Identifying a Cloud Managed Signing Certificate

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Recently I've been playing around with Xcode Cloud, with a focus on learning more about its cloud siging feature. One question that came up is how to distinguish a cloud signing certificate from a standard one. In Certificates, Identifiers, and Profiles this is easy: Cloud signing certificates have a *Managed* suffix. But what about in a built binary?

After a bit of digging, I discovered that a cloud signing certificate has a special OID that identifies it as such. Consider:

```
% codesign -d --extract-certificates CloudSigningTest.app
…
% mv codesign0 codesign0.cer
% dumpasn1 -a -p codesign0.cer
SEQUENCE {
  SEQUENCE {
    …
    [3] {
      SEQUENCE {
        …
        SEQUENCE {
          OBJECT IDENTIFIER &#039;1 2 840 113635 100 6 1 32&#039;
          OCTET STRING, encapsulates {
            NULL
          }
        }
      }
    }
    …
  }
}
```

This is actually documented on the Apple PKI page, in Certification Practice Statement > Developer ID > 2.2 *Community and Applicability*, which says:

> Cloud Managed certificates include an additional non- critical custom extension OID 1.2.840.113635.100.6.1.32 to indicate they are Cloud managed.

So, there you go!

And yes, I realise that it's possible that the only person who'll ever need to reference this post is Future Quinn™, but I'm OK with that (-:

If you have questions or comments, start a new thread here on DevForums and tag it with *Signing Certificates* so that I see it.

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—

Quinn "The Eskimo!" @ Developer Technical Support @ Apple

```
let myEmail = "eskimo" + "1" + "@" + "apple.com"
```

`Signing Certificates`

Reply   Posted 1 week ago by 🍎 👤 eskimo ⬆

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