

Mikrotik First Install Checklist

Steps to take on your computer	Steps to take on your node hardware
<input type="checkbox"/> Download the AREDN® initramfs-kernel and sysupgrade.bin files for your device from arednmesh.org	<p style="text-align: center;"><i>None</i></p>
<input type="checkbox"/> Verify your computer has a working PXE server program and rename the initramfs-kernel file to rb.elf . Copy rb.elf to the PXE server's TFTP directory.	<p style="text-align: center;"><i>None</i></p>
<input type="checkbox"/> Set up a simple Ethernet switch to manage connections between your computer and the device being flashed	<p style="text-align: center;"><i>None</i></p>
<input type="checkbox"/> Set your computer's Ethernet interface to a static IP address of <i>192.168.1.10</i>	<p style="text-align: center;"><i>None</i></p>
<input type="checkbox"/> Connect your computer's Ethernet port to an open port on your Ethernet switch	<input type="checkbox"/> Connect the PoE's <i>LAN</i> port to an open port on your Ethernet switch <input type="checkbox"/> With the PoE unit powered off , connect the PoE's <i>POE</i> port to the Ethernet port of the device
<input type="checkbox"/> Verify its configuration and start your PXE server	<input type="checkbox"/> Press and hold the <i>Reset</i> button on the device, then power on the PoE unit <input type="checkbox"/> Continue holding the <i>Reset</i> button until you verify that data was sent from your computer, then release the reset button
<input type="checkbox"/> Once the elf file has been sent from your computer, you can stop the PXE server	<input type="checkbox"/> After the elf image is uploaded, the device will process it and reboot <i>(this process takes several minutes)</i>
<input type="checkbox"/> For <i>Mikrotik hAP ac devices</i> , disconnect the Ethernet cable from the WAN port (1) on the Mikrotik and insert it into one of the LAN ports (2,3,4) before you proceed. <input type="checkbox"/> After the node has finished rebooting, verify it is reachable by pinging 192.168.1.1 <input type="checkbox"/> Open a web browser and enter http://192.168.1.1 as the URL	<input type="checkbox"/> Click the <i>Setup</i> button and login with user = root & pwd = hsmm <input type="checkbox"/> Navigate to <i>Administration > Firmware Update</i> and browse to select the sysupgrade.bin file you previously downloaded <input type="checkbox"/> Click the <i>Upload</i> button and wait for the node to reboot again
<input type="checkbox"/> After the node has finished rebooting, you again open a web browser and enter http://192.168.1.1 as the URL	<input type="checkbox"/> Click the <i>Setup</i> button and login with user = root & pwd = hsmm <input type="checkbox"/> Configure your new node with your callsign and password <input type="checkbox"/> Click <i>Save Changes</i> and the node will reboot
<input type="checkbox"/> Set your computer's Ethernet interface to get an IP address automatically using DHCP, then disconnect & reconnect the Ethernet interface. Open a web browser & enter http://localnode to login to your node.	