

# Supported Platforms

HP Vertica Analytics Platform

Software Version: 7.0.x

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# HP Vertica Server and HP Vertica Management Console

## Supported Operating Systems

Vertica Analytics Platform 7.0.x runs on the following 64-bit operating systems on x86\_x64 architecture:

- Red Hat Enterprise Linux 5 and 6
- SUSE Linux Enterprise Server 11
- Oracle Enterprise Linux 6 - Red Hat Compatible Kernel only - HP Vertica does not support the unbreakable kernel (kernels with a *uel* suffix)
- Debian Linux 6
- Cent OS 5 and 6
- Ubuntu 12.04LTS (for non-production use only)

## Supported File Systems

Vertica Analytics Platform Enterprise Edition has been extensively tested on all supported Linux platforms running ext3 or ext4 file systems. While other file systems have been successfully deployed by some customers, Vertica Analytics Platform cannot guarantee performance or stability of the product on these file systems. In certain support situations, you may be asked to migrate off of these untested file systems to help you troubleshoot or fix an issue. In particular, several file corruption issues have been linked to the use of XFS with HP Vertica; we strongly recommend not using it in production.

**Note:** Vertica Analytics Platform 7.0.x does not support Linux Logical Volume Manager (LVM.)

## Supported Browsers for HP Vertica Management Console

Vertica Analytics Platform 7.0.x Management Console is supported on the following Web browsers:

- Internet Explorer 9
- Firefox 15 and later
- Google Chrome 11 and later

## HP Vertica Server and Management Console Compatibility

Each version of Vertica Analytics Platform Management Console is compatible only with the matching version of the Vertica Analytics Platform server. For example, the Vertica Analytics Platform 7.0.0 server is supported with Vertica Analytics Platform 7.0.0 Management Console only.

## HP Vertica 7.0.x Client drivers

Vertica provides JDBC, ODBC, and ADO.NET client drivers. You can choose to download:

- Client packages: All client packages contain the ODBC driver, the JDBC driver, and the HP Vertica vsql client software for the specified operating system. 64-bit packages contain both 64-Bit and 32-Bit installers.
- The ADO.net driver is not available in a client package, but rather is part of the HP Vertica Microsoft Connectivity Pack. If the installer detects the presence of Microsoft SQL server, ADO.net will be installed with additional software for MS connectivity. If the installer does not detect the presence of SQL server, only the ADO.net driver will be installed.
- Individual drivers: You can download Vertica ODBC, JDBC, and ADO.NET drivers individually.

See HP VerticaDriver/Server compatibility to see which server versions are compatible with Vertica 6.1.x drivers.

## ADO.net Driver

The ADO.NET driver is supported on the following platforms:

| Operating System  | Processor | .NET Requirements                     |
|---|-----------|---------------------------------------|
| Microsoft Windows <ul style="list-style-type: none"><li>• Windows 2003 &amp; 2003 R2, all variants</li><li>• Windows 2008 &amp; 2008 R2, all variants</li><li>• Windows 7, all variants</li><li>• Windows 8, all variants</li><li>• Windows Server 2012 (64-bit only)</li></ul> | x86_x64   | Microsoft .NET Framework 3.5 or later |

## JDBC Driver

All JDBC drivers are supported on any Java 5-compliant platform. (Java 5 is the minimum.)

## ODBC Driver

Vertica Analytics Platform provides both 32-bit and 64-bit ODBC drivers. HP Vertica 7.0.x ODBC drivers are supported on the following platforms:

| Operating System  | Processor      | Driver Manager   |
|---|----------------|--|
| Microsoft Windows <ul style="list-style-type: none"> <li>Windows 2003 &amp; 2003 R2, all variants</li> <li>Windows 2008 &amp; 2008 R2, all variants</li> <li>Windows 7, all variants</li> </ul> | x86, x64       | Microsoft ODBC MDAC 2.8  |
| Red Hat Enterprise Linux 5  | x86_x64, IA64  | <ul style="list-style-type: none"> <li>iODBC 3.52.6 or later</li> <li>unixODBC 2.2.14 or later</li> <li>DataDirect 5.3 and 6.1 or later</li> </ul> |
| Red Hat Enterprise Linux 6  | x86_x64        |  |
| SUSE Linux Enterprise 11  | x86_x64        |  |
| Oracle Enterprise Linux 6 (Red Hat Compatible Kernel only)  | x86_x64        |  |
| CentOS 5  | x86_x64, IA64  |  |
| CentOS 6  | x86_x64        |  |
| Ubuntu 12.04LTS (for non-production use only)   | x86_x64        |  |
| AIX 5.3, 6.1  | PowerPC        |  |
| HPUX 11i V3   | IA32, IA64     |  |
| Solaris 10  | x86_x64, SPARC |  |
| Mac OS X 10.6, 10.7   | x86_x64        | Mac OS X Driver Manager (iODBC)  |



# Vertica Analytics Platform Driver/Server Compatibility

The following table indicates the Vertica Analytics Platform driver versions that are supported by different Vertica Analytics Platform server versions.

| Client Driver Version | Compatible Server Versions |
|-----------------------|----------------------------|
| 5.1.x                 | 5.1.x, 6.0.x, 6.1.x        |
| 6.0.x                 | 6.0.x, 6.1                 |
| 6.1.x                 | 6.1.x, 7.0,x               |
| 7.0.x                 | 7.0.x                      |

## vsqL Client

The HP Vertica vsqL client is provided in all client packages; you cannot download vsqL separately. The vsqL client is supported on the following platforms:

| Operating System  | Processor       |
|---|-----------------|
| Microsoft Windows <ul style="list-style-type: none"><li>Windows 2003 &amp; 2003 R2, all variants</li><li>Windows 2008 &amp; 2008 R2, all variants</li><li>Windows 7, all variants</li></ul> | x86, x64        |
| Red Hat Enterprise Linux 5  | x86, x64, IA64  |
| Red Hat Enterprise Linux 6  | x86, x64        |
| SUSE Linux Enterprise 11  | x86, x64        |
| Oracle Enterprise Linux 6 (Red Hat Compatible Kernel only)  | x86, x64        |
| CentOS 5  | x86, x64, IA64  |
| CentOS 6  | x86, x64        |
| Ubuntu 12.04LTS (for non-production use only)   | x86, x64        |
| Solaris 10  | x86, x64, SPARC |
| AIX 5.3, 6.1  | PowerPC         |
| HPUX 11i V3   | IA32, IA64      |
| Mac OS X 10.6, 10.7   | x86, x64        |

## Perl and Python Requirements

You can use HP Vertica's ODBC driver to connect applications written in Perl or Python to the Vertica Analytics Platform database.

### Perl

To use Perl with HP Vertica, you must install the Perl driver modules (DBI and DBD::ODBC) and a HP Vertica ODBC driver on the machine where Perl is installed. The following table lists the Perl versions supported with HP Vertica 7.0.x.

| Perl Version   | Perl Driver Modules   | ODBC Requirements             |
|--|---|-------------------------------|
| <ul style="list-style-type: none"><li>5.8</li><li>5.10</li></ul> | <ul style="list-style-type: none"><li>DBI driver version 1.609</li><li>DBD::ODBC version 1.22</li></ul> | See HP Vertica drivers table. |

### Python

To use Python with HP Vertica, you must install the pyodbc module and an HP Vertica ODBC driver on the machine where Python is installed. The following table lists the Python versions supported with HP Vertica 7.0.x:

| Python Version | Python Driver Module | ODBC Requirements                  |
|----------------|----------------------|------------------------------------|
| 2.4.6          | pyodbc 2.1.6         | See HP Vertica ODBC drivers table. |
| 2.7.3          | pyodbc 3.0.6         |                                    |

# Packs, Plug-ins, and Connectors for the HP Vertica Server

HP provides the following optional modules for the HP Vertica server.

## R Language Pack

The HP Vertica R Language Pack provides version 3.0.0 of the R runtime and associated libraries for interfacing with HP Vertica. You install the R Language Pack on the HP Vertica server.

## HDFS Connector

The HDFS Connector connects to the Hadoop file system using WebHDFS, a built-in component of HDFS that provides access to HDFS files to applications outside of Hadoop. You install the HP Vertica7.0.x HDFS Connector on the HP Vertica server. Note that the 7.0.x HDFS connector is Kerberos-enabled; you can connect using Kerberos authentication.

The HP Vertica7.0.x HDFS Connector has been tested with these Hadoop distributions:

- Apache Hadoop 1.0.0
- Cloudera CDH4
- Hortonworks Data Platform (HDP) 1.1.1

## HCatalog Connector

Your Hadoop cluster must meet several requirements in order for it to work with the HCatalog connector:

- It must have Hive and HCatalog installed and running. See Apache's [HCatalog](#) page for more information.
- It must have WebHCat (formerly known as Templeton) installed and running. See Apache's [WebHCat](#) page for details.
- The WebHCat server and all of the HDFS nodes that store HCatalog-based data must be directly accessible from all of the hosts in your HP Vertica database. You need to ensure that any firewall separating the Hadoop cluster and the HP Vertica cluster will let WebHCat, metastore database, and HDFS traffic through.
- The data that you want to query must be in an internal or external Hive table.
- If a table you want to query uses a non-standard SerDe, you must install the SerDe's classes on your HP Vertica cluster before you can query the data. See [Using Custom SerDes](#).

The HP Vertica HCatalogConnector has been tested with:

- HCatalog 0.5
- Hive 0.10 and 0.11
- Hadoop 2.0

# Packs, Plug-Ins, and Connectors for HP Vertica Client Machines

HP provides the following optional modules for HP Vertica client machines.

## Hadoop Connector

HP Vertica provides two different Hadoop Connectors: one for Hadoop 1.0.0 and earlier versions, and the other for Hadoop 2.0.0. The table below details supported software versions

|   | <b>Hadoop Connector for Hadoop 1.0.0 and earlier</b>   | <b>Hadoop Connector for Hadoop 2.0.0</b> |
|---|--|--|
| <b>Apache Hadoop and Pig Combinations</b> | <ul style="list-style-type: none"><li>• Hadoop 0.20.2 and Pig 0.7.0</li><li>• Hadoop 0.20.205.0 and Pig 0.9.1</li><li>• Hadoop 1.0.0 and Pig 0.9.2</li></ul> | Hadoop 2.0.0 and Pig 0.10.0              |
| <b>Cloudera Distribution Versions</b>     | Cloudera CDH3  | Cloudera CDH4                            |
| <b>Hortonworks Data Platform Versions</b> | Hortonworks Data Platform (HDP) 1.1.1  | N/A                                      |
| <b>MapR</b>                               | MapR M5 Edition  | N/A                                      |

## MS Connectivity Pack

The HP Vertica Microsoft Connectivity Pack is supported on the following platforms:

| Operating System Versions            | Processor | Visual Studio Requirements                   | .Net Requirements (Versions required ADO.net driver for specific versions of Visual Studio)  | SQL Server Requirements            |
|--------------------------------------|-----------|--|--|------------------------------------|
| Windows 2003 & 2003 R2, all variants | x86_x64   | Visual Studio 2008<br>Visual Studio 2008 SDK | Microsoft .NET Framework 3.5 SP1   | SQL Server 2008: R2, SP2, R2 & SP2 |
| Windows 2008 & 2008 R2, all variants |           | Visual Studio 2010<br>Visual Studio 2010 SDK | Microsoft .NET Framework 3.5 SP1<br><b>and</b> (both needed)<br>Microsoft .NET Framework 4.0 | SQL Server 2012                    |
| Windows 7, all variants              |           | Visual Studio 2012                           | Microsoft .NET Framework 3.5 SP1   |                                    |
| Windows 8, all variants              |           | Visual Studio 2012 SDK                       | <b>and</b> (both needed)<br>Microsoft .NET Framework 4.5                                     |                                    |
| Windows Server 2012, all variants    |           |  |  |                                    |

Visual Studio 2008 (and 2008 SDK) must be used with SQL Server 2008.

## Informatica PowerCenter Plug-In

The HP Vertica plug-in for Informatica PowerCenter is supported on the following platforms:

| Plug-in Version | Operating System   | Informatica PowerCenter Versions | HP Vertica Versions                                   |
|-----------------|--|----------------------------------|---|
| 7.x             | Microsoft Windows <ul style="list-style-type: none"> <li>• Windows 2003 &amp; 2003 R2 all variants</li> <li>• Windows 2008 &amp; 2008 R2 all variants</li> <li>• Windows 7 all variants</li> </ul> Red Hat Enterprise Linux 5 (32 and 64 bit)<br>Solaris<br>AIX<br>HP-UX | 9.x                              | 6.x (limited functionality)<br>7.x (all enhancements) |

## HP Vertica 7.0.x on Amazon Web Services

HP provides a preconfigured AMI for users who want to run Vertica Analytics Platform on Amazon Web Services (AWS). This HP-supplied AMI has been configured for and tested on AWS and is the officially supported version of Vertica Analytics Platform for AWS.

### End of support for custom HP Vertica AMIs

HP released the custom Amazon AMI with HP Vertica release 6.1.0 on November 14, 2012. At that time, HP announced that support for HP Vertica custom AMIs would cease 1 year after the release of 6.1.0. Customers using custom AMIs for previous releases were advised to migrate to the new, preconfigured AMI.

At this time and moving forward, HP supports HP Vertica only on preconfigured AMIs provided by HP. For instructions on how to upgrade HP Vertica 6.1.x to 7.0.x, see Using HP Vertica 7.0.x on Amazon Web Services, available with the standard documentation on <http://www.vertica.com/documentation>.



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