

## Software Installation

With a fresh install of Ubuntu 18.04 x64 run these commands as a normal user (not root)

```
# sudo apt install unzip
# wget https://github.com/Jacoblairm/desktop-provisioning-system/archive/master.zip
# unzip master.zip
# cd desktop-provisioning-system-master
# sudo chmod +x install.sh
# sudo ./install.sh
```

The system will then take around 5 minutes to install.

Please reboot the system to ensure all services are correctly started.

You should now be able to access the website at *http://[Your.Ip.Address]* or *http://[Your.Hostname]*

After software installation, it is recommended to change the admin password.

Login with admin credentials, username: "admin", password: "password". Then press "admin" at the top of the page. Then go to "Users", enter the new admin password and press "Submit".

## Configuration

Edit `/var/www/html/settings.php` to your desired configuration.

This file allows you to change certain image directories, virtual machine settings, network settings, and miscellaneous system settings.

**Note** - All directories and images you use are required to have full read/write access

## Image Installation

This system only supports the `.qcow2` image format.

Place your `.qcow2` base images to the directory that you have set in the settings.php

**Note** - Ensure all images have full read/write permissions.

## Image Conversion

Throughout building this system, I mainly used the Cisco netacad laboratories (CCNA Cyber Ops) for testing purposes. These laboratory activities require you to install virtual machines to Virtualbox VMware using a provided `.vmdk` image file (which is the format used by Virtualbox VMware). To use these images in this system, they need to be converted into a usable format - `qcow2`.

### **Convert `.vmdk` to `.qcow2`**

```
# qemu-img convert -f vmdk -O qcow2 inputimage.vmdk outputimage.qcow2
```

### **Convert Multipart `.vmdk` to single `.qcow2`**

```
# files=(DirectoryOfMultipartVDMK*); qemu-img convert -f vmdk -O qcow2 ${files[@]}  
${files%-s001.vmdk}.qcow2;
```