Guide for setting up Raspberry Pi with Comitup for headless Wi-Fi configuration

Required hardware :

1. Raspberry Pi Zero Wireless WH (Pre-Soldered Header)

   https://robu.in/product/raspberry-pi-zero-wireless-wh-pre-soldered-header/

2. Standard 5V 3A Power Supply with Micro USB Plug
3. SanDisk Micro SD/SDHC 32GB Class 10 Memory Card

Steps:

1. **Download Comitup Image**: Download the Comitup Raspberry Pi OS image (Lite or full version) from the official website. (`https://davesteele.github.io/comitup`/)
2. **Flash the SD Card**: Use an imaging tool (**balenaEtcher** software) to write the image to the SD card (Prefer 32GB).
3. **Insert SD and Boot**: Insert the SD into the Raspberry Pi and power it **ON**. **SSH** is enabled by default; use **`comitup`** (case-sensitive) as both username and password.
4. **Access Comitup Network**: If no known Wi-Fi is detected, a `comitup-xxxx` AP will appear.
5. **Web Interface**: Connect to this AP and go to `http://comitup.local` `or` **10.0.0.2/24** to manage network connections.
   Note: Once your Raspberry Pi boots up, wait a moment and check your Wi-Fi networks on your phone. You should see an open access point named `comitup-XXX`. Connect to it, and a web interface will automatically open. Select your Wi-Fi router from the list, enter the router password, and submit. The Raspberry Pi will try to connect to your Wi-Fi. Once connected, you can access the Pi via SSH using software like Putty, enabled by default for remote management.
6. Download Putty from https://www.putty.org/
7. **Network Scanner App**: Use an app like **Fing** (iOS/Android) or **Advanced IP Scanner** `(https://www.advanced-ip-scanner.com/)`(Windows) to scan your network and locate devices, including the Raspberry Pi.
8. After Getting Raspberry pi IP address, You can connect Raspberry pi via Putty software.
9. **Connect via SSH**: Once you have your Raspberry Pi's IP address, use Putty to connect over SSH.
10. **Login**: Enter the username (`comitup`) and password (`comitup`). The password won't show as you type—just type it carefully and press Enter.
11. **Access Terminal**: You're now logged in to the Raspberry Pi's terminal.
12. **Enable VNC Server**:
    - Run `sudo raspi-config`.
    - Go to **Interface Options** > **VNC** > **Enable**.
    - If using Comitup Lite, install a GUI first with `sudo apt-get install lightdm`.

13. **Set Auto Login (GUI)**: In **System Options** of `raspi-config`, set the boot to auto-login to GUI.
14. **Install VNC Viewer**: Install VNC Viewer on your computer, create an account, and log in.
15. **Connect**: In VNC Viewer, enter the Raspberry Pi's IP address and log in with your Pi's default credentials.
16. **Cloud Access**: For remote access, add the Pi to VNC Cloud; free accounts allow up to 5 systems.