

Additional Resources. More information about NDB Cluster can be found in the following places:

- For answers to some commonly asked questions about NDB Cluster, see [Section A.10, “MySQL 8.0 FAQ: NDB Cluster”](#).
- The NDB Cluster Forum: <https://forums.mysql.com/list.php?25>.
- Many NDB Cluster users and developers blog about their experiences with NDB Cluster, and make feeds of these available through [PlanetMySQL](#).

23.1 NDB Cluster Overview

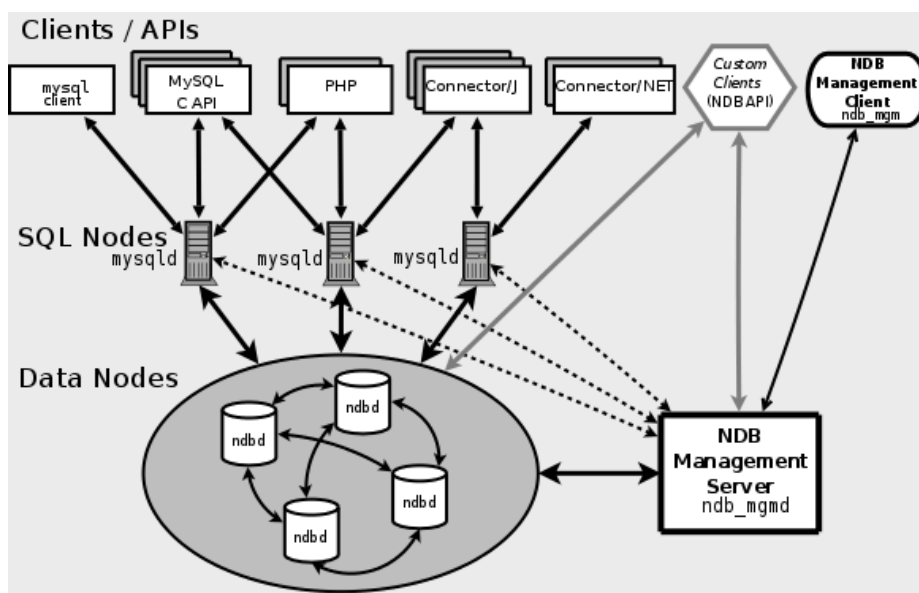
NDB Cluster is a technology that enables clustering of in-memory databases in a shared-nothing system. The shared-nothing architecture enables the system to work with very inexpensive hardware, and with a minimum of specific requirements for hardware or software.

NDB Cluster is designed not to have any single point of failure. In a shared-nothing system, each component is expected to have its own memory and disk, and the use of shared storage mechanisms such as network shares, network file systems, and SANs is not recommended or supported.

NDB Cluster integrates the standard MySQL server with an in-memory clustered storage engine called **NDB** (which stands for “*Network DataBase*”). In our documentation, the term **NDB** refers to the part of the setup that is specific to the storage engine, whereas “MySQL NDB Cluster” refers to the combination of one or more MySQL servers with the **NDB** storage engine.

An NDB Cluster consists of a set of computers, known as *hosts*, each running one or more processes. These processes, known as *nodes*, may include MySQL servers (for access to NDB data), data nodes (for storage of the data), one or more management servers, and possibly other specialized data access programs. The relationship of these components in an NDB Cluster is shown here:

Figure 23.1 NDB Cluster Components



All these programs work together to form an NDB Cluster (see [Section 23.4, “NDB Cluster Programs”](#)). When data is stored by the **NDB** storage engine, the tables (and table data) are stored in the data nodes.