

Install and Configure FileVault with an Institutional Key

Commands

Create Institutional Key

```
security create-filevaultmaster-keychain ~/Desktop/FileVaultMaster.keychain
```

Create Disk Image of Institutional Key

```
hdiutil create -srcfolder ~/Desktop/FileVaultMaster.keychain ~/Desktop/  
FileVault.dmg
```

Scripts

Turn on FileVault

```
# Download Key  
curl http://munki/munki_repo/files/FileVaultMaster.keychain -o /Library/  
Keychains/FileVaultMaster.keychain  
curl http://munki/munki_repo/files/FileVault.plist -o /tmp/FileVault.plist  
  
# Change Permissions  
chmod 644 /Library/Keychains/FileVaultMaster.keychain  
  
# Turn on FileVault  
fdesetup enable -keychain -norecoverykey -inputplist < /tmp/FileVault.plist  
  
# Delete plist  
rm -rf /tmp/FileVault.plist
```

Switch to Institutional Key

```
# Download Key  
curl http://munki/munki_repo/files/FileVaultMaster.keychain -o /Library/  
Keychains/FileVaultMaster.keychain  
  
# Change Permissions  
chmod 644 /Library/Keychains/FileVaultMaster.keychain  
  
# Switch FileVault to an Institutional Key  
fdesetup changerecovery -institutional -keychain /Library/Keychains/  
FileVaultMaster.keychain
```

FileVault Status

```
fdesetup status
fdesetup list
fdesetup hasinstitutionalrecoverykey
fdesetup supportsauthrestart
```

Authorized Reboot

```
curl http://munki/munki_repo/files/FileVault.plist -o /tmp/FileVault.plist
fdesetup authrestart -inputplist < /tmp/FileVault.plist
rm -rf /tmp/FileVault.plist
```

Files

FileVault.plist

```
<?xml version="1.0" encoding="UTF-8"?>
<!DOCTYPE plist PUBLIC "-//Apple//DTD PLIST 1.0//EN" "http://
www.apple.com/DTDs/PropertyList-1.0.dtd">
<plist version="1.0">
<dict>
<key>Username</key>
<string>administrator</string>
<key>Password</key>
<string>itssecret</string>
</dict>
</plist>
```