

Ptorrents concept. Basics

What is ptorrent?

Performance torrent (ptorrent) is a unity of data transfer protocols, supplementary services and infrastructure providing global computational resources share networking via standard connection channels. Joining ptorrent network user shares some part of his/her device(s) computational resources to public and after that can use some part of the whole network computational power. The ratio between shared/used performance is determined in a real-time manner by the special AI-software integrated into ptorrent infrastructure.

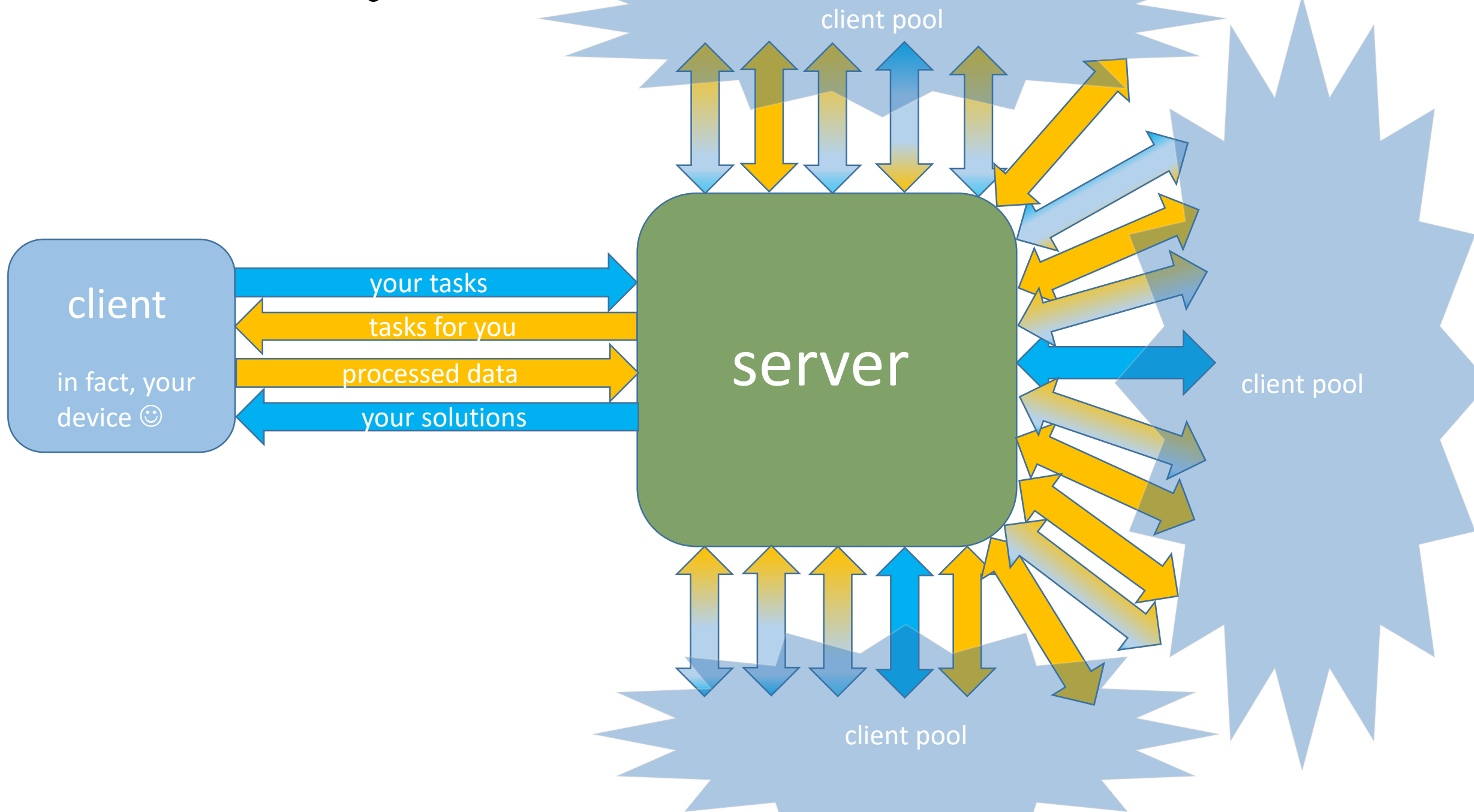
“give all you need, bring all you don’t need” principle.

Basic slogan sounds like “Share your performance!”

Architecturally, it is the same GRID, just performing not a single client special tasks, but any user-defined tasks from any users’ number. There is nothing new in the distributed computation, except that it has never been used in household.

Innovations involve: First, the algorithm adjusting the dynamic performance distribution between users (i.e. accessing only a particular “solaris” harbor for a free sailing). Second, the innovative parallelizing, fragmentation, and data transfer algorithm, performing in the lowest-level, and starting from a CPU queue fragmentation with ping-and-batch-free communication.

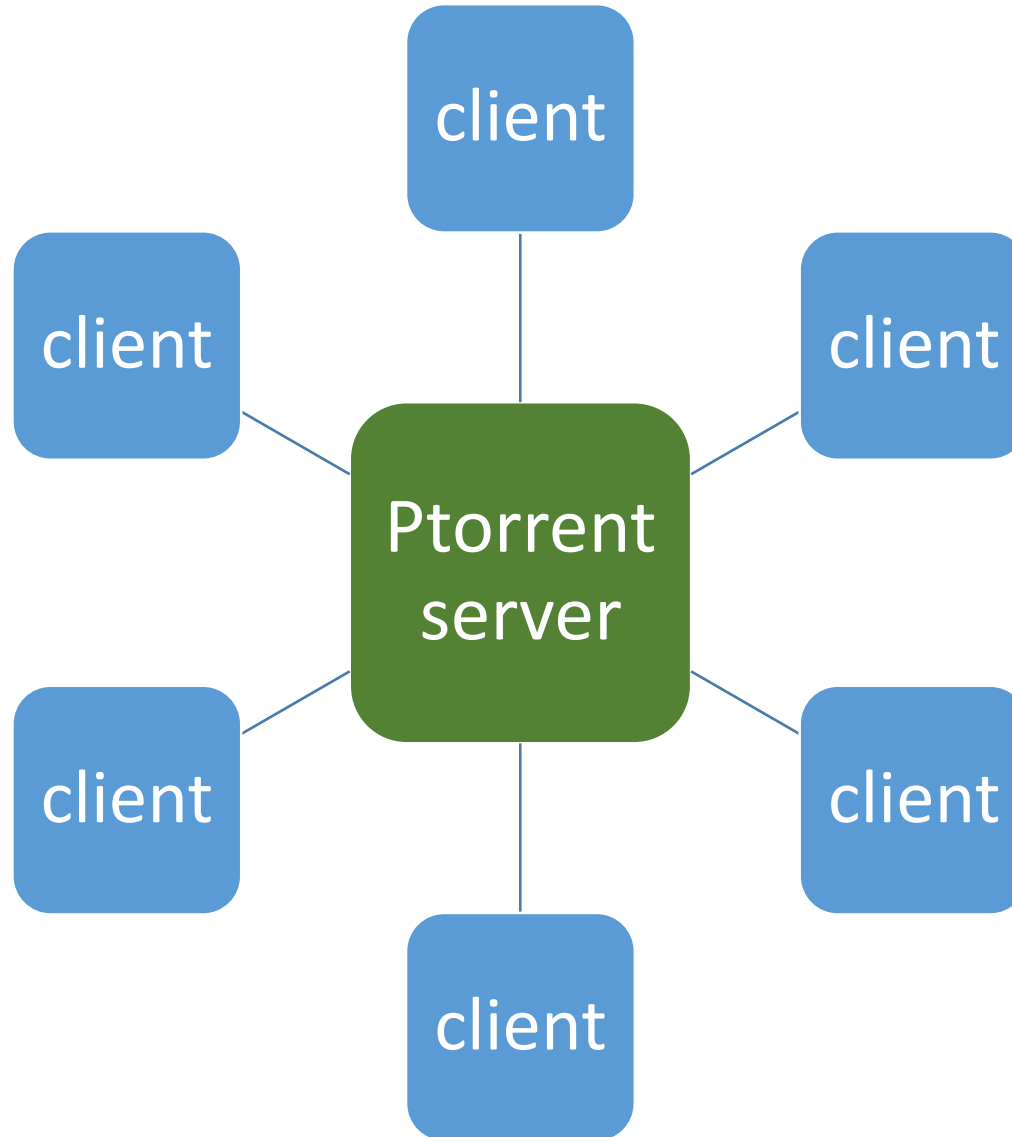
Client-server architecture: a general view



Ptorrents concept. Evolution. Monocentric. Stage 1: alpha-testing

What server does?

- Estimates total resources
- Distributes or/and allocates performance
- Receives, parallelizes and fragments users' tasks
- Queues the requests
- Sends tasks fragments to the executors
- Collects solved fragments from the executors
- Assembles and sends processed data to the acceptors



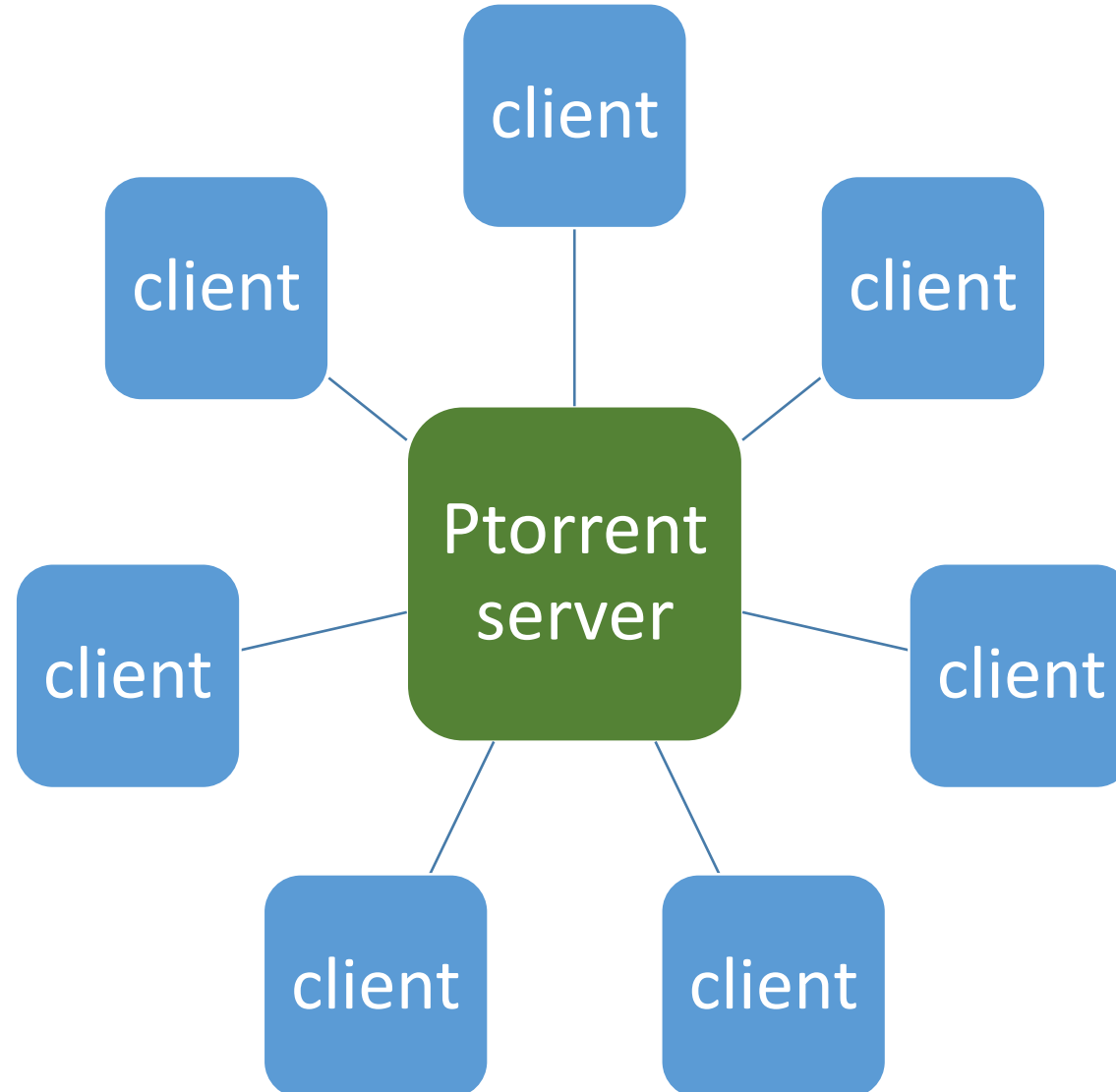
What client can?

- Request for a task processing
- Obtain information on the resources availability
- Share own resources in a simple automatic mode
- Make a manual rule(s) for a precise resources assignment

Ptorrents concept. Evolution. Monocentric. Stage 2: cloud shareware

What server does?*

- hosts cloud-software services (mostly beta free apps running completely under ptorrents medium)
- hosts a store selling ptorrent-adapted local software
- trades the performance (performance exchange house)



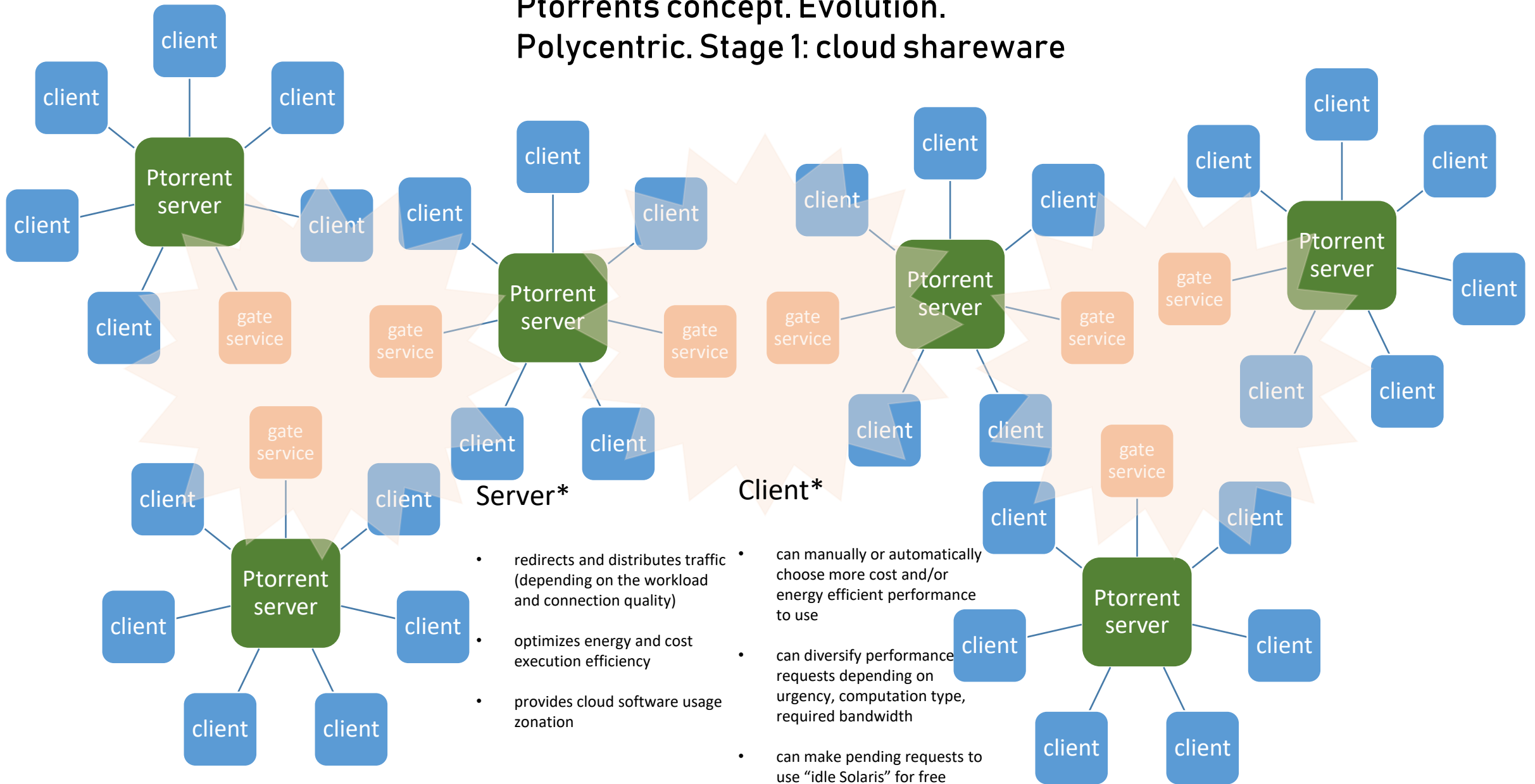
What client can?*

- use cloud beta software
- download the local ptorrents-optimized software from the store
- buy or sell performance

*additionally to the previous stage

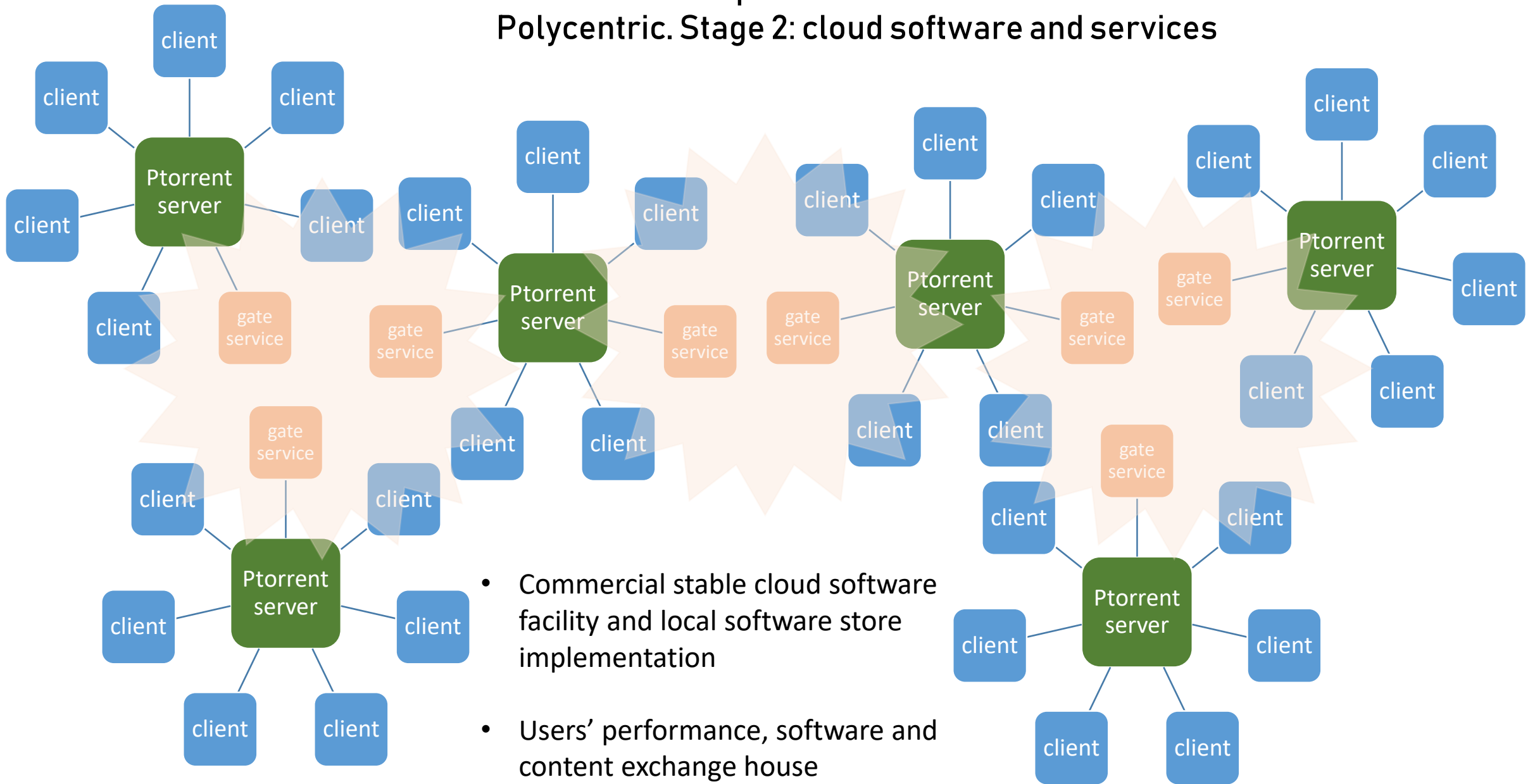
Ptorrents concept. Evolution.

Polycentric. Stage 1: cloud shareware

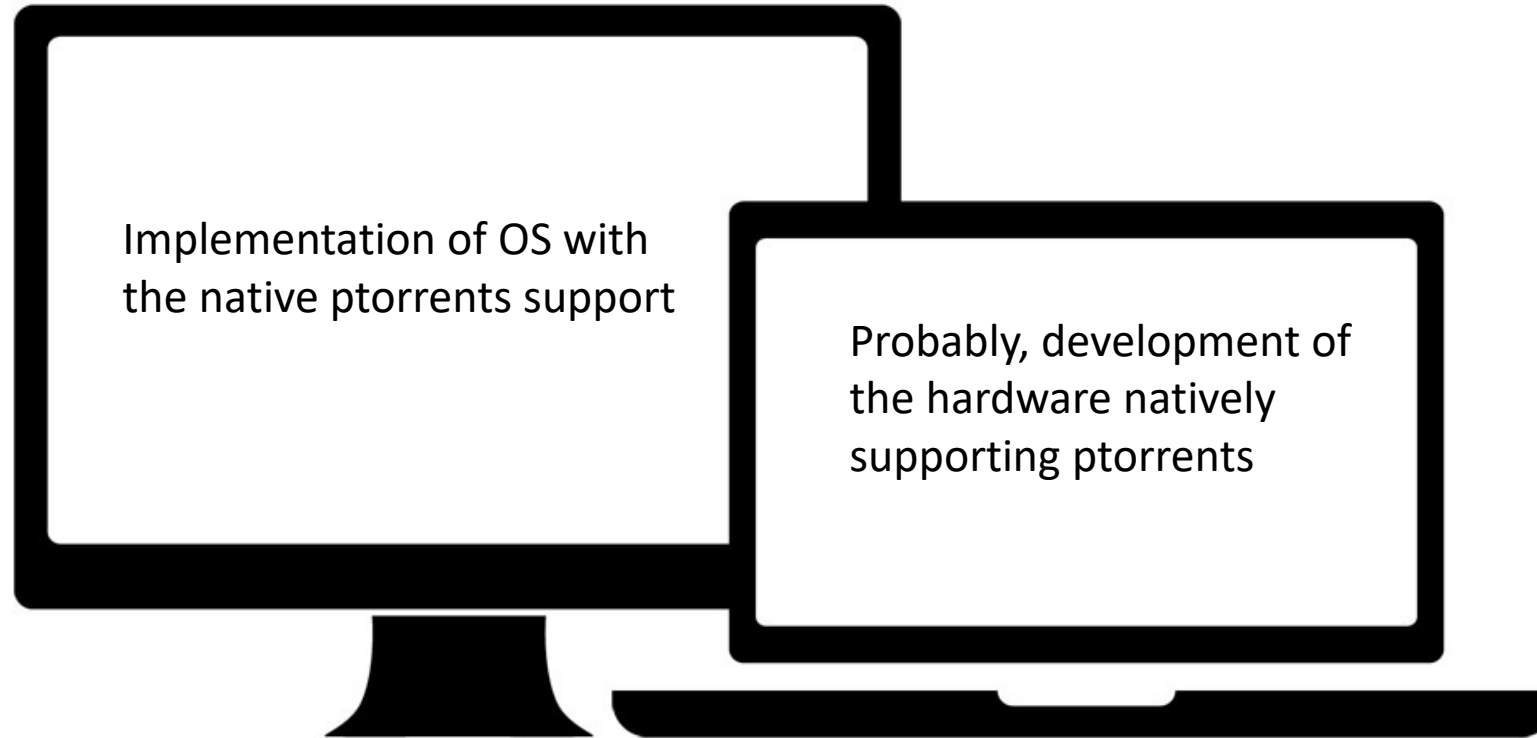


Ptorrents concept. Evolution.

Polycentric. Stage 2: cloud software and services

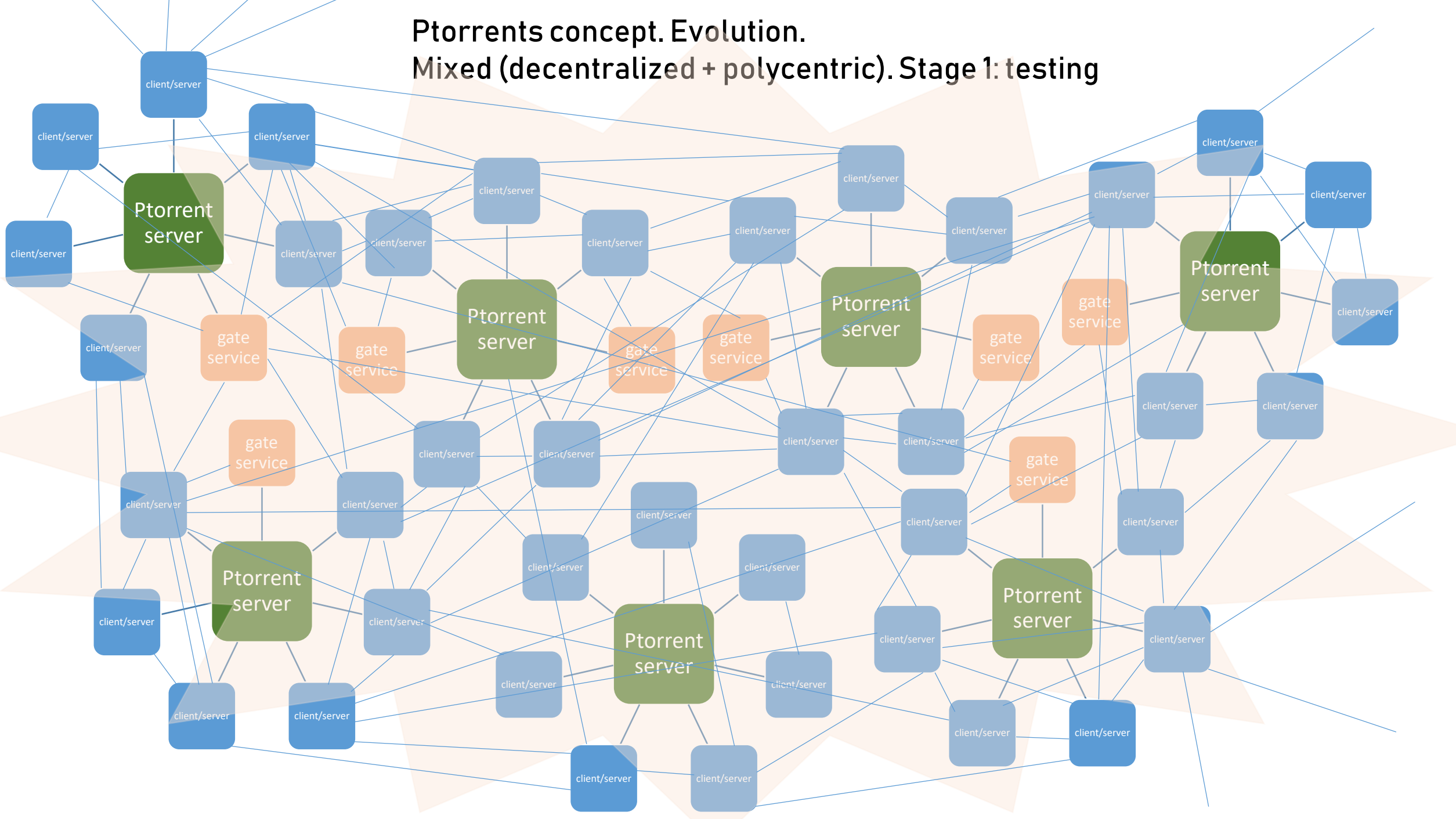


Ptorrents concept. Evolution.
Polycentric. Stage 3: operating system



Ptorrents concept. Evolution.

Mixed (decentralized + polycentric). Stage 1: testing





Ptorrents concept. Evolution. Decentralized. Solaris in Solaris

As to continue, users can unite their resources to solve megatasks like quantum computation projects, human brain modelling, complex neural networks and machine learning, etc