



Server Installation Guide

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If you encounter any technical issues, we recommend that you visit the Dataverse Forums at <https://help.lavastorm.com/>. If your query has not been discussed previously in the forums, you can create a new topic and receive answers from our Dataverse experts. Alternatively, you can log a ticket by emailing support at help@lavastorm.com.

Our product is constantly evolving and input from you is highly valued. If you have any suggestions, please contact the product team at product@lavastorm.com.



Tip: We recommend that you check our website for the latest documentation as minor updates or improvements may be made to the Help between releases.



Note: The images in this help are used purely for illustrative purposes and may display license-dependent functionality.

Table of contents

1. Setup requirements	1
2. Pre-installation steps (Linux only)	3
3. Downloading and installing Dataverse	4
4. Upgrading to the latest version of Dataverse	6
5. Launching the software and accessing help	8
6. Post-installation configuration	9
7. Starting and stopping the Dataverse Server	10
7.1 Starting / stopping the server on Windows Server	10
7.2 Starting / stopping the server on Linux	11
8. Uninstalling Dataverse	12

1. Setup requirements

Supported platforms

The following operating systems are supported on Dataverse Server:

- Windows Server 2012R2 64-bit
- RedHat Enterprise 6.X 64-bit
- RedHat Enterprise 7.X 64-bit

The following browsers are supported:

- Chrome
- Internet Explorer 11

System requirements

The minimum hardware specification for this release is as follows:

- 8GB RAM base + 1GB for Database + 2GB per core.



Note: As the number of users and/or the number of scheduled jobs increases, you should look to increase the number of cores and thus memory.



Note: The Power R node and the nodes in the Statistical and Predictive Node Pack process data in-memory. Additional RAM will be required when processing data sets with a large volume of data. Similarly, if the R node is used, the machine hosting the R environment must have sufficient available RAM to process the data.

App servers

- Tomcat 8.5.11

App server databases

- Postgres

Authentication servers

- Active Directory
- OpenLDAP

Authentication protocols

- LDAP
- LDAPS

Accessible databases

Within the Designer, you can connect your analytic application to a number of databases. The following accessible databases are supported:

- Oracle 11g, 12c
- Teradata 14.10 / 15.10
- MySQL
- MS SQL Server 2012
- MongoDB 2.4.9
- Spark 1.5.0
- Hadoop 2.6.0

Concurrent users

Up to 20 users.

2. Pre-installation steps (Linux only)

The following steps are only applicable if you are installing on Linux. If you are installing Dataverse on Windows Server the following steps do not apply, please see [Downloading and installing Dataverse](#).

1. Disable Security Enhanced (SE) Linux before installing.
2. Create a user to install Dataverse (you can use any username). To create a user account as root execute the following command:

```
/usr/sbin/adduser -m -d <users-directory> <user name>
```
3. Prepare for installation by identifying the following directories:

Directory	Description / example
Dataverse installation directory	By default, the Dataverse software installs under your local user location, but you can change this to any other location that you have access to. Default location: <code>/home/<user>/Dataverse</code>
Site configuration directory	This is the location where your customer-specific files are stored, including configuration files and application logs. During installation, you can set this to any location that you have access to that has sufficient space.
Data directory	This is the location where the Postgres Database and all of your data files are stored. During installation, you can set this to any location that you have access to. As the data directory will grow in size as you work with Dataverse, ensure that you choose a location that has sufficient space and fast access.

3. Downloading and installing Dataverse

- ✓ If you are installing on Linux, you must first complete the steps outlined in [Pre-installation steps \(Linux only\)](#) before following the steps below.
- ✓ If you are installing on Windows Server, in order to run Postgres, you must ensure that you have the required [Visual C++ packages](#) installed.

If you are upgrading from a previous version of Dataverse, please see [Upgrading to the latest version of Dataverse](#). If you have no previous installation of Dataverse, please follow the steps below:

1. Download the software from: <http://www.lavastorm.com/product-downloads/>
2. After purchasing a server edition of Dataverse, or if you are participating in an evaluation of the product, you will receive an email with a link to activate your license:
 - a. From the machine that you will be installing Dataverse on, click the link provided, then enter your machine's **Hostname** (Computer name).
 - b. Click the blue **Activate** button.
 - c. Download the license file by clicking the green **Download** button, then save the license file in a safe location as you will need to reference the location during installation.
3. **Windows Server:** You must have administrative privileges to run the installation. Right-click the application installation file and select **Run as administrator**.

Linux: The user who will be performing the installation should be logged onto the computer. Start the installation by typing the following command, where <Dataverse installer> is replaced with the name of the installer e.g. `Dataverse_3_1_3-Server-linux-x86-64` (note that if no GUI is available, the installer will fall back to a command line install):

```
./<Dataverse installer>.sh
```

The installer will guide you through the process step by step. The key steps are called out below.

4. If you want to restore to a backup file, when prompted, select **Restore from a backup** then browse to the backup file that you want to restore to.
5. You will be asked to provide a location for the **Site Configuration Directory**. This is the location where your customer-specific files are stored, including your license file, configuration files and application logs. You also need to specify a location for the **Data Directory**. This is the location where your data files and the Postgres Database are stored. You can set these to any locations that you have access to.



Note: As the Data Directory will grow in size as you work with Dataverse, ensure that you choose a location that has sufficient space and fast access.

6. When prompted, accept the default port number for the Dataverse server, or specify any other port number that is not in use. You will be required to repeat this action for the Tomcat Server and the Postgres Database later in the installation.
7. When prompted, enter the path to your **Dataverse License File**, then click **Next**. The license file must be a ".lic" file.
8. When prompted, enter a **Security Store Password**. For increased security, do not select **Store Password**. If you do not store the security store password, you will be asked to enter it each time you restart the Tomcat Server and then launch Dataverse before you reach the Dataverse sign in screen.



Tip: The security store safely stores encrypted values, such as the LDAP/AD import binding user password and encryption keys used to encrypt password property values.

9. If you are restoring to a backup file, after installation, complete the following additional steps:
 - a. Stop the server, see [Starting and stopping the Dataverse Server](#).
 - b. Move the `executions` folder that you copied before uninstalling (see [Uninstalling Dataverse](#)) back into the following location:
`<Dataverse site configuration directory>/data`
 - c. Restart the server, see [Starting and stopping the Dataverse Server](#).

You are assigned the following default user credentials:

- Username: admin
- Password: welcome



Tip: We recommend that you change your password the first time that you sign in to Dataverse. You can change your password from the Directory, see the integrated help for more information.

The installer will deploy all Dataverse components on the same machine (web application, hosting app server, Dataverse server and database).

See [Post-installation configuration](#) for a list of additional configuration steps to complete after installation.

4. Upgrading to the latest version of Dataverse

If you have no previous installation of Dataverse, please see [Downloading and installing Dataverse](#). If you have an existing installation of Dataverse, please follow the steps below to upgrade:

1. Before upgrading, ensure that you have a recent backup file. By default, a backup is performed daily at 2:00 a.m, and the twenty most recent backups are saved in the Dataverse data directory that you specified when you first installed Dataverse, for example:

C:\Users\/home/<user>/Dataverse/data-7731 on Linux.

2. Download the software from: <http://www.lavastorm.com/product-downloads/>
3. **Windows Server:** You must have administrative privileges to run the installation. Right-click the application installation file and select **Run as administrator**.

Linux: The user who will be performing the installation should be logged onto the computer. Start the installation by typing the following command, where <Dataverse installer> is replaced with the name of the installer e.g. Dataverse_3_1_3-Server-linux-x86-64 (note that if no GUI is available, the installer will fall back to a command line install):

```
./<Dataverse installer>.sh
```

The installer will guide you through the upgrade step by step. The key steps are called out below.

4. You will be prompted to choose where to install Dataverse. Select **Yes, update the existing installation** to uninstall the previous version of Dataverse before installing the latest version in the same location, or select **No, install into a different directory** if you want to keep your existing installation of Dataverse and install the latest version in a new location.

The upgrade process creates a backup of the Dataverse site configuration directory that you specified when you first installed Dataverse.

5. Launch Dataverse, see [Launching the software and accessing help](#).

During the upgrade, your data flows and nodes are automatically imported into the new version of Dataverse. If at any point you want to manually import the assets that you exported in step 1, you can do this by selecting **Import > Data Flows or Nodes** from the Directory. For more information on exporting and importing your data flows and nodes, see the integrated product help.

The installer will use your existing license to complete the upgrade process. If at any point after installation you want to apply a new license, you can do this by selecting **Licensing** from the Help menu in the top right corner of the Dataverse screen. For more information on applying a new license, see the integrated product help.

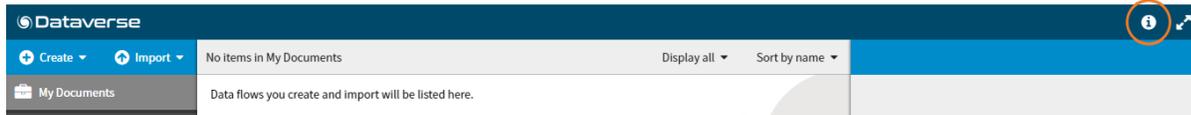
The installer will deploy all Dataverse components on the same machine (web application, hosting app server, Dataverse server and database). The settings that you specified when you first installed Dataverse will be reused, including the site configuration directory, data directory, port numbers, and security store settings.

See [Post-installation configuration](#) for a list of additional configuration steps to complete after installation.

5. Launching the software and accessing help

Launch the application in your browser. The default URL is `http://<yourdomain>:8080`.

You can access the Getting Started guide from inside the product by clicking the Help icon in the corner of the screen.



For further information about this release, please see the Release Notes. If you encounter any issues, we recommend that you visit the Dataverse Forums at <https://help.lavastorm.com/>. If your query has not been discussed previously, you can create a new topic and receive answers from our Dataverse experts. Alternatively, you can log a ticket by emailing support at help@lavastorm.com.

6. Post-installation configuration

After installation, there are a number of additional configuration steps that you may want to complete before working with Dataverse:

- Create and import users and groups.
- Integrate Dataverse with your LDAP/AD source system.
- Install any required database drivers.
- Import any existing data flows.
- Add SSL certificates.
- Change the location of temporary files.
- Configure system backup properties.
- Configure file upload / download properties.
- Configure the automatic clean up of scheduled runs.
- Configure the usage data collection settings, if required.
- Adjust the Java heap space, if required.



Note: The actual functionality of your installation may vary depending on your license and user role. To learn more about Dataverse product options, please visit <http://www.yourdataverse.com/product/#features>.

You can read more about each of the above steps in the integrated product help.

7. Starting and stopping the Dataverse Server

The default port numbers are shown below, where <port> is the port number on which the server is listening:

Server	Default port number
DataverseServer3.1-<port>	7731
DataversePostgresServer-3.1-<port>	5432
DataverseTomcatServer3.1-<port>	HTTP: 8080 Stop: 8089

7.1 Starting / stopping the server on Windows Server

From time to time, you may want to restart the Dataverse servers, for example, when directed to do so by Support, or when applying a license post installation.

 **Caution:** The Dataverse server must be stopped before the Tomcat server.

 **Caution:** The Postgres database must be started before the Tomcat server and the Dataverse server.

1. Open the Windows **Services** dialog.
2. From the Windows **Services** dialog, you can complete the following actions:
 - You can start, stop and restart the Dataverse, Tomcat and Postgres database services by right-clicking the service and selecting the relevant option from the context menu.
 - You can configure the server settings by selecting **Properties** from the context menu. For example, you can select a Manual or Automatic Startup type. By default, the server Status is set to Started and the Startup type is set to Automatic.
 - You can view the port number that each service is running on.

7.2 Starting / stopping the server on Linux

You can start or stop the server processes on Linux by executing the following commands:

```
./launchDataverse.sh  
./stopDataverse.sh
```

These commands start / stop all required processes in the correct order on Linux.

8. Uninstalling Dataverse

To successfully uninstall Dataverse, an admin user must run the uninstall process.

1. During installation, you can select a backup file to restore your system to an earlier state. If you want to restore to a backup file during a future installation, you must first complete the following steps before uninstalling:
 - a. Make a copy of the `executions` folder located at:
`<Dataverse site configuration directory>/data/executions`
 - b. Save a copy of this folder somewhere outside of the Dataverse site configuration directory.
2. Navigate to your Dataverse installation directory and double-click the **uninstall** file.

Or, use `./uninstall` to uninstall on Linux via the command line.

The uninstaller will guide you through the process step by step.

3. During the uninstall process you will be prompted to enter a username and password, this user must be an Administrator.
4. When prompted, specify whether you want to retain your data and backup files.



Note: If you want to restore to a backup file during a fresh installation, when prompted, do not select **Include backups for deletion**. This will ensure that any backup files are not deleted from the default location. If you want to retain your data, including data flows and custom nodes, do not select **Delete data directory**.

You can remove all data and backup files by selecting both options. If you select only **Delete data directory**, but do not select **Include backups for deletion**, then your data will be removed but your backup files will be retained, giving you the option to restore to a backup file during a fresh installation.



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