How to update Mac OS X to Sierra via Parallels Management for Mac

- Parallels Device Management 4.5

Symptoms

How to update Mac OS X to Sierra via Parallels Management for Mac

Resolution

Put the **Install macOS Sierra.app** file somewhere on the Mac in the user Home Folder (e.g. on the Desktop).

1. On the Mac with **Install macOS Sierra.app** file open **Terminal** and change directory to *../Install macOS Sierra.app/Contents*:

    - in **Finder** navigate to **Install macOS Sierra.app** > right-click it > **Show Package Contents**.
    - in **Terminal** window type **"cd "** - note the space after **"d"**.
    - drag and drop **Contents** folder from **Finder** to **Terminal** window, so the command will look like

      ```
      cd /<some_path>/Install\ macOS\ Sierra.app/Contents/Contents
      ```
    - hit **Enter**
2. Archive "Frameworks" folder by executing the following commands in Terminal:

   ```
   sudo su
   tar -cf Frameworks.tar.gz Frameworks
   ```

   move the original folder and compressed file in the directory where *Install macOS Sierra.app* is located:

   ```
   mv Frameworks.tar.gz ../../
   mv Frameworks ../../
   ```
3. In **Finder** check that in **Install macOS Sierra.app/Contents** directory there is NO **Frameworks.tar.gz** file and **Frameworks** folder.
4. In **Finder** check that **Frameworks.tar.gz** file and **Frameworks** folder are located in the same directory where **Install macOS Sierra.app** is located.
5. Now copy **Install macOS Sierra.app** and **Frameworks.tar.gz** file (**Frameworks** folder should **not** be copied) to the SCCM server.
6. If you need a working .app installer on Mac side, go back to **Terminal** and move **Frameworks** folder back to its default directory (make sure this is done after the files are copied on the server):

   ```
   mv ../../Frameworks ./
   ```
7. On the SCCM server Create **macOS Sierra package**:

    - Right click on **Packages** in **Software Library -> Overview -> Application Management** and click **Create Package** in opened context menu.
    - Fill in the fields. Check **'This package contains source files'** checkbox, click **Browse...** and specify the required directory. Click **Next** in **Package** page of the wizard.
    - Choose **Standard program** and click **Next** in **Program Type**.
    - At **Standard Program** page:

        ◊ Specify **Name**.
        ◊ Use the following **Command line**:

```
tar -xf Frameworks.tar.gz -C 'Install macOS Sierra.app/Contents/' && chmod -R 777
```

- ◊ Set **Run mode** to **Run with administrative rights**.
- ◊ Tick **Allow users to view and interact with program installation** checkbox .
- ◊ Click **Next**.

- ♦ Leave other field values in the wizard as is.

8. Configure properties of the package to copy it's content to distribution point:

- ♦ Right click on the macOS Sierra package in **Software Library > Overview > Application Management > Packages** and click **Properties** in opened context menu.
- ♦ Check **Copy the content in this package to a package share on distribution points** checkbox in **Data Access** tab of the package properties dialog.
- ♦ Apply changes and close the dialog.

9. Deploy the macOS Sierra package:

- ♦ Right-click on macOS Sierra package in **Software Library > Overview > Application Management > Packages > Deploy**.
- ♦ Choose required collection in **General** page of the wizard.
- ♦ Add Distribution Point on **Content** page of the wizard.
- ♦ Add assignment schedule **Assign immediately after this event: As soon as possible**.
- ♦ Leave other parameters as is.

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