

自定義MAC端點上的Anyconnect模組安裝

目錄

[簡介](#)

[必要條件](#)

[需求](#)

[採用元件](#)

[背景資訊](#)

[方法1](#)

[步驟1.轉換.dmg包](#)

[步驟2.運行轉換的檔案](#)

[步驟3.生成安裝程式XML檔案](#)

[步驟4.解壓安裝選項](#)

[步驟5.使用所需模組儲存代碼](#)

[步驟6.找到安裝選項檔案](#)

[步驟7.通過命令列安裝Anyconnect](#)

[方法2](#)

[步驟1.轉換.dmg包](#)

[步驟2.轉換安裝軟體包](#)

[步驟3.擷取.zip檔案](#)

[步驟4.安裝所需的模組](#)

[驗證](#)

簡介

本文檔介紹使用MAC命令列進行Anyconnect的自定義安裝過程。

必要條件

需求

思科建議您瞭解以下主題：

- Anyconnect
- MacOS x 10.14.6

採用元件

- MacOS X 10.14.6
- Anyconnect 4.8 MR2

本文中的資訊是根據特定實驗室環境內的裝置所建立。文中使用到的所有裝置皆從已清除（預設）的組態來啟動。如果您的網路運作中，請確保您瞭解任何指令可能造成的影響。

背景資訊

Anyconnect有兩種部署型別，一種是基於婚配的安裝（由思科防火牆或路由器自動安裝）和預部署安裝（需要使用者干預）。

在此場景中，預部署安裝在MAC終端上自定義，只安裝選定的模組。

方法1

步驟1.轉換.dmg包

使用Disk Utility或hdiutil，將.dmg軟體包從只讀狀態轉換為讀寫，如下圖所示。

```
hdiutil convert anyconnect-macos-4.8.02045-predeploy-k9.dmg -format UDRW -o anyconnect-macos-4.8.02045-predeploy-k9-rw.dmg
```

```
[HOLGUINS-M-03UY:images hugoolguin$  
[HOLGUINS-M-03UY:images hugoolguin$ hdiutil convert anyconnect-macos-4.8.02045-predeploy-k9.dmg -format UDRW -o anyconnect-macos-4.8.02045-predeploy-k9-rw.dmg  
Reading Protective Master Boot Record (MBR : 0)...  
Reading GPT Header (Primary GPT Header : 1)...  
Reading GPT Partition Data (Primary GPT Table : 2)...  
Reading (Apple_Free : 3)...  
Reading disk image (Apple_HFS : 4)...  
.....  
Reading (Apple_Free : 5)...  
Reading GPT Partition Data (Backup GPT Table : 6)...  
.....  
Reading GPT Header (Backup GPT Header : 7)...  
.....  
Elapsed Time: 83.250ms  
Speed: 979.8Mbytes/sec  
Savings: 8.8%  
created: /Users/hugoolguin/Downloads/images/anyconnect-macos-4.8.02045-predeploy-k9-rw.dmg  
[HOLGUINS-M-03UY:images hugoolguin$
```

步驟2.運行轉換的檔案

運行轉換的檔案anyconnect-macos-4.8.02045-predeploy-k9-rw.dmg，以啟動安裝過程。



步驟3.生成安裝程式XML檔案

此示例用於將所有安裝程式選項傳送到名為vpn_install_choices.xml的文本檔案，該檔案位於「下載」資料夾中。例如：

```
HUGOIGUIN-M-Q3UV:Downloads hugoolguin$  
HUGOIGUIN-M-Q3UV:Downloads hugoolguin$ installer -pkg /Volumes/AnyConnect/ 4.8.02045/AnyConnect.pkg -showChoiceChangesXML > /Users/hugoolguin/Downloads/vpn_install_choices.xml  
HUGOIGUIN-M-Q3UV:Downloads hugoolguin$
```

步驟4.解壓安裝選項

顯示的代碼是從vpn_install_choices.xml檔案中提取的XML代碼，它包含自定義安裝所有Anyconnect模組所需的代碼：

```
<?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">  
<array>  
  <dict>  
    <key>attributeSetting</key>  
    <integer>0</integer>  
    <key>choiceAttribute</key>  
    <string>selected</string>  
    <key>choiceIdentifier</key>  
    <string>choice_vpn</string>  
  </dict>  
  <dict>  
    <key>attributeSetting</key>  
    <integer>1</integer>  
    <key>choiceAttribute</key>
```

```

    <string>selected</string>
    <key>choiceIdentifier</key>
    <string>choice_websecurity</string>
</dict>
<dict>
    <key>attributeSetting</key>
    <integer>1</integer>
    <key>choiceAttribute</key>
    <string>selected</string>
    <key>choiceIdentifier</key>
    <string>choice_fireamp</string>
</dict>
<dict>
    <key>attributeSetting</key>
    <integer>1</integer>
    <key>choiceAttribute</key>
    <string>selected</string>
    <key>choiceIdentifier</key>
    <string>choice_dart</string>
</dict>
<dict>
    <key>attributeSetting</key>
    <integer>1</integer>
    <key>choiceAttribute</key>
    <string>selected</string>
    <key>choiceIdentifier</key>
    <string>choice_posture</string>
</dict>
<dict>
    <key>attributeSetting</key>
    <integer>1</integer>
    <key>choiceAttribute</key>
    <string>selected</string>
    <key>choiceIdentifier</key>
    <string>choice_iseposture</string>
</dict>
<dict>
    <key>attributeSetting</key>
    <integer>1</integer>
    <key>choiceAttribute</key>
    <string>selected</string>
    <key>choiceIdentifier</key>
    <string>choice_nvms</string>
</dict>
<dict>
    <key>attributeSetting</key>
    <integer>1</integer>
    <key>choiceAttribute</key>
    <string>selected</string>
    <key>choiceIdentifier</key>
    <string>choice_umbrella</string>
</dict>
</array>
</plist>

```

步驟5.使用所需模組儲存代碼

儲存新代碼(覆寫原始檔案vpn_install_choices.xml) , 並將其修改為跳過(0)或安裝(1)模組。

在本示例中, VPN、Web安全、AMP、DART、安全狀態、ISE安全狀態和Umbrella模組設定為**整數**中的1以便安裝。

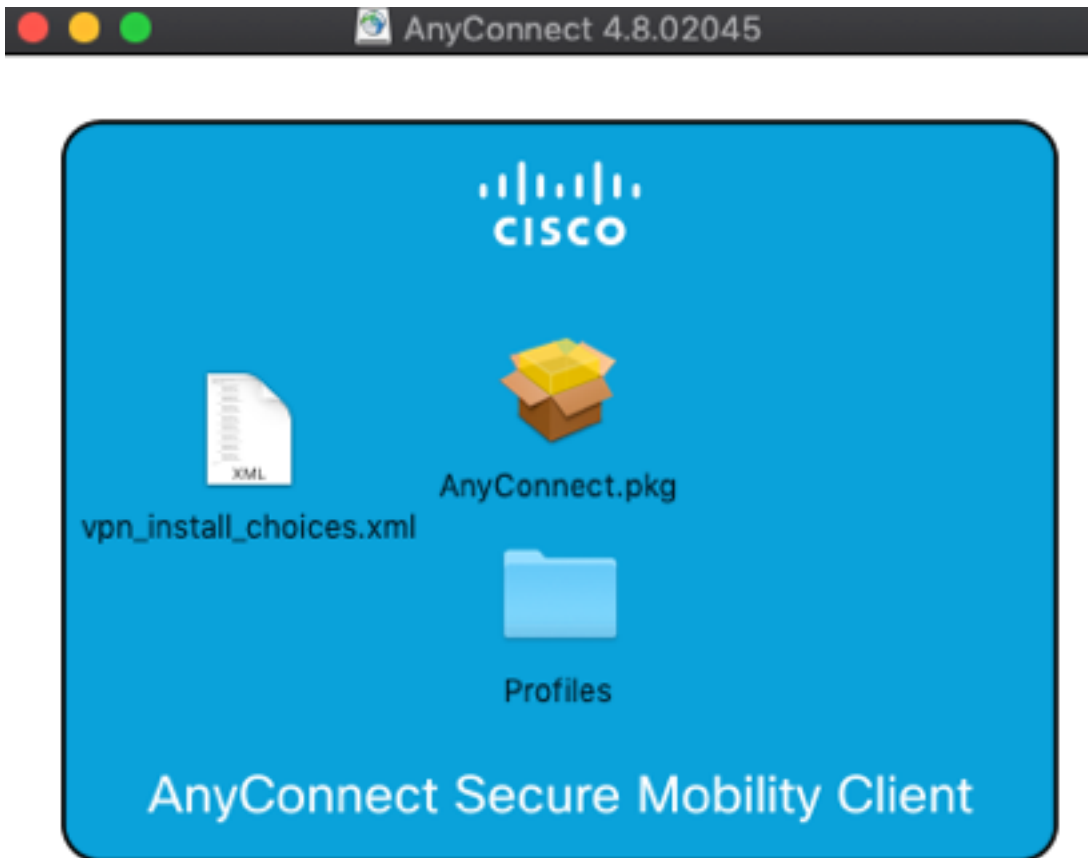
將NVM模組的整數值設定為0，以便安裝包跳過。

```
<?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">
<array>
  <dict>
    <key>attributeSetting</key>
    <integer>1</integer>
    <key>choiceAttribute</key>
    <string>selected</string>
    <key>choiceIdentifier</key>
    <string>choice_vpn</string>
  </dict>
  <dict>
    <key>attributeSetting</key>
    <integer>1</integer>
    <key>choiceAttribute</key>
    <string>selected</string>
    <key>choiceIdentifier</key>
    <string>choice_websecurity</string>
  </dict>
  <dict>
    <key>attributeSetting</key>
    <integer>1</integer>
    <key>choiceAttribute</key>
    <string>selected</string>
    <key>choiceIdentifier</key>
    <string>choice_fireamp</string>
  </dict>
  <dict>
    <key>attributeSetting</key>
    <integer>1</integer>
    <key>choiceAttribute</key>
    <string>selected</string>
    <key>choiceIdentifier</key>
    <string>choice_dart</string>
  </dict>
  <dict>
    <key>attributeSetting</key>
    <integer>1</integer>
    <key>choiceAttribute</key>
    <string>selected</string>
    <key>choiceIdentifier</key>
    <string>choice_posture</string>
  </dict>
  <dict>
    <key>attributeSetting</key>
    <integer>1</integer>
    <key>choiceAttribute</key>
    <string>selected</string>
    <key>choiceIdentifier</key>
    <string>choice_iseposture</string>
  </dict>
  <dict>
    <key>attributeSetting</key>
    <integer>0</integer>
    <key>choiceAttribute</key>
    <string>selected</string>
    <key>choiceIdentifier</key>
    <string>choice_nvme</string>
  </dict>
</array>
</plist>
```

```
</dict>
<dict>
  <key>attributeSetting</key>
  <integer>1</integer>
  <key>choiceAttribute</key>
  <string>selected</string>
  <key>choiceIdentifier</key>
  <string>choice_umbrella</string>
</dict>
</array>
</plist>
```

步驟6.找到安裝選項檔案

vpn_install_choices.xml 檔案現在位於/Volumes/AnyConnect\ 4.8.02045/目錄中，如下圖所示。



步驟7.通過命令列安裝Anyconnect

根據XML vpn_install_choices.xml檔案安裝Anyconnect客戶端。如下圖所示：

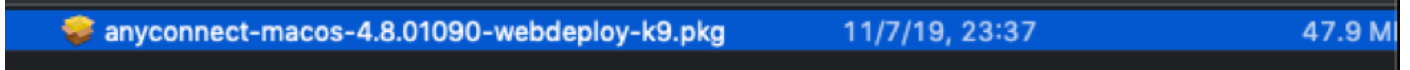
```
holguins-personal:AnyConnect 4.8.02045 holguins$
holguins-personal:AnyConnect 4.8.02045 holguins$ sudo installer -pkg AnyConnect.pkg -applyChoiceChangesXML vpn_install_choice.xml -target /
>Password:
installer: Package name is AnyConnect Secure Mobility Client
installer: choices changes file 'vpn_install_choice.xml' applied
installer: Installing at base path /
installer: The install was successful.
holguins-personal:AnyConnect 4.8.02045 holguins$ █
```

方法2

步驟1.轉換.dmg包

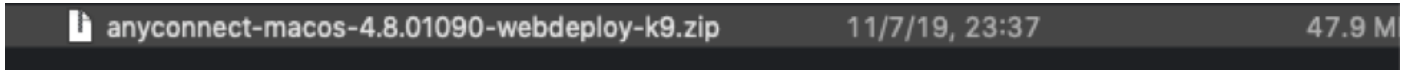
使用Disk Utility或hdiutil將dmg軟體包從只讀狀態轉換為讀寫，如下圖所示。

```
hdiutil convert anyconnect-macos-4.8.02045-predeploy-k9.dmg -format UDRW -o anyconnect-macos-4.8.02045-predeploy-k9-rw.dmg
```

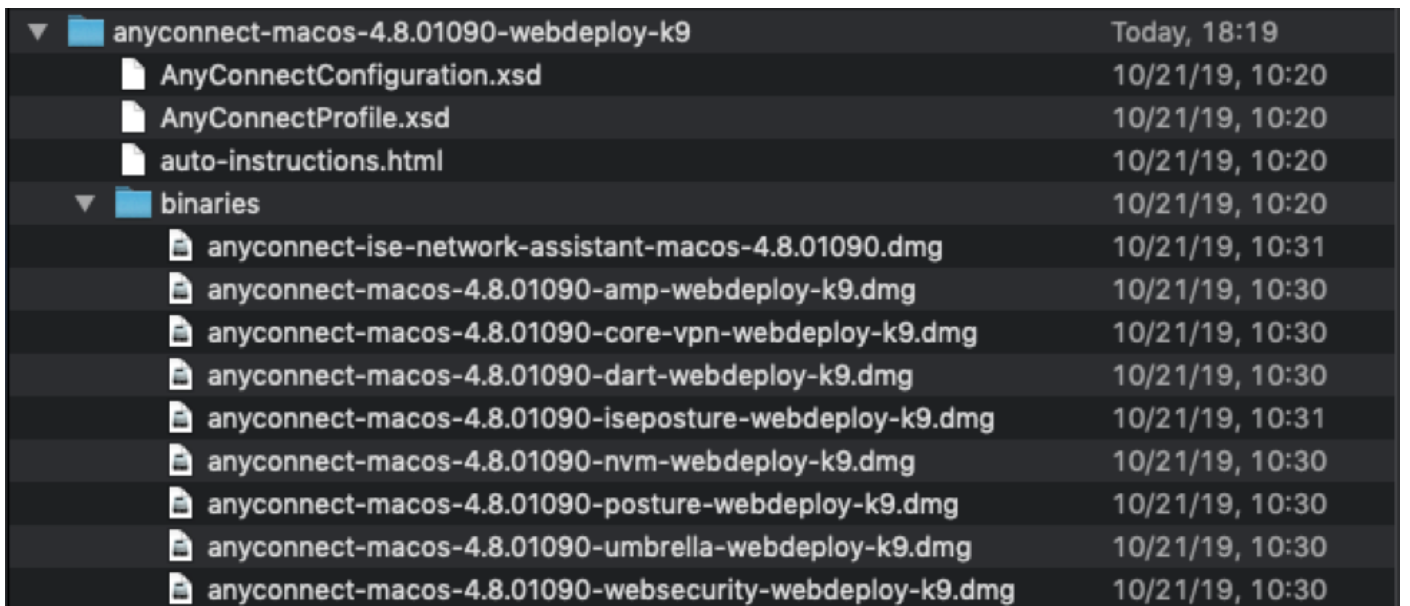


步驟2.轉換安裝軟體包

將.pkg檔案轉換為.zip，如下圖所示。



步驟3.擷取.zip檔案



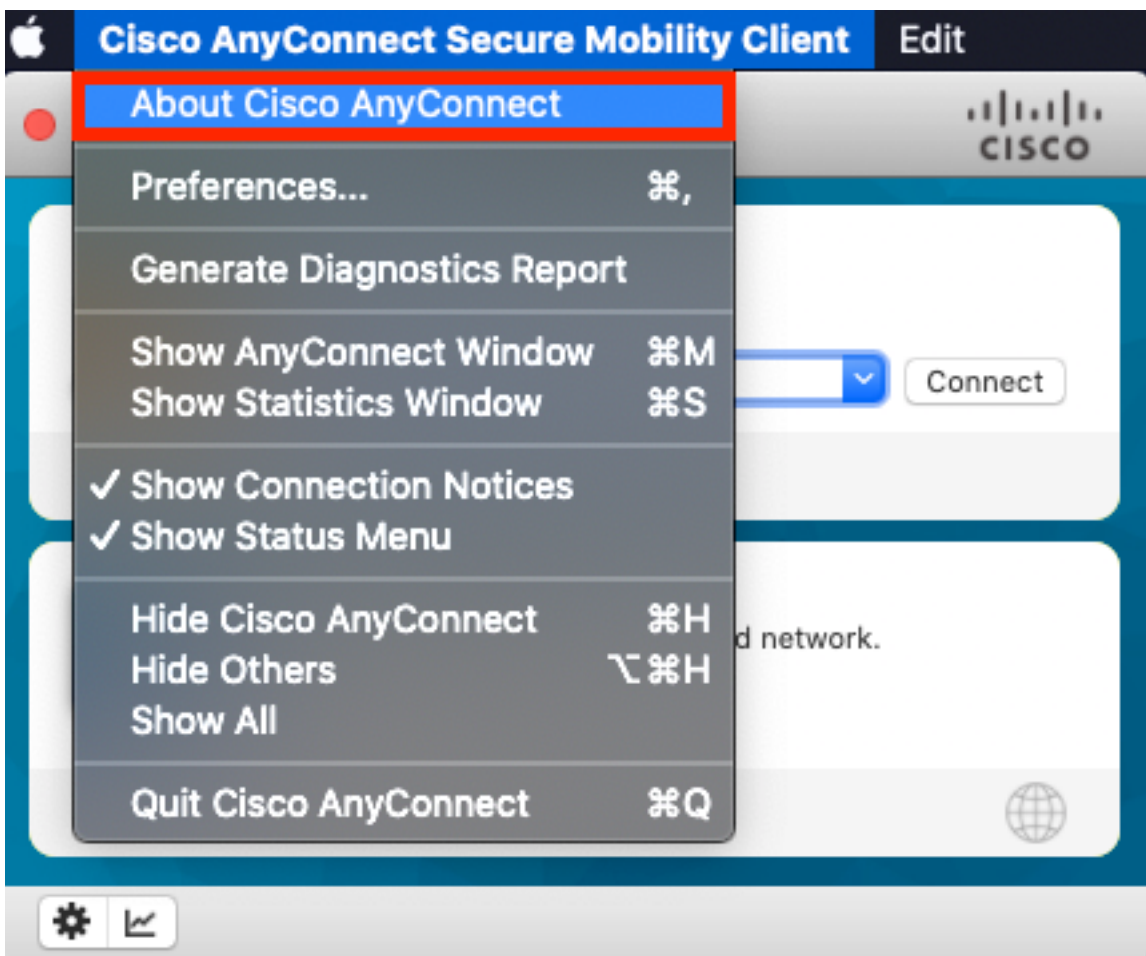
步驟4.安裝所需的模組

現在您可以按模組安裝，必須先使用core-vpn-webdeploy-k9.dmg安裝VPN模組，如下圖所示。

anyconnect-macos-4.8.01090-webdeploy-k9	Today, 18:19
AnyConnectConfiguration.xsd	10/21/19, 10:20
AnyConnectProfile.xsd	10/21/19, 10:20
auto-instructions.html	10/21/19, 10:20
binaries	10/21/19, 10:20
anyconnect-ise-network-assistant-macos-4.8.01090.dmg	10/21/19, 10:31
anyconnect-macos-4.8.01090-amp-webdeploy-k9.dmg	10/21/19, 10:30
anyconnect-macos-4.8.01090-core-vpn-webdeploy-k9.dmg	10/21/19, 10:30
anyconnect-macos-4.8.01090-dart-webdeploy-k9.dmg	10/21/19, 10:30
anyconnect-macos-4.8.01090-iseposture-webdeploy-k9.dmg	10/21/19, 10:31
anyconnect-macos-4.8.01090-nvm-webdeploy-k9.dmg	10/21/19, 10:30
anyconnect-macos-4.8.01090-posture-webdeploy-k9.dmg	10/21/19, 10:30
anyconnect-macos-4.8.01090-umbrella-webdeploy-k9.dmg	10/21/19, 10:30
anyconnect-macos-4.8.01090-websecurity-webdeploy-k9.dmg	10/21/19, 10:30

驗證

若要驗證Anyconnect安裝和所選模組，請在Anyconnect應用中，導航到Apple的選單欄> Cisco Anyconnect安全移動客戶端，然後選擇About Cisco AnyConnect，如下圖所示。



確認Installed Modules一節，如下圖所示。

Cisco AnyConnect Secure Mobility Client

Version 4.8.01090



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Installed Modules:

VPN, Roaming Security, Network Visibility, Customer Experience Feedback

This product includes software developed by the OpenSSL Project for use in the OpenSSL Toolkit:
<http://www.openssl.org>

This product includes cryptographic software written by Eric Young (eay@cryptsoft.com)

This product includes software written by Tim Hudson (tjh@cryptsoft.com)

This product incorporates the libcurl HTTP library:
Copyright (c) 1996 - 2019, Daniel Stenberg, (daniel@haxx.se).

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