3- Authentication

blah blah blah

3.1- Building the Authentication Software

blah blah blah

3.2- Authenticating Applications

To authenticate a hybrid or game application, you will need the following items:

- ƒ the application to be authenticated
- ƒ a ZIP-100 disk cartridge
- ƒ the secure laptop
- ƒ appropriate passwords

The secure laptop is kept in a locked location. Keys to that location and the passwords needed to perform the authentication procedure can be obtained from one of the following people:

- ƒ Christopher Heiny
- ƒ Matthew Halfant
- ƒ Tim Otholt

> **Important:** The secure laptop contains extremely sensitive proprietary information. It must never be connected to the VM Labs network or the Internet. Do not connect it to a phone line or Ethernet drop.

Perform the following steps to authenticate your application.

1. Copy the application to the ZIP-100 disk cartridge. Typically, applications to be authenticated are placed in the `/nuon/` directory, but this is not required.

2. Fetch the secure laptop from its home, plug it in, hook up its ZIP drive, and power it on. Wait for it to boot, and for X to start.

3. Login as user `vmlabs`. Wait for Enlightenment to start.

4. Mount the ZIP drive
   ```
   mount /mnt/zipdos
   ```

5. Go to the `bless` directory
   ```
   cd bless
   ```

> **Note:** You must be in the `bless` directory for the `makeapp` tool to work correctly.

6. Invoke the makeapp tool to bless your application and create the authenticated output.
   ```
   ./makeapp /mnt/zipdos/nuon/appname digit
   ```
   where `digit` is either `0` for games or `1` for hybrid applications. If omitted, `digit` will default to `0`. `appname` must include the appropriate extension for the file (for example, `.cof`, `.run`, and so on).

7. You will be prompted for the passphrase at this time. Enter the passphrase you received (along with the other passwords).

> **Note:** If you have several files to bless, you can simply put them all on the ZIP cartridge and just execute steps 6 and 7 for each file. Then proceed to step 8.

8. Once the process is complete, there will be a file *appname*`.app` in the `/mnt/zipdos/nuon/` directory. Typically, this is copied to the `nuon-auth` directory, but this step is not required.

   `mv /mnt/zipdos/nuon/*.app /mnt/zipdos/nuon-auth/`

9. Unmount the ZIP drive.

   `umount /mnt/zipdos`

   and pop out the ZIP cartridge.

10. `su` to root and shutdown the system

    `su -`
    `password:`
    `shutdown -h now All done`

11. Wait for the secure system to shut down, and then close it up, unplug the connectors, and return it to its home.

3.3- Authenticating Drivers

blah blah blah