默认HTTP接口，均为POST请求  
[​http://127.0.0.1:58000/HttpService/Emit](http://127.0.0.1:58000/HttpService/Emit)

发送POST同步查询，会直接返回查询的结果  
发送POST异步命令，会返回字段status为accept，以及字段job\_id用于后续查询该命令的执行状态

=======================================================================  
同步查询接口：

1.查询工作状态：  
{ "version": "1.0", "job\_id":"1", "job\_type": "get\_status", "timestamp" : "1435749309", "paras": {} }  
job\_id: 发送任务命令时，同步返回的job\_id

返回查询成功，以及正在进行的工作的状态  
字段中的status，可能包括'not\_started','ongoing','done','failed'  
{ "version":"1.0", "error\_code":"0", "error\_info":"Mission working", "status":"ongoing", "job\_id":"1", "job\_type": "create\_cluster", "attachment":{detail info for every mission} }

1. 获取元数据MGR模式,同步返回

{ "version": "1.0", "job\_id":"", "job\_type": "get\_meta\_mode", "timestamp" : "1435749309", "paras": {} }

返回, no\_rep, mgr, rbr  
{ "version":"1.0", "status":"success", "error\_code":"0", "error\_info":"", "status":"success", "attachment":{"mode": "no\_rep"} }

1. 获取元数据节点列表,同步返回

{ "version": "1.0", "job\_id":"", "job\_type": "get\_meta\_summary", "timestamp" : "1435749309", "paras": {} }

返回  
{ "version":"1.0", "status":"success", "error\_code":"0", "error\_info":"", "status":"success", "attachment":  
["list\_meta":{{"hostaddr":"192.168.31.105","master":"true","port":"57301","status":"online"},...}] }

1. 获取备份的存储列表,同步返回

{ "version": "1.0", "job\_id":"", "job\_type": "get\_backup\_storage", "timestamp" : "1435749309", "paras": {} }

返回  
{ "version":"1.0", "status":"success", "error\_code":"0", "error\_info":"", "status":"success", "attachment":  
["list\_backup\_storage":{{"name": "hdfs\_backup1","stype": "HDFS","hostaddr":"192.168.0.128","port": "57002"},...}] }

1. 获取所有机器状态,同步返回

{ "version": "1.0", "job\_id":"", "job\_type": "get\_machine\_summary", "timestamp" : "1435749309", "paras": {} }

返回  
{ "version":"1.0", "status":"success", "error\_code":"0", "error\_info":"", "status":"success", "attachment":  
["list\_machine":{{"hostaddr": "192.168.0.127","status": "online"},...}] }

1. 获取所有集群列表,同步返回

{ "version": "1.0", "job\_id":"", "job\_type": "get\_cluster\_summary", "timestamp" : "1435749309", "paras": {} }

返回  
{ "version":"1.0", "error\_code":"0", "error\_info":"", "status":"success", "attachment":  
["list\_cluster":{{ "name": "cluster\_1648373896\_000001", "nick\_name": "my\_nick\_name", "shards": "1", "comps": "1", "storage\_offine": "0", "computer\_offine": "0"},...}] }

1. 获取集群详细信息,同步返回

{ "version": "1.0", "job\_id":"", "job\_type": "get\_cluster\_detail", "timestamp" : "1435749309", "paras": {"cluster\_name":"cluster\_1648450947\_000001"} }

返回  
{ "version":"1.0", "error\_code":"0", "error\_info":"", "status":"done", "attachment":  
{ "cluster\_name":"cluster\_1651836141\_000001", "nick\_name":"my\_nick\_name", "shards":"1", "comps":"1", "list\_shard": [{"shard\_name":"shard1","nodes":"1", "list\_node": [{"hostaddr":"127.0.0.1","port":"58500","master":"true","status":"online"}]}], "list\_comp": [{"comp\_name":"comp1","hostaddr":"127.0.0.1","port":"58200","status":"online"}]} }

1. 获取实例变量,同步返回

实例包括存储节点，或者计算节点  
采用的语句是 select @@variable， 不一定所有变量都能获取  
{ "version": "1.0", "job\_id":"", "job\_type": "get\_variable", "timestamp" : "1435749309", "paras": { "hostaddr":"192.168.0.127", "port":"57301", "variable":"innodb\_buffer\_pool\_size"} }

返回  
{ "version":"1.0", "error\_code":"0", "error\_info":"", "status":"success", "attachment":  
["result": "true", "value": "1073741824"] }

1. 设置实例变量,同步返回

实例包括存储节点，或者计算节点  
type为变量类型，比如int,string,需要页面选择  
变量设置的值不一定成功，有些可能要重启实例，有些可能设置不了  
{ "version": "1.0", "job\_id":"", "job\_type": "set\_variable", "timestamp" : "1435749309", "paras": { "hostaddr":"192.168.0.127", "port":"57301", "variable":"innodb\_buffer\_pool\_size", "type":"int", "value":"134217728"} }

返回  
{ "version":"1.0", "error\_code":"0", "error\_info":"", "status":"success", "attachment":  
["result": "true"] }

=======================================================================  
异步操作接口，操作修改等动作的，均采用异步接口：

1. 创建机器, 异步，需要查询，不阻塞其他操作

该命令暂时不需要，因为node\_mgr启动注册端口到了元数据表  
机器的其他的信息需要采用更新机器的命令来完善  
返回status=done/failed, info:create machine success(或者错误信息)  
路径为根路径，必须存在，多个路径采用逗号分隔  
total\_mem单位是Mbyte  
user\_name为网页端使用，保存到操作记录里面  
{  
    **"version"**:**"1.0"**,  
    **"job\_id"**:**""**,  
    **"job\_type"**:**"create\_machine"**,  
    **"timestamp"**:**"1435749309"**,  
    **"user\_name"**:**"kunlun\_test”,**

**"paras"**:{  
        **"hostaddr"**:**"192.168.0.132"**,  
        **"machine\_type"**:**"storage"**,  
        **"port\_range"**:**"55000-58000"**,  
        **"rack\_id"**:**"1"**,  
        **"datadir"**:**"/nvme2/compare/base/storage\_datadir"**,  
        **"logdir"**:**"/nvme2/compare/base/storage\_logdir"**,  
        **"wal\_log\_dir"**:**"/nvme2/compare/base/storage\_waldir"**,  
        **"comp\_datadir"**:**"/nvme2/compare/base/server\_datadir"**,  
        **"total\_mem"**:**"8192"**,  
        **"total\_cpu\_cores"**:**"8"**  
    }  
}

查询接口get\_status返回  
{ "version":"1.0", "error\_code":"0", "error\_info":"create machine successfully", "status":"done", "attachment":{} }

1. 更新机器, 异步，需要查询，不阻塞其他操作

返回status=done/failed时, info:update machine success(或者错误信息)  
路径为根路径，必须存在，多个路径采用逗号分隔，total\_mem单位是Mbyte  
{ "version": "1.0", "job\_id":"", "job\_type": "update\_machine", "timestamp" : "1435749309", "user\_name":"kunlun\_test",  
"paras":{ "hostaddr":"127.0.0.1", "rack\_id":"1", "datadir":"/home/kunlun", "logdir":"/home/kunlun", "wal\_log\_dir":"/home/kunlun", "comp\_datadir":"/home/kunlun,", "total\_mem":"1024", "total\_cpu\_cores":"8"} }

1. 删除机器, 异步，需要查询，不阻塞其他操作

删了记录，重启node\_mgr会再次注册端口到了元数据表  
返回status=done/failed时, info:delete machine success(或者错误信息)  
{

"version":"1.0",

"job\_id":"",

"job\_type":"delete\_machine",

"timestamp":"1435749309",

"user\_name":"kunlun\_test",

"paras":{

"hostaddr":"127.0.0.1",

"machine\_type":"storage"

}

}

1. 设置机器状态, 异步，需要查询，不阻塞其他操作

设置机器 node\_stats 状态，dead不能安装，running才可以安装  
返回status=done/failed时, info:set machine success(或者错误信息)  
{ "version": "1.0", "job\_id":"", "job\_type": "set\_machine", "timestamp" : "1435749309", "user\_name":"kunlun\_test",  
"paras":{ "hostaddr":"127.0.0.1", "node\_stats":"running"} }

1. 创建备份的存储目标，异步，需要查询，不阻塞其他操作

stype应该为下拉菜单选项，但现在只支持HDFS  
{ "version": "1.0", "job\_id":"", "job\_type": "create\_backup\_storage", "timestamp" : "1435749309", "user\_name":"kunlun\_test",  
"paras":{ "name":"hdfs\_backup1", "stype":"HDFS", "hostaddr":"192.168.0.128", "port":"57002"} }

1. 更新备份的存储目标，异步，需要查询，不阻塞其他操作

{ "version": "1.0", "job\_id":"", "job\_type": "update\_backup\_storage", "timestamp" : "1435749309", "user\_name":"kunlun\_test",  
"paras":{ "name":"hdfs\_backup1", "stype":"HDFS", "hostaddr":"192.168.0.128", "port":"57002"} }

1. 删除备份的存储目标，异步，需要查询，不阻塞其他操作

该步骤需要提示,将同时删除该目标备份上的所有数据  
{ "version": "1.0", "job\_id":"", "job\_type": "delete\_backup\_storage", "timestamp" : "1435749309", "user\_name":"kunlun\_test",  
"paras":{ "name":"hdfs\_backup1"} }

1. 集群名称修改, 异步，需要查询

{ "version": "1.0", "job\_id":"", "job\_type": "rename\_cluster", "timestamp" : "1435749309", "user\_name":"kunlun\_test",  
"paras":{ "cluster\_name":"cluster\_1650271421\_000001", "nick\_name":"new\_name"} }

1. 创建集群, 异步，需要查询

返回status=done时, attachment:  
ha\_mode为分片高可用模式，包括no\_rep,mgr,rbr  
nick\_name为集群创建的昵称，昵称可以重名  
max\_storage\_size单位是G, innodb\_size单位是G  
innodb\_size按要求先默认1G吧，小于机器物理内存大小G  
dbcfg设置小内存模式，0和没有这个字段为正常模式，1为小内存模式  
fullsync\_level 该shard中强同步备机应当个数，该字段值要小于等于备机节点数

computer\_user 设置计算节点连接账号，默认为 “abc”

computer\_password 设置计算节点连接密码，默认为 “abc”  
storage\_iplist为指定安装存储节点机器，如果不指定，默认选择已有机器

computer\_iplist 为指定安装计算节点机器，如果不指定，默认选择已有机器  
{

    "version":"1.0",

    "job\_id":"",

    "job\_type":"create\_cluster",

    "timestamp":"1435749309",

    "user\_name":"kunlun\_test",

    "paras":{

        "nick\_name":"my\_nick\_name",

        "ha\_mode":"mgr",

        "shards":"3",

        "nodes":"3",

        "comps":"3",

        "max\_storage\_size":"20",

        "max\_connections":"10000",

        "cpu\_cores":"8",

        "innodb\_size":"1",

        "dbcfg":"1",

        "fullsync\_level":"1",

        "storage\_iplists":[

            "192.168.0.132",

            "192.168.0.134",

            "192.168.0.140"

        ],

        "computer\_iplists":[

            "192.168.0.132",

            "192.168.0.134",

            "192.168.0.140"

        ]

    }

}

查询接口get\_status返回  
{ "version":"1.0", "error\_code":"0", "error\_info":"create cluster successfully", "status":"done", "attachment":  
{"cluster\_id":"3","cluster\_name":"cluster\_1651903646\_000001","shards":"1","comps":"1"} }

1. 删除集群, 异步，需要查询

返回status=done时, attachment:  
{  
    **"version"**:**"1.0"**,  
    **"job\_id"**:**""**,  
    **"job\_type"**:**"delete\_cluster"**,  
    **"timestamp"**:**"1435749309"**,  
    **"user\_name"**:**"lalalademaxiya"**,  
    **"paras"**:{  
        **"cluster\_name"**:**"touDa"**  
    }  
}

查询接口get\_status返回  
{ "version":"1.0", "error\_code":"0", "error\_info":"delete cluster successfully", "status":"done", "attachment":{} }

1. 在现有集群上，新增分片，可以增加多个

返回status=done时, attachment:  
{  
    **"version"**:**"1.0"**,  
    **"job\_id"**:**""**,  
    **"job\_type"**:**"add\_shards"**,  
    **"timestamp"**:**"1435749309"**,  
    **"user\_name"**:**"kunlun\_test"**,  
    **"paras"**:{  
        **"cluster\_id"**:**"1"**,  
        **"shards"**:**"2"**,

**"nodes"**:**"3"**,

        **"storage\_iplists"**:[  
            **"192.168.0.132"**,  
            **"192.168.0.134"**,  
            **"192.168.0.140"**  
        ]  
    }  
}

查询接口get\_status返回  
{ "version":"1.0", "error\_code":"0", "error\_info":"add shards successfully", "status":"done", "attachment": { "cluster\_id":"2","cluster\_name":"cluster\_1651836141\_000001","shards":"2","comps":"1", "list\_shard":[{"shard\_id":"3","shard\_name":"shard2"}] } }

1. 在现有集群上，删除分片，只能一个一个删

这个命令暂时不支持  
返回status=done时, attachment:  
{  
    **"version"**:**"1.0"**,  
    **"job\_id"**:**""**,  
    **"job\_type"**:**"delete\_shard"**,  
    **"timestamp"**:**"1435749309"**,  
    **"user\_name"**:**"kunlun\_test"**,  
    **"paras"**:{  
        **"cluster\_id"**:**"1"**,  
        **"shard\_id"**:**"1"**  
    }  
}

查询接口get\_status返回  
{ "version":"1.0", "error\_code":"0", "error\_info":"delete shard successfully", "status":"done", "attachment":{} }

1. 在现有集群上，新增计算节点，可以增加多个

返回status=done时, attachment:  
{  
    **"version"**:**"1.0"**,  
    **"job\_id"**:**""**,  
    **"job\_type"**:**"add\_comps"**,  
    **"timestamp"**:**"1435749309"**,  
    **"user\_name"**:**"kunlun\_test"**,  
    **"paras"**:{  
        **"cluster\_id"**:**"1"**,  
        **"comps"**:**"2"**,  
        **"computer\_iplists"**:[  
            **"192.168.0.2"**,  
            **"192.168.0.3"**  
        ]  
    }  
}

查询接口get\_status返回  
{ "version":"1.0", "error\_code":"0", "error\_info":"add comps successfully", "status":"done", "attachment": { "cluster\_id":"3","cluster\_name":"cluster\_1651903646\_000001","shards":"1","comps":"2", "list\_comp":[{"comp\_id":"3","comp\_name":"comp2"}]} }

1. 在现有集群上，删除计算节点，只能一个一个删

返回status=done时, attachment:  
{  
    **"version"**:**"1.0"**,  
    **"job\_id"**:**""**,  
    **"job\_type"**:**"delete\_comp"**,  
    **"timestamp"**:**"1435749309"**,  
    **"user\_name"**:**"kunlun\_test"**,  
    **"paras"**:{  
        **"cluster\_id"**:**"1"**,  
        **"comp\_id"**:**"1"**  
    }  
}

查询接口get\_status返回  
{ "version":"1.0", "error\_code":"0", "error\_info":"delete comp successfully", "status":"done", "attachment":{} }

1. 为集群所有分片增加node, 异步，需要查询

带有shard\_name字段，只增加该分片，否则所有分片都增加  
返回result=done时, attachment:  
该操作只能是MGR/RBR模式，先备份分片，创建出新NODE, 把备份恢复到新NODE, 将新NODE加入分片  
{  
    **"version"**:**"1.0"**,  
    **"job\_id"**:**""**,  
    **"job\_type"**:**"add\_nodes"**,  
    **"timestamp"**:**"1435749309"**,  
    **"user\_name"**:**"kunlun\_test"**,  
    **"paras"**:{  
        **"cluster\_name"**:**"cluster001"**,  
        **"shard\_name"**:**"shard1"**,  
        **"nodes"**:**"2"**,  
        **"machinelist"**:[  
            **"192.168.0.2"**,  
            **"192.168.0.3"**  
        ]  
    }  
}

查询接口get\_status返回  
{ "version":"1.0", "error\_code":"0", "error\_info":"add new nodes successfully", "status":"done", "attachment": { "cluster\_id":"1","cluster\_name":"cluster\_1651907758\_000001","shards":"1","comps":"1", "list\_shard":[ { "shard\_id":"1", "shard\_name":"shard1", "nodes":"5", "list\_node":[ {"hostaddr":"192.168.0.127","node\_id":"4","port":"58509"}, {"hostaddr":"192.168.0.127","node\_id":"5","port":"58512"}]}]} }

1. 某个分片删除node, 异步，需要查询

返回result=done时, attachment:  
{  
    **"version"**:**"1.0"**,  
    **"job\_id"**:**""**,  
    **"job\_type"**:**"delete\_node"**,  
    **"timestamp"**:**"1435749309"**,  
    **"user\_name"**:**"kunlun\_test"**,  
    **"paras"**:{  
        **"cluster\_name"**:**"cluster001"**,  
        **"shard\_name"**:**"shard1"**,  
        **"hostaddr"**:**"127.0.0.1"**,  
        **"port"**:**"57338"**  
    }  
}

查询接口get\_status返回  
{ "version":"1.0", "error\_code":"0", "error\_info":"delete node successfully", "status":"done", "attachment":{} }

1. 备份集群, 异步，需要查询

返回status=done时, attachment:  
{ "version": "1.0", "job\_id":"", "job\_type": "backup\_cluster", "timestamp" : "1435749309", "user\_name":"kunlun\_test",  
"paras":{ "backup\_cluster\_name":"cluster001"} }

查询接口get\_status返回  
{ "version":"1.0", "error\_code":"0", "error\_info":"delete node successfully", "status":"done", "attachment":{"timestamp":"2022-05-07 15:40:54"} }

1. 恢复出新集群, 异步，需要查询

返回status=done时, attachment:  
{ "version": "1.0", "job\_id":"", "job\_type": "restore\_new\_cluster", "timestamp" : "1435749309", "user\_name":"kunlun\_test",  
"paras":{ "backup\_cluster\_name":"cluster001", "nick\_name":"nick\_name\_restore", "timestamp":"2021-12-20 19:22:20", "machinelist":["192.168.0.2","192.168.0.3"]} }

查询接口get\_status返回  
{ "version":"1.0", "error\_code":"0", "error\_info":"restore new cluster successfully", "status":"done", "attachment":  
{"cluster\_id":"3","cluster\_name":"cluster\_1651903646\_000002","shards":"1","comps":"1"} }

1. 控制实例，异步，需要查询

实例包括存储节点，或者计算节点  
包括停止(stop)/启动(start)/重启(restart)三个操作  
{ "version": "1.0", "job\_id":"", "job\_type": "control\_instance", "timestamp" : "1435749309", "user\_name":"kunlun\_test",  
"paras":{ "hostaddr":"127.0.0.1", "port":"57338", "control":"stop"} }

1. 更新prometheus数据，异步，需要查询

机器IP,从元数据表读取，PORT从配置文件读取  
{ "version": "1.0", "job\_id":"", "job\_type": "update\_prometheus", "timestamp" : "1435749309", "user\_name":"kunlun\_test", "paras": {} }

1. prometheus连接到pgsql

{ "version": "1.0", "job\_id":"", "job\_type": "postgres\_exporter", "timestamp" : "1435749309", "user\_name":"kunlun\_test",  
"paras":{ "hostaddr":"127.0.0.1", "port":"57338"} }

1. prometheus连接到mysql

{ "version": "1.0", "job\_id":"", "job\_type": "mysqld\_exporter", "timestamp" : "1435749309", "user\_name":"kunlun\_test",  
"paras":{ "hostaddr":"127.0.0.1", "port":"57338"} }