

IBM SPSS Modeler Text Analytics Server for UNIX® Installation Instructions

IBM® SPSS® Modeler Text Analytics Server can be installed and configured to run on a machine running IBM® SPSS® Modeler Server. See the *IBM® SPSS® Modeler Server Administration and Performance Guide* for a description of how the SPSS Modeler Server software works and what you need to do to administer it.

Note: Text mining extraction cannot process Office and PDF files under non-Windows platforms. However, XML, HTML or text files can always be processed.

System Requirements

The minimum hardware and software requirements for IBM® SPSS® Modeler Text Analytics are as follows:

- **Operating system.** Red Hat Enterprise Linux Advanced Platform 6.x (64-bit, and IBM System z 64-bit); Red Hat Enterprise Linux Advanced Platform 5.x (32-bit and 64-bit, and IBM System z 64-bit); Red Hat Enterprise Linux 6.x (64-bit, and IBM System z 64-bit); Red Hat Enterprise Linux 5.x (32-bit and 64-bit, and IBM System z 64-bit); SuSE Linux Enterprise Server 10 or 11 (64-bit, IBM System z 64-bit, and 64-bit POWER systems); Oracle Solaris™ 9.x or 10 (for SPARC 64-bit machines); HP-UX 11i V3 for Itanium 64-bit machines; IBM AIX® 6.1 or 7.1 (for 64-bit POWER systems)
- **Hardware.** Pentium or Pentium-class processor or higher for 32-bit Linux; x64 (AMD 64 and EM64T) processor family for 64-bit Linux; UltraSPARC II or better (for Solaris™); Itanium processor for HP-UX; PowerPC processor, 233MHz or faster and IBM System p for AIX®.
- **Minimum free disk space.** 2 gigabyte (GB) is recommended.
- **RAM.** 4 GB or higher is recommended.
- **Virtual environment.** The following virtual environments support IBM® SPSS® Modeler Server:
 - Windows 2008® Terminal Services and R2
 - Windows 2003® Terminal Services and R2
 - Citrix XenApp 5 – Standard, Advanced and Enterprise
 - Citrix Presentation Server 4.5 – Standard, Advanced and Enterprise
 - VMWare ESX Server 3.5
 - VMWare vSphere 4.0
- **Cluster environment.** The following cluster environments support SPSS Modeler Server:
 - Red Hat Cluster Suite for Red Hat Enterprise Linux
 - Microsoft Cluster Service for Windows
 - Sun Solaris Cluster

- HP ClusterPack for HP-UX (requires additional hardware)
- IBM AIX High-Availability Cluster Multi-Processing (HACMP) - also known as Power HA.
- Either a DVD-ROM drive, or, if using downloaded files, details of the location where the installation files are stored.
- A network adaptor running the TCP/IP network protocol.

Client software. The client software must be at the same release level as the IBM SPSS Modeler Text Analytics software.

Installing

You can install SPSS Modeler Text Analytics Server as *root* or as a non-root user. If your site restricts the use of the *root* password, follow the instructions under the next heading to set up a non-root user to install, configure, and start and stop the server, otherwise continue from “Installing: all users”.

Installing: non-root user

- ▶ Create a local user account on the machine that will be used to install, configure, and start and stop SPSS Modeler Text Analytics Server.
- ▶ Using this local user account, install SPSS Modeler Text Analytics Server following the instructions under “Installing: all users”.

Installing: all users

You cannot install IBM SPSS Modeler Text Analytics into a custom location since it must adhere to the pre-existing SPSS Modeler folder structure. If SPSS Modeler version 15 is not detected you will not be able to install.

Depending on the configuration of your machine you can install either from the console or by using a graphical user interface (GUI); however, the first six steps are the same for both methods:

- ▶ Log in as *root* or as the non-root user you created earlier.
- ▶ Stop the IBM® SPSS® Modeler Server.
- ▶ If installing from a DVD, insert the IBM SPSS Modeler Text Analytics DVD into the DVD drive and ensure that you can access the drive. On Solaris, the volume manager (the *vold* daemon) must be running. On HP-UX, if you have problems installing, ask your administrator to mount the DVD-ROM device using the *-o cdcase* option.
- ▶ Change directories to the DVD mount point; alternatively, if using downloaded files, change to the directory where the installation files were downloaded.
- ▶ Change directories to the *IBM_SPSS_TA_UNIX* directory.
- ▶ Change to the relevant platform directory.
- ▶ Run the *install.bin* install script. Make sure that *install.bin* can be executed by *root*.

Console Installation

- ▶ Introduction and copyright details are displayed. Press Enter to continue.
- ▶ Licensing information is displayed. Read the license, type 1 to accept it, and press Enter to continue.
- ▶ You are prompted to type the installation location. The default SPSS Modeler installation location is shown; however, if your installation of SPSS Modeler is different, type the revised location and press Enter.
- ▶ You are prompted to confirm the installation location. When it is correct, type y and press Enter.
- ▶ A pre-installation summary is displayed to confirm your entries so far. Press Enter to continue.
- ▶ A message is displayed to say the installation routine is ready to run. Press Enter to continue.
- ▶ A progress bar is displayed whilst the installation routine runs. When the installation is complete, press Enter to exit from the installer.
- ▶ Restart the SPSS Modeler Server after installing IBM SPSS Modeler Text Analytics . See the *IBM® SPSS® Modeler Server Administration and Performance Guide* for a description of how the SPSS Modeler Server software works and what you need to do to administer it.

GUI Installation

- ▶ Introduction and copyright details are displayed. Click Next to continue.
- ▶ Licensing information is displayed. Read the license, select the option to accept it, and click Next to continue.
- ▶ You are prompted to select the installation location. The default SPSS Modeler installation location is shown; however, if your installation of SPSS Modeler is different, click Choose to browse for the revised location. When the correct location is shown, click Next.
- ▶ A pre-installation summary is displayed to confirm your entries so far. Click Install to continue.
- ▶ A progress bar is displayed whilst the installation routine runs. When the installation is complete, click Done to exit from the installer.
- ▶ Restart the SPSS Modeler Server after installing IBM SPSS Modeler Text Analytics . See the *IBM® SPSS® Modeler Server Administration and Performance Guide* for a description of how the SPSS Modeler Server software works and what you need to do to administer it.

Note: When installing on Linux 64 you may see the following warning message after you complete installation:

Install Complete. The installation is complete, but some errors occurred during the install. Please see the installation log for details. Press "Done" to quit the installer.

The installation log will show there was an error on the RPMSpecFile; this error can be ignored.

After You Install IBM SPSS Modeler Text Analytics

Installing the Administration Console for IBM SPSS Collaboration and Deployment Services Deployment Manager

The IBM® SPSS® Text Analytics Administration Console provides a user interface to monitor and configure your IBM® SPSS® Modeler Text Analytics installations, and is available free-of-charge to current customers of that product. SPSS Text Analytics Administration Console can only be installed on Windows computers; however, it can administer IBM SPSS Modeler Text Analytics installed on any supported platform.

The version number of SPSS Text Analytics Administration Console must be the same as the version number of the IBM® SPSS® Modeler Text Analytics Server it will be administering (for example, configuring ports as well as deleting sessions).

Starting and Stopping the Process

IBM® SPSS® Modeler Text Analytics has start and stop processes called automatically by IBM® SPSS® Modeler when the IBM® SPSS® Modeler Server starts and stops. Please refer to the SPSS Modeler documentation for more information.

Enabling Access for a Non-Administrator User

If you are installing IBM® SPSS® Modeler Text Analytics on either Windows Vista or Windows 7, for use by a user without Administrator rights, you must complete some additional steps:

- ▶ Create a location to be the new working directory for IBM SPSS Modeler Text Analytics , such as C:\TextData, and ensure it has read and write permissions for a standard user.
- ▶ Open the *ta_client_conf.properties* file located in
<Modeler_install_directory>\ext\lib\spss.TMWBClient\conf
- ▶ Modify the line: *#tmfc_client_data_dir = c:/data/IBM_SPSS_Text_Analytics_Client* to read:
Tmfc_client_data = c:/TextData.
- ▶ Copy the *tmwb_15.db* file from C:\ProgramData\IBM\SPSS\TextAnalytics\15 to C:\TextData.
- ▶ Open the *ta_server.conf* file located in
<Modeler_install_directory>\bin\spss.TMWBServer\conf
- ▶ Modify the line: *#tmfc_server_data_dir=c:/data/IBM_SPSS_TAServer* to read:
#tmfc_server_data_dir=c:/TextData.
- ▶ Open the *axis2.xml* file located in
<Modeler_install_directory>\bin\spss.TMWBServer\conf
- ▶ Modify the line: *<parameter name="attachmentDIR">.</parameter>* to read: *<parameter name="attachmentDIR">c:/TextData</parameter>*.

- ▶ If the user will be analyzing text containing Japanese characters, open the *ILUWKWD.ini*, *ILUWDPD.ini*, and *ILUWSNS.ini* files located in `<Modeler_install_directory>\bin\spss.TMWBServer`.
- ▶ In each file, modify the line: *Logfilepath=<filename>.log* to read:
Logfilepath=c:/TextData<filename>.log.

where *<filename>* is the name of the particular *.ini* file being edited.
- ▶ Add modify permissions to these directories:
`<Modeler_install_directory>\ext\bin\spss.TMWBServer` and
`<Modeler_install_directory>\ext\lib\spss.TMWBClient`. This prevents various errors being created when trying to load templates or execute a text mining model builder.

Multiple IBM SPSS Modeler Installations

If required, you can use IBM® SPSS® Modeler Text Analytics with multiple IBM® SPSS® Modeler products (such as IBM® SPSS® Modeler Batch and IBM® SPSS® Modeler Solution Publisher) on the same machine. To do this, you must manually copy the SPSS Modeler Text Analytics files from the IBM® SPSS® Modeler installation.

- ▶ From the client installation, for example: `/usr/IBM/SPSS/ModelerServer/14.2`, copy the following directories and files:
 - `bin/spss.TMWBServer`
 - `lib/spss.TM4CFilelist`
 - `lib/spss.TM4CTextlinkanalysis`
 - `lib/spss.TM4CTextmining`
 - `lib/spss.TM4CTranslate`
 - `lib/spss.TM4CWebFeed`
 - `lib/spss.TMWBClient`
- ▶ For SPSS Modeler Batch, paste the directories and files into `<modeler_batch_install_directory>/ext/`
- ▶ For SPSS Modeler Solution Publisher, paste the directories and files into `<solution_publisher_install_directory>/ext/`
 - To run SPSS Modeler Text Analytics with SPSS Modeler Solution Publisher, add the directory `<install_directory>/ext/bin/spss.TMWBServer` to the `$LD_LIBRARY_PATH` environment variable.

Uninstalling

Note: Uninstalling IBM® SPSS® Modeler will not uninstall IBM® SPSS® Modeler Text Analytics. Each must be uninstalled separately. Begin by uninstalling SPSS Modeler Text Analytics before SPSS Modeler.

Uninstall IBM® SPSS® Modeler Text Analytics by removing the program files and, if you have configured the system for automatic startup, disabling automatic startup.

To Remove the Program Files

- ▶ Stop the server process. Stop the IBM® SPSS® Modeler Server. Doing so will automatically stop the SPSS Modeler Text Analytics Server. [For more information, see the topic Starting and Stopping the Process on p. 4.](#)
- ▶ Remove the installation directory.