The Aeuslus Cloud Model

package and services are components with ports and Internal States

- States activate ports:
  - provide, require and conflict.
  - active require ports must be bound to active provide ports of other components.
  - active conflict ports prohibit the presence of components with specific active ports.
  - State transitions coincide with deploy actions:
    - install, run, configure.

Zephyrus: Aeuslus Cloud Solver

Optimal deployment with Zephyrus

The zephyrus tool can compute optimal deployment configurations, ensuring no installation conflict will arise.

References and contributions

- Roberto Di Cosmo, Stefano Zacchiroli, and Gianluigi Zavattaro.
  - Towards a formal component model for the cloud.
  - Component Reconfiguration in the Presence of Conflict.
  - In ICALP 2013.

- Arnaud Malaper, Jean-Charles Régin, and Jean Parpasillon.
  - The Package Server Location Problem.
  - In ICORES 2013, pages 193 – 204, Scitepress, 2013

We would like to thank the members of two friendly projects:

- Mancoosi Project (www.mancoosi.org)
- CompatibleOne Project (http://www.compatibleone.org)