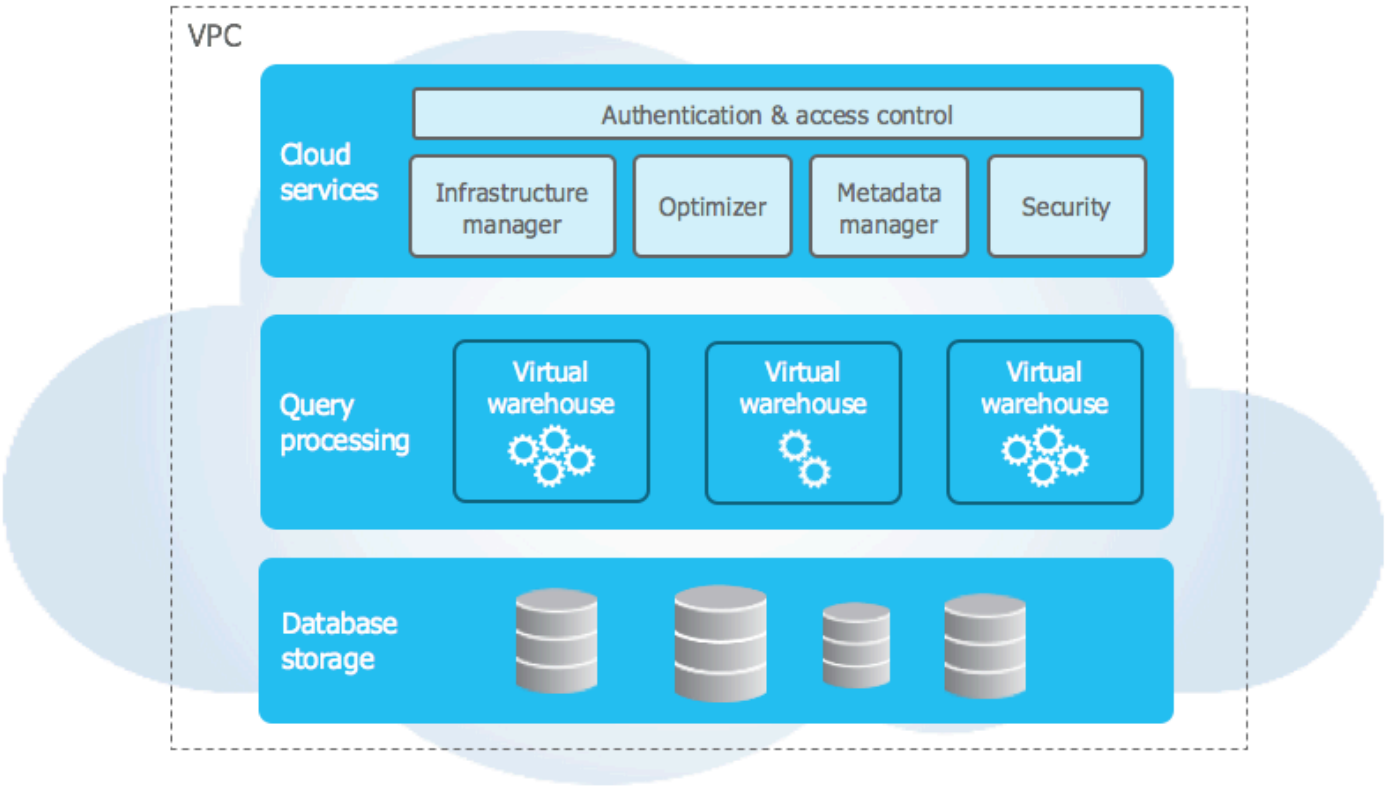
About Snowflake



1. Snowflake Architecture has 3 key layers
    a. **Database Storage**
        i. When data is loaded into Snowflake, it reorganizes it into its internal optimized, compressed, columnar format and stores this optimized data in cloud storage

        ii. Snowflake manages all aspects of how this data is stored — the organization, file size, structure, compression, metadata, statistics, and other aspects of data storage are handled by Snowflake

    b. **Query Processing**
        i. Query execution is performed on this layer
        ii. Snowflake processes queries using virtual warehouses
        iii. Each virtual warehouse is an independent compute cluster that does not share compute resources with other virtual warehouses. As a result, each virtual warehouse has no impact on the performance of other virtual warehouses

    c. **Cloud Services**
        i. A collection of services that coordinate activities across Snowflake
        ii. These services tie together all of the different components of Snowflake to process user requests, from login to query dispatch
        iii. Services managed in this layer include:
            1. Authentication
            2. Infrastructure management
            3. Metadata management
            4. Query parsing and optimization
            5. Access control