

# MikroTik Firmware

MikroTik RouterOS v6 firmware is generally stable. We are currently using 6.49.11 (some run 6.49.12)

Do not use version 7 (not yet supported) or version 6.47/6.48/6.49.2 (occasional hangs)

## routerOS v6

Download 6.49.11 [OmniTik \(mipsbe\) here](#) and [SXTsq \(arm\) here](#)

Remember that OmniTiks use the "mipsbe" firmware and SXT's use the "arm" firmware due to different processors.

We have documented issues with 6.47/6.48/6.49.2 so don't use them.

We have many OmniTiks running 6.49.11 without any problem.

Note: with some OmniTiks in some cases it seems the memory gets used up and not released. When we encounter such a device we add a script that automatically reboots the OmniTik between 2 & 3am when the memory usage reaches 75%.

Connect to your Omni via ssh and copy & paste [these lines](#). This will add a script and schedule the script to run every 15m.

Slack discussion [here](#).

## RouterOS v7

Don't use it yet - it won't work!

This has finally been released but it doesn't work with our configuration yet. We keep testing it as we are eager to deploy the newly added WireGuard. If you are interested in beta-testing the WG setup, post in the #software-firmware channel on Slack.

If you need to downgrade, read the [instructions here](#)

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Mikrotik devices come in a variety of architectures and form-factors. Fortunately the firmware versioning and build levels are the same across all platforms. The main variant is the architecture, which might be a different chip for each device model.

We usually use the stable version of RouterOS 6 (currently **6.49.11**, though some are running 6.9.12)

Below is a table of the 6.49.6 firmware for Mikrotik devices that are used on the mesh:

Model	Architecture	Firmware link
OmniTik 5ac	MIPSBE -6.49.11	<a href="#">Download</a>
SXTsq ac	ARM -6.49.11	<a href="#">Download</a>
hAP ac^2	ARM	<a href="#">Download</a>
CCR Series	TILE	<a href="#">Download</a>
hAP mini	SMIPS	<a href="#">Download</a>
hAP lite	SMIPS	<a href="#">Download</a>

## Installing firmware

- Login to your Mikrotik box Web UI (or CLI if you know how)
- Go to WebFig > Files section, upload the firmware file
- Reboot the router
- The firmware version is visible at the top of the Web UI: watch for the new version

Alternatively

- if your device has Internet access you can use the GUI: go to System, Package, Check for update, download & install

or

- ssh in and type `/system package update install`

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