



End-to-End Encrypted Communications: Phone Apps (intermediate)

Learning Objectives

Learners will:

- Download an end-to-end encrypted communication app on their mobile devices.
- Practice sending a message to someone else.
- Practice making a phone call to someone else.
- Practice sending a group message.
- Verify keys/fingerprints/safety numbers with someone else (i.e. scanning QR codes or reading aloud and verifying in person).

Prerequisites

- Participants must have a mobile device with them if doing an install.
- Trainer has already done [threat modeling](#) with this group.
- Participants have completed the beginning part of this module.

Ratio

Instructor: Learners

1:5 (One instructor to five students)

Suggested Materials

- Projector
- If planning an install, participants should bring their smart phones with them.

GOTCHAS AND PROBLEMS YOU MIGHT HIT

- What if participants don't have their mobile devices?
- What if participants don't own their mobile devices, or feel that their devices are already compromised by malware?
- What if participants don't want to give their phone number? Do you have a backup activity, or a practice phone number they can contact?
- What if participants feel uncomfortable with other people in the room? What if people don't know each other?

Recommended Reading

- How to: Use WhatsApp for [Android](#) and for [iOS](#)
- [Communicating with Others](#)
- Our [OTR guides](#) may be relevant depending on how the Q&A goes and the needs of the group you are teaching.
- Our PGP guides (for [Linux](#), [Windows](#), and [Mac OS X](#)) may be relevant. However, if you decide to teach PGP, that is a separate training and requires quite a bit of time and explanation.

Lesson Content

Choose one of the following extended activities:

- How to: Use Signal for [Android](#) and for [iOS](#)
- How to: Use WhatsApp for [Android](#) and for [iOS](#)