

# Cluster HAT

## How do I change a Cluster HAT image type (Controller/NAT/P1/P2/P3/P4/etc.)?

If you're using an newer style Cluster CTRL image (the file /etc/default/clusterctrl exists) please follow [Cluster CTRL](#) instructions.

On the Cluster HAT images there are three types of image.

controller - Bridges eth0 on the controller to usb0 on the nodes (Pi Zeros).

cnat - Pi Zero have network access via either WiFi or Ethernet on the controller via NAT ([Network Address Translation](#)).

pX - Node image for each Pi Zero (replace X with the Pi Zero number, p1, p2, p3, p4, etc.).

All ClusterHAT images start out life as a "controller" image, they're then reconfigured on first boot to be either of the types above.

To change the type edit the cmdline.txt file in the boot partition, this can be done either on a booted system `"/boot/cmdline.txt"` or from another machine editing the file on the USB/SD card.

Append `"init=/sbin/reconfig-clusterhat X"` to the end of the line replacing X with the type above (this must be a single line).

During the next boot the Pi will reconfigure and change the hostname to `controller/cnat/p1/p2/p3/p4/etc`.

Unique solution ID: #1098

Author: n/a

Last update: 2019-07-19 18:43