Portable Network Kit (PNK)
Module 1 - Intro to PNK

Module 2.1 - Power
Module 2.2 - PoE / Crimping Cables

Module 3.1 - Networking Basics
Module 3.2 - Networking Basics / Router Function
Module 3.3 - Networking Basics / Firmware & Configuration

Module 4.1 - Local Server
Module 4.2 - Local Server: Set Up
Module 4.3 - Local Server: Community Design

Module 5.1 - Wireless Basics
Module 5.2 - Wireless Networks

Module 6.1 - PNK Build: Prepare and Organize Inventory
Module 6.2 - PNK Build: Prepare the Case / Power
Module 6.3 - PNK Build: Networking Gear (Router)
Module 6.4 - PNK Build: Configure the Server
Module 6.5 - PNK Build: Unifi Controller / Adopt the APs
Module 6.6 - PNK Build: Install/Cable the Equipment

Module 7 - Test & Deploy

Module 8.1 - Governance
Module 8.2 - Resiliency
Module 1 - Intro to PNK

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Summary

1. What is a PNK
2. Objective:
   a. Participants will understand what a Portable Network Kit (PNK) is
   b. Participants will be able to identify the necessary parts to build a working PNK
   c. Participants will explore scenarios in which a portable network kit can facilitate community resilience
3. Time Allotment: 60 minutes

Learning Sequence

a. Idea - Kits, Internet, Networks, Ownership (10min)
b. Facts - What is a PNK? / PNK Vocab / Parts (15mins)
c. Activity - Let’s Draw a PNK! / Let’s Draw a Network! (20mins)
d. Ownership - Present your Network Drawing / Next Steps (15mins)

Materials & Resources

- Pen / Paper for each participant
- Anatomy of a PNK PDF or Slides
- Basic PNK components (router, server, antenna, cables, powerstrip)
- Internet connection
- WiFi enabled device (preferably a cellphone and a laptop)

Glossary

- Router, Access Point, Server, Raspberry Pi, Local Network, Power, Ethernet