1   memcached.json

memcached.json — memcached configuration file

DESCRIPTION

memcached.json is a JSON encoded file specifying the properties used to configure the memcached server. Some of the parameters may be changed at runtime by instructing memcached to reread the configuration file. These properties is explicitly marked as such.

The following sections describes the various attributes that may be specified.

root

This is the root directory of the Couchbase server installation.

admin

Specify the username used for administrive operations (like bucket management). To disable the use of an administrative role you should set this to an empty string.

breakpad

The **breakpad** attribute is used to configure the Breakpad crash catcher. When enabled (and on a supported platform), if memcached crashes a minidump containing information on the state of memcached will be written to disk. It is an object with the following attributes:

```
enabled       A boolean value specifying if Breakpad is enabled.
              If true (and *minidump_dir* is set) minidumps will
              be output to directory specified by *minidump_dir*.
              If not specified then defaults to false.

minidump_dir  A string value specifying the directory to write any
              outputted minidumps to.  If not specified then
              Breakpad is not enabled.

content       A string value specifying what data will be included
              in generated minidumps. Currently the only permitted
              value is "default".
```

enabled, **minidump_dir** and **content** may be modified at runtime by instructing memcached to reread the configuration file.

rbac_file

Specify the filename containing all of the RBAC definitions

audit_file

Specify the filename containing all of the Audit configurations

threads

The **threads** attribute specify the number of threads used to serve clients. By default this number is set to 75% of the number of cores available on the system (but no less than 4). The value for threads should be specified as an integral number.

interfaces

The **interfaces** attribute is used to specify an array of interfaces memcached should listen at. Each entry in the interfaces array is an object describing a single interface with the following properties:

```
host          A string value specifying the hostname to bind to.
              If the attribute is missing (or set to "*")
              IN_ADDR_ANY is used.

port          An integral number specifying the port number

IPv4          A boolean value specifying if IPv4 should be enabled
              or not. By default IPv4 is enabled.

IPv6          A boolean value specifying if IPv6 should be enabled
              or not. By default IPv6 is enabled.

maxconn       An integral number specifying the maximum number of
              concurrent clients that may be connected.

backlog       An integral number specifying the backlog size
              set to listen.

tcp_nodelay   A boolean value if TCP_NODELAY should be set or not.
              By default tcp_nodelay is enabled.

ssl           An object specifying SSL related properties.
              See below.
```

The **ssl** object contains the two **mandatory** attributes:

```
key           A string value with the absolute path to the
              file containing the private key to use.

cert          A string value with the absolute path to the
              file containing the X.509 certificate to use.
```

maxconn, **backlog**, **tcp_nodelay**, **ssl.key** and **ssl.cert** may be modified by instructing memcached to reread the configuration file.

extensions

The **extensions** attribute is used to specify an array of extensions which should be loaded. Each entry in the extensions array is an object describing a single extension with the following attributes:

```
module   A string value containing the module to load. This may
         either be an absolute path, or the systems library path
         will be searched for the object. When loaded memcached
         calls the method memcached_extensions_initialize().
```

```
config    A string value containing configuration attributes to
          the module. The config value is passed transparently
          to the module.
```

engine

The **engine** attribute is used to specify the engine to load. It is an object with the following attributes:

```
module    A string value containing the module to load. This may
          either be an absolute path, or the systems library path
          will be searched for the object. The object must
          implement the engine api.

config    A string value containing configuration attributes to
          the module. The config value is passed transparently
          to the module.
```

require_sasl

The **require_sasl** attribute specify if performing SASL authentication is required or not. The value is a boolean value which is set to false by default.

default_reqs_per_event

The **default_reqs_per_event** attribute is an integral value specifying the number of request that may be served per client before serving the next client (to avoid starvation). The default value is 20.

default_reqs_per_event may be updated by instructing memcached to reread the configuration file.

verbosity

The **verbosity** attribute is an integral value specifying the amount of output produced by the memcached server. By default this value is set to 0 resulting in only warnings to be emitted. Setting this value too high will produce a lot of output which is most likely meaningless for most people.

verbosity may be updated by instructing memcached to reread the configuration file.

datatype_support

The **datatype_support** attribute is a boolean value to enable the support for using the datatype extension. By default this support is **disabled**.

EXAMPLES

A Sample memcached.json:

```
{
    "threads" : 4,
    "interfaces" :
    [
        {
            "maxconn" : 1000,
```

```
            "port" : 11310,
            "backlog" : 1024,
            "host" : "*",
            "IPv4" : true,
            "IPv6" : true,
            "tcp_nodelay" : true,
            "ssl" :
            {
                "key" : "/etc/memcached/pkey",
                "cert" : "/etc/memcached/cert"
            }
        },
        {
            "maxconn" : 10000,
            "port" : 11210,
            "backlog" : 1024,
            "host" : "*",
            "IPv4" : true,
            "IPv6" : true,
            "tcp_nodelay" : true
        },
        {
            "maxconn" : 1000,
            "port" : 11213,
            "host" : "127.0.0.1",
            "IPv6" : false
        }
    ],
    "extensions" :
    [
        {
            "module" : "stdin_term_handler.so",
            "config" : ""
        },
        {
            "module" : "file_logger.so",
            "config" : "cyclesize=10485760;sleeptime=19;filename=data/n_0/logs/ ↩
                memcached.log"
        }
    ],
    "engine" : {
        "module" : "bucket_engine.so",
        "config" : "admin=_admin;default_bucket_name=default;auto_create=false"
    },
    "require_sasl" : false,
    "prefix_delimiter" : ":",
    "allow_detailed" : true,
    "detail_enabled" : false,
    "default_reqs_per_event" : 20,
    "reqs_per_event_high_priority" : 50,
    "reqs_per_event_med_priority" : 5,
    "reqs_per_event_low_priority" : 1,
    "verbosity" : 0,
    "lock_memory" : false,
    "large_memory_pages" : false,
    "daemonize" : false,
    "pid_file" : "/var/run/memcached.pid",
```

```
    "datatype_support" : true,
    "breakpad" : {
        "enabled" : true,
        "minidump_dir" : "/opt/couchbase/var/lib/couchbase/crash",
        "content" : "default"
    }
}
```

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