

Additional Database Information for the 5.7.0 Release

This technote supplements the information provided in the online documentation and the FileNet Content Manager and IBM Content Foundation software product compatibility reports for the 5.7.0 Release

Useful links

- Database Administrator Installation Tasks: <https://www.ibm.com/docs/en/filenet-p8-platform/5.7.0?topic=tasks-database-administrator-installation>
- Tuning FileNet Databases: <https://www.ibm.com/docs/en/filenet-p8-platform/5.7.0?topic=components-tuning-filenet-p8-databases>
- FileNet Content Manager Software Product Compatibility Reports (SPCR): <https://www.ibm.com/software/reports/compatibility/clarity/index.html?name=IBM%20FileNet%20Content%20Manager>
- IBM Content Foundation Software Product Compatibility Reports (SPCR): <https://www.ibm.com/software/reports/compatibility/clarity/index.html?name=IBM%20Content%20Foundation>

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Migrating to a Different Database Type

IBM Development does not provide tools or support for migrating from one database type to another, for instance migrating from Oracle to PostgreSQL. For assistance with migrations, contact IBM Expert Services.

Database Compression

Database compression is supported and can improve performance.

Database Encryption

Database encryption technologies that work at a disk sector level should be transparent to the P8 server engines. Examples of these types of solutions include IBM InfoSphere, Guardium Encryption Expert, Oracle Tablespace Encryption, and Vormetric Database Encryption Expert.

IBM Development does not qualify or support these technologies; however, the use of a transparent disk sector encryption technology should not affect FileNet Content Manager or IBM Content Foundation functionality.

Advanced Technologies

Advanced technologies, such as partitioning, can be used. However, since these technologies might have a negative impact on performance and functionality it is important to evaluate the use of these technologies in a non-production environment prior to using them in production.

High Availability

When configuring a highly-available environment, any of the following database configurations can be used:

- Aurora PostgreSQL
- AWS RDS PostgreSQL
- DB2 active/passive configurations
- DB2 pureScale (active/active) configuration
- DB2 active/Read-Only Standby

However, with this configuration, while other applications can use the read-only standby node, Content Platform Engine can only be used with the active node.

- DB2 RDS

In a containerized environment special configuration is required to ensure that the failover works correctly, refer to the following topic for details:

<https://www.ibm.com/docs/en/filenet-p8-platform/5.7.0?topic=deployment-preparing-databases>

- Oracle active/passive configurations
- Oracle RAC (active/active) configuration
 - Data sources used for workflow systems are limited to 2 Oracle RAC nodes. Object stores that are not collocated with workflow systems do not have the same restriction
 - Oracle RAC cannot be used with the CFS-ICI federator database

For more information on configuring Oracle RAC, refer to the Oracle documentation.

- Microsoft SQL Server active/passive configurations
- Versions of Microsoft SQL Server AlwaysOn Availability Groups that support distributed transactions.

Refer to the following article for more information: <https://docs.microsoft.com/en-us/sql/database-engine/availability-groups/windows/transactions-always-on-availability-and-database-mirroring?redirectedfrom=MSDN&view=sql-server-ver15>.

SQL Server Specific Notes

- SQL Server must be configured to support distributed transactions. The steps for enabling this capability vary according to the version of SQL Server in use. For information on how to enable distributed transactions, refer to the Microsoft documentation for the version of SQL Server in use.
- SQL Server Developer editions are supported in development environments only; they are not supported in production environments or in test environments that emulate production loads.

DB2 Specific Notes

DB2 has additional operating system requirements that exceed the FileNet P8 minimums. See <https://www.ibm.com/support/pages/node/577995> for the recommended levels for AIX.

JDBC Drivers

When selecting a JDBC driver, refer to the JRE requirements documented by both the database vendors and by the application server vendors to ensure that you are configuring a compatible environment.

Content Platform Engine requires a Type 4 JDBC Driver when communicating with a database.

The containers contain default JDBC drivers and do not need to be downloaded. You can choose to use a different driver. For more information, <https://www.ibm.com/docs/en/filenet-p8-platform/5.7.0?topic=administering-optional-preparing-customized-versions-jdbc-drivers>

Do not use the JDBC Drivers installed with the WebLogic Servers. Instead, update the WebLogic Server's classpath to include the location of the external JDBC driver classes.

Links to additional JDBC information

- DB2 JDBC information: <https://www.ibm.com/support/pages/db2-jdbc-driver-versions-and-downloads>
- Oracle JDBC information: <https://docs.oracle.com/en/database/oracle/oracle-database/21/jjdbc/JDBC-getting-started.html>
- SQL Server JDBC information: <https://docs.microsoft.com/en-us/sql/connect/jdbc/microsoft-jdbc-driver-for-sql-server-support-matrix?view=sql-server-ver15>

SQL Server Driver 12.10 and SQL Server Driver 12.10.1 are not supported.

- PostgreSQL JDBC information: <https://jdbc.postgresql.org/>