

# Logging in Java Adapters

## Overview

This tutorial provides the required code snippets in order to add logging capabilities in a Java adapter.

## Logging example

Import the java logging package:

```
import java.util.logging.Logger;
```

Define a logger:

```
static Logger logger = Logger.getLogger(JavaLoggerTestResource.class.getName());
```

Now inside a method include logging:

```
logger.warning("Logging warning message...");
```

This message outputs to the `trace.log` file of the application server. If the server administrator is forwarding logs from the MobileFirst Server to the MobileFirst Analytics server the `logger` message will also appear in the **Infrastructure → Server Log Search** view in the MobileFirst Analytics Console.

## Accessing the log files

- In an on-prem installation of the MobileFirst Server, the file is available depending on the underlying application server.
  - IBM WebSphere Application Server Full Profile  
([http://ibm.biz/knowctr#SSEQTP\\_8.5.5/com.ibm.websphere.base.doc/ae/ttrb\\_trcover.html](http://ibm.biz/knowctr#SSEQTP_8.5.5/com.ibm.websphere.base.doc/ae/ttrb_trcover.html))
  - IBM WebSphere Application Server Liberty Profile  
([http://ibm.biz/knowctr#SSEQTP\\_8.5.5/com.ibm.websphere.wlp.doc/ae/rwlp\\_logging.html?cp=SSEQTP\\_8.5.5%2F1-16-0-0](http://ibm.biz/knowctr#SSEQTP_8.5.5/com.ibm.websphere.wlp.doc/ae/rwlp_logging.html?cp=SSEQTP_8.5.5%2F1-16-0-0))
  - Apache Tomcat (<http://tomcat.apache.org/tomcat-7.0-doc/logging.html>)
- To get to the logs in a cloud deployment in:
  - IBM Containers or Liberty Build Pack, see the IBM Containers log and trace collection ([../..../bluemix/mobilefirst-server-using-scripts/log-and-trace-collection/](http://ibm.biz/bluemix/mobilefirst-server-using-scripts/log-and-trace-collection/)) tutorial.
  - Mobile Foundation Bluemix service, see [Accessing server logs](http://ibm.biz/bluemix/using-mobile-foundation/#accessing-server-logs) ([../..../bluemix/using-mobile-foundation/#accessing-server-logs](http://ibm.biz/bluemix/using-mobile-foundation/#accessing-server-logs)) section in the Using Mobile Foundation ([../..../bluemix/using-mobile-foundation](http://ibm.biz/bluemix/using-mobile-foundation)) tutorial.

## Forwarding Logs to the Analytics server

Logs can also be forwarded to the Analytics console.

1. In MobileFirst Operations Console select the **Settings** option from the sidebar navigation.

2. Click the **Edit** button in the **Runtime Properties** tab.
3. In the **Analytics → Additional packages** section, specify the class name of the Java adapter, for example `com.sample.JavaLoggerTestResource`, to forward logs to the MobileFirst Server.

**MobileFirst Operations Console**

Home > mfp > Runtime Settings

**Runtime Settings**

**Runtime Properties** | Keystore | Confidential Clients

**Runtime Properties** [Read Only]

Adapters

**GZIP compression threshold for adapter responses \***

20480

Compression threshold, in bytes, from which the server tries to compress the MobileFirst adapter response if the client accepts gzip.

[Save] [Cancel] [Restore Default Values]

**Analytics**

**Additional packages**

adapterPackageName ✓

A comma-separated list of packages that the logger uses to generate the output sent to the MobileFirst Analytics server.

**Data collection enabled**

true

Enables or disables collecting data about applications, adapters, devices, and logs to be sent to the analytics service.

[Save] [Cancel] [Restore Default Values]

*Last modified on*