In the Cloud

- In a cloud: each application or service is running on multiple servers
- Servers handling concurrent events and interacting with each other
- The ability to obtain a "global photograph" of the system is important
- Some uses of having a global picture of the system
 - Checkpointing: can restart distributed application on failure
 - Garbage collection of objects: objects at servers that don't have any other objects (at any servers) with pointers to them
 - Deadlock detection: Useful in database transaction systems
 - Termination of computation: Useful in batch computing systems like Folding@Home, SETI@Home