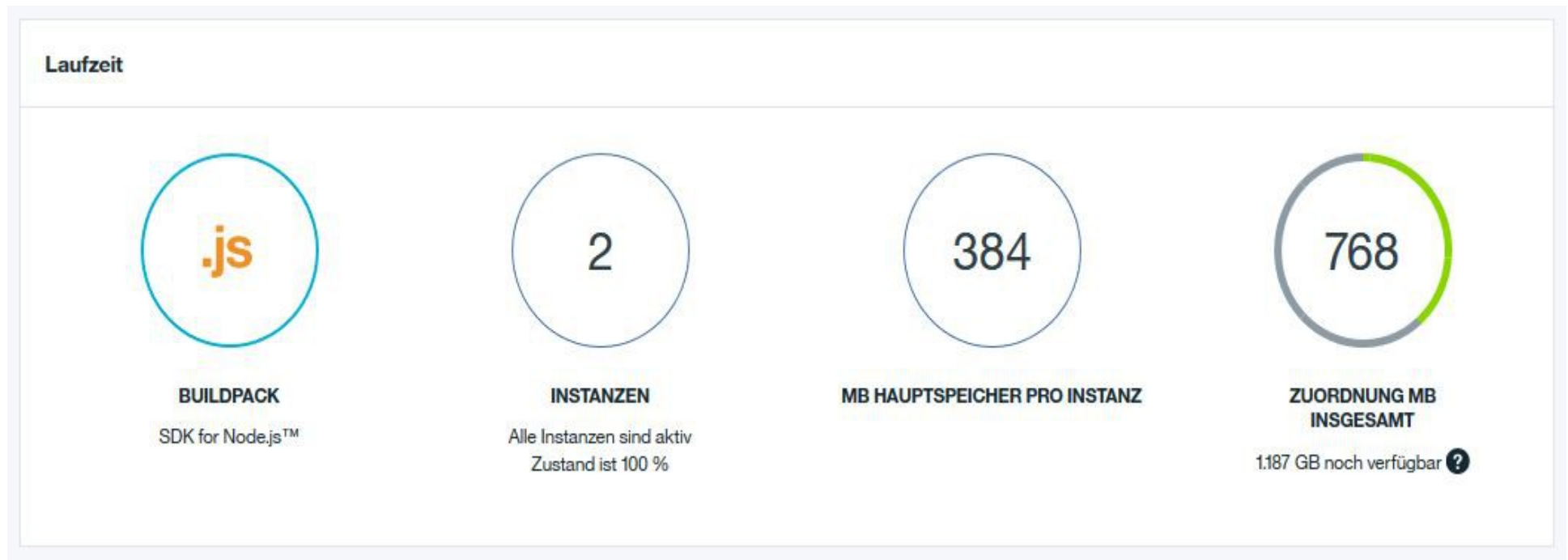# Cloud Computing: Chat with Node.js

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Bluemix – Multiple Instances

- Simply adding more instances on the bluemix dashboard overview

Multiple instance problem

- Server instances cannot differentiate between sockets
  - Therefor they are no longer able to allocate requests to the correct sockets when sending a message
- Instances do not know each other
  - One instance has no access to saved sockets of another instance
  - Because of that, a client-sent message won't be displayed at all other clients

Approach 1 - Redis

- Downloaded and installed redis server from https://redis.io/

- Redis Server locally

- Established a connection using redis module from node.js

- Subscribe and publish for communication over multiple instances

Approach 2 - Database

- Use a database to store client information and chat messages

- Accessible from all clients and instances

- Problem:

  – How to push new messages to the client?

  – How to manage saved chat messages?

Live Demo