WiFi Pineapple
Quick Start Guide

Version 1.0.1 - 3-8-2012
WiFiPineapple.com

Find the latest firmware at WiFiPineapple.com

TETHERING - LINUX

We've made using the WiFi Pineapple Mark IV with Linux tethering very simple. By default the WiFi Pineapple has an IP address of 172.16.42.1 and will assign clients IP addresses in the range of 172.16.42.100-150 via DHCP. Its default gateway is set to both 172.16.42.42 and 172.16.42.1 depending on usage (Tethering or USB Modem respectively).

This means the WiFi Pineapple is looking for an Internet connection from the device with the IP address of 172.16.42.42. A simple quick-connect script is provided at http://wifipineapple.com/wp4.sh. Downloading and running the script will walk you through the process of setting up the Ethernet interface and configuring IP Forwarding for Internet Connection Sharing.

Power the WiFi Pineapple on and directly connect it to the host PC via Ethernet cable. Download and run the quick-connect script. Example: wget wifipineapple.com/wp4.sh; chmod +x wp4.sh; ./wp4.sh

Answer the questions as prompted and when complete the WiFi Pineapple is ready to use. Now access the WiFi Pineapple Control Center by pointing your web browser to http://172.16.42.1/pineapple/ and login with username "root" and password "pineapplesareyummy"

TETHERING - WINDOWS

While there is no quick-connect script for Windows 7 currently, it is fairly simple and straight forward to setup. First we must understand that by default the WiFi Pineapple has an IP address of 172.16.42.1 and like a regular WiFi Router we assign client's IP addresses in the range of 172.16.42.100-150. It also expects its Internet connection from either 172.16.42.1 (USB modem) or 172.16.42.42 (Tethering).

So if the Windows 7 hosts's wired Ethernet adapter is configured with a static IP address of 172.16.42.42 and the Internet-facing adapter (for example from another WiFi network or a USB 3G/4G mobile broadband modem) is configured for Internet Connection Sharing, clients connecting to the WiFi Pineapple will get online through the Windows 7 host's Internet connection.

Begin by powering on the WiFi Pineapple and directly connecting an Ethernet cable between it and the host Windows 7 PC. Then click START, type VIEW NETWORK CONNECTIONS and press ENTER. Right-click the Internet-facing adapter and click PROPERTIES. From the Sharing tab check the box labeled ALLOW OTHER NETWORK USERS TO CONNECT THROUGH THIS COMPUTER'S INTERNET CONNECTION. From the Home Networking connection drop-down select the wired Ethernet adapter directly connected to the WiFi Pineapple, typically "Local Area Connection." Click OK then YES to the warning.

Next Right-Click the Wired adapter directly connected to the WiFi Pineapple and click PROPERTIES. Select "Internet Protocol Version 4 (TCP/IP)" and click PROPERTIES. Check "Use the following IP address" and specify 172.16.42.42 for the IP address and 255.255.255.0 for subnet. Leave the default gateway blank. Next check "Use the following DNS server addresses" and specify 8.8.8.8 for Preferred DNS server. Click OK then OK again.

The WiFI Pineapple-facing and Internet-facing adapters have been configured and Internet Connection Sharing has been enabled. Now open your web browser and navigate to http://172.16.42.1/pineapple logging in with the username "root" and password "pineapplesareyummy".

MOBILE BROADBAND MODEMS

The WiFi Pineapple provides out-of-the-box support for a select few 3G and 4G USB mobile broadband modems. The 3G connection script can be found from the 3G tab at the top of the Pineapple Control Center Web Interface and is updated with new modem support at WiFiPineapple.com. The USB Mode Switch and SDPARM utilities have been included to support most modems. Please check the WiFi Pineapple forums and wiki for additional information on these devices.

DISCLAIMER

The WiFi Pineapple is a wireless penetration testing tool for use in authorized security audits where permitted. Check laws and obtain permission before using. Hak5, LLC. and affiliates claim no responsibility for unauthorized use or damages. Please hack responsibly.

SUPPORT

Software updates, related segments from the Hak5 show, articles from the Hak5 blog, and the WiFi Pineapple / Jasager forums are linked from the WiFiPineapple.com site. Concerns regarding orders can be addressed to shop@hak5.org.

BRICKING - A word of caution:

The WiFi Pineapple Mark IV uses the U-Boot bootloader. Similar to the BIOS on a desktop PC, this special piece of code is executed first and is responsible for loading the operating system. Unless you are specifically in the bootloader (accessible only via serial), or overwriting memory locations by some other means, you are very unlikely to "brick" the unit. Under normal circumstances the WiFi Pineapple will be accessible from the WiFi SSID "Pineapple" (configurable) and the Ethernet (PoE LAN) Interface at 172.16.42.1. We strongly advise you not to change network configurations (accessibly only manually via SSH in /etc/config) unless you possess advanced networking knowledge. In the event that network access to the WiFi Pineapple is unachievable a separate recovery process can be found at WiFiPineapple.com. This involves special hardware (a 3.3v Serial TTL adapter), Ethernet cable, COM software and TFTP. If you are unable to follow the recovery flashing guide at WiFiPineapple.com you are advised to contact shop@hak5.org for further assistance.

ACCESSING THE WIFI PINEAPPLE

The WiFi Pineapple can be accessed via Ethernet (PoE / LAN port) or WiFi (SSID "pineapple"). The web interface can be found at http://172.16.42.1/pineapple/ . The default username is "root" and password "pineapplesareyummy". Most tools such as Karma, urlsnarf, dnsspoof, mobile broadband, and ssh tunnels are configurable via the Web Interface. Advanced users can access cracking tools such as Aircrack-ng and Reaver-WPS from a shell via SSH.

SPECIFICATIONS

Dimensions: 90mm x 60mm Chipset: Atheros AR9331 Wireless: 802.11 b/g/n
Interface: 2x 10/100 Ethernet, 1x USB 2.0, I-PEX with RP-SMA pigtail
Power: AC Adapter accepts 100-240V ~ 50/60Hz 0.5A (UK/EU adaptable)
Output: DC 12V 1A. Plug: Barrel 5.5mm OD 2.1mm ID center positive
Observed requirements: Using a USB power pack providing 5V we have observed 1A draw at idle with no WiFi. 1.7A draw with WiFi enabled and 3.5A - 5.5A draw with USB 3G / 4G modems. Some modems may require a powered hub for reliable continuous operation with 5V supply.

DEFAULT SETTINGS

Username: root   Password: pineapplesareyummy   SSID: Pineapple   IP Address 172.16.42.1

WiFiPineapple.com courtesy HakShop.com of Hak5.org - Inquiries: Shop@Hak5.org