

- [Legend](#)
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★ Healthy

★ Could be improved

★ Needs attention

★ Likely to be an issue in the future

Name	Current	Release Date	Support	Status	Comment	Latest	Release Date	Support	RHEL /CentOS 7	RHEL /CentOS 8	RHEL /CentOS 9	Upgrade Release	Target
C++ [1] [2]	8.3.1	2019-02	2029-05	★	Provided by O.S.	13.1	2023-04	-	4.8.5	8.3.1	11.3.1	-	-
Java 17 [1]	17.0.6	2021-09	2027-10	★	17.0.6 widely used as its provided by RHEL 8	17.0.7	2023-04	2027-10	-	17.0.1	17.0.7	-	Default
Python 3.8 [1]	3.8.6	2020-09	2024-10	★		3.8.12	2021-08	2024-10	-	3.8.6	-	-	Default
Python 3.12 [1]	3.12.0	2023-10	2028-10	★		3.11.4	2023-06	2028-10	-	3.11.4	3.11.2	2023DEC	-

C					
Name	Release Date	Compiler Support	Compatible Since	Dropped Compatibility	Default
c90	1990	Beginning?	Beginning	2016OCT	Beginning 2016OCT
c99	2000-03	>= 4.1	2016OCT	-	2016OCT Now
c11	2011-12-08	>= 4.9	2018OCT	-	-
c17	2018	>= 8.1	2020OCT	-	2022APR Now
c2x	-	>= 9.1	Not Compatible	-	-
c23	TBD	-	Not Compatible	-	-
C++					
Name	Release Date	Compiler Support	Compatible Since	Dropped Compatibility	Default
C++98	1998-10	Beginning?	Beginning	2022APR	Beginning 2018OCT
C++0x	-	>= 4.3	2018OCT	-	2018OCT 2022FEB
C++11	2011-08	>= 4.7	2018OCT	-	-
C++14	2014-08	>= 5.1	2020OCT	-	-
C++17	2017-12	>= 8.1	2020OCT	-	2022APR Now
C++2a	-	>= 8.1	2020OCT	-	-
C++20	TBD	>= 11.1	Not Compatible	-	-
C++2b	-	>= 11.1	Not Compatible	-	-
C++23	TBD	-	Not Compatible	-	-
Java					
Name	Release Date	Compiler Support	Compatible Since	Dropped Compatibility	Default
Java Classic	-	-	Beginning	-	Beginning Now
Java Modules	-	-	Not Compatible	-	-
Python					
Name	Release Date	Interpreter Support	Compatible Since	Dropped Compatibility	Default
Python 2	2000-10	>= 2.0	Beginning	2022FEB	Beginning 2020JUN
Python 3.6	2019-07	>= 3.6.9	2020APR	-	2020AUG 2021DEC
Python 3.8	2020-09	>= 3.8.6	2022FEB	-	2022FEB 2023OCT
Python 3.12	2023-10	>= 3.12.1	2023DEC	-	2023DEC Now