

Updating Log4j from 2.13 to 2.15.0

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EnginFrame versions from 2019.0-r1424 ship with Apache Log4j 2.13. To update to Log4j 2.15.0 please follow these instructions:

- Identify the EF_TOP and EF_ROOT folder of your EnginFrame installation. See also <https://docs.aws.amazon.com/enginframe/latest/ag/planning-deployment.html#installation-paths> (<https://docs.aws.amazon.com/enginframe/latest/ag/planning-deployment.html#installation-paths>).

- Identify the following log4j files with:

```
find "$EF_TOP" -name log4j*.jar
```

Generic

The following files should be returned:

- <EF_ROOT>/agent/log4j-core-2.13.*.jar
 - <EF_ROOT>/agent/log4j-api-2.13.*.jar
 - <EF_ROOT>/agent/log4j-1.2-api-2.13.*.jar
 - <EF_ROOT>/WEBAPP/WEB-INF/lib/log4j-core-2.13.*.jar
 - <EF_ROOT>/WEBAPP/WEB-INF/lib/log4j-api-2.13.*.jar
 - <EF_ROOT>/WEBAPP/WEB-INF/lib/log4j-1.2-api-2.13.*.jar
- Stop EnginFrame with "EF_TOP/bin/enginframe stop". See also <https://docs.aws.amazon.com/enginframe/latest/ag/running.html> (<https://docs.aws.amazon.com/enginframe/latest/ag/running.html>).
 - Backup the log4j old files moving them to a backup directory of your choice with:

```
EF_ROOT=...
```

```
BACKUP_AGENT_DIR=/tmp/backup/agent
```

```
BACKUP_SERVER_DIR=/tmp/backup/server
```

```
mkdir -p $BACKUP_AGENT_DIR
```

```
mkdir -p $BACKUP_SERVER_DIR
```

```
mv $EF_ROOT/agent/log4j-core-2.13.*.jar $BACKUP_AGENT_DIR
```

```
mv $EF_ROOT/agent/log4j-api-2.13.*.jar $BACKUP_AGENT_DIR
```

```
mv $EF_ROOT/agent/log4j-1.2-api-2.13.*.jar $BACKUP_AGENT_DIR
```

```
mv $EF_ROOT/WEBAPP/WEB-INF/lib/log4j-core-2.13.*.jar $BACKUP_SERVER_DIR
```

```
mv $EF_ROOT/WEBAPP/WEB-INF/lib/log4j-api-2.13.*.jar $BACKUP_SERVER_DIR
```

```
mv $EF_ROOT/WEBAPP/WEB-INF/lib/log4j-1.2-api-2.13.*.jar $BACKUP_SERVER_DIR
```

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- Download and expand the apache-log4j-2.15.0-bin.tar.gz package from <https://logging.apache.org/log4j/2.x/download.html> (<https://logging.apache.org/log4j/2.x/download.html>). It is

essential that you verify the integrity of the downloaded files using the PGP and SHA512 signatures, as suggested by the download page of Apache Log4j 2.

- Copy the following jar files from the downloaded package to the EnginFrame folder:

- DOWNLOADED=apache-log4j-2.15.0-bin

```
cp $DOWNLOADED/log4j-core-2.15.0.jar $EF_ROOT/agent/  
cp $DOWNLOADED/log4j-api-2.15.0.jar $EF_ROOT/agent/  
cp $DOWNLOADED/log4j-1.2-api-2.15.0.jar $EF_ROOT/agent/  
cp $DOWNLOADED/log4j-core-2.15.0.jar $EF_ROOT/WEBAPP/WEB-INF/lib/  
cp $DOWNLOADED/log4j-api-2.15.0.jar $EF_ROOT/WEBAPP/WEB-INF/lib/  
cp $DOWNLOADED/log4j-1.2-api-2.15.0.jar $EF_ROOT/WEBAPP/WEB-INF/lib/
```

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- Start EnginFrame with "EF_TOP/bin/enginframe start". See also <https://docs.aws.amazon.com/enginframe/latest/ag/running.html> (<https://docs.aws.amazon.com/enginframe/latest/ag/running.html>).