New Features in Apache Cassandra 5.0

This section covers the new features in Apache Cassandra 5.0.

- Storage Attached Indexes: Docs, CEP-7, JIRA ticket

- Trie memtables: CEP-19, JIRA ticket

- Trie SSTables: CEP-25, JIRA ticket

- JDK 17: Docs, JIRA ticket

- More guardrails: NEWS.txt

- TTL and writetime on collections and UDTs: Docs, JIRA ticket

- New vector data type: Docs, CEP-30, JIRA ticket

- New vector similarity functions: Docs, CEP-30, JIRA ticket

- Unified Compaction Strategy: Docs, CEP-26, JIRA ticket

- New Mathematical CQL functions: abs, exp, log, log10 and round: Docs, JIRA ticket

- Dynamic Data Masking: Docs, CEP-20, JIRA ticket

- New CIDR authorizer: CEP-33, JIRA ticket

- Extend maximum expiration date (TTL): NEWS.txt, JIRA ticket

- New CQL native scalar functions for collections: JIRA ticket

- New sstablepartitions offline tool to find large partitions: JIRA ticket

- New snitch for Microsoft Azure: JIRA ticket

- Pluggable crypto provider: JIRA ticket

- New virtual table to view system logs: JIRA ticket