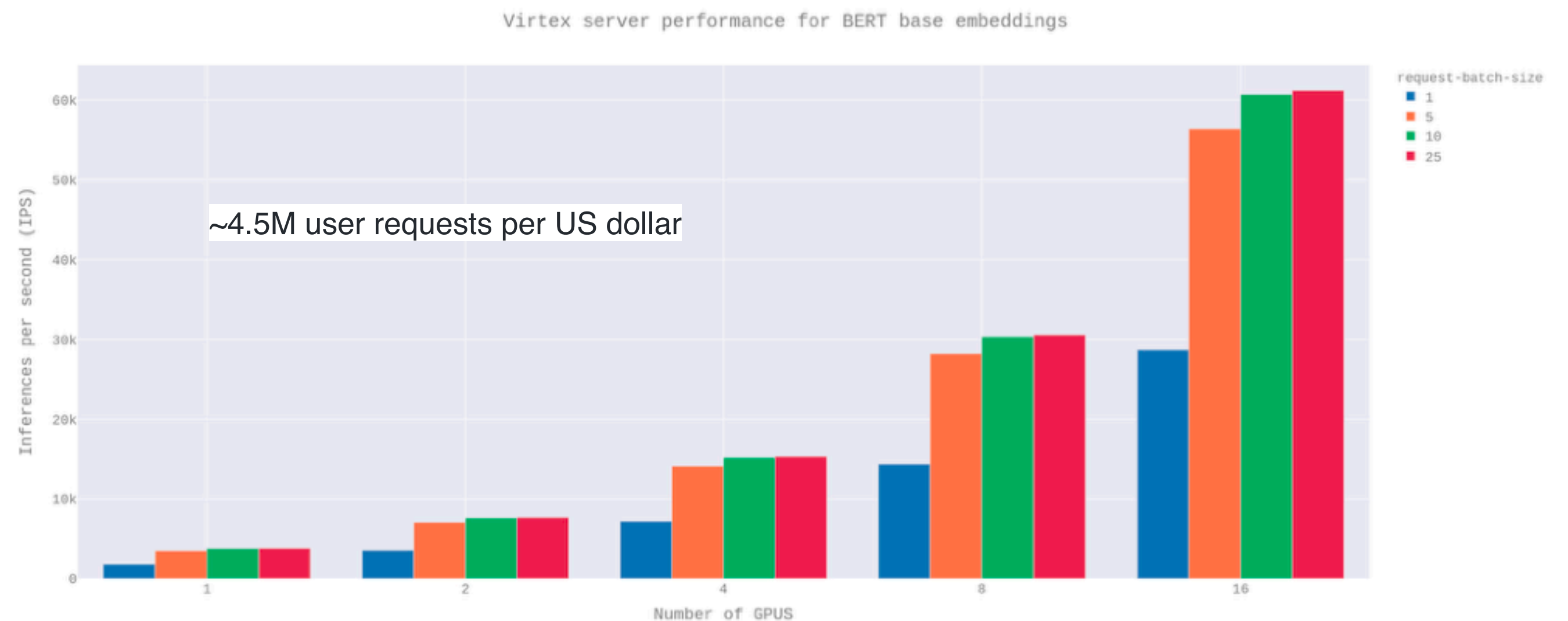
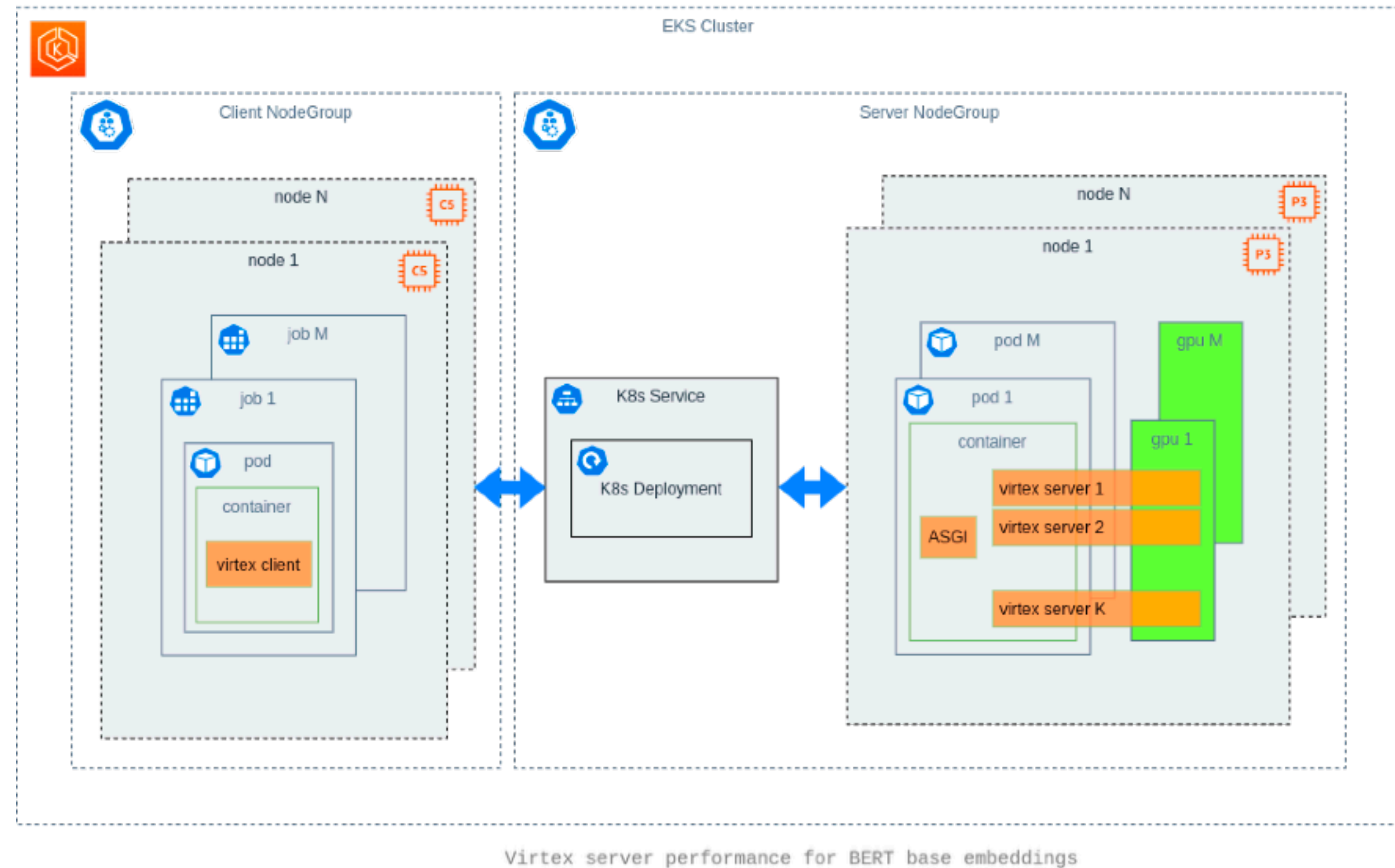
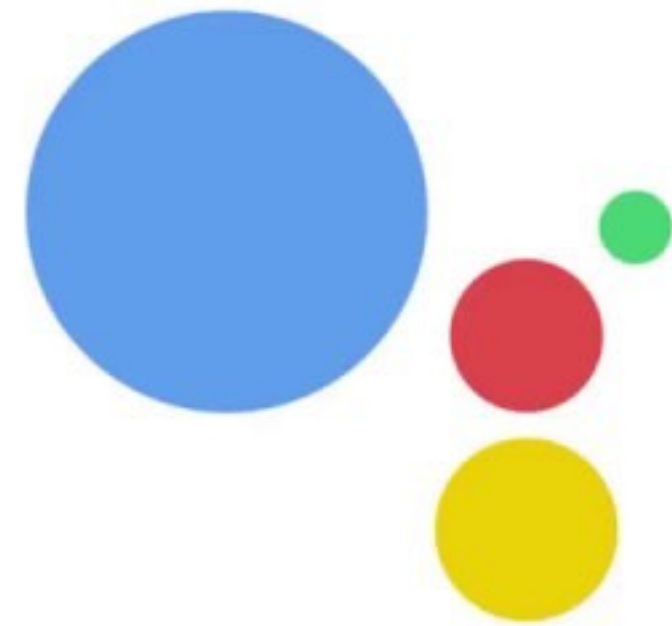


# Scaling dialogue systems involve many considerations

- \* Understand system level latency profiles
  - \* Messaging bus
  - \* Internal APIs that you don't own
- \* Compute-bound services should be isolated
  - \* Dynamic batch processing
- \* Unit testing, including 3rd party tools
- \* Understand / measure the latency-throughput curve
- \* Cost
  - \* Cost-performance-headache landscape
  - \* Accelerators cost (a lot) more!
  - \* Use hardware designed for inference, not training.
- \* Set SLAs for 3rd party APIs
  - \* Define pXX latency bounds (and enforce them)



# Current state of the art in task-oriented dialogue



Calling...



Google Duplex