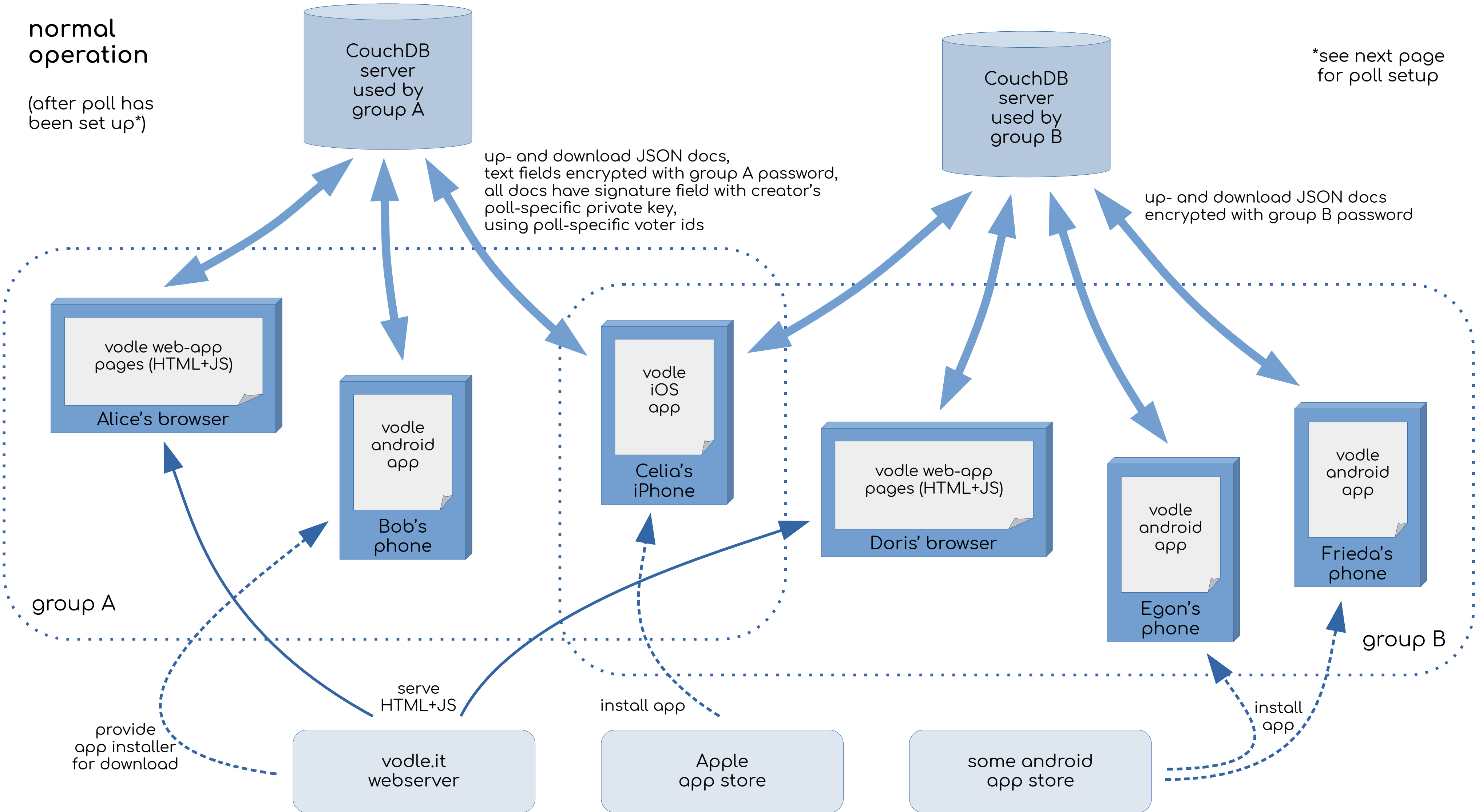


normal
operation

(after poll has
been set up*)

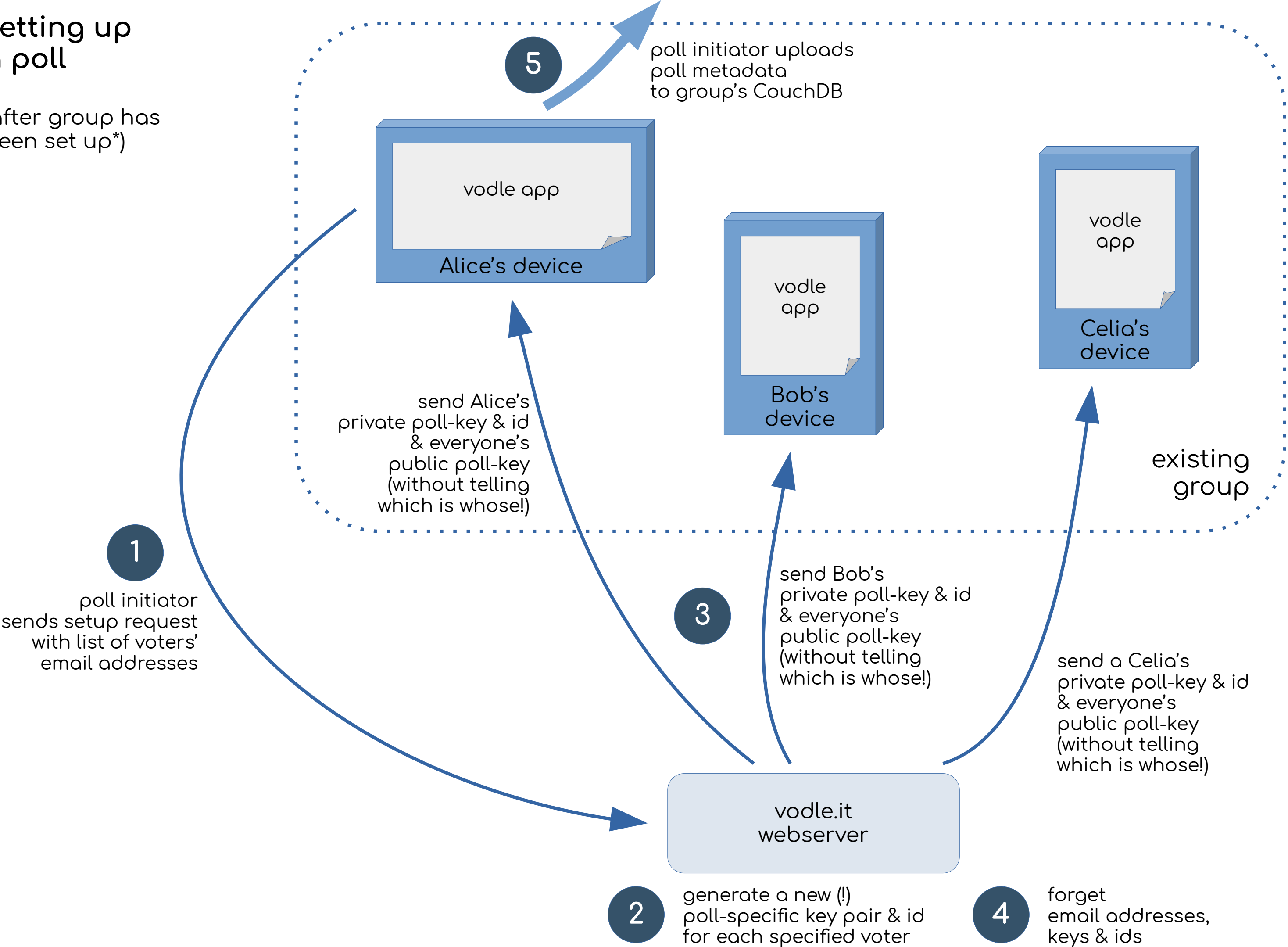
*see next page
for poll setup



setting up a poll

(after group has
been set up*)

*see next page
for group setup



rationale:

- all exchanged data (individual text fields) is encrypted with group password, only group members but no server knows the password.
- all uploaded data document is signed with a poll- and voter-specific private key, all members know the set of corresponding public keys but not which key is whose.
- each poll uses new voter ids
- hence every member can verify data is from some authorized poll voter but not from whom, and cannot correlate data from same voter across polls
- vodle server knows only the identity of the voters but not which DB server they use and cannot access any data
- CouchDB does not know identity of voters or content of data

setting up
a group

