



[data-bag.org](http://data-bag.org)

cloud-free file sync & backup



# Dangers of the cloud storage

- Cloud storage services abound & free, but
- Can you trust them?
  - not to harvest & analyze
  - not to sell or share
  - not to leak
- your
  - financial documents
  - health records
  - other private files?



# Sensitive records: requirements

- Security and control
- Reliable storage
- Simple access procedures
- Safety net against
  - equipment failures
  - human errors (including those discovered late)
  - haste and confusion



# Technical goals for data-bag

- Open-source: transparency, flexibility, reuse
- Portable
  - store and recover files on most machines
  - no need to install, run from the medium if needed
- Efficient
  - works with small media:
    - flash cards, USB sticks
  - no need for frequent purges
- Fast



# data-bag now

- A Java application
  - runs from a single ~1.5Mb .jar file
  - runs anywhere with a Java runtime
  - supports OpenJDK
- Command-line interface
- Set up once, sync quickly
- Recovery, undo, conflict resolution
- Storage (*bag*) compression & encryption



# data-bag in action

- See yourself at [www.data-bag.org](http://www.data-bag.org)
- Download the binary by clicking **Download**
- Install Java SDK & Apache ANT to build from source
  - `sudo apt-get install openjdk-6-jdk ant`
  - *- or -*
  - `http://java.oracle.com/`
  - `http://ant.apache.org/`
- Read `doc/manual.md` or `doc/manual.html` for instructions



# data-bag is free

- Project's code is covered by
  - GNU Affero GPL v.3 with amendments
- Code reused from Apache ANT is covered by Apache License v.2.0
- Libraries are covered by
  - Commons: Apache License v.2.0
  - H2: Eclipse Public License v.1.0



# The future of data-bag

- rsync integration: sync and store on a server
- web-interface: easier to use, server access, mobile-ready
- Android port?
- core improvements:
  - selectivity
  - digests vs. dates
  - renaming/moving files; etc.
- testing and documentation





# data-bag and you

- You are welcome to use it
- Your feedback matters
- Skills you can contribute:
  - algorithms & data mgmt. with Java & SQL (core)
  - build a web-interface in Java (web)
  - reading and writing C/C++ with Linux runtime (rsync)
  - building Android apps with native GUI
- Dual-license contributions: AGPL & Apache



# Contacting the data-bag team

- Download at [www.data-bag.org](http://www.data-bag.org)
- Join <https://github.com/data-bag/code>
- Check out [www.livitski.name](http://www.livitski.name)
- E-mail [data-bag at livitski dot name](mailto:data-bag@livitski.name)
- Ask questions now and later

*Thank you!*

*Stan.*

