



How to add an application icon to OS X Dock through Desired Configuration Management

- Parallels Device Management

Information

To add an application icon to the OS X Dock through Desired Configuration Management, you can create a script with appropriate instructions and include it in a configuration item that will be used to evaluate Macs for compliance.

Note: This article does not provide details about setting up and using Desired Configuration Management. For the complete information about creating configuration items and evaluation scripts, please read the **Desired Configuration Management** section (including the **Using Scripts to Assess Compliance** sub-section) of the [Parallels Management Suite for Microsoft SCCM 2012 Administrator's Guide](#).

Follow the instructions provided in the guide (see link above) and open the **Create Configuration Item Wizard**. When specifying the settings on the **Create Setting** dialog, create a discovery script as follows:

1. In the **Setting type** list box, select **Script**.
2. In the **Data type** list box, select **String**.
3. In the **Discovery script** section, click **Add Script**.
4. In the **Edit Discovery Script** dialog, copy and paste the following script in the **Script** edit box (change the value of the APP_PATH variable to contain a path to your app):

```
APP_PATH="/Applications/Photo Booth.app"
if [[ ! -d ${APP_PATH} ]]; then
    exit 0 # Silently exit if the application is not installed
fi
encodedAppPath=$(python -c "import urllib; print urllib.quote(\"${APP_PATH}\");")
for user in $(dscl . -list /Users)
do
    userHome=$(dscl . -read /Users/${user} | grep 'NFSHomeDirectory:' | awk '{print $2}')
    dockPrefs=${userHome}/Library/Preferences/com.apple.dock.plist
    if [[ ! -f ${dockPrefs} ]]; then
        continue
    fi
    sudo -u ${user} /usr/bin/defaults read com.apple.dock persistent-apps | grep "${encodedAppPath}" > /dev/null
    if [[ $? == 0 ]]; then
        continue
    fi
    sudo -u ${user} /usr/bin/defaults read com.apple.dock persistent-apps | grep "${APP_PATH}" > /dev/null
    if [[ $? == 0 ]]; then
        continue
    fi
    # Need to add icon for at least one user
    echo "No icon for \"${user}\""
    exit 0
done
echo "OK"
exit 0
```

When done adding the discovery script, close the **Edit Discovery Script** dialog.

You now need to add a remediation script using the following steps:

1. On the **Creating Setting** dialog, click the **Add Script** button located the **Remediation script** section.
2. In the **Create Remediation Script** dialog, copy and paste the following script in the **Script** edit box (change the value of the APP_PATH variable to contain a path to your app):

```
APP_PATH="/Applications/Photo Booth.app"
if [[ ! -d ${APP_PATH} ]]; then
    echo "Application \"${APP_PATH}\" not found" 1>&2
    exit 1
fi
encodedAppPath=$(python -c "import urllib; print urllib.quote(\"${APP_PATH}\");")
iconDesc=
read -d '' iconDesc << EOF
<dict>
    <key>tile-data</key>
    <dict>
        <key>file-data</key>
        <dict>
            <key>_CFURLString</key>
            <string>${APP_PATH}</string>
            <key>_CFURLStringType</key>
            <integer>0</integer>
        </dict>
    </dict>
</dict>
EOF
for user in $(dscl . -list /Users)
do
    userHome=$(dscl . -read /Users/${user} | grep 'NFSHomeDirectory:' | awk '{print $2}')
    dockPrefs=${userHome}/Library/Preferences/com.apple.dock.plist"
    if [[ ! -f ${dockPrefs} ]]; then
        continue
    fi
    sudo -u ${user} /usr/bin/defaults read com.apple.dock persistent-apps | grep "${encodedAppPa
    if [[ $? == 0 ]]; then
        continue
    fi
    sudo -u ${user} /usr/bin/defaults read com.apple.dock persistent-apps | grep "${APP_PATH}" >
    if [[ $? == 0 ]]; then
        continue
    fi
    sudo -u ${user} /usr/bin/defaults write com.apple.dock persistent-apps -array-add "${iconDes
    sudo -u ${user} killall -HUP Dock
done
echo "OK"
exit 0
```

When done adding the remediation script, click **OK** to close the **Create Remediation Script** dialog.

After creating the discovery and the remediation scripts, create a compliance rule as follows:

1. Click the **Compliance Rules** tab in the **Create Setting** dialog.
2. Click **New** to open the **Create Rule** dialog.
3. Type in the rule name and an optional description.
4. In the **Rule type** list box, select **Value**.
5. In **The value returned by the specified script** list box, select **Equals**.
6. In **the following values** edit box, type ?OK? (without quotes).
7. Select the **Run the specified remediation script when this setting is noncompliant** option.
8. Click **OK** and then click **OK** again to return to the **Create Configuration Item Wizard**.

Complete the wizard as described in the [Parallels Management Suite for Microsoft SCCM 2012 Administrator?s Guide](#).

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