







Requirements

- USB Drive or download of work files: http://bit.ly/imagrlab
- OS X Installer: Matching the version of OS X your Mac is running (10.10 Minimum)
- VMware Fusion Professional: A trial version is fine. Must be Professional version to NetBoot.

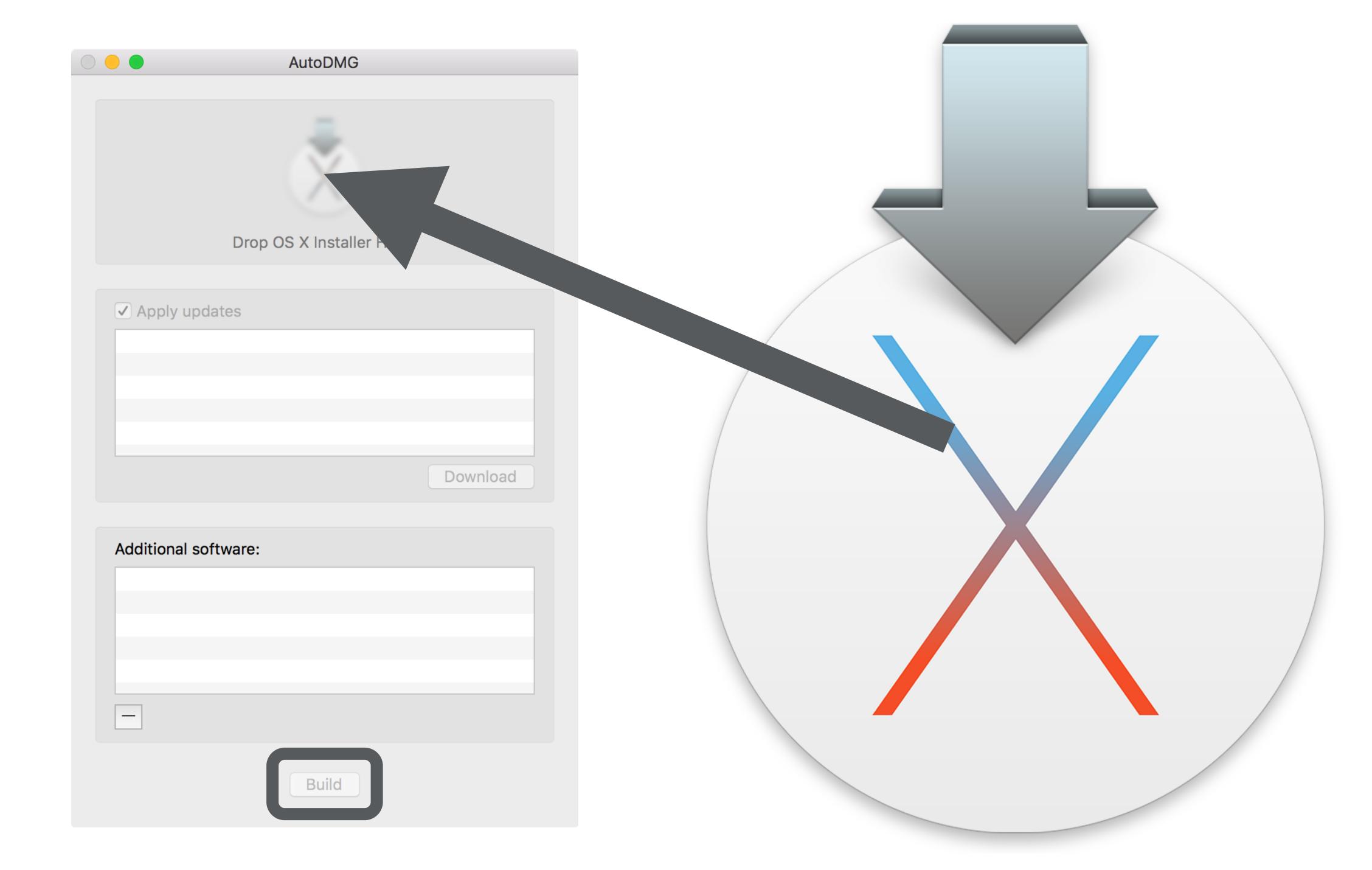
Agenda

Long Boring Prep

AutoDMG

- Creates a Never Booted Image.
- Really, really simple.
- I mean really simple..





Last prep

Honest!

- Text Editor.
- Copy everything to your home directory.
- Install Docker Toolbox.

Start Docker Machine

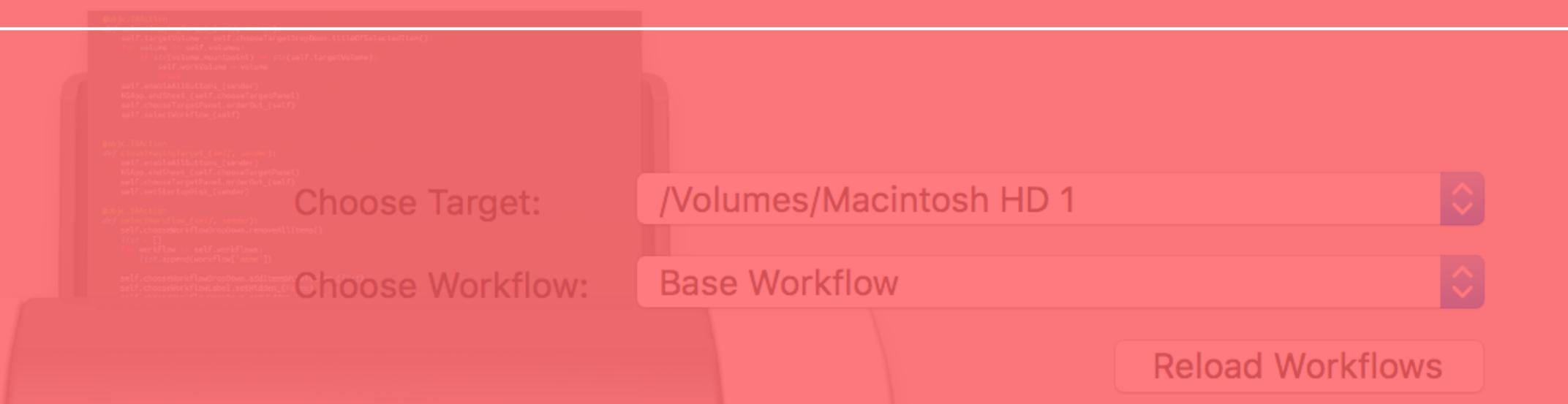
- \$ cd somewhere/Imagr_Lab
- \$ Scripts/machine.sh

Start Docker Machine

- \$ docker-machine env vmwaredocker
- \$ eval "\$(docker-machine env vmwaredocker)"

Start Docker Machine

- \$ cd somewhere/Imagr_Lab
- \$ Scripts/import.sh



What is Imagr?

Imagr is an open source deployment tool for Macs

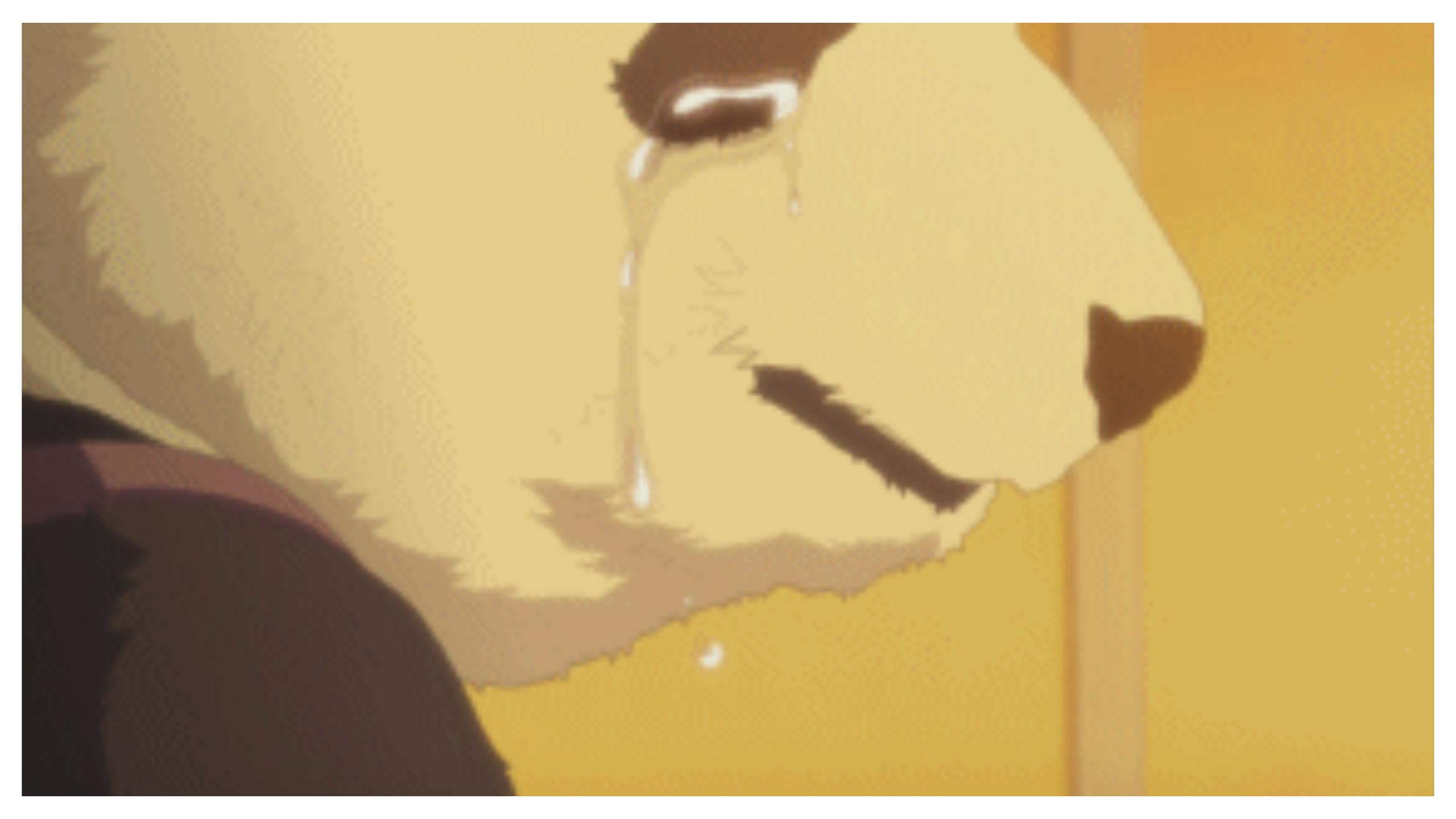
Uses a simple web server

No OS X Server required

No OS X "Server" required



Open Source



Can replace DeployStudio for most people

Growing community

Configured with a plist

Scripts/
genpassword.sh

```
#!/bin/bash
```

python -c 'import hashlib; print
hashlib.sha512("YOURPASSWORDHERE")
.hexdigest()'

Generating the password

- \$ cd somewhere/Imagr_Lab
- \$ Scripts/genpassword.sh

Data/web_root/ imagr_config.plist

```
<?xml version="1.0" encoding="UTF-8"?>
<!DOCTYPE plist PUBLIC "-//Apple//DTD PLIST 1.0//EN" "http://www.apple.com/</pre>
DTDs/PropertyList-1.0.dtd">
<pli><pli><pli><pli><pli>0">
<dict>
  <key>password</key>
<string>b109f3bbbc244eb82441917ed06d618b9008dd09b3befd1b5e07394c706a8bb980b
1d7785e5976ec049b46df5f1326af5a2ea6d103fd07c95385ffab0cacbc86</string>
  <key>workflows</key>
  <array>
    <dict>
      <key>name</key>
      <string>Imagr Workflow</string>
      <key>description</key>
      <string>A demo workflow made in the Imagr Lab session.
      <key>components</key>
      <array>
      </array>
    </dict>
  </array>
</dict>
</plist>
```

Workflows

Components

```
<?xml version="1.0" encoding="UTF-8"?>
<!DOCTYPE plist PUBLIC "-//Apple//DTD PLIST 1.0//EN" "http://www.apple.com/DTDs/</pre>
PropertyList-1.0.dtd">
<plist version="1.0">
<dict>
  <key>password</key>
 <string>b109f3bbbc244eb82441917ed06d618b9008dd09b3befd1b5e07394c706a8bb980b1d7785e59
76ec049b46df5f1326af5a2ea6d103fd07c95385ffab0cacbc86</string>
  <key>workflows</key>
  <array>
    <dict>
     <key>name</key>
      <string>Imagr Workflow</string>
      <key>description</key>
      <string>A demo workflow made in the Imagr Lab session.
      <key>components</key>
      <array>
     </array>
    </dict>
  </array>
</dict>
</plist>
```

```
<dict>
     <key>type</key>
     <string>image</string>
     <key>url</key>
     <string>http://YOURIPADDRESS/your-autodmg.dmg</string>
</dict>
```

```
<dict>
     <key>type</key>
     <string>computer_name</string>
</dict>
```

```
<dict>
 <key>type</key>
 <string>script</string>
 <key>content</key>
 <string>#!/bin/bash
/usr/bin/csrutil netboot add 10.10.10.10
/usr/bin/csrutil netboot add 10.10.10.11
</string>
   <key>first_boot</key>
    <false/>
</dict>
<dict>
    <key>type</key>
   <string>script</string>
   <key>content</key>
    <string>#!/bin/bash
/usr/sbin/systemsetup -f -setremotelogin on</string>
</dict>
```



Validating the plist

- Apps/Imagr.dmg
- Volumes/Imagr/Tools: Copy to your internal drive

Validating the plist

```
$ cd /SOMEWHERE/Tools
$ ./validateplist http://
YOURIPADDRESS/imagr_config.plist
```

Has AutoDMG finished?

The NBI

Tools/config.mk

URL=http://YOURIPADDRESS/imagr_config.plist
DMGPATH=/SOMEWHERE/Imagr_Lab/Apps/Imagr.dmg
OUTPUT=/SOMEWHERE/Imagr_Lab/Data/web_root/Imagr.nbi

Build your NBI

\$ make update

Copy AutoDMG image to Data/web_root



Start your containers

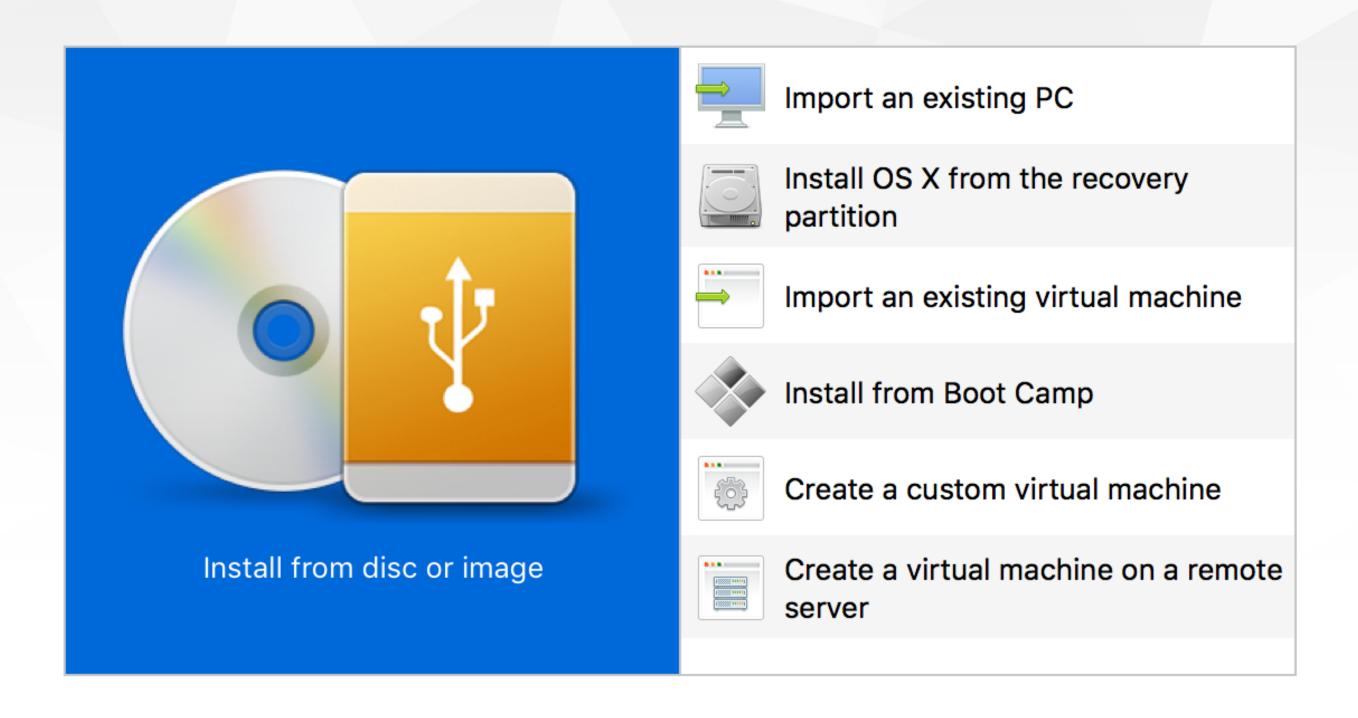
- \$ cd somewhere/Imagr_Lab
- \$ Scripts/start-docker.sh

Start your containers

\$ docker logs bsdpy

Time to NetBoot

Select the Installation Method



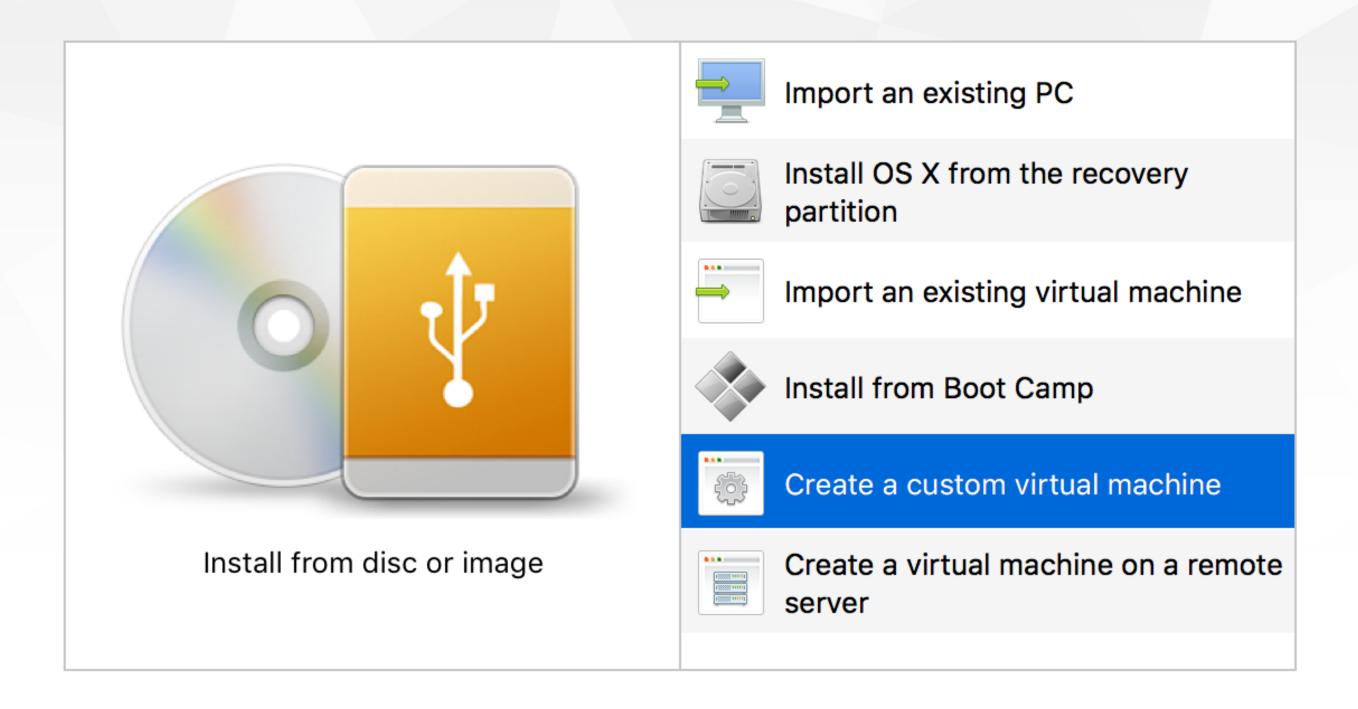
?

0 0 0

Cancel

Continue

Select the Installation Method



?

0 0 0

Cancel

Continue



Select the operating system to be used in this virtual machine.

Select the operating system for this virtual machine:

000

Microsoft Windows	▶	OS X 10.11
Apple OS X	•	OS X 10.10
Linux	•	OS X 10.9
Novell NetWare	•	OS X 10.8
Solaris	•	Mac OS X 10.7
VMware ESX	•	Mac OS X 10.7 32-bit
Other	•	Mac OS X Server 10.6
		Mac OS X Server 10.6 32-bit
		Mac OS X Server 10.5
		Mac OS X Server 10.5 32-bit

? Cancel Go Back Continue

Choose a Virtual Disk

Select a virtual disk to be used with this virtual machine.

Choose a virtual disk option:

- Create a new virtual disk
- Use an existing virtual disk

Choose virtual disk...

Guest OS: OS X 10.11

Option: New Hard Disk

Capacity: 40 GB

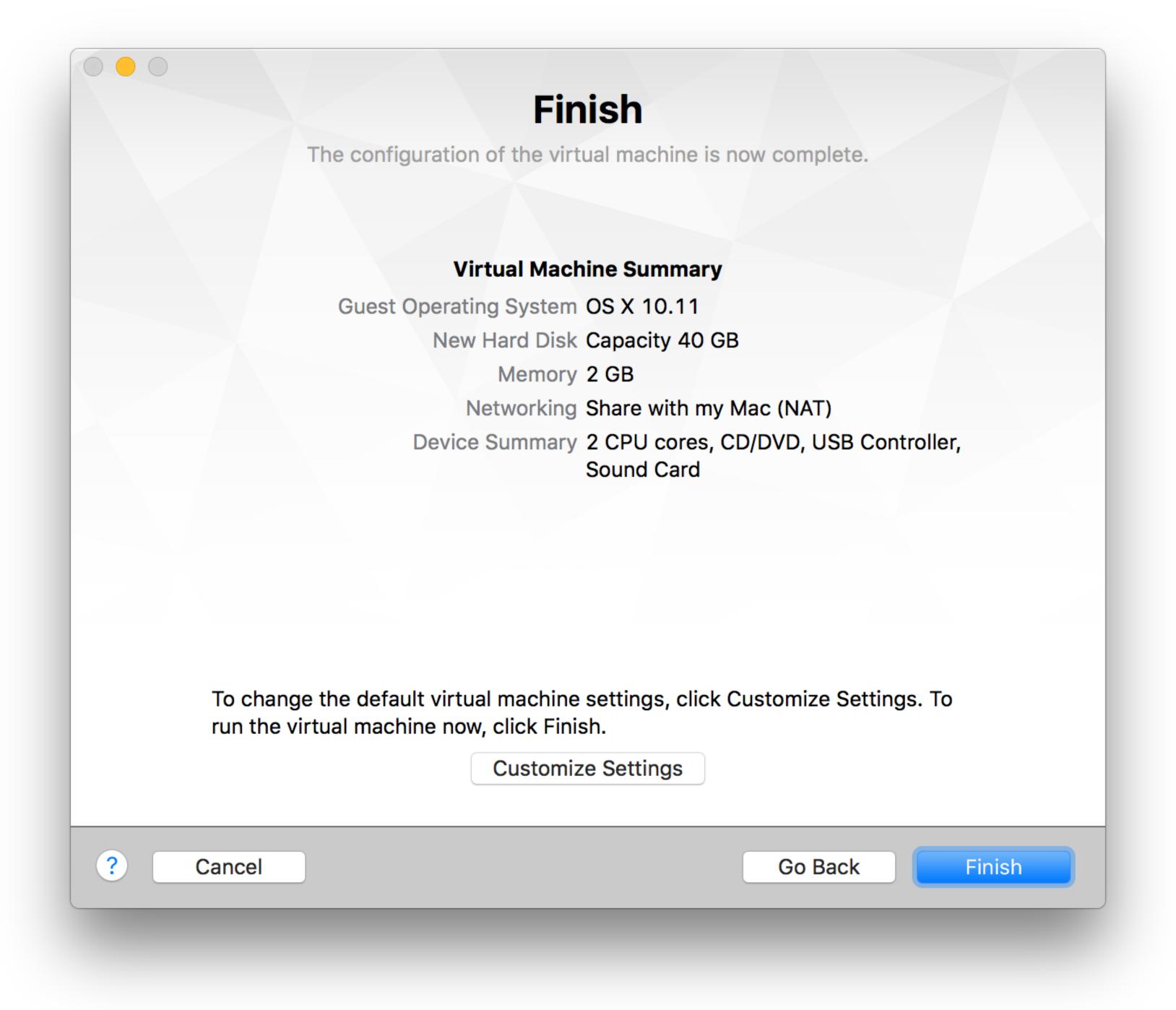
?

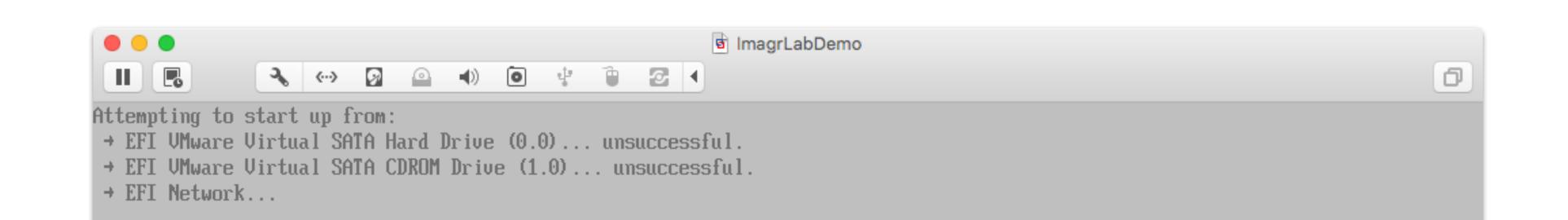
000

Cancel

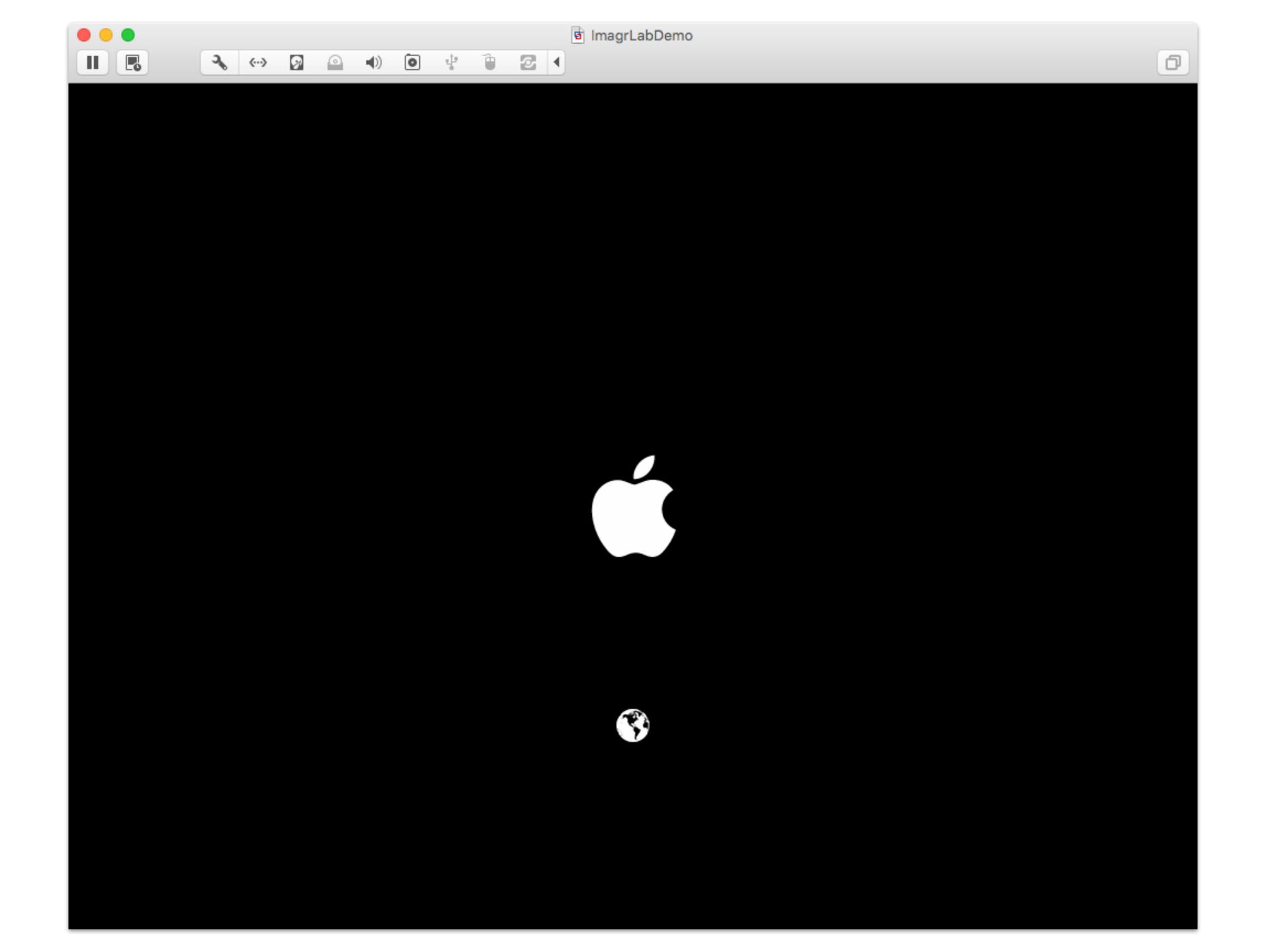
Go Back

Continue



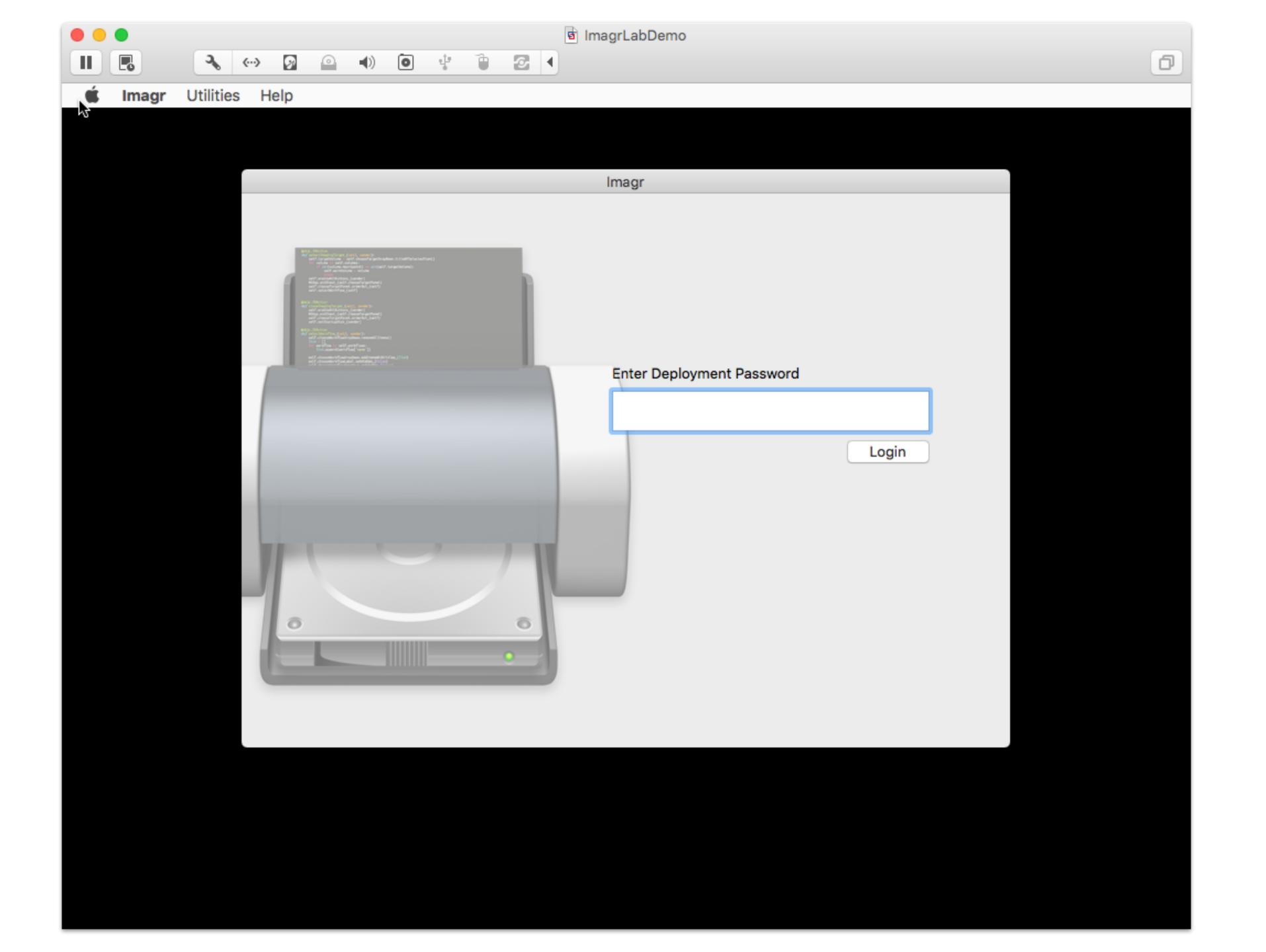


Mondare



What's happening?

\$ docker logs bsdpy



Questions?

Say hi!

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- Github: @grahamgilbert
- Web: grahamgilbert.com

