

The future is bright with clouds

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My Position

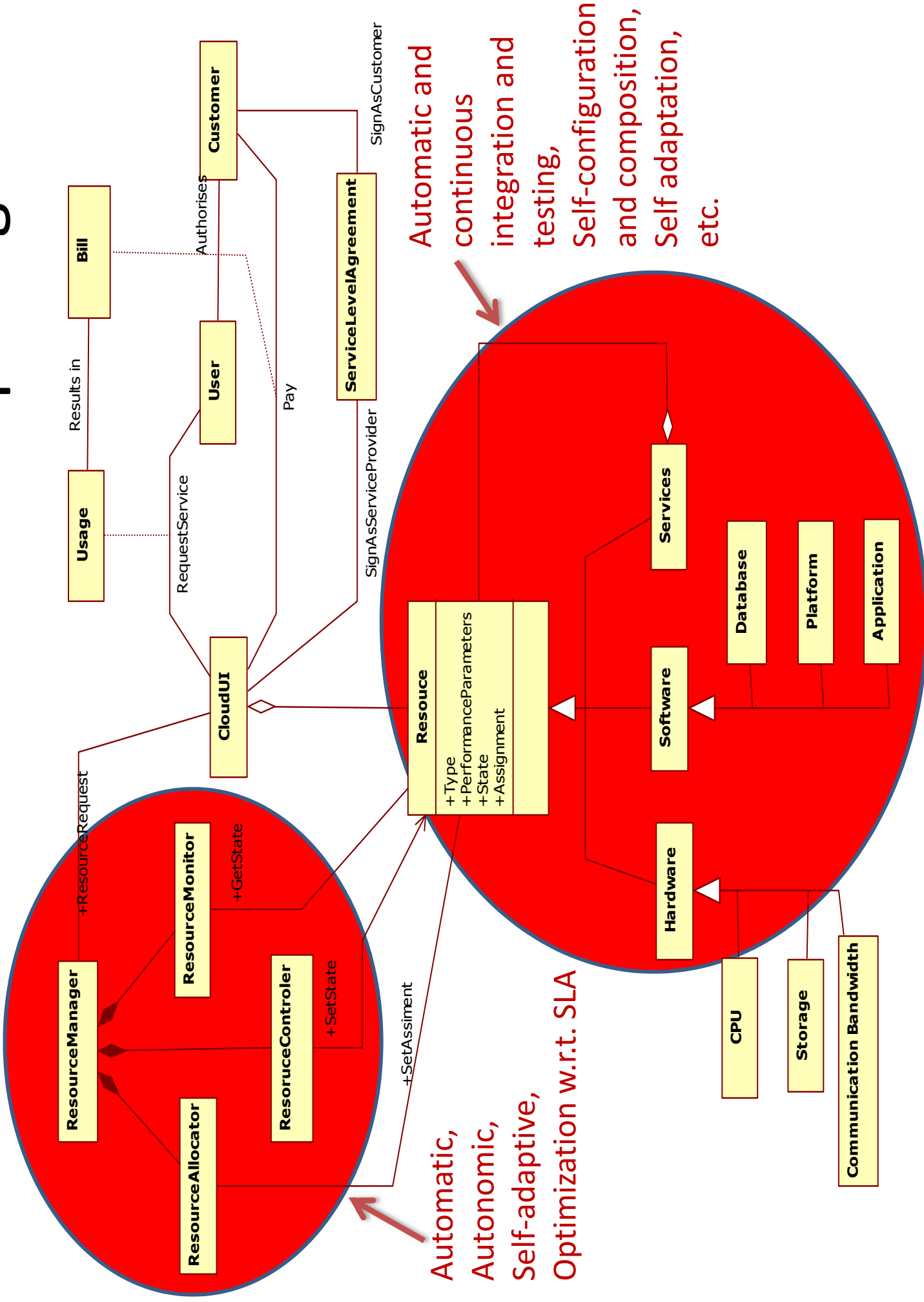
With the rapid development of cloud computing, the future of Software Cybernetics is bright.

- What is cloud computing?
- What role can software cybernetics play?

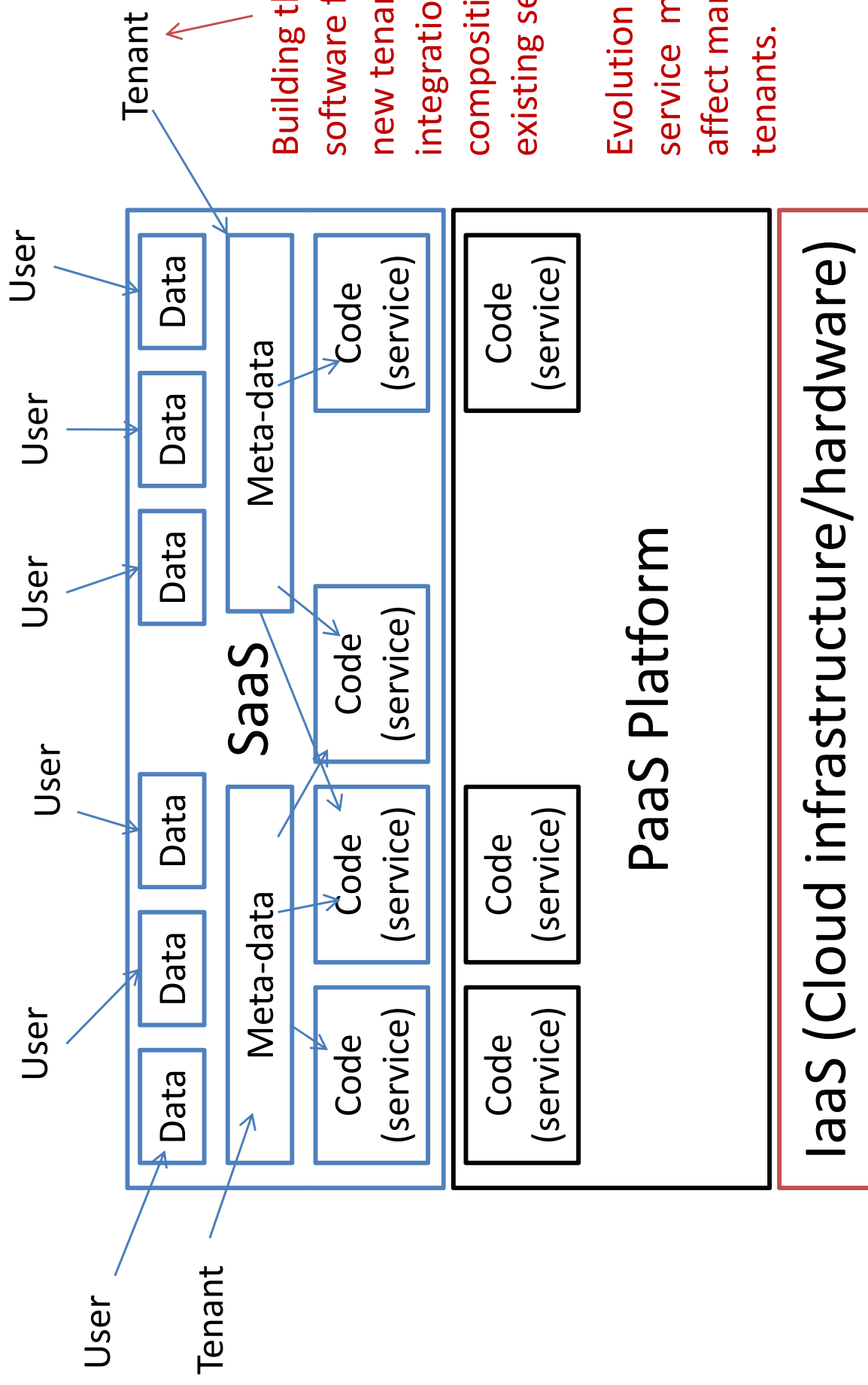
Cloud Computing

- Cloud computing paradigm is based on an architecture that consists of three sub-models:
 - **Business model**
 - **Pay-per-use**
 - **Management model**
 - A large amount of computational resource is **managed** by cloud owner for **balance** between **performance** and **efficiency**
 - **Technology model**
 - A stack of highly complicated computing technology enables **elastic** scale of computing with **rapid development** and **rapid deployment**

A Model of Cloud Computing



Cloud Software Architecture



Challenges to software engineering

- Existing theories, methods, techniques, and tools are for **human** to perform development activities
- The ideal solution for developing and maintaining cloud systems require **automation**:

- New measurements and metrics
- New processes
- New control mechanism/process, etc.

These are what cybernetics are all about!