

	ID	Name	PasswordChars	PasswordLength	Password
1	1	Sophia	ABCDEF6HIJK	10	c4712866799881ac48ca55bf78a9540b1883ae033b52109...
2	2	Jackson	ABCDEF6HIJK	10	c178ef3bd2dbf4e92291a9b563c0ae2ca2a8aead62db92f...
3	3	Olivia	ABCDEF6HIJK	10	b6dffc272ed2907a18105d183470974caf57a3a98ca96e6...
4	4	Liam	ABCDEF6HIJK	10	109fc23b13e8b4187c66d81400c3597ce69bcd552c81a2...
5	5	Emma	ABCDEF6HIJK	10	6078335cde9e5e1d0550277dfcaaf544535bb031e5e737a...
6	6	Noah	ABCDEF6HIJK	10	6d42b3f273438d289abb08b8dc9020fae420b294d828fd6...
7	7	Ava	ABCDEF6HIJK	10	4121ab0055971fbe177f21c8fbecc5720b599aa86034ff8...
8	8	Aiden	ABCDEF6HIJK	10	fbe3613750f71d7996e9d63601dc7fd4c7b63357ea6ba59...
9	9	Isabella	ABCDEF6HIJK	10	5a22e3bdef6c85307b361f2e1758f461e1f6725af6585d4...
10	10	Isabella	ABCDEF6HIJK	10	7700...
11	11	Isabella	ABCDEF6HIJK	10	7700...
12	12	Caden	ABCDEF6HIJK	10	48461b315092a69ebd7cf4c1b030f82e5fcbe4abcc2171d...
13	13	Aria	ABCDEF6HIJK	10	3fff9b667a867fccaada0d823d064743812b5ccafcc01e2...
14	14	Grayson	ABCDEF6HIJK	10	ac923aa891c087fad57b02de94044c04f44416a564065cb...
15	15	Grayson	ABCDEF6HIJK	10	57203d2db503c69464900aed186d864c90910631d0d310b...
16	16	Mason	ABCDEF6HIJK	10	4d873360dd931098ead7d69255176e685875a3689ea25f9...
17	17	Zoe	ABCDEF6HIJK	10	f2095d3f48f6c0366423436865156687a0d0dc0826ed8ca...
18	18	Elijah	ABCDEF6HIJK	10	25e975a018dd7265dcb44a17e4ef09de51d74397e8b3b3a...

Distributed Data Management: Akka Project LargeMessageProxy & Password Cracking

Lisa Koeritz & Samik Real

LargeMessageProxy

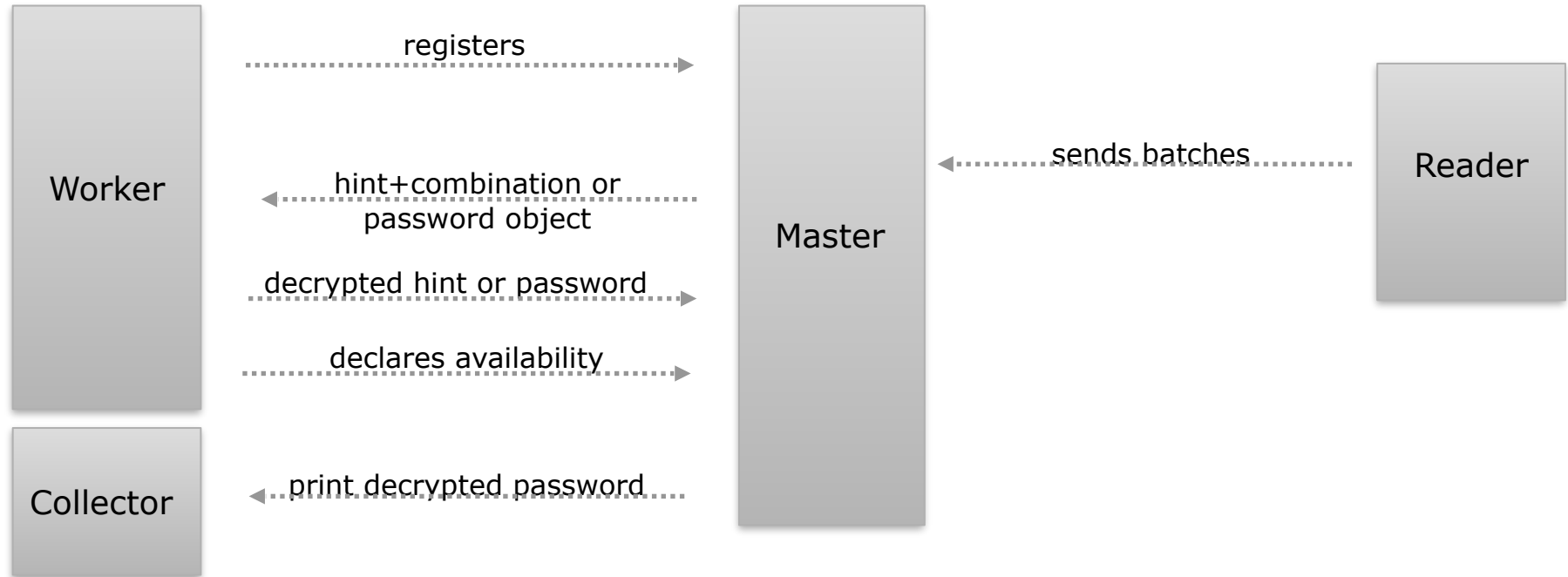
- LargeMessage serialized with `KryoPoolSingleton.get()`
- Connect Master with Worker
- Streaming with Sink
 - Creating Batches to stream via Sink
 - Using `Sink.actorRefWithBackpressure()`
 - `StreamSyncMessage` -> `StreamInitializedMessage` -> `StreamCompletedMessage` (Deserialization)

Presentation Title

Speaker, Job
Description, Date if
needed

Password Cracking - 1 worker / 1 hint or pwd

- using Queues to keep track of hint checking and password solving
- Password class to keep track of progress



Password Cracking - Bottlenecks

Hint Decryption

- Multiple tasks per hint because of 1 hint + 1 combination for hint decryption
- Each worker task calculates its own permutations in hint decryption
- Even if hint already decrypted: all other combinations are tested

Solution:

- create hash universe to keep track of decrypted permutations