

# Forcepoint Behavioral Analytics

## UPGRADE GUIDE FOR HOTFIXES (3.3.1.3 & 3.4.1.2)

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# Upgrade Guide for Forcepoint Behavioral Analytics Hotfixes (3.3.1.3 & 3.4.1.2)

Prior to moving to step 2, the Log4j vulnerability mitigation steps need to be executed on the environment.

These steps can be found [here](#).

Download the hotfix file package for the version of the environment that is being patched. The package consists of the FBA service jar files that have been upgraded with the Log4j v2.17.1 package:

- [FBA 3.3.1: Forcepoint Behavioral Analytics 3.3.1.3 Hotfix](#)
- [FBA 3.4.1: Forcepoint Behavioral Analytics 3.4.1.2 Hotfix](#)

**The hotfix download package consists of the following files:**

- Jenkins Service:
  - ro-schema.jar
  - minigator.jar
  - ro-pst-parser.jar
- Public API Service: ro-api.jar
- Content Service: ro-content.jar
- Conversion Service: ro-conv.jar
- Queue Worker Service: ro-qw.jar
- Rose Service: ro-rose.jar
- Master Data Service: ro-mds.jar

**Default location of jar files on each server:**

- API server: /usr/lib/java/ro-api/ro-api.jar
- Content server: /usr/lib/java/ro-content/ro-content.jar
- Conversion server: /usr/lib/java/ro-conv/ro-conv.jar
- Jenkins server:
  - /usr/lib/java/ro-schema/ro-schema.jar
  - minigator and pst-parser are not installed by default.
- QW server: /usr/lib/java/ro-qw/ro-qw.jar
- Rose server: /usr/lib/java/ro-rose/ro-rose.jar
- MDS server: /usr/lib/java/ro-mds/ro-mds.jar
- MDSlytics server: /usr/lib/java/ro-mds/ro-mds.jar

**All steps below are performed on various FBA java services**

1. Copy the service jar file to its respective hosts via scp or other means. For instance, the `ro-mds.jar` file should be copied to the MDS and MDSLytics hosts.

```
#scp example
scp ro-mds.jar user@mds-yourenvironment:/home/user/ro-mds.jar
scp ro-mds.jar user@mdslytics-yourenvironment:/home/user/ro-mds.jar
```

2. Stop the respective host services. For instance, stopping the MDS service on both on the MDS and MDSLytics hosts.

```
#example
ssh -l user mds-yourenvironment
sudo service ro-mds stop
ssh -l user mdslytics-yourenvironment
sudo service ro-mds stop
```

3. Rename the original service jar files as a backup.

```
#example
cd /usr/lib/java/ro-mds
sudo mv ro-mds.jar ro-mds.original
```

4. Move the new jar file into the appropriate file location.

```
#example
sudo mv /home/user/ro-mds.jar /usr/lib/java/ro-mds/ro-mds.jar
```

5. Start the service being upgraded.

```
#example
sudo systemctl start ro-mds
```

6. Repeat steps 3 through 7 for the 7 FBA services listed above
7. Ensure the fix is working as expected.
8. If a rollback is required, perform the following steps on each of the patched service hosts:
  - a. Stop the service such as `sudo systemctl ro-mds stop`
  - b. Rename the existing service jar file by replacing the word jar with `***xyz patch version***hotfix`.

```
Example:
sudo mv ro-mds.jar ro-mds.3313hotfix
```

- c. Rename backup jar file by replacing the word original in file name to jar.

```
Example:
sudo mv ro-mds.original ro-mds.jar
```

- d. Start the service.

**Example:**  
`sudo systemctl ro-mds start`

- e. Ensure the product is working as expected.