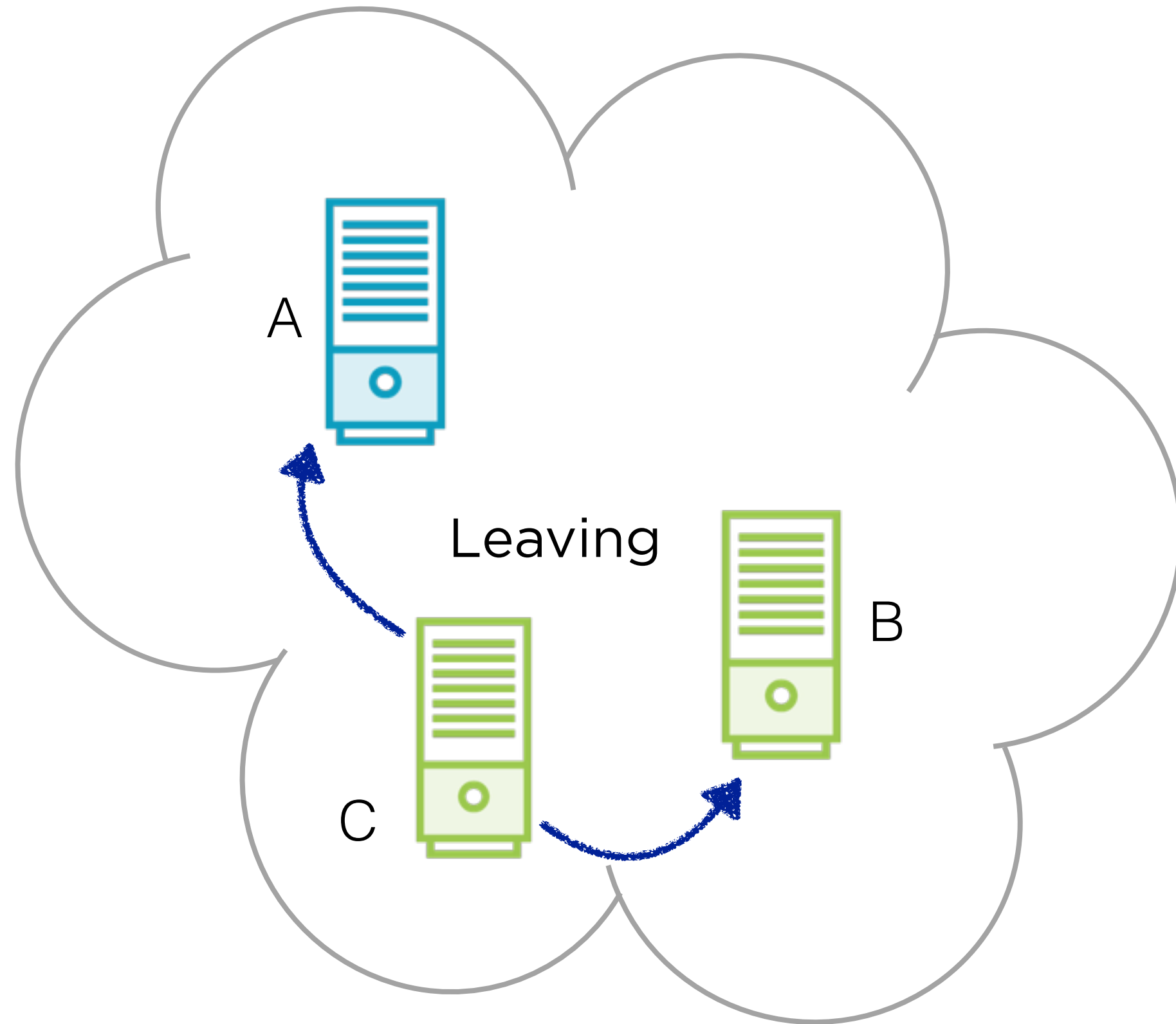


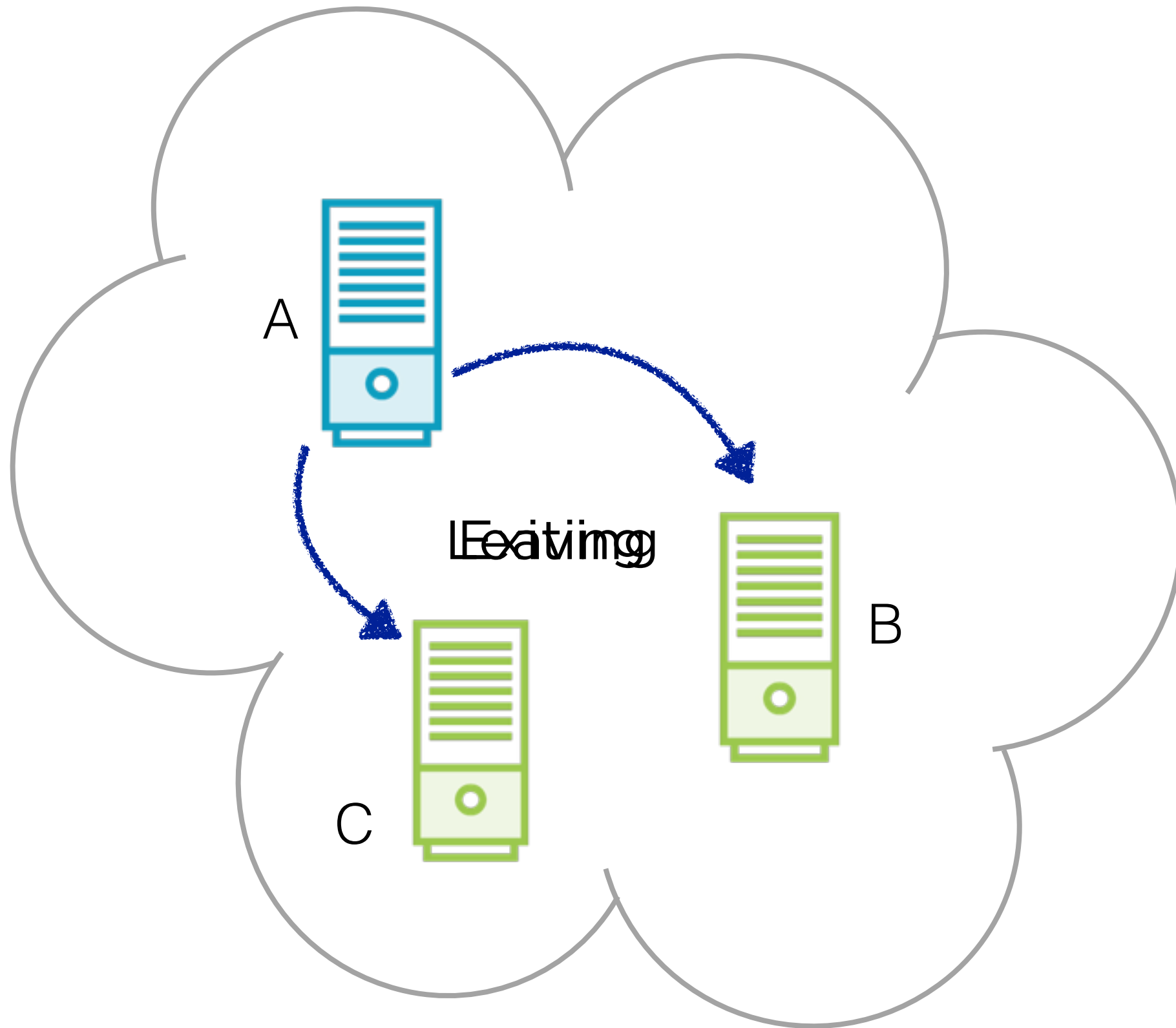
















# Recap

- **Enabling clustering**
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- **Lifecycles**

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