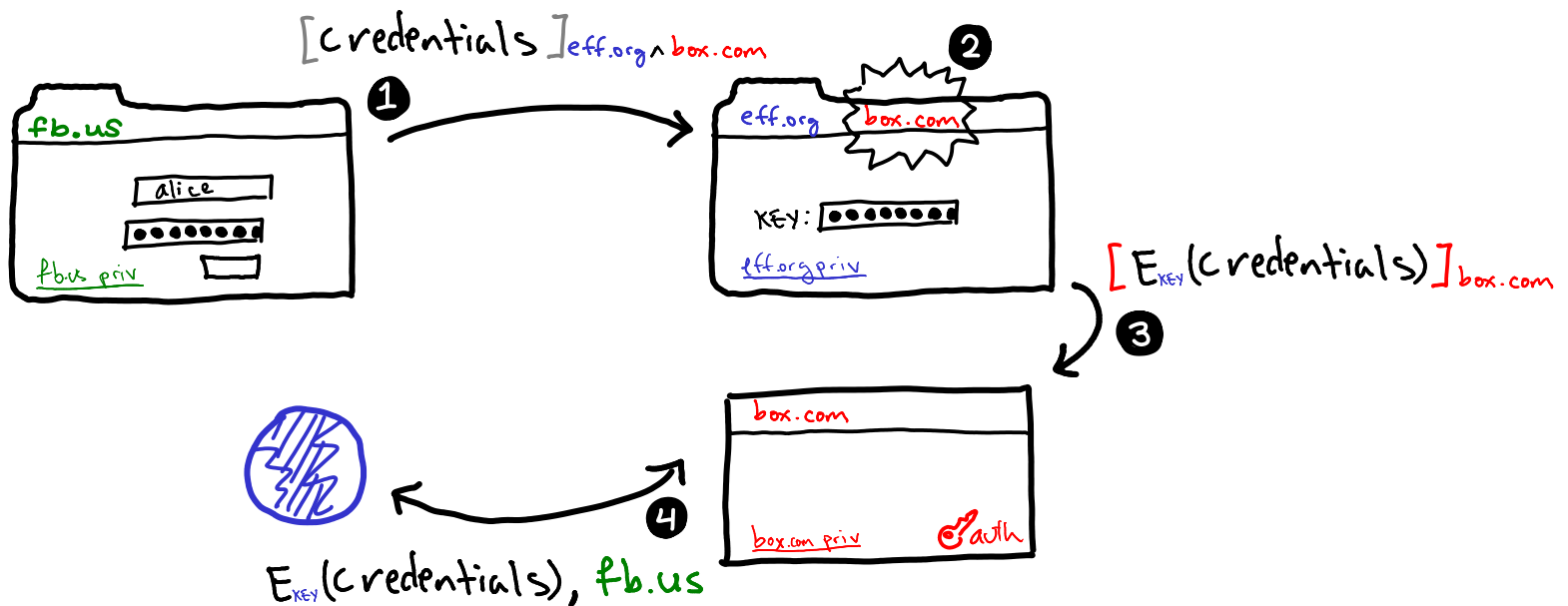
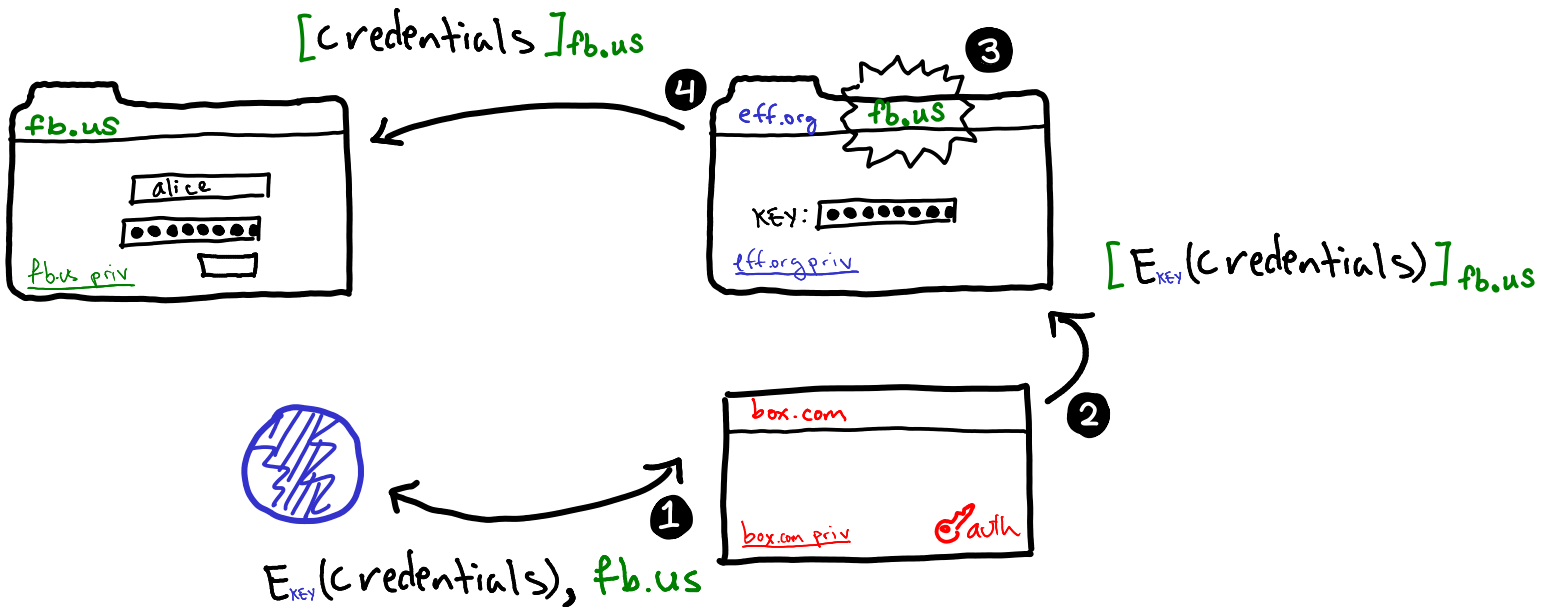


saving credentials



fb.us creates the two compartments, and (1) sends the manager code the credentials labeled with "eff.org \wedge box.com", as to ensure that the data must be declassified by "box.com" before being stored (server-side). The manager reads the credentials (2) and encrypts; importantly after reading the credentials it cannot arbitrarily communicate over the network. The encrypted credentials are sent to the storage layer (3) which simply saves them alongside ownership meta-data ("fb.us") on the server-side (4). (The red key is used to denote the box.com authentication data.)

retrieving credentials



fb.us creates the two compartments. The storage layer fetches the encrypted credentials from the the server (1) and simply labels the data with the label used on the server-side ("fb.com" and sends it to the manager layer (2). The mangement layer reads the encrypted credentials (2) and decrypts them with the user supplied key. Finally the credentials are sent to the fb.us page (4).