RabbitMQ 消息队列监控 API

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来源网站：链滴
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最近有一个项目,需要编写一个监听rabbitMQ集群状态的项目,需要通过rabbit提供的API来获取相应据并组装,所以需要学习一下rabbit的API

HTTP API URL	HTTP请求类型	口含义
/api/connections	GET	获取当前abbitMQ集群下所有打开的连接
/api/nodes	GET	获取当前RabbiMQ集群下所有节点实例的状态信息
/api/vhosts/{vhost}/connections	GET	取某一个虚拟机主机下的所有打开的connection连接
/api/connections/{name}/channels	GET	取某一个连接下所有的管道信息
/api/consumers/{vhost}	GET	取某一个虚拟机主机下的所有消费者信息
/api/exchanges/{vhost}	GET	取某一个虚拟机主机下面的所有交换器信息
/api/queues/{vhost}	GET	获取一个虚拟机主机下的所有队列信息
/api/users	GET	获取集群中所有用户信息
/api/users/{name}	get/put/delete	取/更新/删除指定用户信息
/api/users/{user}/permissions	GET	取当前指定用户的所有权限信息
/api/permissions/{vhost}/{user}	get/put/delete	取/更新/删除指定虚拟主机下特定用户的权限
/api/exchanges/{vhost}/{name}/publish	POST	指定的虚拟机主机和交换器上发布一个消息
/api/queues/{vhost}/{name}/get	POST	在指定虚拟机主机和队列名中获取消息，同时该动作会修改队列状态试
/api/healthchecks/node/{node}	GET	取指定节点的健康检查状态

/api/nodes/{node}/memory GET
取指定节点的内存使用信息

部分API实例

/api/overview 返回集群度量标准

字段名称	意义
cluster_name	集群名称
management_version	版本
message_stats	消息速率
object_totals.connections	连接总数
object_totals.channels	频道总数
object_totals.queues	队列总数
object_totals.consumers	消费者总数
queue_totals.messages	准备好与未确认的消息数
queue_totals.messages_ready	准备发送的消息数
queue_totals.messages_unacknowledged	未认消息的数量
message_stats.publish	最近发布的消息
message_stats.publish_details.rate	消息发布率
message_stats.deliver_get	最近发送给消费者消息
message_stats.deliver_get.rate	邮件传递率
message_stats	其他消息统计


```
{
    "management_version": "3.7.14",
    "rates_mode": "basic",
    "sample_retention_policies": {
        "global": [
            600,
            3600,
            28800,
            86400
        ],
        "basic": [
            600,
            3600
        ],
        "detailed": [
            600
        ]
    },
```

"exchange_types": [
    {
        "name": "fanout",
        "description": "AMQP fanout exchange, as per the AMQP specification",
        "enabled": true
    },
    {
        "name": "headers",
        "description": "AMQP headers exchange, as per the AMQP specification",
        "enabled": true
    },
    {
        "name": "x-delayed-message",
        "description": "Delayed Message Exchange.",
        "enabled": true
    },
    {
        "name": "direct",
        "description": "AMQP direct exchange, as per the AMQP specification",
        "enabled": true
    },
    {
        "name": "topic",
        "description": "AMQP topic exchange, as per the AMQP specification",
        "enabled": true
    }
],
"rabbitmq_version": "3.7.14",
"cluster_name": "rabbit@wangtaodeMacBook-Pro",
"erlang_version": "21.3.2",
"erlang_full_version": "Erlang/OTP 21 [erts-10.3.1] [source]
[64-bit] [smp:12:12] [ds:12:12:10] [async-threads:192]
 [hipe] [dtrace]",
"message_stats": {
    "disk_reads": 2,
    "disk_reads_details": {
        "rate": 0
    },
    "disk_writes": 0,
    "disk_writes_details": {
        "rate": 0
    }
},
"churn_rates": {
    "channel_closed": 0,
    "channel_closed_details": {
        "rate": 0
    },
    "channel_created": 0,
    "channel_created_details": {
        "rate": 0
    },
    "connection_closed": 0,
    "connection_closed_details": {

```
        "rate": 0
    },
    "connection_created": 0,
    "connection_created_details": {
        "rate": 0
    },
    "queue_created": 0,
    "queue_created_details": {
        "rate": 0
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    "queue_declared": 0,
    "queue_declared_details": {
        "rate": 0
    },
    "queue_deleted": 0,
    "queue_deleted_details": {
        "rate": 0
    }
},
"queue_totals": {
    "messages": 2,
    "messages_details": {
        "rate": 0
    },
    "messages_ready": 2,
    "messages_ready_details": {
        "rate": 0
    },
    "messages_unacknowledged": 0,
    "messages_unacknowledged_details": {
        "rate": 0
    }
},
"object_totals": {
    "channels": 0,
    "connections": 0,
    "consumers": 0,
    "exchanges": 16,
    "queues": 10
},
"statistics_db_event_queue": 0,
"node": "rabbit@localhost",
"listeners": [
    {
        "node": "rabbit@localhost",
        "protocol": "amqp",
        "ip_address": "127.0.0.1",
        "port": 5672,
        "socket_opts": {
            "backlog": 128,
            "nodelay": true,
            "linger": [
                true,
                0
```

```
            ],
            "exit_on_close": false
        }
    },
    {
        "node": "rabbit@localhost",
        "protocol": "clustering",
        "ip_address": "::",
        "port": 25672,
        "socket_opts": []
    },
    {
        "node": "rabbit@localhost",
        "protocol": "http",
        "ip_address": "::",
        "port": 15672,
        "socket_opts": {
            "port": 15672
        }
    },
    {
        "node": "rabbit@localhost",
        "protocol": "mqtt",
        "ip_address": "::",
        "port": 1883,
        "socket_opts": {
            "backlog": 128,
            "nodelay": true
        }
    },
    {
        "node": "rabbit@localhost",
        "protocol": "stomp",
        "ip_address": "::",
        "port": 61613,
        "socket_opts": {
            "backlog": 128,
            "nodelay": true
        }
    }
],
"contexts": [
    {
        "ssl_opts": [],
        "node": "rabbit@localhost",
        "description": "RabbitMQ Management",
        "path": "/",
        "port": "15672"
    }
]
}
```


/api/nodes 返回所有集群成员统计消息

字段名称	意义
mem_used	使用的内存总量
mem_limit	内存使用率
mem_alarm	内存警报开关
disk_free_limit	磁盘空间限制大小
disk_free_alarm	磁盘空间大小限制开关
fd_total	文件描述符限制
fd_used	文件描述符是否开始
io_file_handle_open_attempt_count	io文件句打开尝试计数
sockets_total	socket数量
sockets_used	正在使用的socket数量
message_stats.disk_reads	磁盘读取的消息数
message_stats.disk_writes	写入磁盘的消息数
cluster_links	节点间通信链路
gc_num	GC次数
gc_bytes_reclaimed	GC回收的字节数
proc_total	Erlang进程限制数量
proc_used	Erlang进行使用数量
run_queue	运行时队列数量


```
[
    {
        "partitions": [],
        "os_pid": "4470",
        "fd_total": 256,
        "sockets_total": 138,
        "mem_limit": 6871947673,
        "mem_alarm": false,
        "disk_free_limit": 50000000,
        "disk_free_alarm": false,
        "proc_total": 1048576,
        "rates_mode": "basic",
        "uptime": 4176419,
        "run_queue": 1,
        "processors": 12,
        "exchange_types": [
            {
                "name": "fanout",
                "description": "AMQP fanout exchange, as per the AMQP specification",
                "enabled": true
            },
            {
                "name": "headers",
                "description": "AMQP headers exchange, as per the AMQP specification",
                "enabled": true
```

```
    },
    {
        "name": "x-delayed-message",
        "description": "Delayed Message Exchange.",
        "enabled": true
    },
    {
        "name": "direct",
        "description": "AMQP direct exchange, as per the AMQP specification",
        "enabled": true
    },
    {
        "name": "topic",
        "description": "AMQP topic exchange, as per the AMQP specification",
        "enabled": true
    }
],
"auth_mechanisms": [
    {
        "name": "RABBIT-CR-DEMO",
        "description": "RabbitMQ Demo challenge-response authentication mechanism",
        "enabled": false
    },
    {
        "name": "AMQPLAIN",
        "description": "QPid AMQPLAIN mechanism",
        "enabled": true
    },
    {
        "name": "PLAIN",
        "description": "SASL PLAIN authentication mechanism",
        "enabled": true
    }
],
"applications": [
    {
        "name": "amqp10_common",
        "description": "Modules shared by rabbitmq-amqp1.0
        and rabbitmq-amqp1.0-client",
        "version": "3.7.14"
    },
    {
        "name": "amqp_client",
        "description": "RabbitMQ AMQP Client",
        "version": "3.7.14"
    },
    {
        "name": "asn1",
        "description": "The Erlang ASN1 compiler version 5.0.8",
        "version": "5.0.8"
    },
    {
        "name": "compiler",
        "description": "ERTS  CXC 138 10",
```

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    "version": "7.3.2"
},
{
    "name": "cowboy",
    "description": "Small, fast, modern HTTP server.",
    "version": "2.6.1"
},
{
    "name": "cowlib",
    "description": "Support library for manipulating Web protocols.",
    "version": "2.7.0"
},
{
    "name": "crypto",
    "description": "CRYPTO",
    "version": "4.4.1"
},
{
    "name": "goldrush",
    "description": "Erlang event stream processor",
    "version": "0.1.9"
},
{
    "name": "inets",
    "description": "INETS  CXC 138 49",
    "version": "7.0.6"
},
{
    "name": "jsx",
    "description": "a streaming, evented json parsing toolkit",
    "version": "2.9.0"
},
{
    "name": "kernel",
    "description": "ERTS  CXC 138 10",
    "version": "6.3"
},
{
    "name": "lager",
    "description": "Erlang logging framework",
    "version": "3.6.9"
},
{
    "name": "mnesia",
    "description": "MNESIA  CXC 138 12",
    "version": "4.15.6"
},
{
    "name": "os_mon",
    "description": "CPO  CXC 138 46",
    "version": "2.4.7"
},
{
    "name": "public_key",
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"description": "Public key infrastructure",
"version": "1.6.5"
},
{
"name": "rabbit",
"description": "RabbitMQ",
"version": "3.7.14"
},
{
"name": "rabbit_common",
"description": "Modules shared by rabbitmq-server
and rabbitmq-erlang-client",
"version": "3.7.14"
},
{
"name": "rabbitmq_amqp1_0",
"description": "AMQP 1.0 support for RabbitMQ",
"version": "3.7.14"
},
{
"name": "rabbitmq_delayed_message_exchange",
"description": "RabbitMQ Delayed Message Exchange",
"version": "20171201-3.7.x"
},
{
"name": "rabbitmq_management",
"description": "RabbitMQ Management Console",
"version": "3.7.14"
},
{
"name": "rabbitmq_management_agent",
"description": "RabbitMQ Management Agent",
"version": "3.7.14"
},
{
"name": "rabbitmq_mqtt",
"description": "RabbitMQ MQTT Adapter",
"version": "3.7.14"
},
{
"name": "rabbitmq_stomp",
"description": "RabbitMQ STOMP plugin",
"version": "3.7.14"
},
{
"name": "rabbitmq_web_dispatch",
"description": "RabbitMQ Web Dispatcher",
"version": "3.7.14"
},
{
"name": "ranch",
"description": "Socket acceptor pool for TCP protocols.",
"version": "1.7.1"
},

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    {
        "name": "recon",
        "description": "Diagnostic tools for production use",
        "version": "2.4.0"
    },
    {
        "name": "sasl",
        "description": "SASL  CXC 138 11",
        "version": "3.3"
    },
    {
        "name": "ssl",
        "description": "Erlang/OTP SSL application",
        "version": "9.2.1"
    },
    {
        "name": "stdlib",
        "description": "ERTS  CXC 138 10",
        "version": "3.8"
    },
    {
        "name": "syntax_tools",
        "description": "Syntax tools",
        "version": "2.1.7"
    },
    {
        "name": "sysmon_handler",
        "description": "Rate-limiting system_monitor event handler",
        "version": "1.1.0"
    },
    {
        "name": "xmerl",
        "description": "XML parser",
        "version": "1.3.20"
    }
],
"contexts": [
    {
        "description": "RabbitMQ Management",
        "path": "/",
        "port": "15672"
    }
],
"log_files": [
    "/usr/local/var/log/rabbitmq/rabbit@localhost.log",
    "/usr/local/var/log/rabbitmq/rabbit@localhost_upgrade.log"
],
"db_dir": "/usr/local/var/lib/rabbitmq/mnesia/rabbit@localhost",
"config_files": [],
"net_ticktime": 60,
"enabled_plugins": [
    "rabbitmq_amqp1_0",
    "rabbitmq_delayed_message_exchange",
    "rabbitmq_management",
```

```
    "rabbitmq_mqtt",
    "rabbitmq_stomp"
],
"mem_calculation_strategy": "rss",
"name": "rabbit@localhost",
"type": "disc",
"running": true,
"mem_used": 86556672,
"mem_used_details": {
    "rate": 4096
},
"fd_used": 72,
"fd_used_details": {
    "rate": -0.4
},
"sockets_used": 0,
"sockets_used_details": {
    "rate": 0
},
"proc_used": 457,
"proc_used_details": {
    "rate": 0
},
"disk_free": 172579655680,
"disk_free_details": {
    "rate": -15564.8
},
"gc_num": 22686,
"gc_num_details": {
    "rate": 4.6
},
"gc_bytes_reclaimed": 1060411720,
"gc_bytes_reclaimed_details": {
    "rate": 158604.8
},
"context_switches": 307064,
"context_switches_details": {
    "rate": 37.4
},
"io_read_count": 22,
"io_read_count_details": {
    "rate": 0
},
"io_read_bytes": 2083,
"io_read_bytes_details": {
    "rate": 0
},
"io_read_avg_time": 0.02909090909090909,
"io_read_avg_time_details": {
    "rate": 0
},
"io_write_count": 0,
"io_write_count_details": {
    "rate": 0
```

```
},
"io_write_bytes": 0,
"io_write_bytes_details": {
    "rate": 0
},
"io_write_avg_time": 0,
"io_write_avg_time_details": {
    "rate": 0
},
"io_sync_count": 0,
"io_sync_count_details": {
    "rate": 0
},
"io_sync_avg_time": 0,
"io_sync_avg_time_details": {
    "rate": 0
},
"io_seek_count": 0,
"io_seek_count_details": {
    "rate": 0
},
"io_seek_avg_time": 0,
"io_seek_avg_time_details": {
    "rate": 0
},
"io_reopen_count": 0,
"io_reopen_count_details": {
    "rate": 0
},
"mnesia_ram_tx_count": 60,
"mnesia_ram_tx_count_details": {
    "rate": 0
},
"mnesia_disk_tx_count": 10,
"mnesia_disk_tx_count_details": {
    "rate": 0
},
"msg_store_read_count": 0,
"msg_store_read_count_details": {
    "rate": 0
},
"msg_store_write_count": 0,
"msg_store_write_count_details": {
    "rate": 0
},
"queue_index_journal_write_count": 0,
"queue_index_journal_write_count_details": {
    "rate": 0
},
"queue_index_write_count": 0,
"queue_index_write_count_details": {
    "rate": 0
},
"queue_index_read_count": 3,
```

```
        "queue_index_read_count_details": {
            "rate": 0
        },
        "io_file_handle_open_attempt_count": 73,
        "io_file_handle_open_attempt_count_details": {
            "rate": 0
        },
        "io_file_handle_open_attempt_avg_time": 0.031643835616438354,
        "io_file_handle_open_attempt_avg_time_details": {
            "rate": 0
        },
        "connection_created": 0,
        "connection_created_details": {
            "rate": 0
        },
        "connection_closed": 0,
        "connection_closed_details": {
            "rate": 0
        },
        "channel_created": 0,
        "channel_created_details": {
            "rate": 0
        },
        "channel_closed": 0,
        "channel_closed_details": {
            "rate": 0
        },
        "queue_declared": 0,
        "queue_declared_details": {
            "rate": 0
        },
        "queue_created": 0,
        "queue_created_details": {
            "rate": 0
        },
        "queue_deleted": 0,
        "queue_deleted_details": {
            "rate": 0
        },
        "cluster_links": [],
        "metrics_gc_queue_length": {
            "connection_closed": 0,
            "channel_closed": 0,
            "consumer_deleted": 0,
            "exchange_deleted": 0,
            "queue_deleted": 0,
            "vhost_deleted": 0,
            "node_node_deleted": 0,
            "channel_consumer_deleted": 0
        }
    }
]
```

/api/nodes/ 返回单个节点的统计信息


```
{
    "partitions": [],
    "os_pid": "4470",
    "fd_total": 256,
    "sockets_total": 138,
    "mem_limit": 6871947673,
    "mem_alarm": false,
    "disk_free_limit": 50000000,
    "disk_free_alarm": false,
    "proc_total": 1048576,
    "rates_mode": "basic",
    "uptime": 11728280,
    "run_queue": 1,
    "processors": 12,
    "exchange_types": [
        {
            "name": "fanout",
            "description": "AMQP fanout exchange, as per the AMQP specification",
            "enabled": true
        },
        {
            "name": "headers",
            "description": "AMQP headers exchange, as per the AMQP specification",
            "enabled": true
        },
        {
            "name": "x-delayed-message",
            "description": "Delayed Message Exchange.",
            "enabled": true
        },
        {
            "name": "direct",
            "description": "AMQP direct exchange, as per the AMQP specification",
            "enabled": true
        },
        {
            "name": "topic",
            "description": "AMQP topic exchange, as per the AMQP specification",
            "enabled": true
        }
    ],
    "auth_mechanisms": [
        {
            "name": "RABBIT-CR-DEMO",
            "description": "RabbitMQ Demo challenge-response authentication mechanism",
            "enabled": false
        },
        {
            "name": "AMQPLAIN",
            "description": "QPid AMQPLAIN mechanism",
            "enabled": true
        },
```

```
    {
        "name": "PLAIN",
        "description": "SASL PLAIN authentication mechanism",
        "enabled": true
    }
],
"applications": [
    {
        "name": "amqp10_common",
        "description": "Modules shared by rabbitmq-amqp1.0 and rabbitmq-amqp1.0-client",
        "version": "3.7.14"
    },
    {
        "name": "amqp_client",
        "description": "RabbitMQ AMQP Client",
        "version": "3.7.14"
    },
    {
        "name": "asn1",
        "description": "The Erlang ASN1 compiler version 5.0.8",
        "version": "5.0.8"
    },
    {
        "name": "compiler",
        "description": "ERTS  CXC 138 10",
        "version": "7.3.2"
    },
    {
        "name": "cowboy",
        "description": "Small, fast, modern HTTP server.",
        "version": "2.6.1"
    },
    {
        "name": "cowlib",
        "description": "Support library for manipulating Web protocols.",
        "version": "2.7.0"
    },
    {
        "name": "crypto",
        "description": "CRYPTO",
        "version": "4.4.1"
    },
    {
        "name": "goldrush",
        "description": "Erlang event stream processor",
        "version": "0.1.9"
    },
    {
        "name": "inets",
        "description": "INETS  CXC 138 49",
        "version": "7.0.6"
    },
    {
        "name": "jsx",
```

```
    "description": "a streaming, evented json parsing toolkit",
    "version": "2.9.0"
},
{
    "name": "kernel",
    "description": "ERTS  CXC 138 10",
    "version": "6.3"
},
{
    "name": "lager",
    "description": "Erlang logging framework",
    "version": "3.6.9"
},
{
    "name": "mnesia",
    "description": "MNESIA  CXC 138 12",
    "version": "4.15.6"
},
{
    "name": "os_mon",
    "description": "CPO  CXC 138 46",
    "version": "2.4.7"
},
{
    "name": "public_key",
    "description": "Public key infrastructure",
    "version": "1.6.5"
},
{
    "name": "rabbit",
    "description": "RabbitMQ",
    "version": "3.7.14"
},
{
    "name": "rabbit_common",
    "description": "Modules shared by rabbitmq-server and rabbitmq-erlang-client",
    "version": "3.7.14"
},
{
    "name": "rabbitmq_amqp1_0",
    "description": "AMQP 1.0 support for RabbitMQ",
    "version": "3.7.14"
},
{
    "name": "rabbitmq_delayed_message_exchange",
    "description": "RabbitMQ Delayed Message Exchange",
    "version": "20171201-3.7.x"
},
{
    "name": "rabbitmq_management",
    "description": "RabbitMQ Management Console",
    "version": "3.7.14"
},
{
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```
    "name": "rabbitmq_management_agent",
    "description": "RabbitMQ Management Agent",
    "version": "3.7.14"
},
{
    "name": "rabbitmq_mqtt",
    "description": "RabbitMQ MQTT Adapter",
    "version": "3.7.14"
},
{
    "name": "rabbitmq_stomp",
    "description": "RabbitMQ STOMP plugin",
    "version": "3.7.14"
},
{
    "name": "rabbitmq_web_dispatch",
    "description": "RabbitMQ Web Dispatcher",
    "version": "3.7.14"
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{
    "name": "ranch",
    "description": "Socket acceptor pool for TCP protocols.",
    "version": "1.7.1"
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{
    "name": "recon",
    "description": "Diagnostic tools for production use",
    "version": "2.4.0"
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{
    "name": "sasl",
    "description": "SASL  CXC 138 11",
    "version": "3.3"
},
{
    "name": "ssl",
    "description": "Erlang/OTP SSL application",
    "version": "9.2.1"
},
{
    "name": "stdlib",
    "description": "ERTS  CXC 138 10",
    "version": "3.8"
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{
    "name": "syntax_tools",
    "description": "Syntax tools",
    "version": "2.1.7"
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    "name": "sysmon_handler",
    "description": "Rate-limiting system_monitor event handler",
    "version": "1.1.0"
},
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    {
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        "description": "XML parser",
        "version": "1.3.20"
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"contexts": [
    {
        "description": "RabbitMQ Management",
        "path": "/",
        "port": "15672"
    }
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"log_files": [
    "/usr/local/var/log/rabbitmq/rabbit@localhost.log",
    "/usr/local/var/log/rabbitmq/rabbit@localhost_upgrade.log"
],
"db_dir": "/usr/local/var/lib/rabbitmq/mnesia/rabbit@localhost",
"config_files": [],
"net_ticktime": 60,
"enabled_plugins": [
    "rabbitmq_amqp1_0",
    "rabbitmq_delayed_message_exchange",
    "rabbitmq_management",
    "rabbitmq_mqtt",
    "rabbitmq_stomp"
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"mem_calculation_strategy": "rss",
"name": "rabbit@localhost",
"running": true,
"type": "disc",
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"mem_used_details": {
    "rate": -117964.8
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"fd_used": 72,
"fd_used_details": {
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"sockets_used": 0,
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"proc_used_details": {
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"disk_free": 172549808128,
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"gc_num": 38308,
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},
"gc_bytes_reclaimed": 1616503320,
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"mnesia_ram_tx_count_details": {
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"queue_index_read_count": 3,
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"io_file_handle_open_attempt_avg_time_details": {
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"channel_created": 0,
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"channel_closed": 0,
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"queue_declared": 0,
"queue_declared_details": {
    "rate": 0

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    "queue_deleted": 0,
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    "metrics_gc_queue_length": {
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        "channel_closed": 0,
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        "exchange_deleted": 0,
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        "node_node_deleted": 0,
        "channel_consumer_deleted": 0
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