

# Heron Redux (Karthik)

- Started in 2013 at Twitter
  - Sanjeev and Karthik
- Motivated by several issues with Apache Storm
  - Inability to debug/tune/resource reservation
  - Several GC incidents
- Open sourced May 25, 2016 (see [blog post](#))
  - <https://github.com/twitter/heron>
  - <http://heronstreaming.io>
- Apache 2.0 License



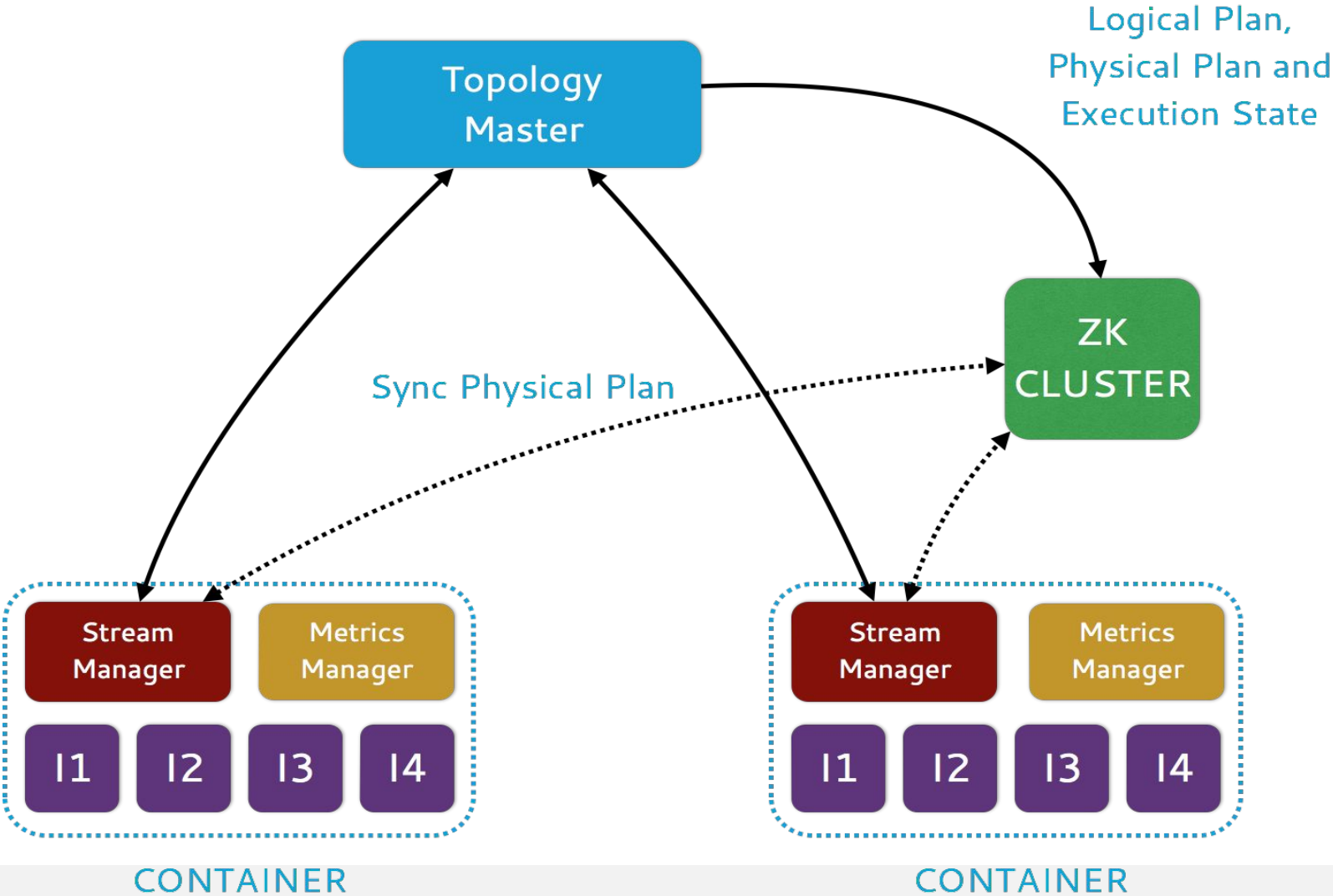
# Heron: Community

- 1816 commits
- 60 [contributors](#)
- 2620 github stars
- 1118 pull requests - 25 open
- 213 open issues
- Production at Twitter > 2.5 years
- Production at WeChat, Fitbit, Google, Microsoft, industrial

# Heron: Key Features

- Fully API compatible with [Apache Storm](#)
- Task isolation
- Developer productivity
- Ease of manageability
- Use of mainstream languages C++/Java/Python
- Kubernetes support planned (see [github](#))

# Heron: Architecture



# Heron Papers

- Twitter Heron: Towards Extensible Streaming Engines (with Microsoft) - ICDE 2017
- Streaming@Twitter - IEEE Data Engineering Bulletin - Dec 2015
- Twitter Heron - Streaming@Scale - SIGMOD 2015 (more than 25,000 downloads)

# Heron + CNCF

- Heron seeks a neutral foundation to grow the contributor community
- Desire to integrate with CNCF projects such as k8s + take advantage of CNCF services such as events, cluster and so on!
- Inception level project