

Mass Deploying BeyondTrust Software to Macs

The installer files for representative consoles and Jump Clients allow you to mass deploy BeyondTrust software to your Macs. This guide provides examples of how to mass-deploy BeyondTrust software using Apple Remote Desktop. Please note that your environment may vary, and you may need to adjust your method of deployment.

Mass Deploying to Macs through Apple Remote Desktop

Representative Console Installation with Apple Remote Desktop

1. From your Secure Remote Access Appliance's **/login** interface, go to the **My Account** page.
2. In the **BeyondTrust Representative Console** section, select **Mac OS® X** as your platform and click **Download BeyondTrust Representative Console**. Save the installer package to a location that you can access from Apple Remote Desktop.

The following steps outline how to convert the bomgar-rep-installer.dmg file into a .pkg file.

3. Copy the code under "**Code for wrap_rep_installer.sh**" on page 2. Paste it into a text editor and save it with the file name **wrap_rep_installer.sh**. You must save this file to the same location where you saved the installer package.
4. Copy the code under "**Code for rep.plist**" on page 4. Paste it into a text editor and save it as **rep.plist**. You must save this file to the same location where you saved the installer package and the wrap_rep_installer.sh file.
 - a. In rep.plist, locate **<key>RootRelativeBundlePath</key>** and change its value to match your BeyondTrust support site hostname. Be sure to leave the .app file extension.
 - b. Example: **<string>BeyondTrust Representative Console - support.example.com.app</string>**
 - c. Save rep.plist.
5. You should now have three files saved to the same location:
 - bomgar-rep-installer.dmg
 - wrap_rep_installer.sh
 - rep.plist
6. From a Terminal window, run the following command, replacing **<path/to/bomgar-rep-installer.dmg>** with the correct path:

```
./wrap_rep_installer.sh <path/to/bomgar-rep-installer.dmg>
```
7. This will output a .pkg file with the same name as the .dmg (bomgar-rep-installer.pkg).

The rest of these steps occur in Apple Remote Desktop.

8. Select a computer list in the Remote Desktop window.
9. Select one or more computers in the selected computer list.
10. Select **Manage > Install Packages**.
11. Add the bomgar-rep-installer.pkg file to the package list window.
12. You can set all other options to your specifications.
13. Click **Install**. (Alternatively, you can save or schedule this installation.)
14. The BeyondTrust representative console silently installs. Your users can now log into and run the representative console.

Code for wrap_rep_installer.sh

```
#!/bin/bash

function realpath
{
    local path=${1:-.}
```

```
if [[ -d "$path" ]]; then
    (cd "$path" && pwd)
elif [[ -f "$path" ]]; then
    echo $(cd "$(dirname "$path)" && pwd)/$(basename "$path")
else
    echo "$FUNCNAME: $0 -- path not found: $path" >&2
    return 1
fi
}

if [[ $# -ne 1 ]]; then
cat << EOF
Usage: $0 <path/to/rep-installer.dmg>
EOF
    exit 1
fi

dmgPath=`realpath $1`
shift 1

if [[ -f $dmgPath ]];
then
    echo "Packaging $dmgPath."
else
    echo "$dmgPath must exist and and be a disk image."
    exit 1
fi

mountPoint="/Volumes/bomgar-rep-$$"
hdiutil attach -nobrowse -noverify -mountpoint $mountPoint $dmgPath

appBundle=`find "$mountPoint" -maxdepth 1 -regex ".*\ (app\)$"`
echo "Found: $appBundle"

workDir=work$$

if [[ -d $appBundle ]];
then
    mkdir work$$
    cp -R "$appBundle" "$workDir"
```

```
else
    echo "Error copying $appBundle out of disk image"
    hdiutil eject $mountPoint
    exit 1
fi

outputBaseName=`basename "$dmgPath"`
outputBaseName="${outputBaseName%.*}"

if [[ -f foo.pkg ]]; then rm -f foo.pkg; fi
pkgbuild \
    --root `realpath $workDir` \
    --component-plist rep.plist \
    --install-location /Applications \
    "$outputBaseName.pkg"

rm -rf $workDir

hdiutil eject $mountPoint
```

Code for rep.plist

```
<?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>RootRelativeBundlePath</key>
            <string>BeyondTrust Representative Console - support.example.com.app</string>
            <key>BundleHasStrictIdentifier</key>
            <true/>
            <key>BundleIsRelocatable</key>
            <false/>
            <key>BundleIsVersionChecked</key>
            <false/>
            <key>BundleOverwriteAction</key>
            <string>upgrade</string>
        </dict>
    </array>
```

</plist>

Jump Client Installation with Apple Remote Desktop

1. From your Secure Remote Access Appliance's **/login** interface, go to the **Jump > Jump Clients** page.
2. In the **Jump Client Mass Deployment Wizard**, be sure to check the option **Attempt an Elevated Install if the Client Supports It**. It is also recommended to check **Start Customer Client Minimized When Session Is Started** for a truly silent install. You can set all other options to your specifications. Click **Create**.
3. Select **Mac OS® X (Intel®)** as your platform and click **Download/Install**. Save the installer package to a location that you can access from Apple Remote Desktop.

The following steps occur in Automator.

4. In Automator, create a workflow. This workflow will contain three actions.
 - Get Specified Finder Items
 - a. In this action, add the Jump Client installer package (bomgar-scc-{uid}.dmg).
 - Copy Items to Computers
 - a. This action is available only if you have Apple Remote Desktop installed. It determines which computers you are allowed to install to.
 - b. Click **Update** to show all of the computers you can manage.
 - c. Check the computers to which you wish to deploy the BeyondTrust Jump Client.
 - d. Set **Destination** to **Other**, and specify **/var/root**.



Note: You can specify another location if necessary, as long as the script in the next action is able to find this location on all remote systems.

- e. You can set all other options to your specifications.
- Execute New UNIX Task
 - a. Create a name for this task.
 - b. In the text area, paste the following script, replacing {uid} with the unique identifier in the Jump Client installer file name:

```
#!/bin/bash
hdiutil attach -mountpoint /Volumes/foobar /var/root/bomgar-scc-{uid}.dmg

'/Volumes/foobar/Double-Click To Start Support
Session.app/Contents/MacOS/sdcust'
```

- c. If you have allowed override of any Jump Client fields, you can append the desired command line parameters to the end of the script above. Example:

```
'/Volumes/foobar/Double-Click To Start Support Session.app/Contents/MacOS/sdcust
--jc-jump-group jumpgroup:<jumpgroup-code-name> --jc-public-site-address
support.example.com --jc-session-policy-present <session_policy_code_name> ....
other desired parameters'
```

- d. Enter **root** as the user name.

5. Save the workflow and click the **Run** button.
6. While the Jump Client is installing, a splash screen will appear on the remote systems, and a BeyondTrust icon will briefly appear in the dock. If you did not check **Start Customer Client Minimized When Session Is Started**, then the customer client will momentarily appear as the Jump Client makes its first connection; it will then disappear.
7. The Jump Client is now installed and appears in the menu bar.
8. After a short interval, refresh the Jump Client interface in the representative console to see the Jump Client. As with all Jump Clients, you must have permission to access this Jump Client to see it in your list.