

GENESYS

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Deployment Guide

cassandraEmbedded Section

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Note: The options in this section are applicable only when enabled = true.

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enabled (Cluster Only)

Description: Indicates whether the Embedded Cassandra service is enabled.

Mandatory: No Default Value: true Valid Values: true, false

Changes Take Effect: After start/restart

clusterName (Cluster Only)

Description: The name of the cluster. This setting prevents nodes in one logical cluster from joining

another. All nodes in a cluster must have the same value.

Default Value: Cluster **Valid Values:** Valid string

Mandatory: No

Changes Take Effect: After start/restart

endpointSnitch (Cluster Only)

Description: A snitch determines which data centers and racks nodes belong to. They inform Cassandra about the network topology so that requests are routed efficiently. They also allow Cassandra to distribute replicas by grouping machines into data centers and racks. Specifically, the replication strategy places the replicas based on the information provided by the new snitch as described at http://docs.datastax.com/en/cassandra/2.1/cassandra/architecture/architecture/snitches/about_c.html.

Default Value: GossipingPropertyFileSnitch

Valid Values: SimpleSnitch, GossipingPropertyFileSnitch, PropertyFileSnitch, Ec2Snitch,

Ec2MultiRegionSnitch, RackInferringSnitch

Mandatory: No

Changes Take Effect: After start/restart

partitioner (Cluster Only)

Description: A partitioner determines how data is distributed across the nodes in the cluster (including replicas). Basically, a partitioner is a function for deriving a token representing a row from its partition key, typically by hashing. Each row of data is then distributed across the cluster by the value of the token, as described at <a href="http://docs.datastax.com/en/cassandra/2.1/cassandra/architecture/archi

Default Value: org.apache.cassandra.dht.Murmur3Partitioner **Valid Values:** org.apache.cassandra.dht.RandomPartitioner,

org.apache.cassandra.dht.RandomPartitioner, org.apache.cassandra.dht.Murmur3Partitioner

Mandatory: No

Changes Take Effect: After start/restart

dataDirectory

Description: The directory location where table data (SSTables) is stored. Cassandra distributes data

evenly across the location, subject to the granularity of the configured compaction strategy.

Default Value: ./storage/data **Valid Values:** Valid folder path

Mandatory: No

Changes Take Effect: After start/restart

commitLogDirectory

Description: The directory where the commit log is stored.

Default Value: ./storage/commitlog

Valid Values: Valid folder path

Mandatory: No

Changes Take Effect: After start/restart

savedCachesDirectory

Description: The directory location where table key and row caches are stored.

Default Value: ./storage/saved_caches

Valid Values: Valid folder path

Mandatory: No

Changes Take Effect: After start/restart

seedNodes (Cluster Only)

Description: A comma-delimited list of IP addresses used by gossip for bootstrapping new nodes joining a cluster. In multiple data-center clusters, the seed list should include at least one node from each data center (replication group). More than a single seed node per data center is recommended for fault tolerance. Otherwise, gossip has to communicate with another data center when bootstrapping a node. Making every node a seed node is **not** recommended because of increased maintenance and reduced gossip performance. Gossip optimization is not critical, but Genesys recommends that you use a small seed list. For more information, refer to https://docs.datastax.com/en/cassandra/architecture/architectureGossipAbout c.html.

Valid Values: A single or comma-delimited list of IP addresses

Mandatory: Yes

Changes Take Effect: After start/restart

rpcAddress (Node Only)

Description: The listen address for thrift client connections.

Valid Values: Valid IP address or hostname of the host where the Web Engagement Server is

running

Mandatory: Yes

Changes Take Effect: After start/restart

listenAddress (Node Only)

Description: The IP address or hostname that Cassandra binds to for connecting to other Cassandra

nodes.

Valid Values: Valid IP address or hostname of the host where the Web Engagement Server is

running

Mandatory: Yes

Changes Take Effect: After start/restart

rpcPort

Description: Thrift port for client connections.

Default Value: 9160

Valid Values: Valid port number

Mandatory: No

Changes Take Effect: After start/restart

nativeTransportPort

Description: Port on which the CQL native transport listens for clients.

Default Value: 9042

Valid Values: Valid port number

Mandatory: No

Changes Take Effect: After start/restart

storagePort

Description: The port for inter-node communication.

Default Value: 7000

Valid Values: Valid port number

Mandatory: No

Changes Take Effect: After start/restart

sslStoragePort

Description: The SSL port for encrypted communication. Not used unless enabled in the

encryption.server.internode option.

Default Value: 7001

Valid Values: Valid port number

Mandatory: No

Changes Take Effect: After start/restart

commitLogSync

Description: The method that Cassandra uses to acknowledge writes, as described at

http://docs.datastax.com/en/cassandra/2.1/cassandra/dml/dml durability c.html.

Default Value: periodic Valid Values: periodic, batch

Mandatory: No

Changes Take Effect: After start/restart

commitLogSyncPeriod

Description: The period that Cassandra uses to acknowledge writes (in milliseconds).

Default Value: 10000 **Valid Values:** Valid integer

Mandatory: No

Changes Take Effect: After start/restart

numTokens

Description: Defines the number of tokens randomly assigned to this node on the ring when using virtual nodes (vnodes). The more tokens, relative to other nodes, the larger the proportion of data

that the node stores. **Default Value:** 256 **Valid Values:** Valid integer

Mandatory: No

Changes Take Effect: After start/restart

authenticator

Description: The authentication backend, as described at http://docs.datastax.com/en/cassandra/

2.1/cassandra/security/secure about native authenticate c.html.

Default Value: AllowAllAuthenticator

Valid Values: AllowAllAuthenticator, PasswordAuthenticator

Mandatory: No

Changes Take Effect: After start/restart

authorizer

Description: The authorization backend, as described at http://docs.datastax.com/en/cassandra/2.1/

cassandra/security/secure about native authorize c.html.

Default Value: AllowAllAuthorizer

Valid Values: AllowAllAuthorizer, CassandraAuthorizer

Mandatory: No

Changes Take Effect: After start/restart

writeTimeout

Description: The time (in milliseconds) that the coordinator waits for write operations to complete.

Default Value: 2000

Valid Values: Valid long

Mandatory: No

Changes Take Effect: After start/restart

readTimeout

Description: The time (in milliseconds) that the coordinator waits for read operations to complete.

Default Value: 5000 **Valid Values:** Valid long

Mandatory: No

Changes Take Effect: After start/restart

configFile

Description: Embedded Cassandra external configuration YAML file path. Overrides all Cassandra

settings.

Valid Values: Valid YAML file path

Mandatory: No

Changes Take Effect: After start/restart

encryption.server.internode

Description: Enables or disables inter-node encryption. You must also generate keys and provide the appropriate key and trust store locations and passwords. No custom encryption options are currently enabled, as described at http://docs.datastax.com/en/cassandra/2.1/cassandra/security/

secureSSLNodeToNode t.html.

Default Value: none

Valid Values: none, all, dc, rack

Mandatory: No

Changes Take Effect: After start/restart

encryption.server.keystore

Description: The location of a server-side Java keystore (JKS) suitable for use with Java Secure Socket Extension (JSSE), which is the Java version of the Secure Sockets Layer (SSL), and Transport Layer Security (TLS) protocols. The keystore contains the private key used to encrypt outgoing

messages.

Default Value: conf/.keystore

Valid Values: Valid path

Mandatory: No

Changes Take Effect: After start/restart

encryption.server.keystorePassword

Description: Password for the server-side keystore.

Default Value: cassandra

Valid Values: Valid string

Mandatory: No

Changes Take Effect: After start/restart

encryption.server.truststore

Description: Location of the truststore containing the trusted certificate for authenticating remote

servers.

Default Value: conf/.truststore

Valid Values: Valid path

Mandatory: No

Changes Take Effect: After start/restart

encryption.server.truststorePassword

Description: Password for the truststore.

Default Value: cassandra **Valid Values:** Valid string

Mandatory: No

Changes Take Effect: After start/restart

encryption.server.clientAuth

Description: Enables or disables certificate authentication.

Default Value: false **Valid Values:** true, false

Mandatory: No

Changes Take Effect: After start/restart

encryption.client.enabled

Description: Enables or disables client-to-node encryption. You must also generate keys and provide the appropriate key and trust store locations and passwords. No custom encryption options are currently enabled, as described at http://docs.datastax.com/en/cassandra/2.1/cassandra/security/secureSSLClientToNode t.html.

Default Value: false Valid Values: true, false

Mandatory: No

Changes Take Effect: After start/restart

encryption.client.keystore

Description: The location of a client-side Java keystore (JKS) suitable for use with Java Secure Socket Extension (JSSE), which is the Java version of the Secure Sockets Layer (SSL), and Transport Layer Security (TLS) protocols. The keystore contains the private key used to encrypt outgoing messages.

Default Value: conf/.keystore

Valid Values: Valid path

Mandatory: No

Changes Take Effect: After start/restart

encryption.client.keystorePassword

Description: Password for the client-side keystore. This must match the password used when

generating the keystore and truststore.

Default Value: cassandra

Valid Values: Mandatory: No

Changes Take Effect: After start/restart

encryption.client.truststore

Description: Set if **encryption.client.clientAuth** is true.

Default Value: conf/.truststore

Valid Values: Valid path

Mandatory: No

Changes Take Effect: After start/restart

encryption.client.truststorePassword

Description: Set if **encryption.client.clientAuth** is true.

Default Value: truststore password

Valid Values: Valid string

Mandatory: No

Changes Take Effect: After start/restart

encryption.client.clientAuth

Description: Enables or disables certificate authentication.

Default Value: false **Valid Values:** true, false

Mandatory: No

Changes Take Effect: After start/restart