Database Editions and System Requirements

Oracle Database editions and OML availability with those editions along with supported operating systems are listed. Each edition is suitable for different development and deployment scenarios. Oracle Machine Learning components associated with Oracle Database are included with the database license.

Topics:

- Oracle Machine Learning Family of Components
- Database and System Requirements for OML4SQL
- Database and System Requirements for OML4Py in Oracle Autonomous Database Serverless
- Database and System Requirements for OML4Py in Oracle Database On Premises
- Database and System Requirements for OML4R in Oracle Autonomous Database Serverless
- Database and System Requirements for OML4R in Oracle Database On Premises

Oracle Machine Learning Family of Components

The following table describes the availability of OML components on different platforms.

OML Component	Autonomous Database Serverless | Dedicated Region	Autonomous Database on Dedicated Exadata Infrastructure | Cloud @ Customer	Oracle Database On premises, Base Database Service, Cloud Service, Cloud Infrastructure, Cloud@Customer
OML4SQL API Build machine learning models and score data with no data movement using SQL and PL/SQL	✓	✓	✓

OML Component	Autonomous Database Serverless | Dedicated Region	Autonomous Database on Dedicated Exadata Infrastructure | Cloud @ Customer	Oracle Database On premises, Base Database Service, Cloud Service, Cloud Infrastructure, Cloud@Customer
OML4Py API Leverage the database as a high performance compute engine from Python with in-database machine learning	✓		✓
OML4R API Leverage the database as a high performance compute engine from R with in-database machine learning	✓		✓
OML Notebooks SQL, PL/SQL, Python, R, Conda, and markdown interpreters	✓		
OML AutoML UI No code automated modelling interface	✓		
OML Monitoring No-code user interface for monitoring changes in data and in-database machine learning model quality	✓		
OML Services RESTful model management, deployment, monitoring	✓		
Oracle Data Miner SQL Developer extension with a drag-n-drop interface for creating machine learning methodologies	✓	✓	✓

The following tables present information on supported database and system requirements for various Oracle Machine Learning APIs. See Supported Oracle Database Editions to understand about database offerings.

Database and System Requirements for OML4SQL

This table summarizes the database offerings, database version supported, and the system requirements for OML4SQL

Database Offerings	Database Version	System Requirements for 23ai	System Requirements for 21c and 19c	System Requirements for 18c
Free	18c, 19c, 21c, 23ai	Windows x64 Linux x64 (OL9) Linux x64 (OL8) Red Hat Enterprise Linux 8 Red Hat Enterprise Linux 9 For downloads, see software downloads page.	Windows x64 Linux x64 (OL9) Linux x64 (OL8) Linux x64 (OL7) See 21c requirements and 19c requirements.	Windows x64 Linux x64 (OL7) Linux x64 (OL6) See 18c requirements.
SE2	18c, 19c, 21c, 23ai	Windows x64 Linux x64 (OL9) Linux x64 (OL8) For downloads, see software downloads page.	Windows x64 Linux x64 (OL9) Linux x64 (OL8) Linux x64 (OL7) See 21c requirements and 19c requirements.	Windows x64 Linux x64 (OL7) Linux x64 (OL6) See 18c requirements.
EE	18c, 19c, 21c, 23ai			
EE-CS	18c, 19c, 21c, 23ai			
BaseDB -SE	18c, 19c, 21c, 23ai			
BaseDB -EE	18c, 19c, 21c, 23ai			
BaseDB EE-HP	18c, 19c, 21c, 23ai			
BaseDB EE-EP	18c, 19c, 21c, 23ai			
ExaCS/CE	18c, 19c, 21c, 23ai			
Oracle Autonomous Database - Shared / Serverless	19c, 21c, 23ai			

Database and System Requirements for OML4Py in Oracle Autonomous Database Serverless

The following table presents the current database, Python, and OML4Py versions available in Oracle Autonomous Database Serverless.

OML4Py Version	Python Version	Database Version	Operating System Version
2.0	3.12.0	23ai	Linux x64 Container (OL7)

OML4Py Version	Python Version	Database Version	Operating System Version
	3.12.0	21c	Linux x64 Container (OL7)
		19c	
1.0	NA		

Database and System Requirements for OML4Py in Oracle Database On Premises

The following table presents Oracle Database on premises requirements for OML4Py

OML4Py Version	Python Version	Database Version	Operating System Version
2.0	3.12.0	23ai	Linux x64 (OL8)
	3.12.0	21c	Linux x64 (OL7, OL8)
		19c	
1.0	3.9.5	21c	Linux x64 (OL7, OL8)
		19c	

Database and System Requirements for OML4R in Oracle Autonomous Database Serverless

The following table presents the current database, R, and OML4R versions available in Oracle Autonomous Database Serverless.

OML4R Version	Oracle R Distribution	Database Version	Operating System Version
2.0	4.0.5	19c, 21c, 23ai	Linux x64 (OL7)

Database and System Requirements for OML4R in Oracle Database On Premises

The following table presents Oracle Database on premise requirements for OML4R.

OML4R Version	Oracle R Distribution	Supported in Oracle Database Releases	Oracle Database Operating System Version
2.0	4.0.5	19c, 21c, 23ai	Linux x64 (OL7 and OL8)
1.5.1	3.6.1	18c, 19c, 21c	Linux x64 (OL6, OL7, OL8)

OML4R Version	Oracle R Distribution	Supported in Oracle Database Releases	Oracle Database Operating System Version
			IBM AIX 5.3, 6 and 7 64-bit
			Solaris SPARC 64-bit
			Microsoft Windows x64 (64-Bit)
1.5.1	3.3.0	11.2.0.4, 12.1.0.1, 12.1.0.2, 12.2.0.1	Linux x64 (OL6, OL7, OL8)
			Microsoft Windows x64 (64-Bit)
			IBM AIX 5.3, 6 and 7 64-bit
			Solaris x86 64-bit
			Solaris SPARC 64-bit
1.4.1	3.0.1, 3.1.1	11.2.0.3, 11.2.0.4, 12.1.0.1, 12.1.0.2	Linux x64 (OL5 and OL6)
			Solaris x86 64-bit
			Solaris SPARC 64-bit
			IBM AIX 5.3 and 6 64-bit
			Microsoft Windows x64 (64-Bit)
1.4	3.0.1, 3.1.1	11.2.0.3, 11.2.0.4, 12.1.0.1	Linux x64 (OL5 and OL6)
			Solaris x86 64-bit
			Solaris SPARC 64-bit
			IBM AIX 5.3 and 6 64-bit
			Microsoft Windows x64 (64-Bit)
1.3.1	2.15.1, 2.15.2, 2.15.3	11.2.0.3, 11.2.0.4, 12.1.0.1	Linux x64 (OL5 and OL6)
			Solaris x86 64-bit
			Solaris SPARC 64-bit
			IBM AIX 5.3 and 6 64-bit
			Microsoft Windows x64 (64-Bit)
1.3	2.15.1	11.2.0.3, 11.2.0.4, 12.1.0.1	Linux x64 (OL5 and OL6)
			Solaris x86 64-bit
			Solaris SPARC 64-bit

OML4R Version	Oracle R Distribution	Supported in Oracle Database Releases	Oracle Database Operating System Version
			IBM AIX 5.3 and 6 64-bit
			Microsoft Windows x64 (64-Bit)
1.2	2.15.1	11.2.0.3, 11.2.0.4, 12.1.0.1	Linux x64 (OL5 and OL6)
			Solaris x86 64-bit
			Solaris SPARC 64-bit
			IBM AIX 5.3 and 6 64-bit
			Microsoft Windows x64 (64-Bit)
1.1	2.13.2	11.2.0.3, 11.2.0.4, 12.1.0.1	Linux x64 (OL5 and OL6)
			Solaris x86 64-bit
			Solaris SPARC 64-bit
			IBM AIX 5.3 and 6 64-bit
			Microsoft Windows x64 (64-Bit)
1.0	2.13.2	11.2.0.3, 11.2.0.4, 12.1.0.1	Linux x64 (OL5 and OL6)
			Solaris x86 64-bit
			Solaris SPARC 64-bit
			IBM AIX 5.3 and 6 64-bit
			Microsoft Windows x64 (64-Bit)

> **Note:**
>
> Oracle Database offers a range of editions, including XE, SE2, EE, EE-CS, DBCS-SE, DBCS-EE, DBCS EE-HP, DBCS EE-EP, ExaCS or CE, and Oracle Autonomous Database - Shared or Serverless.

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