Risk and Prototype Plan

# Risk Identification:

1. **Technical risk - Hardware too weak**

The hardware that we selected may be too weak to ensure a smooth user experience with common applications such as WordPress. To mitigate this, we decided to keep hardware options flexible, and upgrade to better hardware if needed. We have started by ordering two different hardware configurations: a Raspberry Pi and a CubieBoard for comparison. We can finally add optimizations to try to increase the performance.

2. **Competition**

Synology has similar software running on their NAS solutions. However, the administration UI tries to emulate a desktop interface, but we believe that this does not give the best user experience. We will focus on this area, as well as on price (since our solution does not require a NAS and an extra hard drive). Additionally, Synology is focusing on their NAS, while we are focusing on the server component.

3. **Target market**

We need to convince people that they need our product. We will need to focus on user stories. Alternatively, we can retarget our product; change our product to fit a niche.

# Prototype plan:

We will be using both experimental and evolutionary prototypes for our project. For our UI based tasks, we will be using experimental prototyping, and mock-ups to pick the most suitable interfaces to our system. For the back-end oriented tasks, we will be using evolutionary prototypes and iterate on our solution.

For the UI prototypes, we are planning to make around 10 mock-ups over the term, and pick 3 or 4 of them to build into a prototype. For the back-end package management system, we will have a few evolutionary prototypes. In the first version, we will support initial setup, basic installation, and uninstallation and network configuration. We will also integrate it with the UI prototypes. We also plan to prototype some apps that will eventually be running on this server. We will aim to complete this by June 7th 2014.

* Pkg install
* Pkg uninstall
* Network config
  + Ports
  + www/ reverse-proxy
* notifications
* Misc admin
  + Skins
  + User management
  + Domain management
  + Monitoring (meters, logs, etc)
  + Backups
  + Preferences
  + Reboot
* TLS/ SSL