# Signing PKGs with Terminal / Command Line

For this example, we will use the "productsign" command.

First, open Keychain Access within macOS and locate the certificate. If using an Apple certificate, the name of the certificate should start with "Developer ID Installer:", followed by your Apple Developer account name, and ending with some serial number in parenthesis – take note of this information.

Next, open Terminal. The command to sign the package should look similar to this:

```
productsign --sign "Developer ID Installer: Your Developer Name (1A2B3C4D5E)" ~/Desktop/example.pkg ~/Desktop/signed-example.pkg
```

The value in quotes following the "–sign" tag should be the Common Name of your certificate. The first argument ('~/Desktop/example.pkg') is the current location on your computer of the unsigned package. The second argument ('~/Desktop/signed-example.pkg') is the destination that you want to save your signed package.

Then, run the command. If it is successful, you should see something similar to the following printed out in Terminal:

```
productsign: using timestamp authority for signature
productsign: signing product with identity "Developer ID Installer: Your Developer Name (1A2B3C4D5E)" from keychain /Users/sdeveloper/Library/Keychains/login.keychain-db
productsign: adding certificate "Developer ID Certification Authority"
productsign: adding certificate "Apple Root CA"
productsign: Wrote signed product archive to /Users/sdeveloper/Downloads/munkitools_signed-3.2.0.3476.pkg
```

Verify that the signed package is located at the destination you

specified.

# Signing Using Xcode

If you are developing your macOS PKG in Xcode and have an Apple Developer account linked to it, Xcode can automatically request a certificate from your Developer account and add it to the signing certificate to the package during the build and archive stages. We recommend referring to Apple's documentation for more detailed instructions on this process.

When using this method, verify that you have selected "Developer ID Installer" from the dropdown list for the 'Signing Certificate' setting. This is located under the Signing section of the General settings tab.