

## Setting up Application Logging

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## Setting up application logging

Learn about application logging in Cloudera Edge Management (CEM) by learning supported logging output, log types, log retention policies, and logging configurations.

Application logging enables you to save application events. With this functionality, you can analyze the application behavior and errors. Entries in log files contain essential information, including a timestamp, contextual information, and messages.

### Logging output

You can configure the location for logging output through the `logging.efm.location` property in the `efm.properties` file. You can add one or more outputs separated by comma. EFM supports the following destinations for logging output:

- Console output  
Application logs go to the standard output.
- File output  
Application logs go to the defined file.

The default is to log the output to both file and console.

### Log types

The log files are created under the `logs` directory in your EFM home library. You can change it through the `logging.file.path` property in the `efm.properties` file. EFM supports the following log types:

- Application logs  
The file name for storing application logs is `efm-app.log` which is configurable through the `logging.file.name` property in the `efm.properties` file. The file tracks INFO level log lines by default. You can change it through the `logging.level.com.cloudera.cem.efm` property in the `efm.properties` file.
- Access logs  
The file name for storing access logs is `efm-access-{date}.log`. The file tracks incoming requests to EFM.

### Log retention policy

The default log retention policy is 30 days in EFM. You can configure it through the `logging.logback.rollingpolicy.maxHistory` property in the `efm.properties` file.

The application logs are rolled by days and file size. You can configure it through the `logging.logback.rollingpolicy.maxFileSize` property in the `efm.properties` file.

If you want to configure the overall application log size, you can do it as well by setting the `logging.logback.rollingpolicy.totalSizeCap` property in the `efm.properties` file. The default setting is unlimited.

### Logging configuration

The following list presents the overall logging configuration properties in CEM:

- `logging.file.path`  
Sets destination directory for application and access log files. Default is `logs`.
- `logging.file.name`  
Sets file name of the application logs. Default is `efm-app.log`.
- `logging.efm.location`  
Sets destination of the logs (comma separated values). Default is `CONSOLE,FILE`.

- `logging.logback.rollingpolicy.maxFileSize`  
Sets maximum file size of the logs. Default is 10MB. The log file is rolled if it reaches that size.
- `logging.logback.rollingpolicy.maxHistory`  
Sets the number of days you want to keep the log files for. Default is 30 days.
- `logging.logback.rollingpolicy.totalSizeCap`  
Optional property. Sets the total size of the log files. By default, EFM keeps all log files for the specified days defined in the `logging.logback.rollingpolicy.maxHistory` property.
- `logging.level.com.cloudera.cem.efm`  
Sets the log level severity. By default, the log file contains INFO, WARN, and ERROR logs only. For debugging, you can enable the DEBUG or TRACE level. Possible values for this property are: TRACE, DEBUG, INFO, WARN, ERROR.