

# Deploy Studio Admin

This is where you setup Deploy Studio workflows, or the imaging process itself. Here, you can add new Mac images (called Masters), packages, and scripts that will run in Deploy Studio Runtime.

## Updating the Workflows

The most important part of understanding DS and imaging is how to keep things from breaking. Here's a short list of what may need updating in the future:

### The Images

The images we use as of 10.13.6 are captured from any Mac, and due to the large amount of older hardware, HFS must be captured along with APFS. The general process is install a fresh, clean OS () from Apple and capture that.

#### *Specific Process*

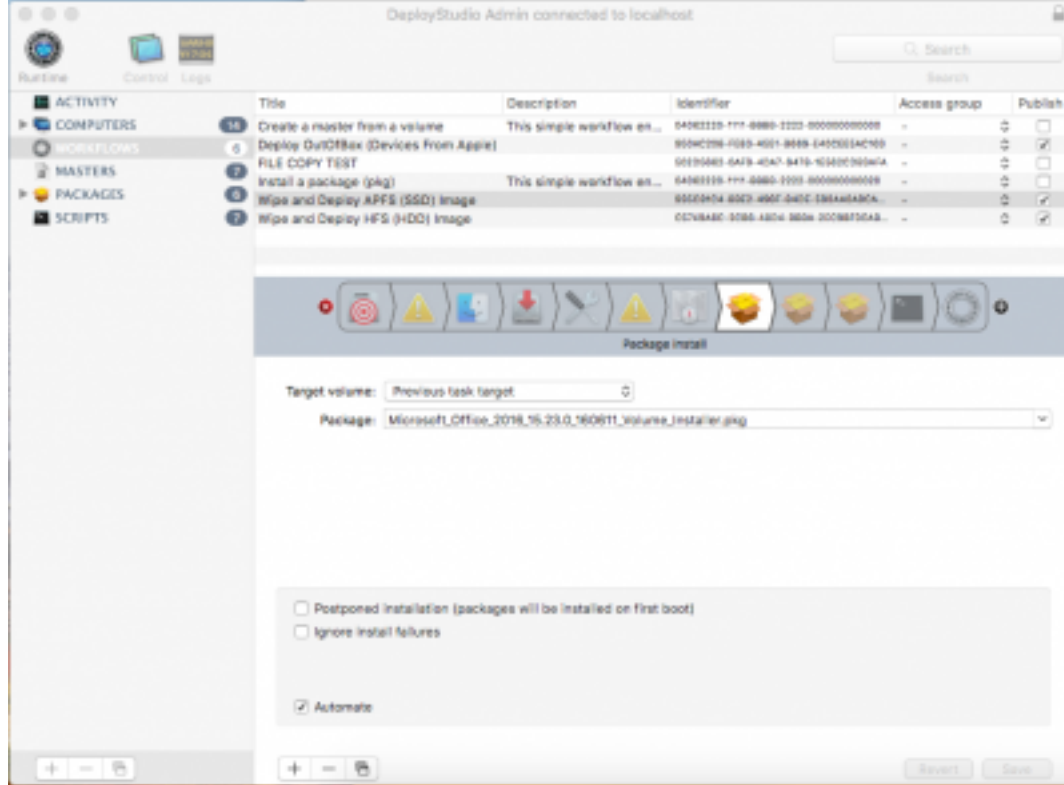
So, if the image is out-of-date, find a loaner Mac laptop. Hold Command-R upon boot, and use Disk Utility to wipe the drive. Then, if at the HelpDesk, click "FSU Guest" under Wi-Fi options. Go back to the central Apple Recovery window and click the Safari "Get Help Online" icon. Navigate to Apple.com and keep refreshing until you can successfully connect to FSU Guest. Once connected, install the latest Mac OS.

After that long process, grab a Deploy Studio SSD and use the "Create a Master from a Volume" [aka as the Disk Image task] to create the new image. There should be little-to-nothing to adjust on the Image before capturing it. Then, toss it into your existing Deployment workflow.

### The Packages

Deploy Studio installs 4 different packages, and only one is slightly complex. This must happen AFTER restore, more on that later.

a) "*Microsoft\_Office\_2016\_15.23.0\_160611\_Volume\_Installer.pkg*" also known as Microsoft Office 2016. This comes from the .12 file server and should be updated at the Sysadmin's disrection. Install it using a normal package install, with only the Automate option selected.

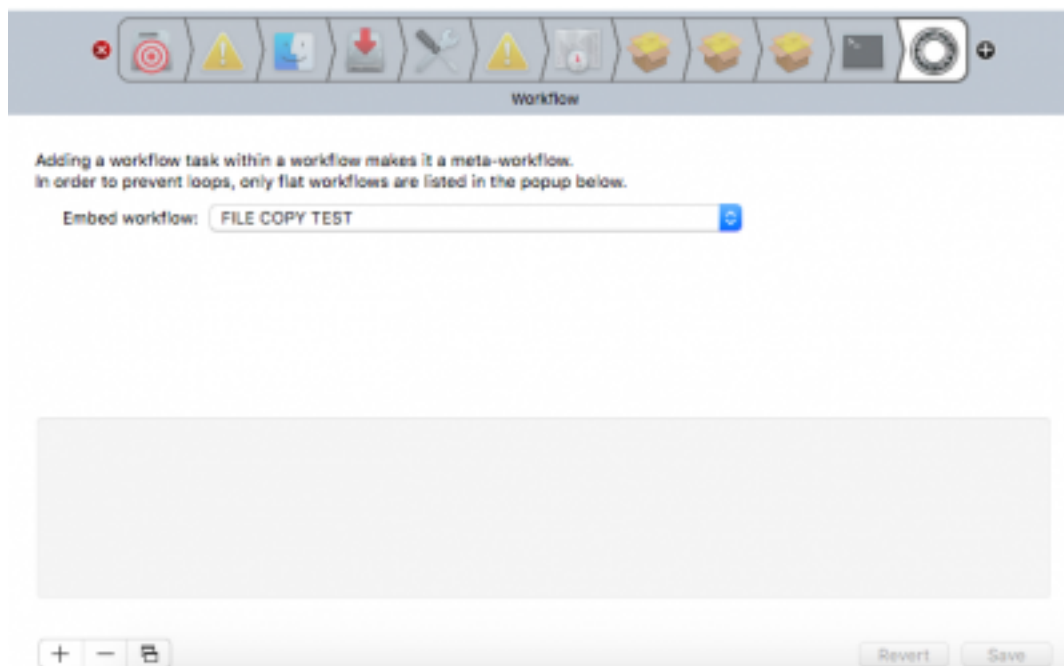


An example of a Package Install task

b) *“Microsoft\_Office\_2016\_VL\_Serializer\_2.0.pkg”* - all this package does is activate the Office package previously installed. To update this, contact the current sysadmin. Should be updated along with the original Mac Office package.

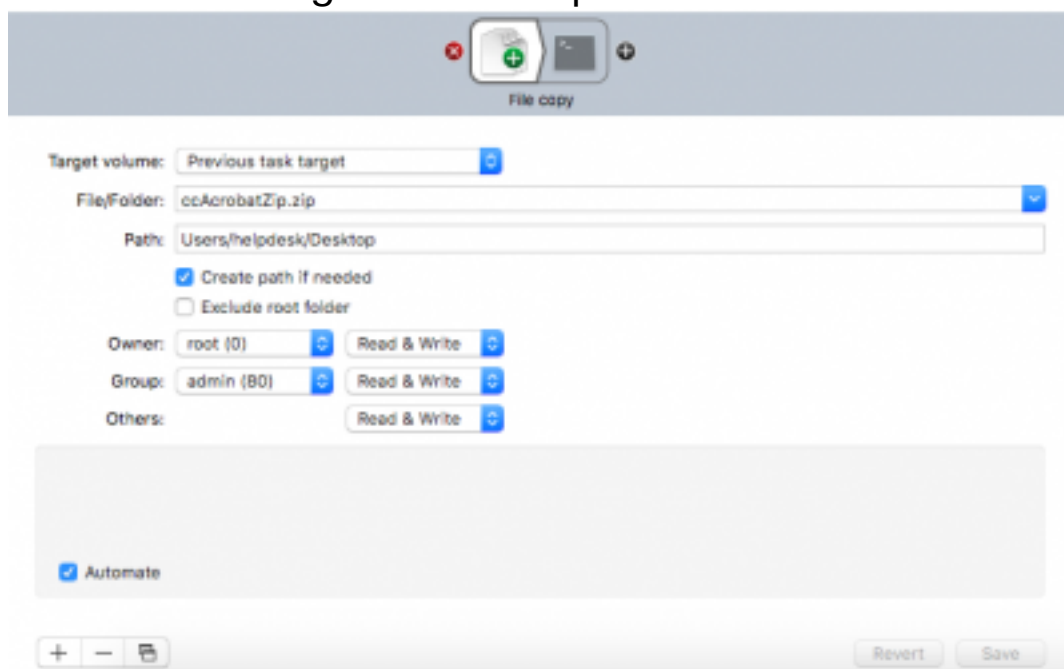
c) *“Install TeamViewerHost-idcaehh2sm.pkg”* - this installs the little Teamviewer client that users activate for remote support. Get this package from <http://get.teamviewer.com/ccihelpdeskhost> (<http://get.teamviewer.com/ccihelpdeskhost>). If the newly deployed Mac is asking to update this package, go to the above link and replace the package in all known DS SSDs.

d) The complicated one. *“ccAcrobat.pkg.zip”* is a package built with the Adobe Package manager on the file server. All it contains is Adobe Acrobat and Adobe Creative Cloud. If this becomes routinely out of date, see additional instructions on building a new Adobe Package. Once that is built, zip/compress the package. Use **File Copy** to copy the .zip package to Users/helpdesk/Desktop. A script should then extract the package and install it. More on that later.

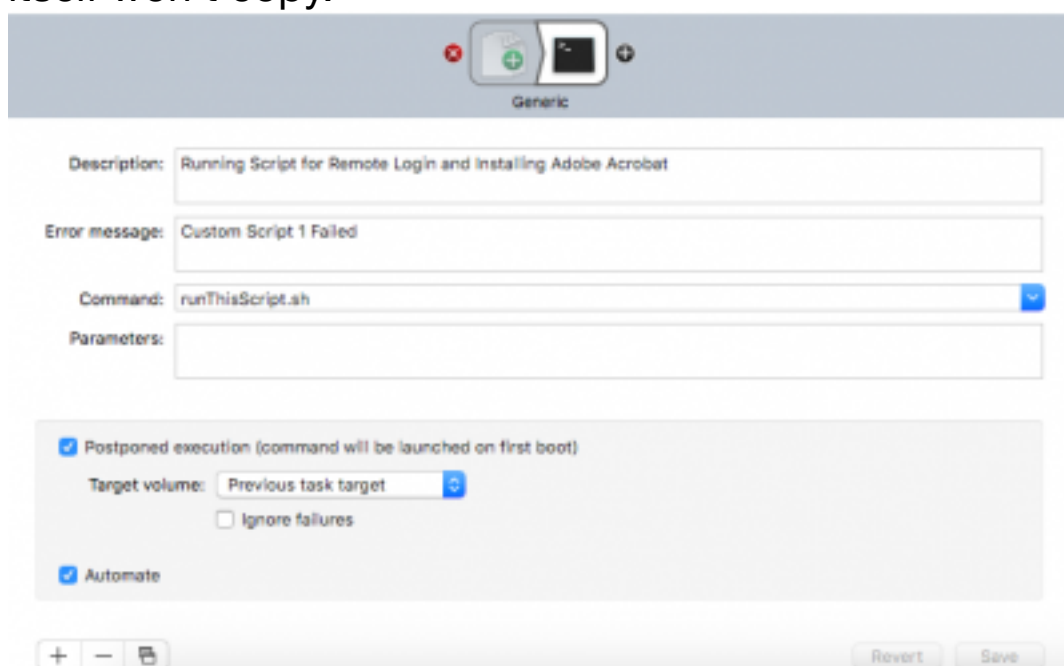




First, the workflow links itself to a separate workflow. This makes things easier to update.



Second, it copies over a zipped up version of the Adobe package. For whatever reason, just the .pkg itself won't copy.



Finally, this script extracts the zip and installs it all on /Desktop/Helpdesk. It runs during the ds\_finalize process as root/sudo.

The reason I didn't just use package install to install the Adobe CC and Acrobat package is that it didn't work. Nothing I (Will Bollock) did worked to install the Adobe packages from DS. That is why I used this work around.

# Scripts, Tips, and Common Issues

## Scripts

```
#!/bin/sh
#runThisScript.sh - made by Will Bollock
echo "Enabling remote login"
sudo systemsetup -setremotelogin on

echo "Installing Acrobat and CC"
unzip /Users/helpdesk/Desktop/ccAcrobatZip.zip -d /Users/helpdesk/Desktop
sudo installer -pkg /Users/helpdesk/Desktop/ccAcrobat.pkg -target /

curl -o wallpaper.jpg https://support.cci.fsu.edu/branding/wallpaper.jpg

if [ -e /Library/Desktop\ Pictures/Mojave.jpg ]
    then
        sudo mv -f /Library/Desktop\ Pictures/Mojave.heic/Library/Desktop\ Pictures/Mojave2.heic
        sudo mv -f wallpaper.jpg /Library/Desktop\ Pictures/Mojave.heic
    else
        sudo mv -f /Library/Desktop\ Pictures/High\ Sierra.jpg /Library/Desktop\ Pictures/High\ Sierra2.jpg
        sudo mv -f wallpaper.jpg /Library/Desktop\ Pictures/High\ Sierra.jpg
    fi
echo "Done, cleaning up"
rm -rf /Users/helpdesk/Desktop/*.*
```

Comments: Currently, Mojave doesn't work with the background change.

This next script is an older one I found on the Wiki. I am not sure if it still works. It has to do with deepfreeze.

```
dsconfigad -passinterval 999
```

```
dsconfigad -alldomains disable -noproffered
```

```
sleep 10
```

```
dscl /Search -create / SearchPolicy CSPSearchPath dscl /Search -delete / CSPSearchPath  
"/Active Directory/FSU/All Domains" dscl /Search -append / CSPSearchPath "/Active Dire  
ctory/FSU/fsu.edu"
```

```
sleep 10
```

```
dscl /Search/Contacts -create / SearchPolicy CSPSearchPath dscl /Search/Contacts -dele  
te / CSPSearchPath "/Active Directory/FSU/All Domains" dscl /Search/Contacts -append /  
CSPSearchPath "/Active Directory/FSU/fsu.edu"
```

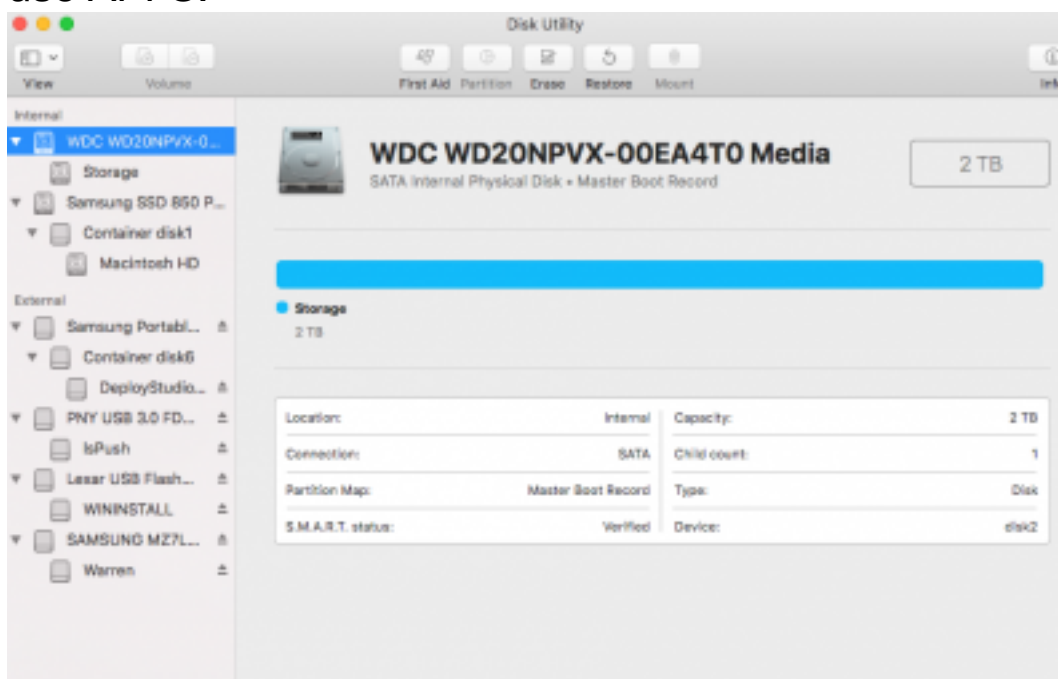
## Common Issues

As always, troubleshoot yourself before going to others for help. Check the logs if crashing during Runtime, or if the issue is after the restart and deployment, check `ds_finalize` in `/var/log` after deployment.

### Crashing upon the "Restore" tab

This is almost always related to one of two issues:

1. The wrong type of image was selected. Computers with physical hard drives must use the HFS option and image, while newer Macs with hybrids or SSD drives must use APFS.

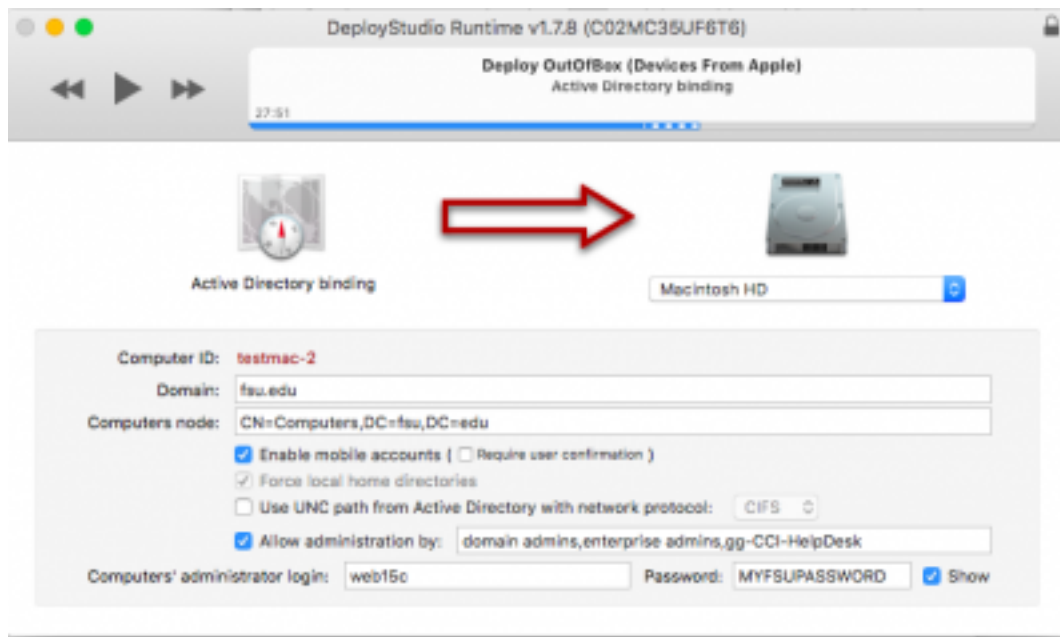


An example of a physical drive that would require HFS

2. “Macintosh HD” wasn't selected as the target earlier, and the error message is related to something about not having enough space to image. This is because it is attempting to write the disk image to a small partition on the drive. Use Disk Utility to properly format the target drive and clear unnecessary partitions.

Upon restart, the computer won't bind to AD and is stuck in a loop trying to bind

The likely issue is that the HelpDesk technician entered incorrect credentials under the AD binding workflow. Turn off the computer, boot into the computer again, and make sure your credentials are correct.



Use your FSU credentials for AD

Otherwise, check your Ethernet connection. The computer must be connected to the FSU domain via Ethernet to bind to AD.

## Final Tips

The best and really, only, resource for DS information is their forum (<http://www.deploystudio.com/Forums/>).

I did my best to update this page, but because the only way for me to update the drives is to manually apply patches to all 4 (5 including the Warren Mac SSD) SSDs, it is difficult to keep everything in sync. Good luck.