Migrating RecoveryManager Plus to a new server
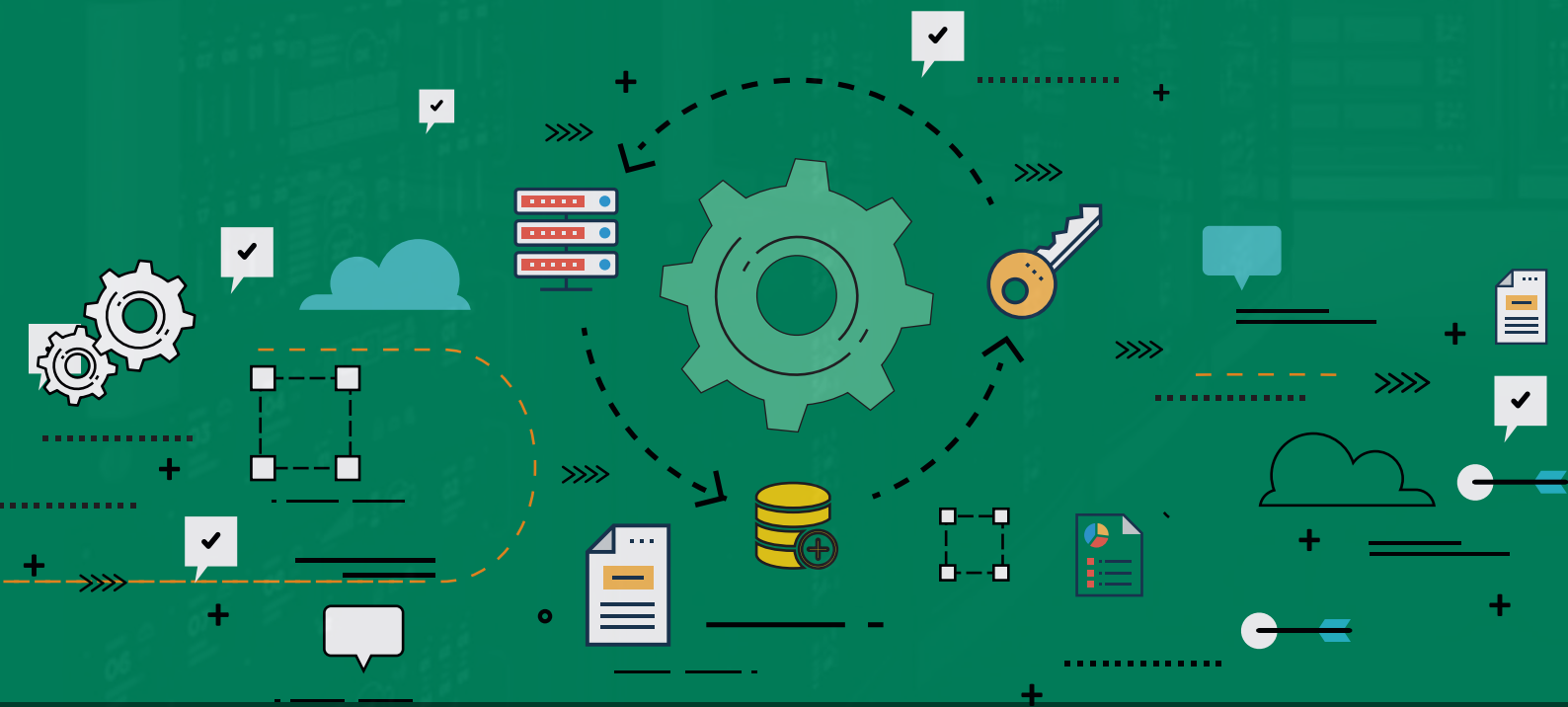
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Introduction

This document will guide you through the process of migrating your RecoveryManager Plus installation from one machine to another.

Before you begin:

- If you have configured more than one Elasticsearch node, please contact support@recoverymanagerplus.com for assistance.

- Don't uninstall RecoveryManager Plus from the old machine until the migration is complete and the new instance is completely functional.

- You should update to the most recent build using a service pack before migrating the product. If there's no way to update to the most recent build using a service pack, contact support@recoverymanagerplus.com and we'll help you with the migration.

Procedure for migration

There are two ways in which you can migrate:

1. Move the existing RecoveryManager Plus installation from the current location to a new location or server.

2. Download and install RecoveryManager Plus on the new server, then restore the database backup taken from the old instance.

Method 1

Move the existing RecoveryManager Plus installation from the current location to a new location or server

Following the below steps will migrate the license and data (configuration)

1. Ensure RecoveryManager Plus is updated to the latest build using the appropriate service pack.

2. Start **RecoveryManger Plus.**

3. Stop **RecoveryManager Plus.** (Go to **services.msc** and stop the **ManageEngine RecoveryManager Plus service).**

4. Copy the entire **RecoveryManager Plus folder** from the old server to the new server or drive. Make sure you verify the folder size matches on both servers.

5. You don't have to do steps a. and b. below if you are installing RecoveryManager Plus in the same folder on the new machine as on the old machine. If you are installing it in a different path:

   a. Open the **Command Prompt** as an administrator and navigate to **<Installation_Dir>\bin.**

   b. Execute the **ServerMigration.bat "<Old_Path>"** command.

   Note: Here, **<Old_Path>** is the path in which RecoveryManagerPlus product was installed in the old machine.

   Example:

   ServerMigration.bat "C:\ProgramFiles\ManageEngine\RecoveryManagerPlus"

6. Navigate to **Start >All Programs.**

7. Select **RecoveryManager Plus** and click **Install RecoveryManager Plus as Service.**

8. The above steps copy all the data stored in the local repositories that are created under the installation directory. To copy all the backup and ElasticSearch data stored outside the installation directory, the data must be moved manually to the new location.

   Example: According to the below image, the highlighted repositories are created outside the installation directory. You must manually copy the data from **C:\BackupData** in your old machine to **C:\BackupData** in the new machine. Follow the same steps for the remaining repositories.
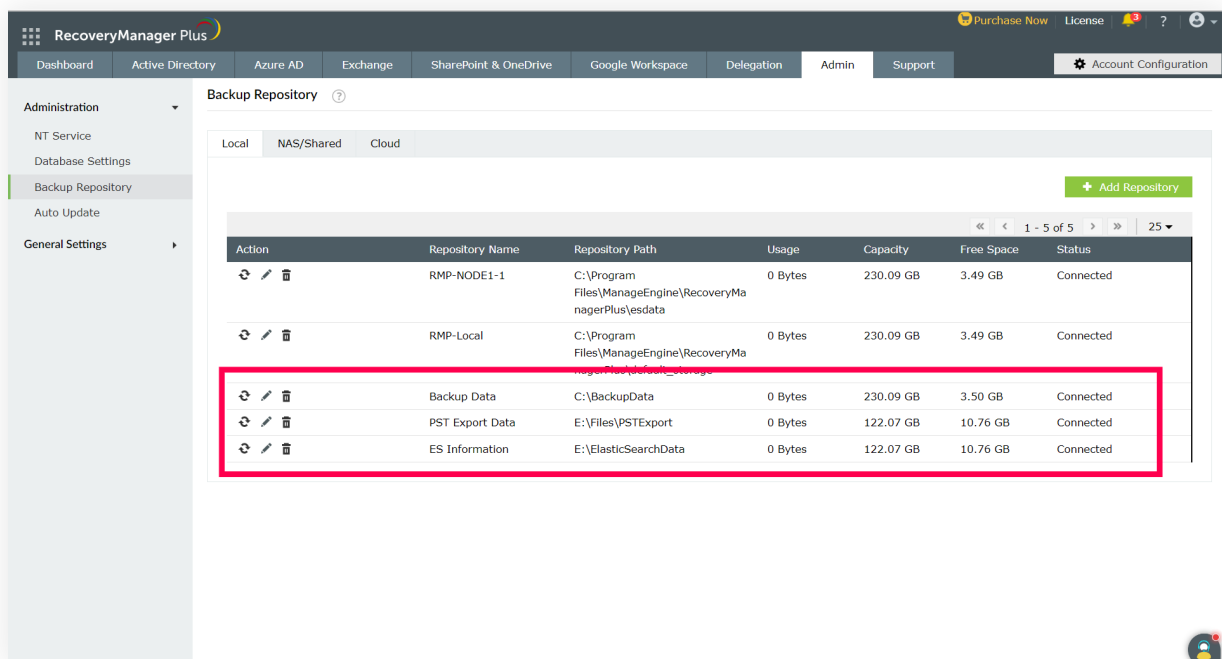
9. Start **RecoveryManager Plus** by going to **services.msc > ManageEngine RecoveryManager Plus Service** and start the **service.**

Method 2

Download and install RecoveryManager Plus on the new server, then restore the database backup taken from the old instance

RecoveryManager Plus uses Elasticsearch databases for storing all the metadata of your AD, Microsoft Entra ID, Microsoft 365, Exchange, Google Workspace, and Zoho WorkDrive backups.

RecoveryManager Plus also comes bundled with a PostgreSQL database to store product configurations, but it can be changed to Microsoft SQL at your discretion.

To successfully migrate your RecoveryManager Plus installation from one server to another, you'll need to migrate both Elasticsearch and PostgreSQL/Microsoft SQL databases to the new server.

The steps involved in migrating RecoveryManager Plus vary based on the database you use.
- If you use a PostgreSQL database, follow the steps listed here.
- If you use an Microsoft SQL database, follow the steps listed here.

Note: If you're not sure about what database is in use, click here for instructions on how to identify the database.

Migrating the PostgreSQL database

Step 1: Back up the database from the old server.

1. Ensure RecoveryManager Plus is updated to the latest build using the appropriate service pack.

2. Open the **Command Prompt** as an administrator and navigate to the **<Installation_Dir>\bin** folder.

3. Execute the **backupDB.bat** command.

4. In the *<Installation_Dir>\backup* folder, the backup will be stored in a ZIP file titled something like **OfflineBackup_20230619171112.ezip**. Copy the **backup file.**

5. Close the **Command Prompt.**

6. Take a backup of the c**ustomer-config.xml** file from the *<installation_Dir>\conf* folder.

   If your current installation has a Microsoft 365 tenant configured, make sure to copy the contents

7. inside *<installationdir>\conf\AzureApp.*

   Navigate to **<installation_Dir>\RecoveryManagerPlus\conf** and take a backup of the

8. **BackupStorage folder.**

   If you have enabled smart card authentication, navigate to *<installation_Dir>\backup folder* and

9. take a backup of the **root certificate file** for smart card authentication.

Step 2: Restore the database in the new machine.

1. Install the latest version of **RecoveryManager Plus** on the new machine.

2. Navigate to **<installation_Dir>\conf** and replace the **customer-config.xml** file from the prior steps in the new installation folder.

3. Start the product, and log in using the default admin credentials.

4. Stop the newly installed instance of **RecoveryManager Plus** (Click **Start > All Programs > RecoveryManager Plus** and stop **RecoveryManager Plus).**

5. Paste the **backup ZIP files** (titled something like **OfflineBackup_20230619171112.ezip)** in the **<installation_Dir>\bin** folder in the new machine.

6. Paste the **Microsoft 365 tenant data** in the **<installationdir>\conf\AzureApp folder.**

7. Open the **Command Prompt** as an administrator and navigate to the **<installation_Dir>\bin folder.**

8. Execute the **restoreDB.bat -d "<DB_BackupFileName>" -m** command.
   Here, **<DB_BackupFileName>** is the name of the PostgreSQL databases' backup ZIP file.

9. Close the **Command Prompt.**

10. In the new installation, navigate to **<installation_Dir>\RecoveryManager Plus\conf** and restore the **BackupStorage** folder copied in the prior steps.

11. If you have enabled smart card authentication, navigate to **<installation_Dir>\backup** and replace the **root certificate file** the with the backed-up file in the new installation.

12. Start **RecoveryManager Plus.**

Step 3: Restoring SSL certificates and your license.

If you had enabled the HTTPS option for RecoveryManager Plus in the old installation, copy the server.xml and web.xml files from the <Installation_Dir>\conf folder in the old machine and paste them in the same location in the new machine.

Copy the certificate file from the old machine (the location of which can be found in the server.xml file inside a connector tag) and paste it in the same location in the new machine.

```
<Connector SSLEnabled="true" acceptCount="100"
ciphers="TLS_ECDHE_RSA_WITH_AES_128_CBC_SHA256,TLS_ECDHE_RSA_WITH_AES_128_CBC_SHA,TLS_ECDHE_RSA_WITH_AES_256_CBC_SHA384,TLS_ECDHE_RS
A_WITH_AES_256_CBC_SHA,TLS_RSA_WITH_AES_128_CBC_SHA256,TLS_RSA_WITH_AES_128_CBC_SHA,TLS_RSA_WITH_AES_256_CBC_SHA256,TLS_RSA_WITH_AES
_256_CBC_SHA" clientAuth="false" connectionTimeout="20000" debug="0" disableUploadTimeout="true" enableLookups="false"
keystoreFile=".\conf\server.p12" keystorePass="adventnet" keystoreType="PKCS12" maxHttpHeaderSize="65535" maxSpareThreads="75"
maxThreads="150" minSpareThreads="25" name="SSL" port="8558" scheme="https" secure="true"
sslEnabledProtocols="TLSv1,TLSv1.1,TLSv1.2" sslProtocol="TLS"/>
```

Log in to the new instance of RecoveryManager Plus and click the License link in the top-right corner of the screen to reapply the license.

Note: If you're using a version of RecoveryManager Plus that supports backup and restoration of Windows Servers and virtual machines (VMware and Hyper-V) and the backups are stored in a local folder in the old machine, follow the steps listed here to complete the migration.

Migrating your Microsoft SQL database

Step 1: Back up the database from the old server.

1. Update RecoveryManager Plus to the latest build using the appropriate service pack.

2. Open the **Command Prompt** as an administrator and navigate to the **<Installation_Dir>\bin** folder.

3. Execute the **backupDB.bat** command.

4. In the **<Installation_Dir>\backup** folder, the backup will be stored in a ZIP file titled something like **OfflineBackup_20230619171112.ezip**. Copy the **backup file.**

5. Take a backup of the **database_params.conf, system_properties.conf,** and **customer-config.xml** files from the *<installation_Dir>\conf* folder.

6. If your current installation has M365 tenant configured, make sure to copy the contents inside **<installationdir>\conf\AzureApp.**

7. Navigate to **<installation_Dir>\RecoveryManager Plus\conf\Persistence** and copy the **persistence-configurations.xml** file.

8. Navigate to **<installation_Dir>\RecoveryManagerPlus\conf** and take a backup of the **BackupStorage** folder.

9. If you have enabled smart card authentication, navigate to the **<installation_Dir>\backup** folder and take a backup of the root certificate file for smart card authentication.

Step 2: Initialize the Microsoft SQL database in the new machine.

1. Install the latest version of RecoveryManager Plus on the new machine, start the product and login using the default admin credentials.

2. Stop the newly installed instance of **RecoveryManager Plus** (Click **Start > All Programs > RecoveryManager Plus** and stop **RecoveryManager Plus**).

3. Navigate to **<installation_Dir>\conf** and replace the **database_params.conf, system_properties.conf,** and **customer-config.xml** files from the prior steps in the new installation folder.

4. Navigate to **<installation_Dir>\RecoveryManager Plus\conf\Persistence** and replace the file **persistence-configurations.xml** copied in the previous step.

5. Install the SQL native client in the new machine as per the Microsoft SQL Server version.

Microsoft SQL Server Version	Native Client
2008	Download
2012	Download
2014	Download
2016	Download
2017	Download

6. Paste the **backup ZIP files** (titled something like **OfflineBackup_20230619171112.ezip)** in the *<installation_Dir>\bin* folder in the new machine.

7. Paste the **M365 tenant data** in *<installationdir>\conf\AzureApp.*

8. Open the **Command Prompt** as an administrator and navigate to the *<installation_Dir>\bin* folder.

9. Execute the **restoreDB.bat -d "<DB_BackupFileName>" -m** command.

10. Here, **<DB_BackupFileName>** is the name of the Microsoft SQL databases' backup ZIP file.

11. Close the **Command Prompt.**

12. In the new installation, navigate to **<installation_Dir>\RecoveryManager Plus\conf** and restore the **BackupStorage** folder copied in the previous step.

13. If you have enabled smart card authentication, navigate to **<installation_Dir>\backup** and replace the **root certificate file** from the previous step in the new installation folder.

14. Start **RecoveryManager Plus.**

Step 3: Restoring SSL certificates and your license.

If you had enabled the HTTPS option for RecoveryManager Plus in the old installation, copy the server.xml and web.xml files from the **<Installation_Dir>\conf** folder in the old machine and paste them in the same location in the new machine.

Copy the certificate file from the old machine (the location of which can be found in the server.xml file inside a connector tag) and paste it in the same location in the new machine.

```
<Connector SSLEnabled="true" acceptCount="100"
ciphers="TLS_ECDHE_RSA_WITH_AES_128_CBC_SHA256,TLS_ECDHE_RSA_WITH_AES_128_CBC_SHA,TLS_ECDHE_RSA_WITH_AES_256_CBC_SHA384,TLS_ECDHE_RS
A_WITH_AES_256_CBC_SHA,TLS_RSA_WITH_AES_128_CBC_SHA256,TLS_RSA_WITH_AES_128_CBC_SHA,TLS_RSA_WITH_AES_256_CBC_SHA256,TLS_RSA_WITH_AES
_256_CBC_SHA" clientAuth="false" connectionTimeout="20000" debug="0" disableUploadTimeout="true" enableLookups="false"
keystoreFile=".\conf\server.p12" keystorePass="adventnet" keystoreType="PKCS12" maxHttpHeaderSize="65535" maxSpareThreads="75"
maxThreads="150" minSpareThreads="25" name="SSL" port="8558" scheme="https" secure="true"
sslEnabledProtocols="TLSv1,TLSv1.1,TLSv1.2" sslProtocol="TLS"/>
```

Log in to the new instance of RecoveryManager Plus and click the License link in the top-right corner of the screen to reapply the license.

Note: If you're using a version of RecoveryManager Plus that supports backup and restoration of Windows Servers and virtual machines (VMware and Hyper-V) and the backups are stored in a local folder in the old machine, follow the steps listed here to complete the migration.

Additional steps

Once you have finished the above mentioned steps to migrate either your Microsoft SQL database or PostgreSQL database, proceed with the following steps.

1. You don't have to do this step if you are installing RecoveryManager Plus in the same folder on a new machine as on the old machine. If you are installing it in a different path:

- Open the **Command Prompt** as an administrator and navigate to the **<Installation_Dir>\bin** folder.

- Execute the **ServerMigration.bat "<Old_Path>"** command.

  Note: Here, **<Old_Path>** is the path in which RecoveryManagerPlus product was installed on the old machine.
 Example:
  ServerMigration.bat "C:\ProgramFiles\ManageEngine\RecoveryManagerPlus"

2. To copy all the data stored in the local repositories that are created under the installation directory to the new installation directory:

- If the path of the local repositories in which the data is stored is under the RecoveryManager Plus installation directory, for example, **<old_installation_dir>\bin\backup_folder,** you must move all backups to **<new_installation_dir>\bin\backup_folder** in the new machine.

- Example: In the below screenshot, the repositories highlighted in red are the repositories under the installation directory that needs to be copied by following the above mentioned step.

3. To copy all the backup and ElasticSearch data stored outside the installation directory, the data must be moved manually to the new location.

- Example: In the below screenshot, the repositories highlighted in blue are the repositories outside the installation directory. You must manually copy the data from **C:\BackupData** in your old machine to **C:\BackupData** in the new machine. Follow the same steps for the remaining repositories.
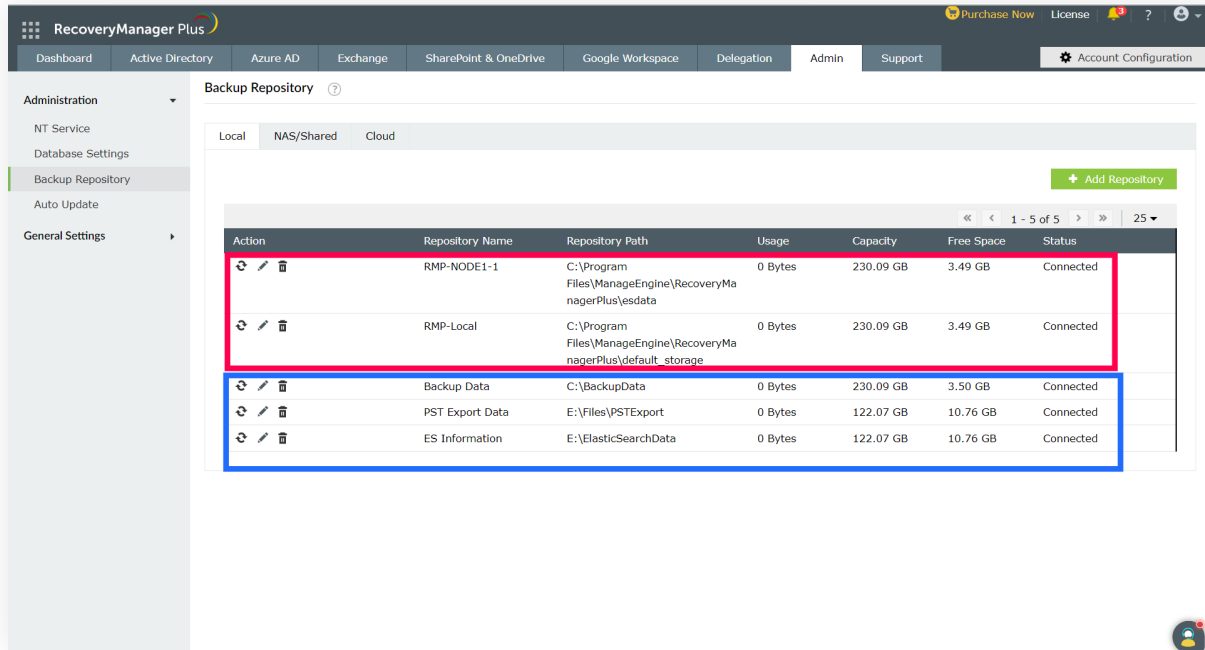
Database identification

1. Navigate to **Admin > Administration > Database Settings > Database Configuration**

2. Under the SQL tab, you can find the database information as shown in the image below.
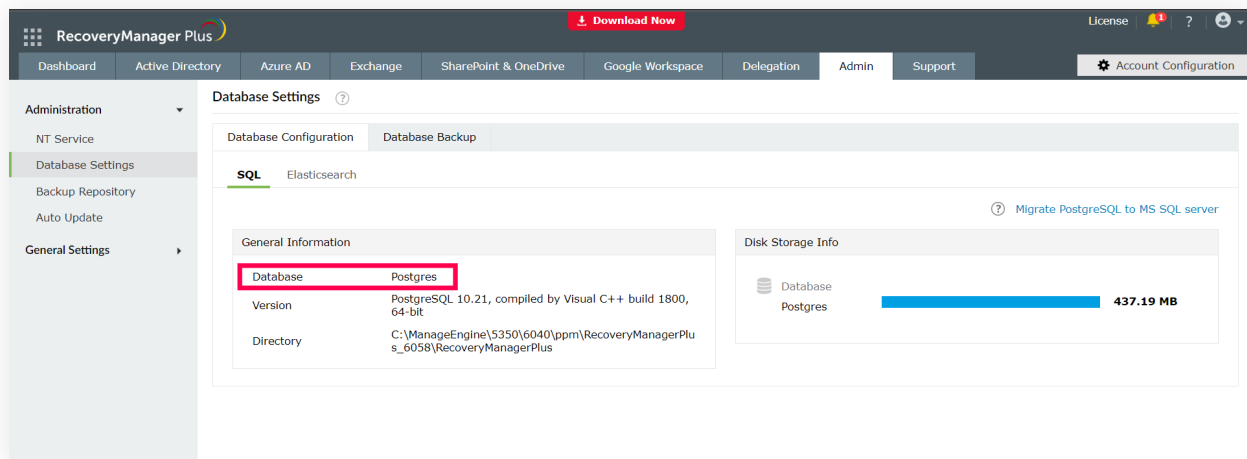
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RecoveryManager Plus

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RecoveryManager Plus

ManageEngine RecoveryManager Plus is a comprehensive backup and recovery solution for Active Directory, Entra ID, Microsoft 365, Google Workspace, on-premises Exchange and Zoho WorkDrive environments. With its incremental backups, flexible retention policies, backup immutability and multiple modes of restoration—such as domain controller recovery and object-, item- and attribute-level restoration—RecoveryManager Plus delivers a holistic solution for ensuring seamless business continuity by backing up all enterprise application data.

For more information, visit www.manageengine.com/ad-recovery-manager.

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