

# Using Panucci

April 18, 2017

## **1 What is Panucci?**

Panucci is a network-based testing and imaging platform, with a goal of simplifying the workflow of a computer buildout operation to make a single-piece flow viable and productive.

## **2 Intended workflow**

1. Gather empty units for orders
2. Grab a single unit
3. Install HDD and RAM into unit
4. Connect unit to server and input/output
5. Power on unit
6. Continue building and adding units as unit tests
7. Upon test completion, begin imaging
8. After imaging, verify correct boot
9. Send unit to shipping

### 3 Features

- Single workflow for all units
- Built-in partitioning and image creation
- Software allows for adding modular hardware
- HDD Testing (using `smartctl` and `seeker`)
  - Linear Write Speed
  - Linear Read Speed
  - SMART Short Self-Test
  - SMART Health Check
  - Random Seek Test
- RAM testing using `memtester`
- Automatic integration with SellerCloud using the `ScrubDeKu` gem
- Support for label printing
- Basic logging, with upcoming support for a database logging system
- Used with `Seymour`, a script for creating a full image tree off of one image
- Simple interface built on CSS and HTML, allowing easy modification and updating

## **4 Basic Use**

This section assumes you have already created a working PXE server for Panucci, and are able to boot into it. See document "Creating A PXE Server" for information on this. These instructions assume your existing setup followed the same basic setup as that detailed in "Creating a PXE Server".

### **4.1 Starting the server**

The server for Panucci can simply be powered on. As long as there are no errors, it will automatically begin serving up the needed files.

### **4.2 Booting Panucci**

To begin using Panucci, after building out a unit with RAM and HDD, connect it to appropriate network port and power it on. Assuming a blank drive, network boot should be automatic as long as the unit supports it.

### **4.3 Testing in Panucci**

Testing begins automatically on boot. Users can monitor testing on the displayed status.

### **4.4 Order Verification**

Panucci supports order verification using SellerCloud