Migrating Parallels MDM Server to Parallels Mac Management v8.5

- Parallels Device Management

Parallels MDM Server changes in Parallels Mac Management v8.5

Beginning with **Parallels Mac Management for Microsoft SCCM v8.5**, the **Parallels MDM** functionality has changed. The older **Parallels MDM Server** component is no longer used. It was split into **Parallels IBCM/MDM Proxy** (the Internet facing part) and the new **Parallels MDM service** (the Intranet part). When upgrading to **Parallels Mac Management v8.5**, you can migrate the existing **MDM** setup or you can discard it and then re-enroll **Mac** computers in **MDM** using the new functionality from scratch. This article describes possible **MDM** migration scenarios when upgrading to **Parallels Mac Management v8.5**.

Upgrading Parallels Mac Management

The first and the simplest option is to upgrade **Parallels Mac Management** to version **8.5** first and then migrate the older **MDM** setup. To use this option, follow the steps below:

1. Upgrade all **Parallels Mac Management** components to version **8.5**, including the installation of the **Parallels IBCM/MDM Proxy** component. For details, refer to the Parallels Mac Management IT Administrator's Guide.
2. When configuring **Parallels ConfigMgr Proxy**, on the **Prerequisite Checks** page you should see a warning message saying that **MDM** data from the previous version of **Parallels Mac Management** must be migrated to enable **Parallels MDM**. Read the note and then continue.
3. Later on you will have to choose from the **MDM** migration options:

4. Choose the **Skip this step and migrate MDM setup later** option and click **Next**.
5. Continue configuring the rest of **Parallels Mac Management** components.
6. When you are done with configuration, make sure that **Parallels Mac Management** is working properly. The **MDM** functionality will not work at this time (because we skipped the migration step). To enable **MDM**, the **MDM** data must be migrated or you can discard it and re-enroll devices in **MDM** from scratch. Read on to learn how to do it.

7.

Migrate the older Parallels MDM setup

To migrate the older **Parallels MDM** setup to the new version you will need to perform the following steps (they are described in detail later in this article):

1. Create an **MDM** data migration package.
2. Migrate the data to the new version.
3. Configure the **MDM link**.
4. Redirect older **MDM** clients to the new setup.

Create the MDM data migration package

To create the **MDM** data migration package:

1. On the server hosting the upgraded **Parallels Configuration Manager Proxy**, navigate to the following folder:

   ```
   [PMM_PROXY_INSTALLATION_DIR]/mdmservicemigration
   ```
2. Copy the entire folder to any place on the host where the old **Parallels MDM Server** is running.
3. On the **Parallels MDM Server** host, open **Command Prompt**, go to the folder you just copied and run the

pmm_collect_mdm_data.cmd file. The file is a script that collects the existing **MDM** data and saves it as the ***pmm-mdm-data.package.zip*** file in the same folder.

4. When the package is created, copy it to any folder on the server where the upgraded **Parallels Configuration Manager Proxy** is installed.
5. Migrate the **MDM** data (see below).

Migrate MDM data to new version

To migrate the **MDM** data:

1. Run the **Parallels Configuration Manager Proxy Configuration Wizard**.
2. Advance to the **Prerequisite Checks** page. You should see a warning message saying that **MDM** data from the previous version of **Parallels Mac Management** must be migrated to enable **Parallels MDM**.
3. On the next page, select the **Migrate MDM setup now** option.

4. Click the **Browse** button and select the **MDM** package file (***pmm-mdm-data.package.zip***) that you created and copied to this server earlier.
5. Follow the onscreen instructions and complete the wizard.

Configure the MDM link

To complete the **MDM** setup:

1. Make sure you have installed and configured **Parallels IBCM/MDM Proxy**.
2. Configure the **MDM link** in the **Configuration Manager** console.
3. For complete instructions, please refer to the Parallels Mac Management IT Administrator's Guide.

From this point you will be able to enroll devices in the **Configuration Manager** using new **MDM** and manage them using **MDM** functions.

Please note that the older **MDM** clients will still try to communicate with the older setup because they have the older **MDM URL**. Continue reading to learn how to redirect the old URL.

Import MDM Service Certificate

For devices to be able to enroll in **MDM**, you need to import the **Parallels MDM service** certificate to the certificate store on the **Parallels IBCM/MDM Proxy server.**

To import the certificate:

1. Log in to the computer where **Parallels Configuration Manager Proxy** is installed and export the certificate named Parallels **MDM Service** (without the private key) from the ***Local Computer / Personal store***. To export the certificate, open the ***Certificates snap-in*** (run the certlm command), then navigate to ***Local Computer / Personal***, locate the **Parallels MDM Service** certificate, right-click it and choose **All Tasks > Expor**t.
2. Now log in to the computer where **Parallels IBCM/MDM Proxy** is installed and import the certificate from the previous step into the ***Computer / Trusted Root Certificates store***. When running the ***Certificate Import Wizard***, select 'Place all certificates in the following store' and choose **Trusted Root Certificates** in the drop-down list.

Redirect older MDM clients to new MDM using Microsoft Internet Information Server (IIS)

As the final step of **Parallels MDM** migration you have to redirect older **MDM** clients to new **MDM**. This can be done using **IIS**, which must be installed on the old **MDM Server** host.

To set up **IIS** for redirection:

1. Install the **URL Rewrite** extension for **IIS**. The extension can be downloaded from https://www.iis.net/downloads/microsoft/url-rewrite
2. Run **Internet Information Services (IIS) Manager**.
3. In the **Connections** pane, right-click the **Sites** node and select **Add Web Site**.
4. In the **Add Web Site** dialog, enter any name (e.g. *PmmMdmRedirect*).
5. In the **Physical path** box, specify the physical path to use for the website folder (e.g. *C:\PmmMdmRedirect* - create this folder on the local drive).
6. In the **Binding** group, specify the **Type** as *https* and the **Port** number which you used for incoming **Mac** connections on the old **Parallels MDM Server**.
7. Select the **SSL certificate** which was used for configuring the older **MDM**.

8. Click **OK** to create the custom website.
9. **In the root folder of the website** (*C:\PmmMdmRedirect* in the example above*)*, put the **web.config** file with the following content, replacing: *{new-mdm-server-host}* with actual host name, where the new **MDM server** is installed; *{new-mdm-server-port}* with the *Port for Internet connections* of the **MDM Proxy Link** configuration; *{site-code}* with the **MDM server** site code.

```
<?xml version="1.0" encoding="UTF-8"?>
<configuration>
    <system.webServer>
        <rewrite>
            <rewriteMaps>
                <rewriteMap name="StaticRedirects">
                    <add key="/checkin" value="https://{new-mdm-server-host}:{new-mdm-server-por
                    <add key="/command" value="https://{new-mdm-server-host}:{new-mdm-server-por
                </rewriteMap>
            </rewriteMaps>
            <rules>
                <rule name="Redirect rule" stopProcessing="true">
                    <match url=".*" />
                    <conditions>
                        <add input="{StaticRedirects:{REQUEST_URI}}" pattern="(.+)" />
                    </conditions>
                    <action type="Redirect" url="{C:1}" appendQueryString="false" logRewrittenUr
                </rule>
            </rules>
        </rewrite>
    </system.webServer>
</configuration>
```

10. Start the created website in **IIS**.

This concludes the **MDM** migration part.

Discarding the old MDM data

As was said earlier, you also have an option to discard the existing **MDM** setup (without migrating it). If you choose this option, you can install **Parallels Mac Management**, including the necessary **MDM** components, and then re-enroll devices in **MDM** from scratch. This can be a viable option if you don't have a lot of devices enrolled in **MDM** and if re-enrolling them would be simpler than performing the **MDM** migration described above.

To discard the **MDM** data:

1. In the **Parallels ConfigMgr configuration wizard** select the **Discard the older MDM setup** option:

2. Follow the onscreen instructions and complete the configuration wizard.

De-enrolling Previously Enrolled MDM Clients using Microsoft Internet Information Server (IIS)

When you choose to discard the older **MDM** setup as described above, you need to de-enroll existing devices from the old **Parallels MDM Server**. This must be done before you enroll them using the new **Parallels MDM** functionality. De-enrolling can be performed using **IIS**, which must be installed on the old **MDM Server** host.

To set up **IIS** for de-enrollment:

1. Ensure that the IIS **URL Authorization** module is installed.

2. Create a custom website for de-enrollment.
    1. Run **Internet Information Services (IIS) Manager**.
    2. In the **Connections** pane, right-click the **Sites** node and select **Add Web Site**.
    3. In the **Add Web Site** dialog, enter any name (e.g. *PmmMdmDeEnrollment*).
    4. In the **Physical path** box, specify the physical path to use for the website folder (e.g. *C:\PmmMdmDeEnrollment* - create this folder on the local drive).
    5. In the **Binding** group, specify the **Type** as *https* and the **Port** number which you used for incoming **Mac** connections on the old **Parallels MDM Server**.
    6. Select the **SSL certificate** which was used for configuring the older **MDM**.
    7. Click **OK** to create the custom website.
    8. In the root folder of the website, put the **web.config** file with the following data in it:

```
<?xml version="1.0" encoding="UTF-8"?>
<configuration>
  <system.webServer>
    </security>
      </authorization>
        <remove users="*" roles="" verbs ="" />
      </authorization>
    </security>
  </system.webServer>
</configuration>
```

3. Start the created web site in **IIS**.

4. When the custom website is created as described above, the devices that are currently enrolled in **Parallels MDM** will try to access it and will get ***HTTP response status 401 (Unauthorized)***. As a result, they will discard their **MDM** profiles, effectively de-enrolling from **MDM**. A device restart my be required to completely discard the existing **MDM** profile. Once all of the devices are de-enrolled, you can remove the website.

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