

# Mikrotik First Install Checklist

Steps to take on your computer	Steps to take on your node hardware
<input type="checkbox"/> Download the AREDN® <b>factory.elf</b> and <b>sysupgrade.bin</b> files for your device from <a href="http://arednmesh.org">arednmesh.org</a>	None
<input type="checkbox"/> Verify your computer has a working <b>PXE</b> server program and copy the <b>factory.elf</b> file into its TFTP directory. Rename <i>factory.elf</i> to <b>rb.elf</b>	None
<input type="checkbox"/> Set up a simple Ethernet switch to manage connections between your computer and the device being flashed	None
<input type="checkbox"/> Set your computer's Ethernet interface to a static IP address of <i>192.168.1.100</i>	None
<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 <b>off</b> , connect the PoE's <i>POE</i> port to the Ethernet port of the device
<input type="checkbox"/> Verify its configuration and start your <b>PXE</b> 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 <b>elf</b> file has been sent from your computer, you can stop the <b>PXE</b> server	<input type="checkbox"/> After the <b>elf</b> image is uploaded, the device will process it and reboot (this process takes several minutes)
<input type="checkbox"/> For <i>Mikrotik hAP ac lite</i> only, 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 <a href="http://192.168.1.1">http://192.168.1.1</a> as the URL	<input type="checkbox"/> Click the <i>Setup</i> button and login with user = <b>root</b> & pwd = <b>hsmm</b> <input type="checkbox"/> Navigate to <i>Administration &gt; Firmware Update</i> and browse to select the <b>sysupgrade.bin</b> 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 <a href="http://192.168.1.1">http://192.168.1.1</a> as the URL	<input type="checkbox"/> Click the <i>Setup</i> button and login with user = <b>root</b> & pwd = <b>hsmm</b> <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 <a href="http://localnode">http://localnode</a> to login to your node.	