Forcepoint Behavioral Analytics

3.3.1.4 UPGRADE GUIDE

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Document Conventions

The following typographic conventions are used in this guide:

Typography

Format	Description
Bold font	Used to identify Graphical User Interface (GUI) elements, buttons, fields, and list labels.
	Example: Type your IP address in the ip address field and click OK .
Italic font	Used to identify book titles or words that require emphasis.
	Example: Read the <i>User's Guide</i> .
Monospaced font	Used to identify names of commands, files, and directories.
	Example: Use the ls -a command to list all files.
Monospaced bold font	When inline, this is used to identify text that users need to type.
	Example: Type systeмнigh in the Network field.
Shaded monospaced font	Used to identify screen output.
	Example: A network device must exist; otherwise, the following warning message displays
	Warning: device [DEVICE] is not a valid network device
Shaded monospaced bold font	Used to identify text that users need to type.
	Example: Specify your network configuration. Type:
	\$ sudo ip addr show

This guide makes use of the following elements:



Note

Contains important information, suggestions or references to material covered elsewhere in the guide.



Пр

Provides helpful suggestions or alternative methods to perform a task.



Warning

Alerts you to an activity that may cause permanent loss of data or product functionality. Failure to heed a warning could result in permanent consequences to your data or system.



Caution

Alerts you to anything that could result in a security breach or temporary loss of data or product functionality. You may also see a caution when a particular action may have an adverse impact that is not readily apparent.



Important

Highlights critical tasks, information or actions that may be damaging to your system or security.

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Forcepoint Behavioral Analytics 3.3.1.4 Upgrade Guide

This Forcepoint Behavioral Analytics (FBA) Upgrade manual will guide technical FBA users through a complete upgrade from version 3.3.1.x to the latest version 3.3.1.4 of the FBA system. This guide includes instructions for an automated upgrade and instructions for a manual upgrade that will result in a fully functional 3.3.1.4 system when complete.

AUTOMATED INSTALLATION INSTRUCTIONS

1. Download the hotfix file package from the Forcepoint Downloads page:

FBA 3.3.1: Forcepoint Behavioral Analytics Hotfix

2. Upload the Patch . tar file to the Jenkins host:

```
scp fba-hotfix-3314.tar [Jenkins-server]:/tmp/
```

3. Log in to the Jenkins host with the standard login used to run Ansible® and extract the patch files:



Tip

Replace <centos>in the example below, with the standard ID in instructions

```
ssh <centos>@[Jenkins-server]
sudo tar -xvf /tmp/fba-hotfix-3314.tar -C /data/html/
```

4. Run the Ansible playbook:

```
cd /data/html/3314upgrade/ansible
ansible-playbook FBA-Patch-Installer.yml -i /etc/ansible/hosts

curl -k -u elastic:changeme -XPUT "https://<ES1-SERVER>:9200/_
cluster/settings" -d'{"transient":
{"cluster.routing.allocation.enable": "all"}}'
```



Tip

If authentication errors occur, ensure that the logged in user is the Centos™ user. If the errors continue, disable host key checking:



vim /etc/ansible/ansible.cfg
HOST_KEY_CHECKING = False

5. Patch the Minigator:

Because the host location of the Minigator can be determined per individual installation, the steps can not be specific. A summary of the patch actions are as follows:



Tip

Patching the Minigator tool is only required if it has been deployed.

a. Copy the Minigator . rpm file from the Jenkins host to the server where the Minigator component is hosted:

/data/html/3314upgrade/ansible/files/rpm/minigator-1.98.11.el7.x86_64.rpm

- b. Remove the old Minigator .jar file.
- c. Install the new Minigator . rpm file:

```
sudo rpm -Uvh minigator-1.98.1-1.e17.x86_64.rpm
```



Important

Any custom UI changes must be applied manually. Forcepoint will not persist those changes to the new version.

6. Remove backup files that were created during install to ensure that all files with the old versions of Log4j[™] library code are removed. The following locations will have backup files:

API server: /usr/lib/java/ro-api/ro-api.jar.pre3314

Content server: /usr/lib/java/ro-content/ro-content.jar.jar.pre3314

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Conversion server: /usr/lib/java/ro-conv/ro-conv.jar.jar.pre3314

Jenkins server: /usr/lib/java/ro-schema/ro-schema.jar.jar.pre3314

Nifi server: /usr/share/java/ro-ingest-utils/ro-ingest-

utils.jar.jar.pre3314

QW server: /usr/lib/java/ro-qw/ro-qw.jar.jar.pre3314

Rose server: /usr/lib/java/ro-rose/ro-rose.jar.jar.pre3314
MDS server: /usr/lib/java/ro-mds/ro-mds.jar.jar.pre3314

MDSlytics server: /usr/lib/java/ro-mds/ro-mds.jar.jar.pre3314

Ulserver: /data/3314-backup-previous/ro-ui.backup.tar

MANUAL INSTALLATION INSTRUCTIONS

1. Download the hotfix file package from the Forcepoint Downloads page:

FBA 3.3.1: Forcepoint Behavioral Analytics Hotfix

2. Upload the Patch . tar file to the Jenkins host:

```
scp [-i ~/.ssh/my.pem] fba-hotfix-3314.tar [Jenkins-
server]:/tmp/
```

3. Log into the Jenkins host with the standard login used to run Ansible, and extract the patch files:



Note

Replace <centos> with the standard ID in instructions.

```
ssh [-i ~/.ssh/my.pem] <centos>@[Jenkins-server]
sudo tar -xvf /tmp/fba-hotfix-3314.tar -C /data/html/
```

4. Copy the .tar ball from the Jenkins server to the ElasticService™, Monitoring and Kafka® instances:



Tip 💮

The value in [server] should be replaced with the names of the ElasticSearch, Monitoring and Kafka instances.

```
From the Jenkins server, copy the tar ball to the ES,
Monitoring and Kafka instances:
scp [-i ~/.ssh/my.pem] /tmp/fba-hotfix-3314.tar [server]:/tmp/
ssh [-i ~/.ssh/my.pem] <centos>@[server] tar -xvf /tmp/fba-hotfix-3314.tar -C /tmp/
```

5. Shut down the necessary services on each server environment associated with ElasticSearch and Monitoring to allow for the log4j updates to Elastic Search:

```
sudo systemctl status [server]_elasticsearch.service
sudo systemctl stop [server]_elasticsearch.service
sudo systemctl status [server]_elasticsearch.service
sudo rm /usr/share/elasticsearch/lib/log4j-*
sudo cp /tmp/3314upgrade/ansible/files/jar/log4j-api-
```

```
2.18.0.jar /usr/share/elasticsearch/lib/

sudo cp /tmp/3314upgrade/ansible/files/jar/log4j-1.2-api-

2.18.0.jar /usr/share/elasticsearch/lib/

sudo cp /tmp/3314upgrade/ansible/files/jar/log4j-core-

2.18.0.jar /usr/share/elasticsearch/lib/

sudo chown root:root /usr/share/elasticsearch/lib/log4j-*

sudo chmod 644 /usr/share/elasticsearch/lib/log4j-*
```

6. Shut down the necessary services on each server environment associated with Elastic Search and Monitoring to allow for the log4j updates to LogStash:

```
sudo systemctl status logstash.service
sudo systemctl stop logstash.service
sudo systemctl status logstash.service
sudo rm /usr/share/logstash/logstash-
core/lib/org/apache/logging/log4j/log4j-api/2.6.2/log4j-api-
2.6.2.jar
sudo rmdir /usr/share/logstash/logstash-
core/lib/org/apache/logging/log4j/log4j-api/2.6.2
sudo mkdir /usr/share/logstash/logstash-
core/lib/org/apache/logging/log4j/log4j-api/2.18.0
sudo cp /tmp/3314upgrade/ansible/files/jar/log4j-api-
2.18.0.jar /usr/share/logstash/logstash-
core/lib/org/apache/logging/log4j/log4j-api/2.18.0/ sudo chown
-R logstash:logstash /usr/share/logstash/logstash-
core/lib/org/apache/logging/log4j/log4j-api/2.18.0/
sudo chmod 755 /usr/share/logstash/logstash-
core/lib/org/apache/logging/log4j/log4j-api/2.18.0/
sudo chmod 664 /usr/share/logstash/logstash-
core/lib/org/apache/logging/log4j/log4j-api/2.18.0/log4j-api-
2.18.0.jar
sudo rm /usr/share/logstash/logstash-
core/lib/org/apache/logging/log4j/log4j-core/2.6.2/log4j-core-
2.6.2.jar
sudo rmdir /usr/share/logstash/logstash-
core/lib/org/apache/logging/log4j/log4j-core/2.6.2
sudo mkdir /usr/share/logstash/logstash-
core/lib/org/apache/logging/log4j/log4j-core/2.18.0
sudo cp /tmp/3314upgrade/ansible/files/jar/log4j-core-
2.18.0.jar /usr/share/logstash/logstash-
```

```
core/lib/org/apache/logging/log4j/log4j-core/2.18.0/
sudo chown -R logstash:logstash /usr/share/logstash/logstash-
core/lib/org/apache/logging/log4j/log4j-core/2.18.0/
sudo chmod 755 /usr/share/logstash/logstash-
core/lib/org/apache/logging/log4j-log4j-core/2.18.0/
sudo chmod 664 /usr/share/logstash/logstash-
core/lib/org/apache/logging/log4j/log4j-core/2.18.0/log4j-
core-2.18.0.jar
sudo rm /usr/share/logstash/logstash-
core/lib/org/apache/logging/log4j/log4j-slf4j-
impl/2.6.2/log4j-slf4j-impl-2.6.2.jar
sudo rmdir /usr/share/logstash/logstash-
core/lib/org/apache/logging/log4j/log4j-slf4j-imp1/2.6.2
sudo mkdir /usr/share/logstash/logstash-
core/lib/org/apache/logging/log4j/log4j-slf4j-impl/2.18.0
sudo cp /tmp/3314upgrade/ansible/files/jar/log4j-slf4j-impl-
2.18.0.jar /usr/share/logstash/logstash-
core/lib/org/apache/logging/log4j/log4j-slf4j-impl/2.18.0/
sudo chown -R logstash:logstash /usr/share/logstash/logstash-
core/lib/org/apache/logging/log4j/log4j-slf4j-impl/2.18.0/
sudo chmod 755 /usr/share/logstash/logstash-
core/lib/org/apache/logging/log4j/log4j-slf4j-impl/2.18.0/
sudo chmod 664 /usr/share/logstash/logstash-
core/lib/org/apache/logging/log4j/log4j-slf4j-
impl/2.18.0/log4j-slf4j-impl-2.18.0.jar
sudo rm
/usr/share/logstash/vendor/bundle/jruby/1.9/gems/logstash-
input-log4j-3.1.3-java/vendor/jar-dependencies/runtime-
jars/log4j-1.2.17.jar
sudo cp /tmp/3314upgrade/ansible/files/jar/log4j-1.2-api-
2.18.0.jar
/usr/share/logstash/vendor/bundle/jruby/1.9/gems/logstash-
input-log4j-3.1.3-java/vendor/jar-dependencies/runtime-jars/
sudo cp /tmp/3314upgrade/ansible/files/jar/log4j-api-
2.18.0.jar
/usr/share/logstash/vendor/bundle/jruby/1.9/gems/logstash-
input-log4j-3.1.3-java/vendor/jar-dependencies/runtime-jars/
sudo cp /tmp/3314upgrade/ansible/files/jar/log4j-core-
2.18.0.jar
```

```
/usr/share/logstash/vendor/bundle/jruby/1.9/gems/logstash-
input-log4j-3.1.3-java/vendor/jar-dependencies/runtime-jars/
sudo chown logstash:logstash
/usr/share/logstash/vendor/bundle/jruby/1.9/gems/logstash-
input-log4j-3.1.3-java/vendor/jar-dependencies/runtime-
jars/log4j-1.2-api-2.18.0.jar
sudo chown logstash:logstash
/usr/share/logstash/vendor/bundle/jruby/1.9/gems/logstash-
input-log4j-3.1.3-java/vendor/jar-dependencies/runtime-
jars/log4j-api-2.18.0.jar
sudo chown logstash:logstash
/usr/share/logstash/vendor/bundle/jruby/1.9/gems/logstash-
input-log4j-3.1.3-java/vendor/jar-dependencies/runtime-
jars/log4j-core-2.18.0.jar
sudo chmod 644
/usr/share/logstash/vendor/bundle/jruby/1.9/gems/logstash-
input-log4j-3.1.3-java/vendor/jar-dependencies/runtime-
jars/log4j-*
sudo rm
/usr/share/logstash/vendor/bundle/jruby/1.9/gems/logstash-
output-kafka-5.1.11/vendor/jar-dependencies/runtime-
jars/log4j-1.2.17.jar
sudo cp /tmp/3314upgrade/ansible/files/jar/log4j-1.2-api-
2.18.0.jar
/usr/share/logstash/vendor/bundle/jruby/1.9/gems/logstash-
output-kafka-5.1.11/vendor/jar-dependencies/runtime-jars/
sudo cp /tmp/3314upgrade/ansible/files/jar/log4j-api-
2.18.0.jar
/usr/share/logstash/vendor/bundle/jruby/1.9/gems/logstash-
output-kafka-5.1.11/vendor/jar-dependencies/runtime-jars/
sudo cp /tmp/3314upgrade/ansible/files/jar/log4j-core-
2.18.0.jar
/usr/share/logstash/vendor/bundle/jruby/1.9/gems/logstash-
output-kafka-5.1.11/vendor/jar-dependencies/runtime-jars/
sudo chown logstash:logstash
/usr/share/logstash/vendor/bundle/jruby/1.9/gems/logstash-
output-kafka-5.1.11/vendor/jar-dependencies/runtime-
jars/log4j-1.2-api-2.18.0.jar
sudo chown logstash:logstash
/usr/share/logstash/vendor/bundle/jruby/1.9/gems/logstash-
```

```
output-kafka-5.1.11/vendor/jar-dependencies/runtime-
jars/log4j-api-2.18.0.jar
sudo chown logstash:logstash
/usr/share/logstash/vendor/bundle/jruby/1.9/gems/logstash-
output-kafka-5.1.11/vendor/jar-dependencies/runtime-
jars/log4j-core-2.18.0.jar
sudo chmod 644
/usr/share/logstash/vendor/bundle/jruby/1.9/gems/logstash-
output-kafka-5.1.11/vendor/jar-dependencies/runtime-
jars/log4j-*
sudo rm
/usr/share/logstash/vendor/bundle/jruby/1.9/gems/logstash-
input-beats-3.1.32-java/vendor/jar-
dependencies/org/apache/logging/log4j/log4j-api/2.6.2/log4j-
api-2.6.2.jar
sudo rmdir
/usr/share/logstash/vendor/bundle/jruby/1.9/gems/logstash-
input-beats-3.1.32-java/vendor/jar-
dependencies/org/apache/logging/log4j/log4j-api/2.6.2
sudo mkdir
/usr/share/logstash/vendor/bundle/jruby/1.9/gems/logstash-
input-beats-3.1.32-java/vendor/jar-
dependencies/org/apache/logging/log4j/log4j-api/2.18.0 sudo cp
/tmp/apache-log4j-2.18.0-bin/log4j-api-2.18.0.jar
/usr/share/logstash/vendor/bundle/jruby/1.9/gems/logstash-
input-beats-3.1.32-java/vendor/jar-
dependencies/org/apache/logging/log4j/log4j-api/2.18.0/
sudo chown -R logstash:logstash
/usr/share/logstash/vendor/bundle/jruby/1.9/gems/logstash-
input-beats-3.1.32-java/vendor/jar-
dependencies/org/apache/logging/log4j/log4j-api/2.18.0/
sudo chmod 755
/usr/share/logstash/vendor/bundle/jruby/1.9/gems/logstash-
input-beats-3.1.32-java/vendor/jar-
dependencies/org/apache/logging/log4j/log4j-api/2.18.0
sudo chmod 644
/usr/share/logstash/vendor/bundle/jruby/1.9/gems/logstash-
input-beats-3.1.32-java/vendor/jar-
dependencies/org/apache/logging/log4j/log4j-api/2.18.0/log4j-
api-2.18.0.jar
```

```
sudo rm
/usr/share/logstash/vendor/bundle/jruby/1.9/gems/logstash-
input-kafka-5.1.11/vendor/jar-dependencies/runtime-jars/log4j-
slf4j-impl-2.8.2.jar
sudo cp /tmp/apache-log4j-2.18.0-bin/log4j-slf4j-impl-
2.18.0.jar
/usr/share/logstash/vendor/bundle/jruby/1.9/gems/logstash-
input-kafka-5.1.11/vendor/jar-dependencies/runtime-jars/
sudo chown logstash:logstash
/usr/share/logstash/vendor/bundle/jruby/1.9/gems/logstash-
input-kafka-5.1.11/vendor/jar-dependencies/runtime-jars/log4j-
slf4j-impl-2.18.0.jar
sudo chmod 664
/usr/share/logstash/vendor/bundle/jruby/1.9/gems/logstash-
input-kafka-5.1.11/vendor/jar-dependencies/runtime-jars/log4j-
slf4j-impl-2.18.0.jar
sudo rm
/usr/share/logstash/vendor/bundle/jruby/1.9/gems/logstash-
input-kafka-5.1.11/vendor/jar-dependencies/runtime-jars/log4j-
api-2.8.2.jar
sudo cp /tmp/apache-log4j-2.18.0-bin/log4j-api-2.18.0.jar
/usr/share/logstash/vendor/bundle/jruby/1.9/gems/logstash-
input-kafka-5.1.11/vendor/jar-dependencies/runtime-jars/
sudo chown logstash:logstash
/usr/share/logstash/vendor/bundle/jruby/1.9/gems/logstash-
input-kafka-5.1.11/vendor/jar-dependencies/runtime-jars/log4j-
api-2.18.0.jar
sudo chmod 664
/usr/share/logstash/vendor/bundle/jruby/1.9/gems/logstash-
input-kafka-5.1.11/vendor/jar-dependencies/runtime-jars/log4j-
api-2.18.0.jar
grep -R1 "log4j-api" /usr/share/logstash/* | xargs sudo sed -i
's/2\.6\.2/2\.18\.0/g'
```

7. Restart the associated services on ElasticSearch, Monitoring and UI for both sets of processes:

```
sudo systemctl status [server]_elasticsearch.service
sudo systemctl start [server]_elasticsearch.service
sudo systemctl status [server]_elasticsearch.service
```

sudo systemctl status logstash.service
sudo systemctl start logstash.service sudo systemctl status
logstash.service

8. Remove the log4j backup:

```
sudo rm -rf /tmp/3402upgrade
sudo rm /tmp/fba-hotfix-3402.tar
```

9. Stop the Kafka service:

```
sudo systemctl status kafka
sudo systemctl stop kafka
sudo systemctl status kafka
```

10. Update the Kafka instances to resolve the log4j issues on the environments:

```
sudo rm /usr/lib/kafka/libs/log4j-1.2.17.jar
sudo cp /tmp/3314upgrade/ansible/files/jar/log4j-1.2-api-
2.18.0.jar /usr/lib/kafka/libs/
sudo cp /tmp/3314upgrade/ansible/files/jar/log4j-core-
2.18.0.jar /usr/lib/kafka/libs/
sudo cp /tmp/3314upgrade/ansible/files/jar/log4j-api-
2.18.0.jar /usr/lib/kafka/libs/
sudo chown kafka:kafka /usr/lib/kafka/libs/log4j-1.2-api-
2.18.0.jar
sudo chown kafka:kafka /usr/lib/kafka/libs/log4j-core-
2.18.0.jar
sudo chown kafka:kafka /usr/lib/kafka/libs/log4j-api-
2.18.0.jar
sudo chmod 755 /usr/lib/kafka/libs/log4j-*
sudo rm /usr/lib/zookeeper/lib/log4j-1.2.16.jar
sudo cp /tmp/3314upgrade/ansible/files/jar/log4j-1.2-api-
2.18.0.jar /usr/lib/zookeeper/lib/
sudo cp /tmp/3314upgrade/ansible/files/jar/log4j-core-
2.18.0.jar /usr/lib/zookeeper/lib/
sudo cp /tmp/3314upgrade/ansible/files/jar/log4j-api-
2.18.0.jar /usr/lib/zookeeper/lib/
sudo chown zookeeper:zookeeper /usr/lib/zookeeper/lib/log4j-
```

```
1.2-api-2.18.0.jar sudo chown zookeeper:zookeeper
/usr/lib/zookeeper/lib/log4j-core-2.18.0.jar
sudo chown zookeeper:zookeeper/usr/lib/zookeeper/lib/log4j-
api-2.18.0.jar
sudo chmod 644 /usr/lib/zookeeper/lib/log4j-*
sudo rm /usr/lib/zookeeper/contrib/rest/lib/log4j-1.2.15.jar
sudo cp /tmp/3314upgrade/ansible/files/jar/log4j-1.2-api-
2.18.0.jar /usr/lib/zookeeper/contrib/rest/lib/
sudo cp /tmp/3314upgrade/ansible/files/jar/log4j-api-
2.18.0.jar /usr/lib/zookeeper/contrib/rest/lib/
sudo cp /tmp/3314upgrade/ansible/files/jar/log4j-core-
2.18.0.jar /usr/lib/zookeeper/contrib/rest/lib/
sudo chown zookeeper:zookeeper
/usr/lib/zookeeper/contrib/rest/lib/log4j-1.2-api-2.18.0.jar
sudo chown zookeeper:zookeeper
/usr/lib/zookeeper/contrib/rest/lib/log4j-api-2.18.0.jar
sudo chown zookeeper:zookeeper
/usr/lib/zookeeper/contrib/rest/lib/log4j-core-2.18.0.jar
sudo chmod 644 /usr/lib/zookeeper/contrib/rest/lib/log4j-*
```

11. Restart the Kafka services:

```
sudo systemctl status kafka
sudo systemctl start kafka
sudo systemctl status kafka
```

12. Remove backup files:

```
sudo rm -rf /tmp/3402upgrade
sudo rm /tmp/fba-hotfix-3402.tar
```

13. Apply new versions of the FBA service .jar files to the following hosts:

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

Nifi server: /usr/share/java/ro-ingest-utils/ro-ingest-utils.jar

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

14. Copy the service . jar files to the appropriate host in the FBA environment:

```
from the Jenkins host scp
/data/html/3314upgrade/ansible/files/jar/<FBA
SERVICE>.jar.3314 /tmp/<FBA SERVICE>.jar.3314
ssh <centos>@<FBA SERVICE>-yourenvironment
sudo systemctl stop <FBA SERVICE>
sudo systemctl status <FBA SERVICE> cd /usr/lib/java/<FBA</pre>
SERVICE FOLDER>
sudo mv /usr/lib/java/<FBA SERVICE FOLDER>/<FBA SERVICE>.jar
/usr/lib/java/<FBA SERVICE FOLDER>/<FBA SERVICE>.jar.pre3314
sudo mv /tmp/<FBA SERVICE>.jar.3314 /usr/lib/java/<FBA SERVICE</pre>
FOLDER>/<FBA SERVICE>.jar.3314
sudo cp -p /usr/lib/java/<FBA SERVICE FOLDER>/<FBA</pre>
SERVICE>.jar.3314 /usr/lib/java/<FBA SERVICE FOLDER>/<FBA
SERVICE>.jar
sudo systemctl start <FBA SERVICE>
sudo systemctl status <FBA SERVICE>
```



Repeat these steps for each of the <FBA SERVICES> listed in step 13.

15. Remove old version of the .jar file from each environment:



Tip

Make sure all environments have been updated and tested before removing the old .jar files

#example
sudo rm /usr/lib/java/<FBA SERVICE FOLDER>/<FBA
SERVICE>.jar.pre3402

16. Update UI node with the new version:

```
from the Jenkins host:
scp <FBA UI SERVICE>
/data/html/3314upgrade/ansible/files/rpm/ro-ui-1.96.3-
0.4.20220930gitbeebe21ffc.el7.x86 64.rpm /tmp/ro-ui-1.96.3-
0.4.20220930gitbeebe21ffc.el7.x86 64.rpm
ssh <centos>@<FBA UI SERVICE>-yourenvironment
sudo systemctl stop ro-ui
sudo systemctl status ro-ui
#backup the /usr/lib/node modules/ro-ui folder and contents:
sudo tar -cvfz /data/3314-backup-previous/ro-ui.backup.tar
/usr/lib/node modules/ro-ui/
sudo mv /etc/ro-ui/version.yml /etc/ro-ui/version.yml.previous
#install the new UI via the following command:
sudo rpm -Uvh /tmp/ro-ui-1.96.3-
0.4.20220930gitbeebe21ffc.el7.x86 64.rpm
******APPLY ANY CUSTOM UI CHANGES THAT ARE REQUIRED
*****
sudo systemctl start ro-ui
sudo systemctl status ro-ui
```

17. Patch Minigator tool:

Because the host location of the Minigator can be determined per individual installation, the steps can not be specific. A summary of the patch actions are as follows:



Tip

Patching the Minigator tool is only required if it has been deployed.

a. Copy the minigator . rpm file from the Jenkins host:

/data/html/3402upgrade/ansible/files/rpm/minigator-1.98.1-1.el7.x86 64.rpm

- b. Remove the old minigator . jar file.
- c. Install the new minigator . rpm file:

sudo rpm -Uvh minigator-1.98.1-1.el7.x86 64.rpm



Important

Any custom UI changes must be applied manually. Forcepoint will not persist those changes to the new version.

18. Remove backup files that were created during install to ensure that all files with the old versions of Log4j library code are removed. The following locations will have backup files:

API server: /usr/lib/java/ro-api/ro-api.jar.pre3314

Content server: /usr/lib/java/ro-content/ro-content.jar.jar.pre3314

Conversion server: /usr/lib/java/ro-conv/ro-conv.jar.jar.pre3314

Jenkins server: /usr/lib/java/ro-schema/ro-schema.jar.jar.pre3314

Nifi server: /usr/share/java/ro-ingest-utils/ro-ingest-

utils.jar.jar.pre3314

QW server: /usr/lib/java/ro-qw/ro-qw.jar.jar.pre3314

Rose server: /usr/lib/java/ro-rose/ro-rose.jar.jar.pre3314

MDS server: /usr/lib/java/ro-mds/ro-mds.jar.jar.pre3314

MDSlytics server: /usr/lib/java/ro-mds/ro-mds.jar.jar.pre3314

Ulserver: /data/3314-backup-previous/ro-ui.backup.tar

Ul server: /etc/ro-ui/version.yml.previous

INSTALLATION BACKOUT

1. Replace patched version of the FBA service . jar file with the original . jar file in each environment:

sudo systemctl stop <FBA SERVICE>
cd /usr/lib/java/<FBA SERVICE FOLDER>
sudo rm /usr/lib/java/<FBA SERVICE FOLDER>/<FBA SERVICE>.jar
sudo mv /usr/lib/java/<FBA SERVICE FOLDER>/<FBA
SERVICE>.pre3314 /usr/lib/java/<FBA SERVICE FOLDER>/<FBA
SERVICE>.jar
sudo systemctl start <FBA SERVICE>

The hosts and location of the .jar files are as follows:

Pre-Patch Versions

API server: /usr/lib/java/ro-api/ro-api.jar.pre3314

Content server: /usr/lib/java/ro-content/ro-content.jar.pre3314

Conversion server: /usr/lib/java/ro-conv/ro-conv.jar.pre3314

Jenkins server: /usr/lib/java/ro-schema/ro-schema.jar.pre3314

Nifi server: /usr/share/java/ro-ingest-utils/ro-ingest-

utils.jar.pre3314

QW server: /usr/lib/java/ro-qw/ro-qw.jar.pre3314

Rose server: /usr/lib/java/ro-rose/ro-rose.jar.pre3314

MDS server: /usr/lib/java/ro-mds/ro-mds.jar.pre3314

MDSlytics server: /usr/lib/java/ro-mds/ro-mds.jar.pre3314

Destination

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

Nifi server: /usr/share/java/ro-ingest-utils/ro-ingest-utils.jar

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

2. Back out UI changes



Tip

After backing out the UI changes, performing one of the following options is suggested:

Option 1:

- Redeploy the UI via Jenkins job.
- · Apply any UI patch that ay have been introduced.

Option 2:

• Extract the backup the patch installer created:

```
sudo tar -xvf /data/3314-backup-previous/ro-
ui.backup.tar -C /usr/lib/node_modules/ro-ui/
```

3. Other Servers:

```
# Re-deploy via Jenkins job.
build deploy elastic
build deploy logstash
build deploy
monitoring build deploy kafka
```