1. **Config** 
   * Description: Deploy Collectd and Fluentd config
   * Method: POST, GET

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| --- | --- |
| TITLE | Configure collectd and fluentd plugin and targets |
| URL | /api/config/ |
| METHOD | **POST** |
| URL PARAMS | -- |
| DATA PARAMS | {  "metrics": {  "enable":true,  "tags": [],  "plugins": [  {  "name": "string",  "config\_data":{}  }  ],  "targets": [  {  "type": "string",  "index": "string",  "host": "string",  "port": "string"  }  ]  },  "logging": {  "enable": true,  "tags": [],  "plugins": [  {  "name": "string",  "filter": []  },  {  "name": "string",  "filter": []  }  ],  "targets": [  {  "type": "string",  "index": "string",  "host": "string",  "port": "string"  }  ]  }  }  Example:  {  "metrics": {  "enable": true,  "tags": [],  "plugins": [  {  "name": "linux\_static"  },  {  "name": "wrong\_plugin name"  }  ],  "targets": [  {  "type": "elasticsearch",  "index": "testcollector",  "host": "127.0.0.1",  "port": "9200"  },  {  "type": "wrong targets",  "index": "testcollector",  "host": "127.0.0.1",  "port": "9200"  }    ]  },  "logging": {  "enable": true,  "tags": [],  "plugins": [  {  "name": "syslog",  "filter": [  "ALL"  ]  },  {  "name": "wrong logging plugin",  "filter": [  "ERROR"  ]  }  ],  "targets": [  {  "type": "wrong targets",  "index": "testlogger",  "host": "127.0.0.1",  "port": "9200"  }  ]  }  } |
| DATA PARAM DESCRIPTION |  |
| SUCCESS RESPONSE | Code: 200  Content**:**  {  "metrics": {  "targets": [  {  "status": "SUCCESS: targets configured",  "index": "string",  "host": "string",  "type": "string",  "port": "string"  }  ],  "plugins": {  "{plugin name}": [  {  "status": "SUCCESS: Plugin configured",  "interval": int,  "name": "string"  }  ]  }  },  "logging": {  "targets": [  {  "status": "SUCCESS: targets configured",  "index": "string",  "host": "string",  "type": "string",  "port": "string"  }  ],  "plugins": [  {  "filter": {},  "source": {},  "status": "SUCCESS: Plugin configured",  "name": "string",  "match": {}  }  }  ]  }  }  Response for example:  {  "metrics": {  "targets": [  {  "status": "SUCCESS: targets configured",  "index": "testcollector",  "host": "127.0.0.1",  "type": "elasticsearch",  "port": "9200"  },  {  "status": "FAILED: Unsupported metrics targets",  "index": "testcollector",  "host": "127.0.0.1",  "type": "wrong targets",  "port": "9200"  }  ],  "plugins": {  "wrong\_plugin name": [  {  "status": "FAILED: Unsupported metrics plugin",  "name": "wrong\_plugin name"  }  ],  "linux\_static": [  {  "status": "SUCCESS: Plugin configured",  "interval": 10,  "name": "cpu\_static"  }  ]  }  },  "logging": {  "targets": [  {  "status": "FAILED: Unsupported metrics targets",  "index": "testlogger",  "host": "127.0.0.1",  "type": "wrong targets",  "port": "9200"  }  ],  "plugins": [  {  "filter": {  "node": "#{Socket.gethostname}",  "time": "#{Time.now.to\_f}"  },  "source": {  "tag": [],  "log\_level": "debug",  "@type": "syslog",  "refresh\_interval": "2s"  },  "status": "SUCCESS: Plugin configured",  "name": "syslog",  "match": {  "flush\_interval": "120s",  "include\_tag\_key": true,  "tag": "\*\*"  }  },  {  "status": "FAILED: Unsupported logging Plugin",  "source": {  "tag": []  },  "name": "wrong logging plugin"  }  ]  }  } |
| SUCCESS RESPONSE DESCRIPTION | Get config response provide all posted plugin and targets configuration status key. |
| ERROR RESPONSE | Error 1:  {  "code": 400,  "message": "invalid config"  }  Error 2:  {  "code": 400,  "message": " Invalid metrics config "  }  Error 3:  {  "code": 400,  "message": " Invalid logging config "  }  Error 4:  {  "code": 400,  "message": " Data is not in Json format "  } |

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| TITLE | Get the deployed configuration of collectd and fluentd |
| URL | /api/config/ |
| METHOD | **GET** |
| URL PARAMS | -- |
| URL PARAM DESCRIPTION |  |
| DATA PARAMS | -- |
| SUCCESS RESPONSE | *Code: 200*  *Content****:***  {  "metrics": {  "targets": [  {  "index": "string",  "host": "string",  "type": "string",  "port": "string"  }  ],  "plugins": {  "{plugin name}": [  {  "interval": int,  "name": "string"  }  ]  }  },  "logging": {  "targets": [  {  "index": "string",  "host": "string",  "type": "string",  "port": "string"  }  ],  "plugins": [  {  "filter": {},  "source": {},  "name": "string",  "match": {}  }  }  ]  }  }  Response for example:  {  "metrics": {  "targets": [  {  "index": "testcollector",  "host": "127.0.0.1",  "type": "elasticsearch",  "port": "9200"  }  ],  "plugins": {  "linux\_static": [  {  "interval": 10,  "name": "cpu\_static"  }  ]  }  },  "logging": {  "targets": [],  "plugins": [  {  "filter": {  "node": "#{Socket.gethostname}",  "time": "#{Time.now.to\_f}"  },  "source": {  "tag": [],  "log\_level": "debug",  "@type": "syslog",  "refresh\_interval": "2s"  },  "name": "syslog",  "match": {  "flush\_interval": "120s",  "include\_tag\_key": true,  "tag": "\*\*"  }  }  ]  }  } |
| SUCCESS RESPONSE DESCRIPTION | Get config response provide only successfully configured collectd and fluentd plugin and targets details without status key. |
| ERROR RESPONSE | ERROR 1:  {  "code": 404,  "message": " URl not Found"  } |
| NOTE |  |

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| --- | --- |
| TITLE | Get the list of Supported plugins details |
| URL | /api/config/supported\_plugins |
| METHOD | **GET** |
| URL PARAMS | -- |
| URL PARAM DESCRIPTION |  |
| DATA PARAMS | -- |
| SUCCESS RESPONSE | *Code: 200*  *Content****:***  {  "metrics": [  "apache\_perf",  "java",  "libvirt\_static",  "linux\_static",  "linux\_dynamic",  "libvirt\_dynamic",  "mysql",  "apache\_trans"  ],  "logging": [  "syslog",  "apache\_access",  "default\_flush\_interval",  "mysql",  "apache\_error",  "mysql-slow",  "libvirt"  ]  } |
| SUCCESS RESPONSE DESCRIPTION |  |
| ERROR RESPONSE | ERROR 1:  {  "code": 404,  "message": " URl not Found"  } |
| NOTE |  |

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| --- | --- |
| TITLE | Get the list of Supported targets details |
| URL | /api/config/supported\_ targets |
| METHOD | **GET** |
| URL PARAMS | -- |
| URL PARAM DESCRIPTION |  |
| DATA PARAMS | -- |
| SUCCESS RESPONSE | *Code: 200*  *Content****:***  [“Elasticsearch”] |
| SUCCESS RESPONSE DESCRIPTION |  |
| ERROR RESPONSE |  |
| NOTE |  |

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| --- | --- |
| TITLE | Get the Collectd, Fluentd, Targets Params data. |
| URL | /api/config/params |
| METHOD | **GET** |
| URL PARAMS | -- |
| URL PARAM DESCRIPTION | * /api/config/params?logging\_plugins=mysql * /api/config/params?targets=elasticsearch * /api/config/params?metrics\_plugins=apache\_perf,linux\_static * /api/config/params?metrics\_plugins=apache\_perf; logging\_plugins=mysql;targets=elasticsearch |
| DATA PARAMS | -- |
| SUCCESS RESPONSE | *Code: 200*  *Content****:***  *{*  *"metrics": {*  *"plugins": [*  *{*  *"config\_data": {*  *"port": "port in which apache service is exposed on localhost",*  *"location": "location to get apache stats e.g. server\_status"*  *},*  *"name": "apache\_perf"*  *},*  *{*  *"config\_data": {*  *"process": "name of java process"*  *},*  *"name": "java"*  *},*  *{*  *"name": "libvirt\_static"*  *},*  *{*  *"name": "linux\_static"*  *},*  *{*  *"name": "linux\_dynamic"*  *},*  *{*  *"name": "libvirt\_dynamic"*  *},*  *{*  *"config\_data": {*  *"host": "MySql Host IP",*  *"password": "mysql password",*  *"user": "mysql username"*  *},*  *"name": "mysql"*  *},*  *{*  *"config\_data": {*  *"accesslog": "accessLog path for apache"*  *},*  *"name": "apache\_trans"*  *}*  *]*  *},*  *"logging": {*  *"plugins": [*  *{*  *"filter": [],*  *"name": "syslog"*  *},*  *{*  *"filter": [],*  *"name": "apache\_access"*  *},*  *{*  *"filter": [],*  *"name": "default\_flush\_interval"*  *},*  *{*  *"filter": [],*  *"name": "mysql"*  *},*  *{*  *"filter": [],*  *"name": "apache\_error"*  *},*  *{*  *"filter": [],*  *"name": "mysql-slow"*  *},*  *{*  *"filter": [],*  *"name": "libvirt"*  *}*  *]*  *},*  *"targets": [*  *{*  *"index": "Index required",*  *"host": "Host Ip required",*  *"type": "elasticsearch",*  *"port": "Port required "*  *}*  *]*  *}* |
| SUCCESS RESPONSE DESCRIPTION |  |
| ERROR RESPONSE | ERROR 1:  {  "code": 404,  "message": " URl not Found"  } |
| NOTE |  |

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| --- | --- |
| TITLE | Get the Collectd, Fluentd, Targets mapping data. |
| URL | /api/config/mapping |
| METHOD | **GET** |
| URL PARAMS | -- |
| URL PARAM DESCRIPTION |  |
| DATA PARAMS | -- |
| SUCCESS RESPONSE | *Code: 200*  *Content****:***  {  "metrics": {  "apache\_perf": [  {  "config\_data": {  "port": "port in which apache service is exposed on localhost",  "location": "location to get apache stats e.g. server\_status"  },  "interval": 300,  "name": "apache\_perf"  }  ],  "java": [  {  "config\_data": {  "process": "name of java process"  },  "interval": 300,  "name": "jvm\_stats"  }  ],  "libvirt\_static": [  {  "interval": 10,  "name": "libvirt\_static"  }  ],  "linux\_static": [  {  "interval": 10,  "name": "cpu\_static"  }  ],  "linux\_dynamic": [  {  "interval": 300,  "name": "disk\_stat"  },  {  "interval": 300,  "name": "ram\_util"  },  {  "interval": 10,  "name": "cpu\_util"  },  {  "interval": 300,  "name": "tcp\_stats"  },  {  "interval": 300,  "name": "nic\_stats"  }  ],  "libvirt\_dynamic": [  {  "interval": 10,  "name": "libvirt\_interface"  },  {  "interval": 10,  "name": "libvirt\_interface"  },  {  "interval": 10,  "name": "libvirt\_interface"  }  ],  "mysql": [  {  "config\_data": {  "host": "MySql Host IP",  "password": "mysql password",  "user": "mysql username"  },  "interval": 300,  "name": "mysql"  }  ],  "apache\_trans": [  {  "config\_data": {  "accesslog": "accessLog path for apache"  },  "interval": 100,  "name": "apache\_trans"  }  ]  },  "logging": {  "syslog": {  "filter": {  "node": "#{Socket.gethostname}",  "time": "#{Time.now.to\_f}"  },  "source": {  "@type": "syslog",  "refresh\_interval": "2s"  },  "match": {  "flush\_interval": "120s",  "include\_tag\_key": true,  "tag": "\*\*"  }  },  "apache\_access": {  "filter": {  "node": "#{Socket.gethostname}",  "file": "${tag\_suffix[1]}",  "time": "#{Time.now.to\_f}"  },  "source": {  "pos\_file": "/var/log/td-agent/apache\_access.pos",  "format": "apache2",  "path": "/var/log/apache2/access.log, /var/log/httpd/access\_log",  "read\_from\_head": true,  "@type": "tail",  "refresh\_interval": "2s"  },  "match": {  "flush\_interval": "120s"  }  },  "default\_flush\_interval": "120s",  "mysql": {  "filter": {  "node": "#{Socket.gethostname}",  "file": "${tag\_suffix[1]}",  "time": "#{Time.now.to\_f}"  },  "source": {  "pos\_file": "/var/log/td-agent/mysql.pos",  "format": "none",  "path": "/var/log/mysql.log, /var/log/mysql/mysql.log",  "read\_from\_head": true,  "@type": "tail",  "refresh\_interval": "2s"  },  "match": {  "flush\_interval": "120s"  }  },  "apache\_error": {  "filter": {  "node": "#{Socket.gethostname}",  "file": "${tag\_suffix[1]}",  "time": "#{Time.now.to\_f}"  },  "source": {  "pos\_file": "/var/log/td-agent/apache\_error.pos",  "format": "apache\_error",  "path": "/var/log/apache2/error.log, /var/log/httpd/error\_log",  "read\_from\_head": true,  "@type": "tail",  "refresh\_interval": "2s"  },  "match": {  "flush\_interval": "120s"  }  },  "mysql-slow": {  "filter": {  "node": "#{Socket.gethostname}",  "file": "${tag\_suffix[1]}",  "time": "#{Time.now.to\_f}"  },  "source": {  "format": "multiline",  "format\_firstline": "/^((. User)|(. Time))/",  "read\_from\_head": true,  "pos\_file": "/var/log/td-agent/mysql-slow.pos",  "format1": "/(?<message>.\*)/",  "path": "/var/log/mysql/mysql-slow.log",  "@type": "tail",  "refresh\_interval": "2s"  },  "match": {  "flush\_interval": "120s"  }  },  "libvirt": {  "filter": {  "node": "#{Socket.gethostname}",  "file": "${tag\_suffix[1]}",  "time": "#{Time.now.to\_f}"  },  "source": {  "path": "/var/log/libvirt/libvitd.log, /var/log/libvirt/\*/\*.log",  "read\_from\_head": true,  "pos\_file": "/var/log/td-agent/libvritd.pos",  "@type": "tail",  "refresh\_interval": "2s"  },  "match": {  "flush\_interval": "120s"  }  }  },  "targets": {  "elasticsearch": {  "index": "Index required",  "host": "Host Ip required",  "type": "elasticsearch",  "port": "Port required "  }  }  } |
| SUCCESS RESPONSE DESCRIPTION |  |
| ERROR RESPONSE | ERROR 1:  {  "code": 404,  "message": " URl not Found"  } |
| NOTE |  |

1. **Collectd Process**
   * Description: Enable Collectd service and get the service status
   * Method: POST, GET

|  |  |
| --- | --- |
| TITLE | Enable Collectd Process |
| URL | /api/collectd/process |
| METHOD | **POST** |
| URL PARAMS | -- |
| DATA PARAMS | {  "enable":true/false  } |
| DATA PARAM DESCRIPTION |  |
| SUCCESS RESPONSE | Code: 200  Content**:**  "RUNNING"/ "STOPPED" |
| SUCCESS RESPONSE DESCRIPTION |  |
| ERROR RESPONSE | ERROR 1:  {  "code": 404,  "message": " URl not Found"  }  ERROR 2:  {  "code": 404,  "message": " Data is not in json format "  }  ERROR 2:  {  "code": 404,  "message": " enable key Not Present"  } |

|  |  |
| --- | --- |
| TITLE | Get the Collectd version and process status |
| URL | /api/collectd/process |
| METHOD | **GET** |
| URL PARAMS | -- |
| URL PARAM DESCRIPTION |  |
| DATA PARAMS | -- |
| SUCCESS RESPONSE | *Code: 200*  *Content****:***  *{"version": "5.6.1", "collectd\_status": "* RUNNING *"}* |
| SUCCESS RESPONSE DESCRIPTION |  |
| ERROR RESPONSE | ERROR 1:  {  "code": 404,  "message": " URl not Found"  } |
| NOTE |  |

1. **Fluentd Process:**
   * Description: Enable Fluentd service and get the service status
   * Method: POST, GET

|  |  |
| --- | --- |
| TITLE | Enable Fluentd Process |
| URL | /api/ fluentd /process |
| METHOD | **POST** |
| URL PARAMS | -- |
| DATA PARAMS | {  "enable":true/false  } |
| DATA PARAM DESCRIPTION |  |
| SUCCESS RESPONSE | Code: 200  Content**:**  "RUNNING"/ "STOPPED" |
| SUCCESS RESPONSE DESCRIPTION |  |
| ERROR RESPONSE | ERROR 1:  {  "code": 404,  "message": " URl not Found"  }  ERROR 2:  {  "code": 404,  "message": " Data is not in json format "  }  ERROR 2:  {  "code": 404,  "message": " enable key Not Present"  } |

|  |  |
| --- | --- |
| TITLE | Get the fluentd version and process status |
| URL | /api/ fluentd /process |
| METHOD | **GET** |
| URL PARAMS | -- |
| URL PARAM DESCRIPTION |  |
| DATA PARAMS | -- |
| SUCCESS RESPONSE | *Code: 200*  *Content****:***  *{"version": "0.12.35", "fluentd\_status": "RUNNING"}* |
| SUCCESS RESPONSE DESCRIPTION |  |
| ERROR RESPONSE | ERROR 1:  {  "code": 404,  "message": " URl not Found"  } |
| NOTE |  |

1. **Collectd Stats:**
   * Description: Get the Collectd stats
   * Method: GET

|  |  |
| --- | --- |
| TITLE | Get the Collectd stats |
| URL | /api/collectd/stats |
| METHOD | **GET** |
| URL PARAMS | * /api/collectd/stats/linux\_dynamic * /api/collectd/stats/cpu\_static * /api/collectd/stats/nic\_stats?instances=eth0 |
| URL PARAM DESCRIPTION |  |
| DATA PARAMS | -- |
| SUCCESS RESPONSE | *Code: 200*  *Content****:***  [  {  "tcp\_stats": [  {  "readTcpWinHigh": 6144,  "readTcpWinLow": 4,  "plugin": "tcp\_stats",  "tcpRetrans": 49,  "writeTcpWinHigh": 4096,  "readTcpWinMedium": 85.33,  "time": 1495629293.823365,  "writeTcpWinMedium": 16,  "plugin\_instance": "all",  "writeTcpWinLow": 4,  "tcpReset": 12140  }  ],  "nic\_stats": [  {  "agg\_tx\_Pkts": 68776,  "plugin": "nic\_stats",  "agg\_rx\_Pkts": 142329,  "agg\_rx\_Drops": 0,  "agg\_tx\_Bytes": 6565930,  "time": 1495629293.861181,  "agg\_rx\_Bytes": 164832276,  "plugin\_instance": "aggregate",  "type": "aggregate",  "agg\_tx\_Drops": 0  },  {  "rx\_Bytes": 2342518,  "rx\_Pkts": 28399,  "plugin": "nic\_stats",  "ip": "127.0.0.1",  "tx\_Drops": 0,  "up": true,  "mtu": 65536,  "tx\_Bytes": 2342518,  "mac": "00:00:00:00:00:00",  "time": 1495629293.861181,  "tx\_Pkts": 28399,  "plugin\_instance": "lo",  "type": "virtual",  "rx\_Drops": 0,  "speed": 0  },  {  "rx\_Bytes": 0,  "rx\_Pkts": 0,  "plugin": "nic\_stats",  "ip": "172.17.42.1",  "tx\_Drops": 0,  "up": true,  "mtu": 1500,  "tx\_Bytes": 0,  "mac": "56:84:7a:fe:97:99",  "time": 1495629293.861181,  "tx\_Pkts": 0,  "plugin\_instance": "docker0",  "type": "virtual",  "rx\_Drops": 0,  "speed": 0  },  {  "rx\_Bytes": 164832276,  "rx\_Pkts": 142329,  "plugin": "nic\_stats",  "ip": "10.0.2.15",  "tx\_Drops": 0,  "up": true,  "mtu": 1500,  "tx\_Bytes": 6565930,  "mac": "08:00:27:b1:50:cc",  "time": 1495629293.861181,  "tx\_Pkts": 68776,  "plugin\_instance": "eth0",  "type": "physical",  "rx\_Drops": 0,  "speed": 0.12  }  ],  "cpu\_static": [  {  "numSockets": 1,  "numLogicalCpu": 2,  "numCores": 2,  "plugin": "cpu\_static",  "clock": 2494.26,  "HT": "off",  "time": 1495629303.814701,  "CPUType": "Intel(R) Core(TM) i5-4300U CPU @ 1.90GHz",  "plugin\_instance": "all"  }  ],  "cpu\_util": [  {  "numLowActive": 0,  "plugin": "cpu\_util",  "numHighActive": 1,  "Cpu2": 36.3,  "CPUUtil": 59.8,  "Cpu1": 84,  "time": 1495629303.812862,  "plugin\_instance": "all",  "numMedActive": 1  }  ],  "ram\_util": [  {  "available": 1.47,  "plugin\_instance": "all",  "RAMUtil": 61.9,  "time": 1495629293.815167,  "plugin": "ram\_util"  }  ],  "disk\_stat": [  {  "plugin": "disk\_stat",  "agg\_usage": 15.51,  "time": 1495629293.971666,  "plugin\_instance": "aggregate",  "type": "aggregate",  "agg\_capacity": 204.52  },  {  "capacity": 0,  "plugin": "disk\_stat",  "mount": [],  "time": 1495629293.971666,  "plugin\_instance": "sda2",  "type": "part"  },  {  "capacity": 204.52,  "plugin": "disk\_stat",  "mount": [],  "time": 1495629293.971666,  "plugin\_instance": "sda",  "type": "disk"  },  {  "capacity": 200.52,  "plugin": "disk\_stat",  "mount": "/",  "time": 1495629293.971666,  "plugin\_instance": "sda1",  "type": "part"  }  ]  }  ] |
| SUCCESS RESPONSE DESCRIPTION |  |
| ERROR RESPONSE | ERROR 1:  {  "code": 404,  "message": " URl not Found"  } |
| NOTE |  |