

GENESYS

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Cassandra Installation and Configuration Guide

Overview

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Apache Cassandra is an open source, eventually consistent, distributed database system used by Orchestration Server to store customer session information. It is designed to be highly scalable and decentralized (such that there is no single point of failure).

Data Model

The Cassandra data model is divided into four basic elements. They are:

- Columns
- Column Families
- Rows
- Keyspaces

Columns

A column is the smallest element of the Cassandra data structure. It is a tuple which consists of a name, value, and timestamp.

Column Families

A column family is to Cassandra what a table is to SQL (RDBMS). Column families store rows, and every row is referenced by a key.

Rows

A row groups related columns together. Every row is given a key and the key determines which Cassandra node the data will be stored to.

Keyspaces

A keyspace is roughly the equivalent of a schema or a database in SQL (RDBMS). Keyspaces contain collections of column families. The name of the keyspace is a first dimension of a Cassandra hash.

Example:

```
{
  "Genesys" : { // Keyspace
    "Services" : { // Column Family
    "ORS" : { // Row
        "Name" : "Orchestration", // Column
        "Version" : "8.1.2" }, // Column
    "GVP" : {
        "Name" : "Genesys Voice Platform",
        "Version" : "8.1.1" },
```

```
"URS" : {
    "Name" : "Universal Routing Server",
    "Version" : "8.1.2" }
}
```