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.
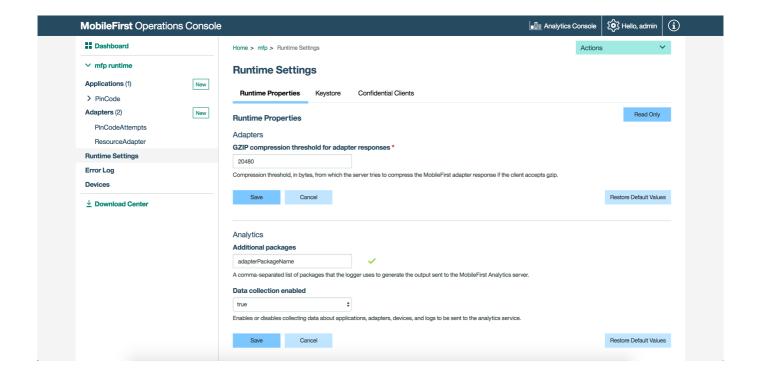
Accessing the log files

- 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)
  - 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)
  - 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/) tutorial.
  - Mobile Foundation Bluemix service, see Accessing server logs (../../../bluemix/using-mobile-foundation/#accessing-server-logs) section in the Using Mobile Foundation (../../../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.

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⌄ **mfp runtime**

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Adapters (2)   [New]
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Error Log

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[Actions ⌄]

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]

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