

Using Agent Debug Command [Tech Preview]

Date published: 2019-04-15

Date modified: 2022-01-24

The Cloudera logo is displayed in a bold, orange, sans-serif font. The word "CLOUDERA" is written in all caps, with a stylized 'E' that has a horizontal bar extending to the right.

Legal Notice

© Cloudera Inc. 2024. All rights reserved.

The documentation is and contains Cloudera proprietary information protected by copyright and other intellectual property rights. No license under copyright or any other intellectual property right is granted herein.

Unless otherwise noted, scripts and sample code are licensed under the Apache License, Version 2.0.

Copyright information for Cloudera software may be found within the documentation accompanying each component in a particular release.

Cloudera software includes software from various open source or other third party projects, and may be released under the Apache Software License 2.0 (“ASLv2”), the Affero General Public License version 3 (AGPLv3), or other license terms. Other software included may be released under the terms of alternative open source licenses. Please review the license and notice files accompanying the software for additional licensing information.

Please visit the Cloudera software product page for more information on Cloudera software. For more information on Cloudera support services, please visit either the Support or Sales page. Feel free to contact us directly to discuss your specific needs.

Cloudera reserves the right to change any products at any time, and without notice. Cloudera assumes no responsibility nor liability arising from the use of products, except as expressly agreed to in writing by Cloudera.

Cloudera, Cloudera Altus, HUE, Impala, Cloudera Impala, and other Cloudera marks are registered or unregistered trademarks in the United States and other countries. All other trademarks are the property of their respective owners.

Disclaimer: EXCEPT AS EXPRESSLY PROVIDED IN A WRITTEN AGREEMENT WITH CLOUDERA, CLOUDERA DOES NOT MAKE NOR GIVE ANY REPRESENTATION, WARRANTY, NOR COVENANT OF ANY KIND, WHETHER EXPRESS OR IMPLIED, IN CONNECTION WITH CLOUDERA TECHNOLOGY OR RELATED SUPPORT PROVIDED IN CONNECTION THEREWITH. CLOUDERA DOES NOT WARRANT THAT CLOUDERA PRODUCTS NOR SOFTWARE WILL OPERATE UNINTERRUPTED NOR THAT IT WILL BE FREE FROM DEFECTS NOR ERRORS, THAT IT WILL PROTECT YOUR DATA FROM LOSS, CORRUPTION NOR UNAVAILABILITY, NOR THAT IT WILL MEET ALL OF CUSTOMER’S BUSINESS REQUIREMENTS. WITHOUT LIMITING THE FOREGOING, AND TO THE MAXIMUM EXTENT PERMITTED BY APPLICABLE LAW, CLOUDERA EXPRESSLY DISCLAIMS ANY AND ALL IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO IMPLIED WARRANTIES OF MERCHANTABILITY, QUALITY, NON-INFRINGEMENT, TITLE, AND FITNESS FOR A PARTICULAR PURPOSE AND ANY REPRESENTATION, WARRANTY, OR COVENANT BASED ON COURSE OF DEALING OR USAGE IN TRADE.

Contents

Using agent debug command.....	4
---------------------------------------	----------

Using agent debug command

Learn how to use the debug command functionality which allows you to collect debug information from given agents utilising the C2 protocol.

About this task



Note: The feature is not exposed to the frontend yet, so you need to use the Swagger API, CURL, or sending a request directly from your browser to the Debug operation endpoint.

The content of the bundle is not configurable at this point. Edge Flow Manager (EFM) returns the last available compressed log content along with agent and flow configuration.

Before you begin

You must have administrator privileges to request or download the debug logs.

Procedure

1. Execute the following command to initiate the operation to the agent:

```
<efmHost:port>/efm/api/operations/debug/<agentId>
```

- This operation command initiates the debug request within the next heartbeat to the given agent.
- When the agent receives it in the next heartbeat, it starts to upload the files to the EFM server.
- In the response, you receive an URI, which you can use for retrieving the bundles. Example response:

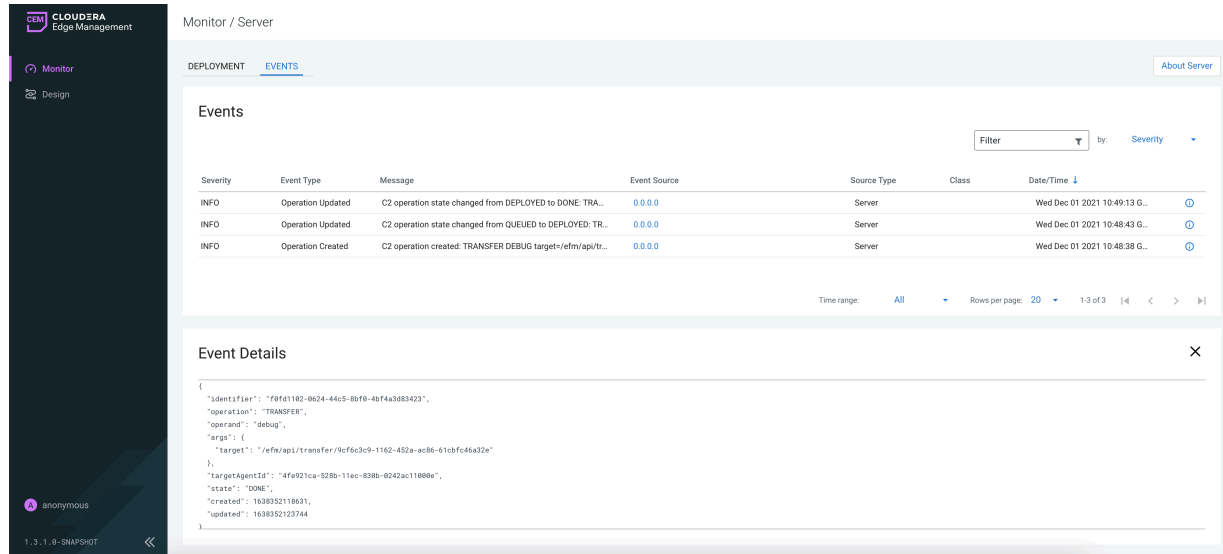
```
{
  "uri": "https://localhost/efm/api/transfer/472a0346-4b6b-11ec-9a48-0
242ac11000c",
  "operation": {
    "identifier": "1e261f63-6141-4792-bac7-0739cecd805",
    "operation": "TRANSFER",
    "operand": "debug",
    "args": {
      "target": "/efm/api/transfer/472a0346-4b6b-11ec-9a48-0242ac11000c"
    },
    "targetAgentId": "472a0346-4b6b-11ec-9a48-0242ac11000c",
    "state": "QUEUED",
    "created": 1637579394449,
    "updated": 1637579394449
  }
}
```

- You need to wait at least for the same amount of time as the heartbeat interval plus a little buffer for upload time, before you try the URI.

After the command is deployed, the agent starts uploading the collected logs to the C2 server.

- You can try the URL received from the previous step to download the logs.

You can also follow the progress in the **Monitor Events** tab of the CEM UI. When the operation state is **DONE**, it means that you can try the download URI to get the log file.



The screenshot shows the Cloudera Edge Management (CEM) UI. The left sidebar contains navigation options: Monitor (selected) and Design. The main content area is titled "Monitor / Server" and has tabs for "DEPLOYMENT" and "EVENTS". The "EVENTS" tab is active, displaying a table of events. The table has columns for Severity, Event Type, Message, Event Source, Source Type, Class, and Date/Time. Below the table, there is an "Event Details" panel showing a JSON object with the following structure:

```

{
  "identifier": "f0f61182-0624-44c5-80f0-4b14a3083423",
  "operation": "TRANSFER",
  "operationid": "debug",
  "target": {
    "target": "efm/api/transfer/9cf6c0c9-1162-452a-ac86-61cbfc66a32e"
  },
  "targetAgentId": "4fe921ca-528b-11ec-839b-0242ac11800e",
  "state": "DONE",
  "created": 1638352118631,
  "updated": 1638352123744
}

```

- Optional. You can control the maximum uploadable file size by changing the `efm.data.transfer.maxFileSize` parameter.

The default value of the parameter is 16 MB which is the maximum value supported by the current storage implementation.



Note:

- This feature is in technical preview and might change in future releases of the application without backwards compatibility and without a major version change.
- The Debug operation is supported only for CPP agents from a minimum version of 1.22.01.