



# CAMEO: Orchestrate, communicate with any app



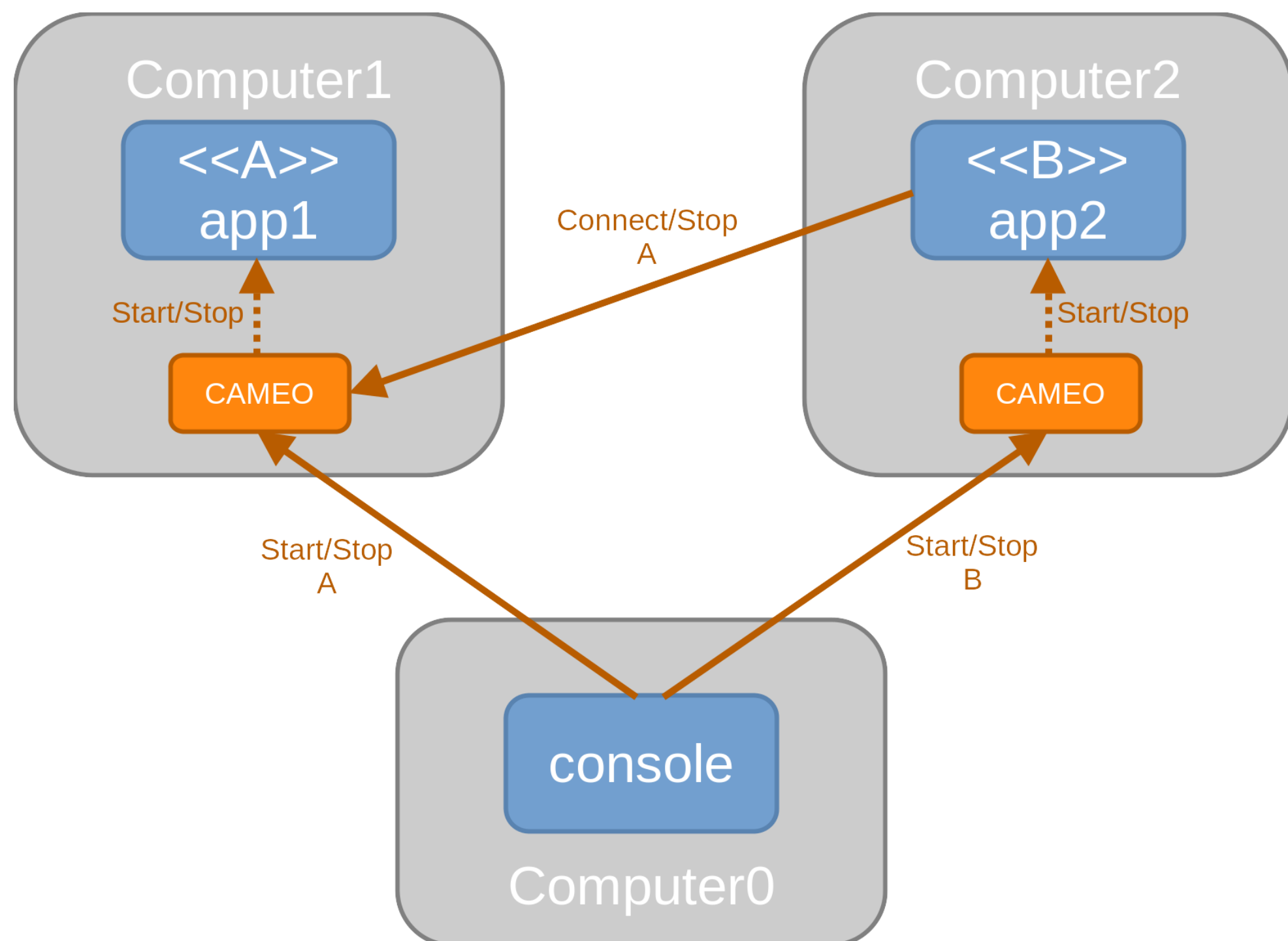
Y. Le Goc, S. Nourbakhsh

- Lightweight middleware
- Remote application manager
- Synchronize and take control of your apps on Linux, Windows, macOS
- Easy high-level APIs in C++, Java, Python
- Built on top of ZeroMQ with dynamic ports

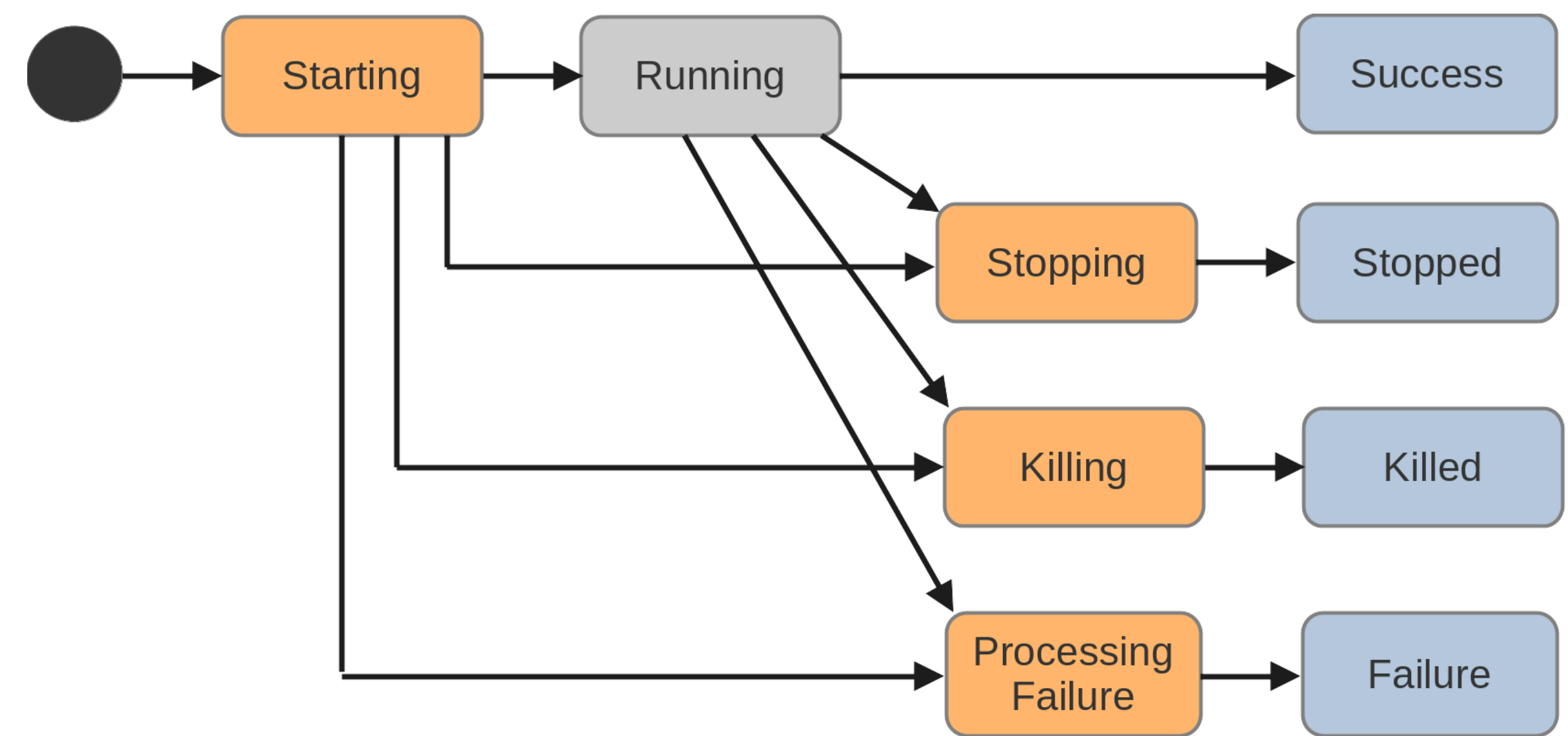
```
CAMEO
tcp://computer1:7000

A: /usr/bin/mya 1
B: /opt/myb/app none 3
C: /usr/bin/nano
```

Configuration of a CAMEO server on computer1: register the apps A, B, C

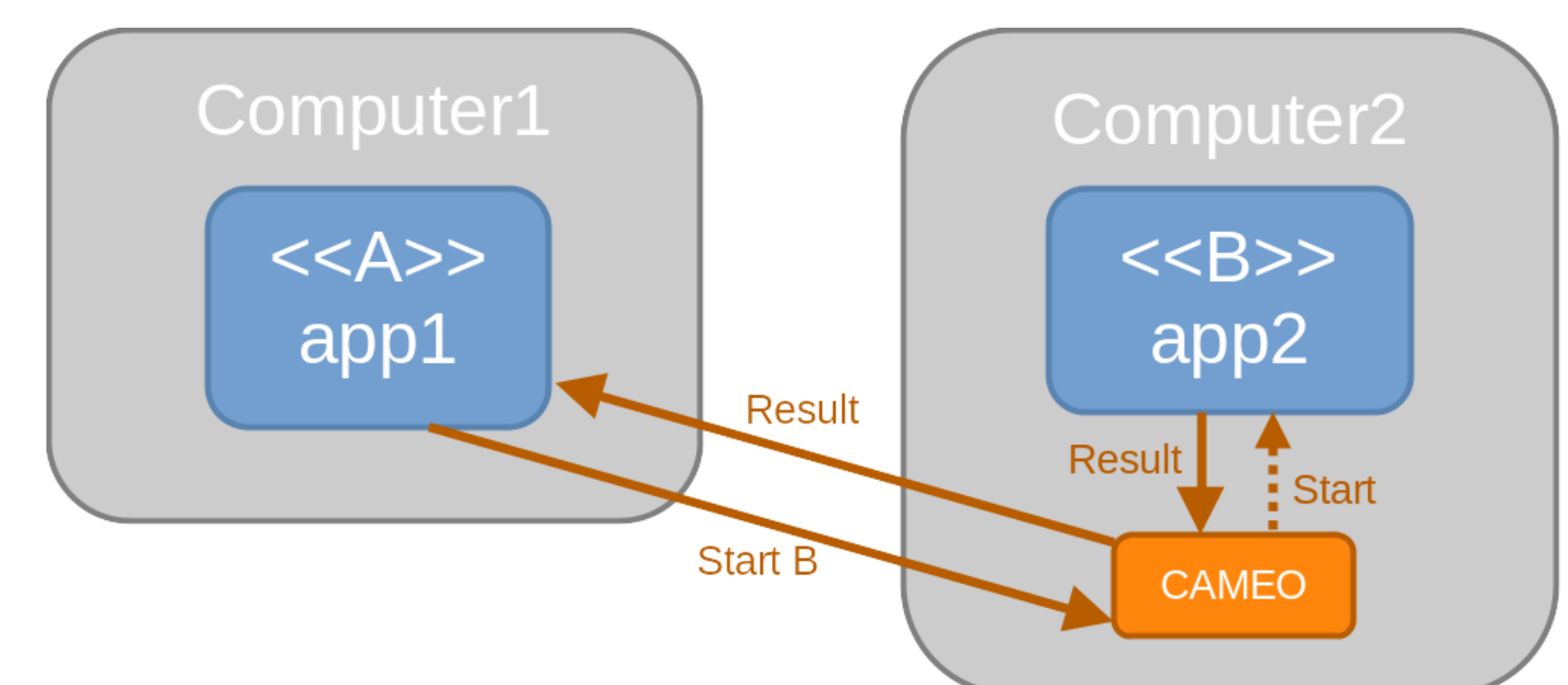


Typical interaction between two apps *app1* and *app2* running on two computers.

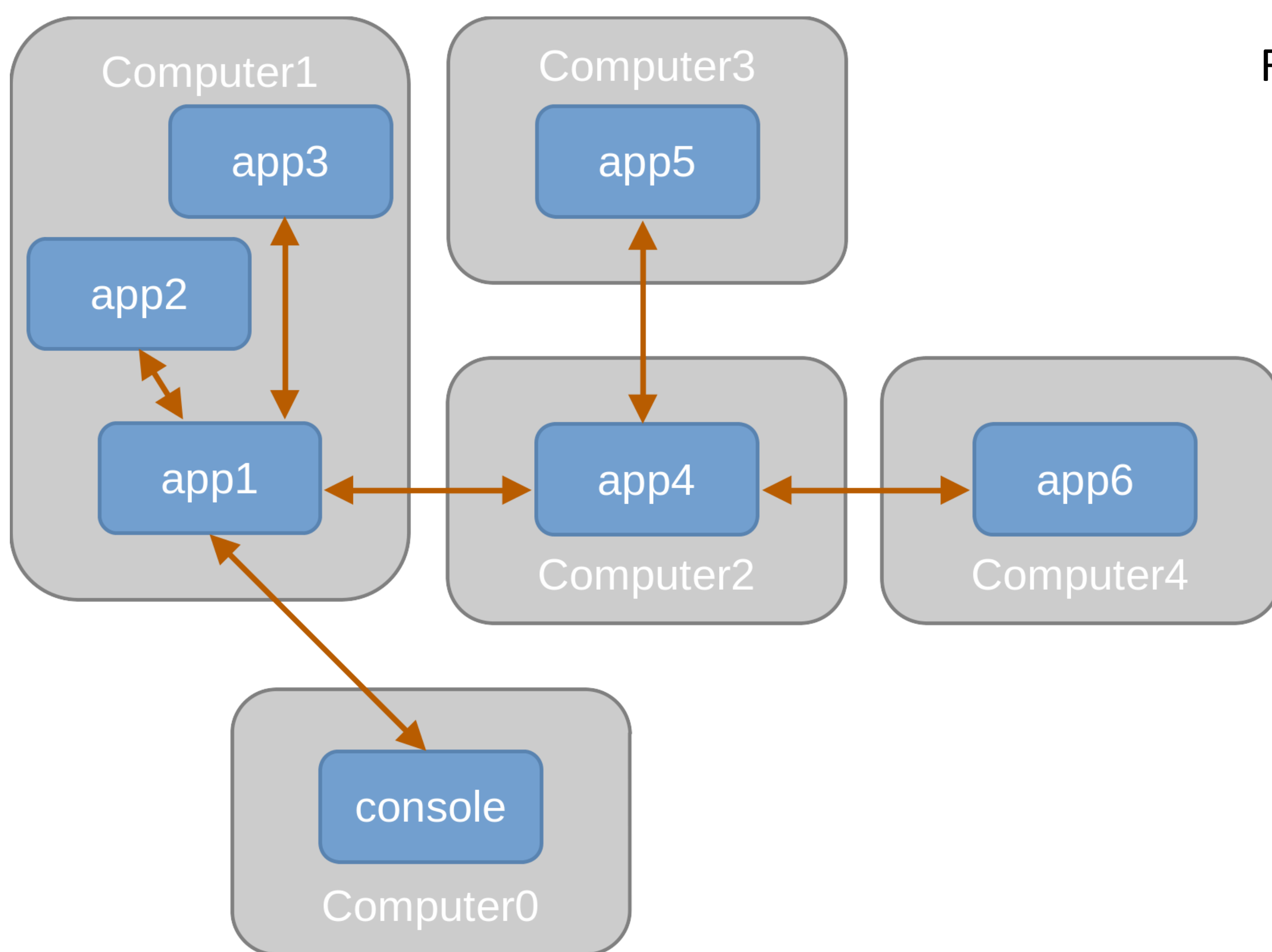


State diagram of a CAMEO app. Change of states are published allowing the tracking of a remote app.

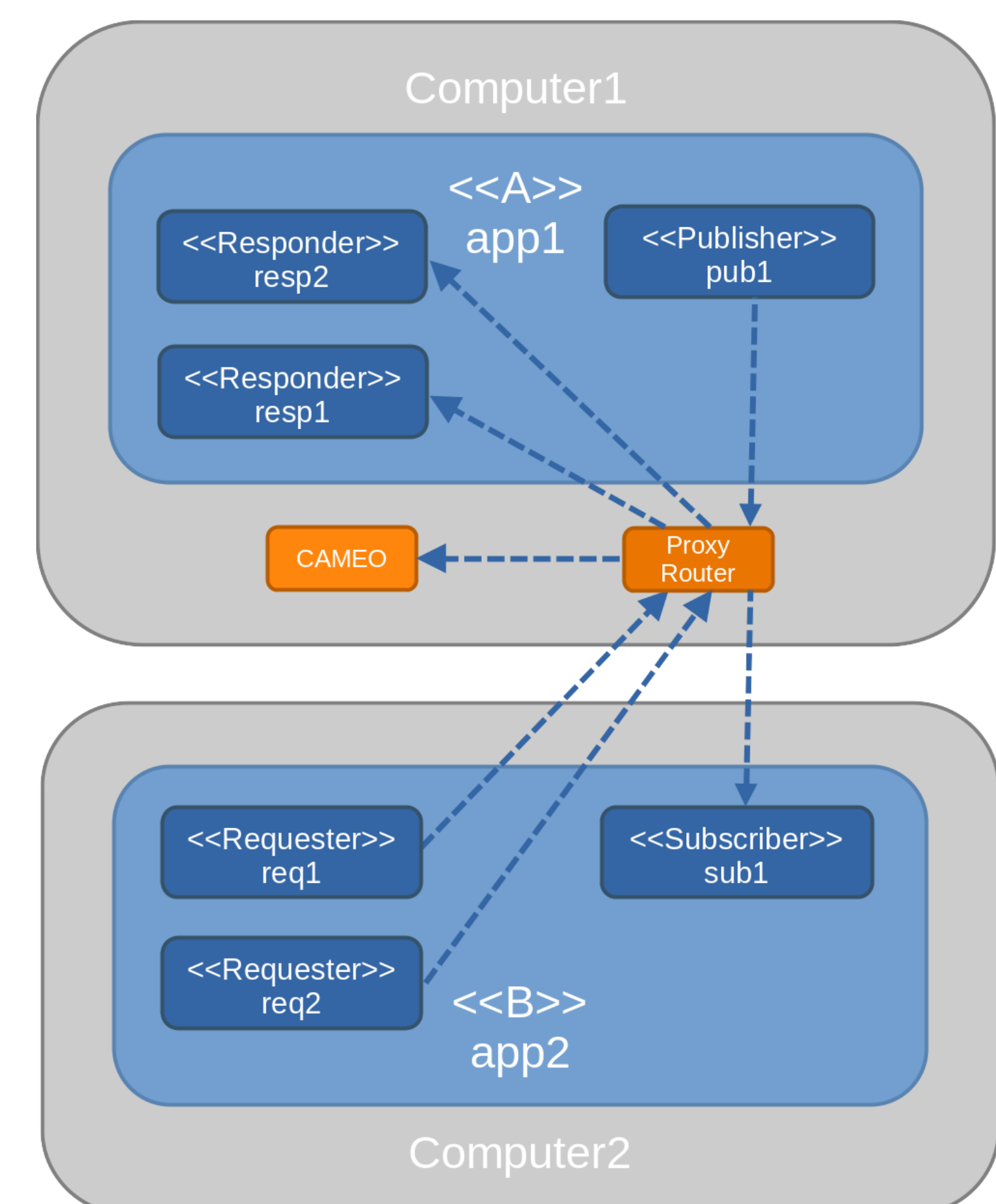
## Synchronized communication patterns: Requester/Responder, Publisher/Subscriber, Function (new)



Function: *app1* starts *app2* to achieve a specific task. The result is published to *app1* at the end of *app2*.



Build a network of synchronized CAMEO apps with a single entry point e.g. the console starts *app1* which starts *app2*, *app3*, *app4* which starts *app5* and *app6*.



Secure the communications by using the CAMEO Proxy Router opening only two ports on the firewall.

Flexible and adapted to many types of apps e.g. legacy black box app, graphical app, plugin-based app, etc.

Designed for non-network programming experts

Open-source project hosted on GitHub with rich documentation

Try it and contribute

