

OpenLambda Dev Meeting: June 7

Discussion Topics

- Applications
- First release
- Website
- HotCloud
- Tools
- Differentiation
- Research projects

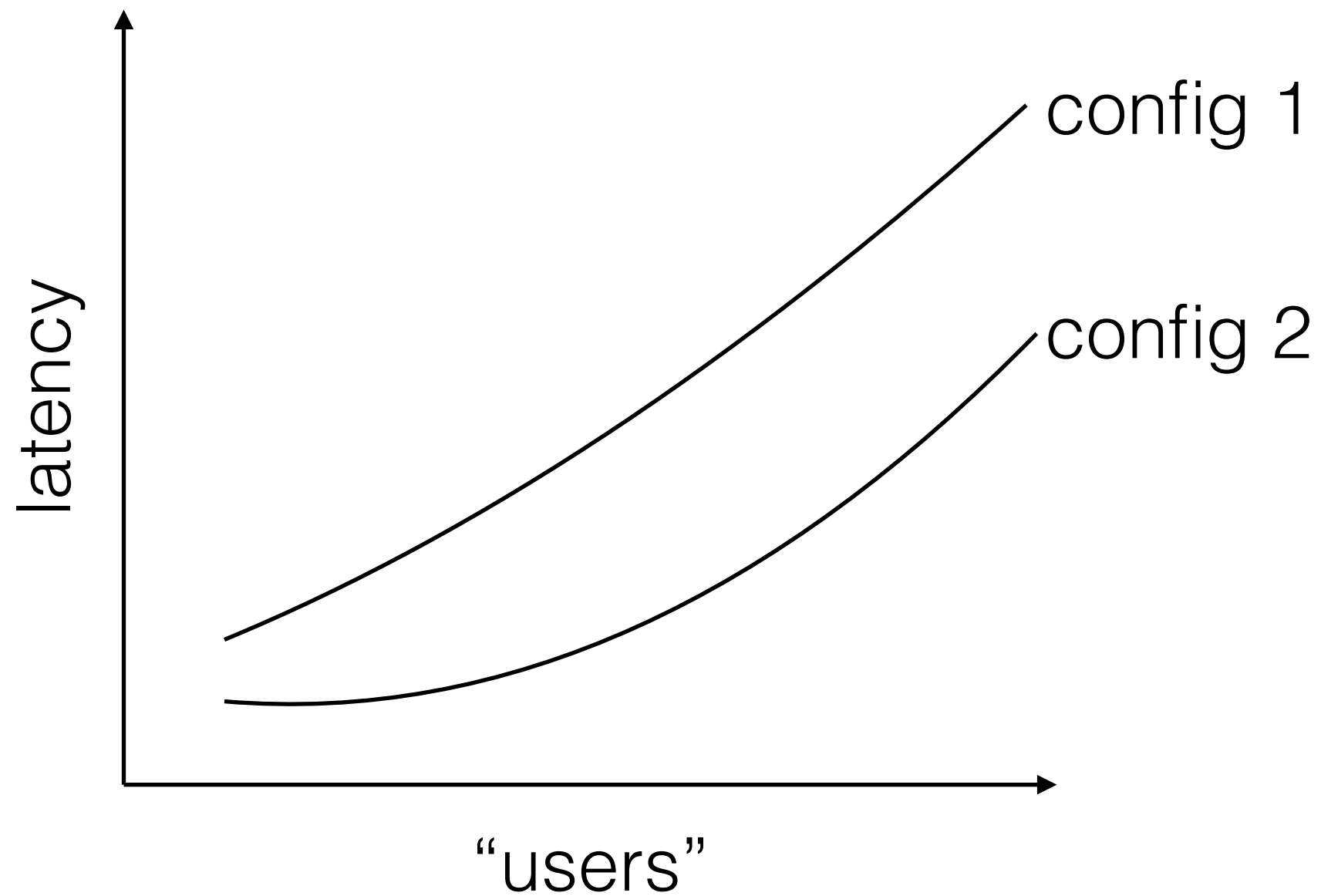
Applications/demos

- Better chat
- Blog tool (with comments)
- **Mike:** Concert tickets
- Multiplayer game
- Nearby friends
- **Stephen:** Calendar (with email reminders)
- Stock alert cron job
- **Ben:** Autocomplete
- Simple search engine
- Document conversion
- **Ed:** OCR service
- **Tyler:** Kindle flash cards

Next steps

- Make it work on AWS Lambda and OL
- Turn it into a benchmark
- Evaluate single-node OL

Example eval



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Version 0.1

Deadline: June 20th

- multiple nodes: load balance w/ nginx
- security: Lambdas can't reach engine
- bug fixes: paused issue
- integration tests
- environment setup scripts
- move repo to <https://github.com/open-lambda>
- ???

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<http://www.open-lambda.org>

Help needed

- general design
- logos
- documentation
- code examples
- youtube demo
- slides
- GSOC proposal/info
- HTTPS
- Use OL on email registration

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HotCloud Workshop

June 20th

- Talk (scheduled soon)
- Poster (feedback appreciated)

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Tools Needed

Tracing

- Trace all data to/from Lambdas
- Collect enough data to replay
- Record timings, queries issued by Lambdas

Debug log consolidation

- Many logs: each worker, each Lambda
- Single tool should show all

Deployment

- Need single tool to deploy to AWS and OL
- Need generic DB interface

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More open-source serverless platforms

Azure Functions

- <https://github.com/Azure/azure-webjobs-sdk-script>
- 414 commits

OpenWhisk

- <https://github.com/openwhisk/openwhisk>
- 380 commits

Lever OS

- <https://github.com/leveros/leveros>
- 114 commits

Run these, then briefly present highlights to group?

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Potential Projects

Application study

- what are typical RPC patterns?
- how portable are legacy apps to serverless?
- how large are libraries/apps, how much is used?

Serverless Load Balancing

- how to achieve locality for DB, code, sessions?
- how chatty should DB be?
- how to make very low-latency decisions?

Execution engine

- how to quickly provision?
- how to reduce paused overheads?