



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 > Export**.
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-port}/checkin/{site-code}" />
          <add key="/command" value="https://{new-mdm-server-host}:{new-mdm-server-port}/command/{site-code}" />
        </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" logRewrittenUrl="true" />
        </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 may be required to completely discard the existing **MDM** profile. Once all of the devices are de-enrolled, you can remove the website.

© 2024 Parallels International GmbH. All rights reserved. Parallels, the Parallels logo and Parallels Desktop are registered trademarks of Parallels International GmbH. All other product and company names and logos are the trademarks or registered trademarks of their respective owners.