Administrating applications through the Command-line

Overview

You can administer MobileFirst applications through the **mfpadm** program.

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Comparison with other facilities

You can run administration operations with IBM MobileFirst Foundation in the following ways:

- The MobileFirst Operations Console, which is interactive.
- The mfpadm Ant task.
- The **mfpadm** program.
- The MobileFirst administration REST services.

The **mfpadm** Ant task, mfpadm program, and REST services are useful for automated or unattended execution of operations, such as the following use cases:

- Eliminating operator errors in repetitive operations, or
- Operating outside the operator's normal working hours, or
- Configuring a production server with the same settings as a test or preproduction server.

The **mfpadm** program and the mfpadm Ant task are simpler to use and have better error reporting than the REST services. The advantage of the mfpadm program over the mfpadm Ant task is that it is easier to integrate when integration with operating system commands is already available. Moreover, it is more suitable to interactive use.

Prerequisites

The **mfpadm** tool is installed with the MobileFirst Server installer. In the rest of this page, **product_install_dir** indicates the installation directory of the MobileFirst Server installer.

The **mfpadm** command is provided in the **product_install_dir/shortcuts/** directory as a set of scripts:

- mfpadm for UNIX / Linux
- mfpadm.bat for Windows

These scripts are ready to run, which means that they do not require specific environment variables. If the environment variable **JAVA_HOME** is set, the scripts accept it.
To use the **mfpadm** program, either put the **product_install_dir/shortcuts/** directory into your PATH environment variable, or reference its absolute file name in each call.

For more information about running the MobileFirst Server installer, see Running IBM Installation Manager (../../installation-configuration/production/installation-manager/).

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Calling the mfpadm program

You can use the **mfpadm** program to administer MobileFirst applications.

Syntax

Call the mfpadm program as follows:

```
mfpadm --url= --user= ... [--passwordfile=...] [--secure=false] some command
```

The **mfpadm** program has the following options:

Option	Type	Description	Required	Default
--url		URL	Base URL of the MobileFirst web application for administration services	Yes
--secure	Boolean	Whether to avoid operations with security risks	No	true
--user	name	User name for accessing the MobileFirst admin services	Yes	
--passwordfile	file	File containing the password for the user	No	

Option	Type	Description	Required	Default
--timeout	Number	Timeout for the entire REST service access, in seconds	No	
--connect-timeout	Number	Timeout for establishing a network connection, in seconds	No	
--socket-timeout	Number	Timeout for detecting the loss of a network connection, in seconds	No	
--connection-request-timeout	Number	Timeout for obtaining an entry from a connection request pool, in seconds	No	
--lock-timeout	Number	Timeout for acquiring a lock, in seconds	No	2
--verbose	Detailed output		No	

url
The URL preferably uses the HTTPS protocol. For example, if you use default ports and context roots, use this URL:

- For WebSphere® Application Server: https://server:9443/mfpadmin
- For Tomcat: https://server:8443/mfpadmin

secure
The `--secure` option is set to true by default. Setting it to `--secure=false` might have the following effects:

- The user and password might be transmitted in an unsecured way (possibly even through unencrypted HTTP).
- The server's SSL certificates are accepted even if self-signed or if they were created for a different host name from the server's host name.

password
Specify the password in a separate file that you pass in the `--passwordfile` option. In interactive mode (see Interactive mode), you can alternatively specify the password interactively. The password is sensitive information and therefore needs to be protected. You must prevent other users on the same computer from knowing these passwords. To secure the password, before you enter the password into a file, you must remove the read permissions of the file for users other than yourself. For example, you can use one of the following commands:

- On UNIX: `chmod 600 adminpassword.txt`
- On Windows: `cacls adminpassword.txt /P Administrators:F %USERDOMAIN%\%USERNAME%:F`

For this reason, do not pass the password to a process through a command-line argument. On many operating systems, other users can inspect the command-line arguments of your processes.

The mfpadm calls contains a command. The following commands are supported.

Command	Description
show info	Shows user and configuration information.
show global-config	Shows global configuration information.
show diagnostics	Shows diagnostics information.
show versions	Shows version information.
unlock	Releases the general-purpose lock.
list runtimes [--in-database]	Lists the runtimes.
show runtime [runtime-name]	Shows information about a runtime.
delete runtime [runtime-name] condition	Deletes a runtime.
show user-config [runtime-name]	Shows the user configuration of a runtime.
set user-config [runtime-name] file	Specifies the user configuration of a runtime.
set user-config [runtime-name] property = value	Specifies a property in the user configuration of a runtime.
show confidential-clients [runtime-name]	Shows the configuration of the confidential clients of a runtime.
set confidential-clients [runtime-name] file	Specifies the configuration of the confidential clients of a runtime.
set confidential-clients-rule [runtime-name] id display-name secret allowed-scope	Specifies a rule for the configuration of the confidential clients of a runtime.
list adapters [runtime-name]	Lists the adapters.
deploy adapter [runtime-name] property = value	Deploys an adapter.
show adapter [runtime-name] adapter-name	Shows information about an adapter.
delete adapter [runtime-name] adapter-name	Deletes an adapter.
adapter [runtime-name] adapter-name get binary [> tofile]	Get the binary data of an adapter.
list apps [runtime-name]	Lists the apps.
deploy app [runtime-name] file	Deploys an app.
show app [runtime-name] app-name	Shows information about an app.
delete app [runtime-name] app-name	Deletes an app.
show app version [runtime-name] app-name environment version	Shows information about an app version.
delete app version [runtime-name] app-name environment version	Deletes a version of an app.
app [runtime-name] app-name show license-config	Shows the token license configuration of an app.
app [runtime-name] app-name set license-config app-type license-type	Specifies the token license configuration for an app.
app [runtime-name] app-name delete license-config	Removes the token license configuration for an app.
app version [runtime-name] app-name environment version get descriptor [> tofile]	Gets the descriptor of an app version.
app version [runtime-name] app-name environment version get web-resources [> tofile]	Gets the web resources of an app version.
app version [runtime-name] app-name environment version set web-resources file	Specifies the web resources of an app version.
app version [runtime-name] app-name environment version get authenticity-data [> tofile]	Gets the authenticity data of an app version.
app version [runtime-name] app-name environment version set authenticity-data [file]	Specifies the authenticity data of an app version.
app version [runtime-name] app-name environment version delete authenticity-data	Deletes the authenticity data of an app version.
app version [runtime-name] app-name environment version show user-config	Shows the user configuration of an app version.
app version [runtime-name] app-name environment version set user-config file	Specifies the user configuration of an app version.
app version [runtime-name] app-name environment version set user-config property = value	Specifies a property in the user configuration of an app version.
list devices [runtime-name] [--query query]	Lists the devices.
remove device [runtime-name] id	Removes a device.

Command	Description
device [runtime-name] id set status new-status	Changes the status of a device.
device [runtime-name] id set appstatus app-name new-status	Changes the status of a device for an app.
list farm-members [runtime-name]	Lists the servers that are members of the server farm.
remove farm-member [runtime-name] server-id	Removes a server from the list of farm members.

Interactive mode

Alternatively, you can also call **mfpadm** without any command in the command line. You can then enter commands interactively, one per line. The `exit` command, or end-of-file on standard input (**Ctrl-D** on UNIX terminals) terminates mfpadm.

`Help` commands are also available in this mode. For example:

- help
- help show versions
- help device
- help device set status

Command history in interactive mode

On some operating systems, the interactive mfpadm command remembers the command history. With the command history, you can select a previous command, using the arrow-up and arrow-down keys, edit it, and execute it.

On Linux
The command history is enabled in terminal emulator windows if the rlwrap package is installed and found in PATH. To install the rlwrap package:

- On Red Hat Linux: `sudo yum install rlwrap`
- On SUSE Linux: `sudo zypper install rlwrap`
- On Ubuntu: `sudo apt-get install rlwrap`

On OS X
The command history is enabled in the Terminal program if the rlwrap package is installed and found in PATH. To install the rlwrap package:

1. Install MacPorts by using the installer from www.macports.org (http://www.macports.org).
2. Run the command: `sudo /opt/local/bin/port install rlwrap`
3. Then, to make the rlwrap program available in PATH, use this command in a Bourne-compatible shell: `PATH=/opt/local/bin:$PATH`

On Windows
The command history is enabled in cmd.exe console windows.

In environments where rlwrap does not work or is not required, you can disable its use through the option `--no-readline`.

The configuration file

You can also store the options in a configuration file, instead of passing them on the command line at every call. When a configuration file is present and the option –configfile=file is specified, you can omit the following options:

- --url=URL
- --secure=boolean
- --user=name
- --passwordfile=file
- --timeout=seconds
- --connect-timeout=seconds
- --socket-timeout=seconds
- --connection-request-timeout=seconds
- --lock-timeout=seconds
- runtime-name

Use these commands to store these values in the configuration file.

Command	Comment
mfpadm [--configfile=file] config url URL	
mfpadm [--configfile=file] config secure boolean	
mfpadm [--configfile=file] config user name	
mfpadm [--configfile=file] config password	Prompts for the password.
mfpadm [--configfile=file] config timeout seconds	
mfpadm [--configfile=file] config connect-timeout seconds	
mfpadm [--configfile=file] config socket-timeout seconds	
mfpadm [--configfile=file] config connection-request-timeout seconds	
mfpadm [--configfile=file] config lock-timeout seconds	
mfpadm [--configfile=file] config runtime runtime-name	

Use this command to list the values that are stored in the configuration file: mfpadm `[--configfile=file]` config

The configuration file is a text file, in the encoding of the current locale, in Java™ .properties syntax. Default configuration file:

- UNIX: `$HOME/.mfpadm.config`
- Windows: `My Documents\IBM MobileFirst Platform Server Data\mfpadm.config`

Note: When you do not specify a `--configfile` option, the default configuration file is used only in interactive mode and in config commands. For noninteractive use of the other commands, you must explicitly designate the configuration file if you want to use one.

> **Important:** The password is stored in an obfuscated format that hides the password from an occasional glimpse. However, this obfuscation provides no security.

Generic options

There are also the usual generic options:

Option	Description
--help	Shows some usage help
--version	Shows the version

XML format

The commands that receive an XML response from the server verify that this response complies with the specific schema. You can disable this check by specifying `--xmlvalidation=none`.

Output character set

Normal output that is produced by the mfpadm program is encoded in the encoding format of the current locale. On Windows, this encoding format is "ANSI code page". The effects are as follows:

- Characters outside of this character set are converted to question marks when they are output.
- When the output goes to a Windows command prompt window (cmd.exe), non-ASCII characters are incorrectly displayed because such windows assume characters to be encoded in "OEM code page".

To work around this limitation:

- On operating systems other than Windows, use a locale whose encoding is UTF-8. This format is the default locale on Red Hat Linux and OS X. Many other operating systems have a `en_US.UTF-8` locale.
- Or use the mfpadm Ant task, with attribute `output="some file name"` to redirect the output of a command to a file.

Commands for general configuration

When you call the **mfpadm** program, you can include various commands that access the global configuration of the IBM MobileFirst Server or of a runtime.

The `show global-config` command

The `show global-config` command shows the global configuration.

Syntax: `show global-config`

It takes the following options:

Argument	Description
--xml	Produces XML output instead of tabular output.

Example

```
show global-config
```

This command is based on the Global Configuration (GET) (http://www.ibm.com/support/knowledgecenter/en/SSHS8R_8.0.0/com.ibm.worklight.apiref.doc/apiref/r_restapi_global_configuration_get.html?view=kc#Global-Configuration--GET-) REST service.

The `show user-config` command

The `show user-config` command shows the user configuration of a runtime.

Syntax: `show user-config [--xml] [runtime-name]`

It takes the following arguments:

Argument	Description
runtime-name	Name of the runtime.

The `show user-config` command takes the following options after the verb.

Argument	Description	Required	Default
--xml	Produces output in XML format instead of JSON format.	No	Standard output

Example

```
show user-config mfp
```

This command is based on the Runtime Configuration (GET) (http://www.ibm.com/support/knowledgecenter/en/SSHS8R_8.0.0/com.ibm.worklight.apiref.doc/apiref/r_restapi_runtime_configuration_get.html?view=kc#Runtime-Configuration--GET-) REST service.

The `set user-config` command

The `set user-config` command specifies the user configuration of a runtime or a single property among this configuration.

Syntax for the entire configuration: `set user-config [runtime-name] file`

It takes the following arguments:

Attribute	Description
runtime-name	Name of the runtime.
file	Name of the JSON or XML file that contains the new configuration.

Syntax for a single property: `set user-config [runtime-name] property = value`

The `set user-config` command takes the following arguments:

Argument	Description
runtime-name	Name of the runtime.
property	Name of the JSON property. For a nested property, use the syntax prop1.prop2.....propN. For a JSON array element, use the index instead of a property name.
value	The value of the property.

Examples

```
set user-config mfp myconfig.json
```

```
set user-config mfp timeout = 240
```

This command is based on the Runtime configuration (PUT) (http://www.ibm.com/support/knowledgecenter/en/SSHS8R_8.0.0/com.ibm.worklight.apiref.doc/apiref/r_restapi_runtime_configuration_put.html?view=kc#Runtime-configuration--PUT-) REST service.

The `show confidential-clients` command

The `show confidential-clients` command shows the configuration of the confidential clients that can access a runtime. For more information about confidential clients, see Confidential clients (../../authentication-and-security/confidential-clients).

Syntax: `show confidential-clients [--xml] [runtime-name]`

It takes the following arguments:

Attribute	Description
runtime-name	Name of the runtime.

The `show confidential-clients` command takes the following options after the verb.

Argument	Description	Required	Default
--xml	Produces output in XML format instead of JSON format.	No	Standard output

Example

```
show confidential-clients --xml mfp
```

This command is based on the Confidential Clients (GET) (http://www.ibm.com/support/knowledgecenter/en/SSHS8R_8.0.0/com.ibm.worklight.apiref.doc/apiref/r_restapi_confidential_clients_get.html?view=kc#Confidential-Clients--GET-) REST service.

The `set confidential-clients` command

The `set confidential-clients` command specifies the configuration of the confidential clients that can access a runtime. For more information about confidential clients, see Confidential clients (../../authentication-and-security/confidential-clients).

Syntax: `set confidential-clients [runtime-name] file`

Its takes the following arguments:

Attribute	Description
runtime-name	Name of the runtime.
file	Name of the JSON or XML file that contains the new configuration.

Example

```
set confidential-clients mfp clients.xml
```

This command is based on the Confidential Clients (PUT) (http://www.ibm.com/support/knowledgecenter/en/SSHS8R_8.0.0/com.ibm.worklight.apiref.doc/apiref/r_restapi_confidential_clients_put.html?view=kc#Confidential-Clients--PUT-) REST service.

The `set confidential-clients-rule` command

The `set confidential-clients-rule` command specifies a rule in the configuration of the confidential clients that can access a runtime. For more information about confidential clients, see Confidential clients (../../authentication-and-security/confidential-clients).

Syntax: `set confidential-clients-rule [runtime-name] id displayName secret allowedScope`

It takes the following arguments:

Attribute	Description
runtime	Name of the runtime.
id	The identifier of the rule.
displayName	The display name of the rule.
secret	The secret of the rule.
allowedScope	The scope of the rule. A space-separated list of tokens. Use double-quotes to pass a list of two or more tokens.

Example

```
set confidential-clients-rule mfp push Push lOa74Wxs "**"
```

This command is based on the Confidential Clients (PUT) (http://www.ibm.com/support/knowledgecenter/en/SSHS8R_8.0.0/com.ibm.worklight.apiref.doc/apiref/r_restapi_confidential_clients_put.html?view=kc#Confidential-Clients--PUT-) REST service.

Commands for adapters

When you invoke the **mfpadm** program, you can include various commands for adapters.

The `list adapters` command

The `list adapters` command returns a list of the adapters that are deployed for a runtime.

Syntax: `list adapters [runtime-name]`

It takes the following arguments:

Argument **Description**
runtime-name Name of the runtime.
The `list adapters` command takes the following options after the object.

Option **Description**
--xml Produce XML output instead of tabular output.
Example

```
list adapters mfp
```

This command is based on the Adapters (GET) (http://www.ibm.com/support/knowledgecenter/en/SSHS8R_8.0.0/com.ibm.worklight.apiref.doc/apiref/r_restapi_adapters_get.html?view=kc#Adapters--GET-) REST service.

The `deploy adapter` command

The `deploy adapter` command deploys an adapter in a runtime.

Syntax: `deploy adapter [runtime-name] file`

It takes the following arguments:

Argument **Description**
runtime-name Name of the runtime.
file Binary adapter file (.adapter)
Example

```
deploy adapter mfp MyAdapter.adapter
```

This command is based on the Adapter (POST) (http://www.ibm.com/support/knowledgecenter/en/SSHS8R_8.0.0/com.ibm.worklight.apiref.doc/apiref/r_restapi_adapter_post.html?view=kc#Adapter--POST-) REST service.

The `show adapter` command

The `show adapter` command shows details about an adapter.

Syntax: `show adapter [runtime-name] adapter-name`

It takes the following arguments.

Argument **Description**
runtime-name Name of the runtime.
adapter-name Name of an adapter
The `show adapter` command takes the following options after the object.

Option **Description**
--xml Produce XML output instead of tabular output.
Example

```
show adapter mfp MyAdapter
```

This command is based on the Adapter (GET) (http://www.ibm.com/support/knowledgecenter/en/SSHS8R_8.0.0/com.ibm.worklight.apiref.doc/apiref/r_restapi_adapter_get.html?view=kc#Adapter--GET-) REST service.

The `delete adapter` command

The `delete adapter` command removes (undeploys) an adapter from a runtime.

Syntax: `delete adapter [runtime-name] adapter-name`

It takes the following arguments:

Argument **Description**
runtime-name Name of the runtime.

Argument	Description
adapter-name	Name of an adapter.

Example

```
delete adapter mfp MyAdapter
```

This command is based on the Adapter (DELETE) (http://www.ibm.com/support/knowledgecenter/en/SSHS8R_8.0.0/com.ibm.worklight.apiref.doc/apiref/r_restapi_adapter_delete.html?view=kc#Adapter--DELETE-) REST service.

The `adapter` command prefix

The `adapter` command prefix takes the following arguments before the verb.

Argument	Description
runtime-name	Name of the runtime.
adapter-name	Name of an adapter.

The `adapter get binary` command

The `adapter get binary` command returns the binary adapter file.

Syntax: `adapter [runtime-name] adapter-name get binary [> tofile]`

It takes the following options after the verb.

Option	Description	Required	Default
> tofile	Name of the output file.	No	Standard output

Example

```
adapter mfp MyAdapter get binary > /tmp/MyAdapter.adapter
```

This command is based on the Export runtime resources (GET) (http://www.ibm.com/support/knowledgecenter/en/SSHS8R_8.0.0/com.ibm.worklight.apiref.doc/apiref/r_restapi_export_runtime_resources_get.html?view=kc) REST service.

The `adapter show user-config` command

The `adapter show user-config` command shows the user configuration of the adapter.

Syntax: `adapter [runtime-name] adapter-name show user-config [--xml]`

It takes the following options after the verb.

Option	Description
--xml	Produces output in XML format instead of JSON format.

Example

```
adapter mfp MyAdapter show user-config
```

This command is based on the Adapter Configuration (GET) (http://www.ibm.com/support/knowledgecenter/en/SSHS8R_8.0.0/com.ibm.worklight.apiref.doc/apiref/r_restapi_adapter_configuration_get.html?view=kc#Adapter-Configuration--GET-) REST service.

The `adapter set user-config` command

The `adapter set user-config` command specifies the user configuration of the adapter or a single property within this configuration.

Syntax for the entire configuration: `adapter [runtime-name] adapter-name set user-config file`

It takes the following arguments after the verb.

Option	Description
file	Name of the JSON or XML file that contains the new configuration.

Syntax for a single property: `adapter [runtime-name] adapter-name set user-config property = value`

It takes the following arguments after the verb.

Option	Description
property	Name of the JSON property. For a nested property, use the syntax prop1.prop2.....propN. For a JSON array element, use the index instead of a property name.
value	The value of the property.

Examples

```
adapter mfp MyAdapter set user-config myconfig.json
```

```
adapter mfp MyAdapter set user-config timeout = 240
```

This command is based on the Adapter configuration (PUT) (http://www.ibm.com/support/knowledgecenter/en/SSHS8R_8.0.0/com.ibm.worklight.apiref.doc/apiref/r_restapi_adapter_configuration_put.html?view=kc) REST service.

Commands for apps

When you invoke the **mfpadm** program, you can include various commands for apps.

The `list apps` command

The `list apps` command returns a list of the apps that are deployed in a runtime.

Syntax: `list apps [runtime-name]`

It takes the following arguments:

Argument	Description
runtime-name	Name of the runtime.

The `list apps` command takes the following options after the object.

Option	Description
--xml	Produce XML output instead of tabular output.

Example

```
list apps mfp
```

This command is based on the Applications (GET) (http://www.ibm.com/support/knowledgecenter/en/SSHS8R_8.0.0/com.ibm.worklight.apiref.doc/apiref/r_restapi_applications_get.html?view=kc#Applications--GET-) REST service.

The `deploy app` command

The `deploy app` command deploys an app version in a runtime.

Syntax: `deploy app [runtime-name] file`

It takes the following arguments:

Argument	Description
runtime-name	Name of the runtime.
file	The application descriptor, a JSON file.

Example

```
deploy app mfp MyApp/application-descriptor.json
```

This command is based on the Application (POST) (http://www.ibm.com/support/knowledgecenter/en/SSHS8R_8.0.0/com.ibm.worklight.apiref.doc/apiref/r_restapi_application_post.html?view=kc#Application--POST-) REST service.

The `show app` command

The `show app` command shows details about an app in a runtime, in particular its environments and versions.

Syntax: `show app [runtime-name] app-name`

It takes the following arguments:

Argument	Description
runtime-name	Name of the runtime.
app-name	Name of an app.

The `show app` command takes the following options after the object.

Option	Description
--xml	Produce XML output instead of tabular output.

Example

```
show app mfp MyApp
```

This command is based on the Application (GET) (http://www.ibm.com/support/knowledgecenter/en/SSHS8R_8.0.0/com.ibm.worklight.apiref.doc/apiref/r_restapi_application_get.html?view=kc#Application--GET-) REST service.

The `delete app` command

The `delete app` command removes (undeploys) an app, from all environments and all versions, from a runtime.

Syntax: `delete app [runtime-name] app-name`

It takes the following arguments:

Argument	Description
runtime-name	Name of the runtime.
app-name	Name of an app

Example

```
delete app mfp MyApp
```

This command is based on the Application Version (DELETE) (http://www.ibm.com/support/knowledgecenter/en/SSHS8R_8.0.0/com.ibm.worklight.apiref.doc/apiref/r_restapi_application_version_delete.html?view=kc#Application-Version--DELETE-) REST service.

The `show app version` command

The `show app version` command show details about an app version in a runtime.

Syntax: `show app version [runtime-name] app-name environment version`

It takes the following arguments:

Argument	Description
runtime-name	Name of the runtime.
app-name	Name of an app.
environment	Mobile platform.
version	Version of the app.

The `show app version` command takes the following options after the object.

Argument	Description
-- xml	Produces XML output instead of tabular output.

Example

```
show app version mfp MyApp iPhone 1.1
```

This command is based on the Application Version (GET) (http://www.ibm.com/support/knowledgecenter/en/SSHS8R_8.0.0/com.ibm.worklight.apiref.doc/apiref/r_restapi_application_version_get.html?view=kc#Application-Version--GET-) REST service.

The `delete app version` command

The `delete app version` command removes (undeploys) an app version from a runtime.

Syntax: `delete app version [runtime-name] app-name environment version`

It takes the following arguments:

Argument	Description
runtime-name	Name of the runtime.
app-name	Name of an app.
environment	Mobile platform.
version	Version of the app.

Example

```
delete app version mfp MyApp iPhone 1.1
```

This command is based on the Application Version (DELETE) (http://www.ibm.com/support/knowledgecenter/en/SSHS8R_8.0.0/com.ibm.worklight.apiref.doc/apiref/r_restapi_application_version_delete.html?view=kc#Application-Version--DELETE-) REST service.

The `app` command prefix

The `app` command prefix takes the following arguments before the verb.

Argument	Description
runtime-name	Name of the runtime.
app-name	Name of an app.

The `app show license-config` command

The `app show license-config` command shows the token license configuration of an app.

Syntax: `app [runtime-name] app-name show license-config`

It takes the following options after the object:

Argument	Description
--xml	Produces XML output instead of tabular output.

Example

```
app mfp MyApp show license-config
```

This command is based on the Application license configuration (GET) (http://www.ibm.com/support/knowledgecenter/en/SSHS8R_8.0.0/com.ibm.worklight.apiref.doc/apiref/r_restapi_application_license_configuration_get.html?view=kc) REST service.

The `app set license-config` command

The `app set license-config` command specifies the token license configuration of an app.

Syntax: `app [runtime-name] app-name set license-config app-type license-type`

It takes the following arguments after the verb.

Argument	Description
appType	Type of app: B2C or B2E.
licenseType	Type of application: APPLICATION or ADDITIONAL*BRAND*DEPLOYMENT or NON_PRODUCTION.

Example

```
app mfp MyApp iPhone 1.1 set license-config B2E APPLICATION
```

This command is based on the Application License Configuration (POST) (http://www.ibm.com/support/knowledgecenter/en/SSHS8R_8.0.0/com.ibm.worklight.apiref.doc/apiref/r_restapi_application_license_configuration__post.html?view=kc) REST service.

The `app delete license-config` command

The `app delete license-config` command resets the token license configuration of an app, that is, reverts it to the initial state.

Syntax: `app [runtime-name] app-name delete license-config`

Example

```
app mfp MyApp iPhone 1.1 delete license-config
```

This command is based on the License configuration (DELETE) (http://www.ibm.com/support/knowledgecenter/en/SSHS8R_8.0.0/com.ibm.worklight.apiref.doc/apiref/r_restapi_license_configuration_delete.html?view=kc#License-configuration--DELETE-) REST service.

The `app version` command prefix

The `app version` command prefix takes the following arguments before the verb.

Argument	Description
runtime-name	Name of the runtime.
app-name	Name of an app.
environment	Mobile platform
version	Version of the app

The `app version get descriptor` command

The `app version get descriptor` command returns the application descriptor of a version of an app.

Syntax: `app version [runtime-name] app-name environment version get descriptor [> tofile]`

It takes the following arguments after the verb.

Argument	Description	Required	Default
> tofile	Name of the output file.	No	Standard output

Example

```
app version mfp MyApp iPhone 1.1 get descriptor > /tmp/MyApp-application-descriptor.json
```

This command is based on the Application Descriptor (GET) (http://www.ibm.com/support/knowledgecenter/en/SSHS8R_8.0.0/com.ibm.worklight.apiref.doc/apiref/r_restapi_application_descriptor_get.html?view=kc#Application-Descriptor--GET-) REST service.

The `app version get web-resources` command

The `app version get web-resources` command returns the web resources of a version of an app, as a .zip file.

Syntax: `app version [runtime-name] app-name environment version get web-resources [> tofile]`

It takes the following arguments after the verb.

Argument	Description	Required	Default
> tofile	Name of the output file.	No	Standard output

Example

```
app version mfp MyApp iPhone 1.1 get web-resources > /tmp/MyApp-web.zip
```

This command is based on the Retrieve Web Resource (GET) (http://www.ibm.com/support/knowledgecenter/en/SSHS8R_8.0.0/com.ibm.worklight.apiref.doc/apiref/r_restapi_retrieve_web_resource_get.html?view=kc#Retrieve-Web-Resource--GET-) REST service.

The `app version set web-resources` command

The `app version set web-resources` command specifies the web resources for a version of an app.

Syntax: `app version [runtime-name] app-name environment version set web-resources file`

It takes the following arguments after the verb.

Argument	Description
file	Name of the input file (must be a .zip file).

Example

```
app version mfp MyApp iPhone 1.1 set web-resources /tmp/MyApp-web.zip
```

This command is based on the Deploy a web resource (POST) (http://www.ibm.com/support/knowledgecenter/en/SSHS8R_8.0.0/com.ibm.worklight.apiref.doc/apiref/r_restapi_deploy_a_web_resource_post.html?view=kc#Deploy-a-web-resource--POST-) REST service.

The `app version get authenticity-data` command

The `app version get authenticity-data` command returns the authenticity data of a version of an app.

Syntax: `app version [runtime-name] app-name environment version get authenticity-data [> tofile]`

It takes the following arguments after the verb.

Argument	Description	Required	Default
> tofile	Name of the output file.	No	Standard output

Example

```
app version mfp MyApp iPhone 1.1 get authenticity-data > /tmp/MyApp.authenticity_data
```

This command is based on the Export runtime resources (GET) (http://www.ibm.com/support/knowledgecenter/en/SSHS8R_8.0.0/com.ibm.worklight.apiref.doc/apiref/r_restapi_export_runtime_resources_get.html?view=kc) REST service.

The `app version set authenticity-data` command

The `app version set authenticity-data` command specifies the authenticity data for a version of an app.

Syntax: `app version [runtime-name] app-name environment version set authenticity-data file`

It takes the following arguments after the verb.

Argument	Description
file	Name of the input file: • Either a .authenticity_data file, • Or a device file (.ipa or .apk or .appx), from which the authenticity data is extracted.

Examples

```
app version mfp MyApp iPhone 1.1 set authenticity-data /tmp/MyApp.authenticity_data
```

```
app version mfp MyApp iPhone 1.1 set authenticity-data MyApp.ipa
```

```
app version mfp MyApp android 1.1 set authenticity-data MyApp.apk
```

This command is based on the Deploy Application Authenticity Data (POST) (http://www.ibm.com/support/knowledgecenter/en/SSHS8R_8.0.0/com.ibm.worklight.apiref.doc/apiref/r_restapi_deploy_application_authenticity_data_post.html?view=kc) REST service.

The `app version delete authenticity-data` command

The `app version delete authenticity-data` command deletes the authenticity data for a version of an app.

Syntax: `app version [runtime-name] app-name environment version delete authenticity-data`

Example

```
app version mfp MyApp iPhone 1.1 delete authenticity-data
```

This command is based on the Application Authenticity (DELETE) (http://www.ibm.com/support/knowledgecenter/en/SSHS8R_8.0.0/com.ibm.worklight.apiref.doc/apiref/r_restapi_application_authenticity_delete.html?view=kc) REST service.

The `app version show user-config` command

The `app version show user-config` command shows the user configuration of a version of an app.

Syntax: `app version [runtime-name] app-name environment version show user-config [--xml]`

It takes the following options after the verb.

Argument	Description	Required	Default
[--xml]	Produce output in XML format instead of JSON format.	No	Standard output

Example

```
app version mfp MyApp iPhone 1.1 show user-config
```

This command is based on the Application Configuration (GET) (http://www.ibm.com/support/knowledgecenter/en/SSHS8R_8.0.0/com.ibm.worklight.apiref.doc/apiref/r_restapi_application_configuration_get.html?view=kc#Application-Configuration--GET-) REST service.

The `app version set user-config` command

The `app version set user-config` command specifies the user configuration for a version of an app or a single property among this configuration.

Syntax for the entire configuration: `app version [runtime-name] app-name environment version set user-config file`

It takes the following arguments after the verb.

Argument	Description
file	Name of the JSON or XML file that contains the new configuration.

Syntax for a single property: `app version [runtime-name] app-name environment version set user-config property = value`

The `app version set user-config` command takes the following arguments after the verb.

Argument	Description
property	Name of the JSON property. For a nested property, use the syntax prop1.prop2.....propN. For a JSON array element, use the index instead of a property name.
value	The value of the property.

Examples

```
app version mfp MyApp iPhone 1.1 set user-config /tmp/MyApp-config.json
```

```
app version mfp MyApp iPhone 1.1 set user-config timeout = 240
```

This command is based on the Application Configuration (PUT) (http://www.ibm.com/support/knowledgecenter/en/SSHS8R_8.0.0/com.ibm.worklight.apiref.doc/apiref/r_restapi_application_configuration_put.html?view=kc) REST service.

Commands for devices

When you invoke the **mfpadm** program, you can include various commands for devices.

The `list devices` command

The `list devices` command returns the list of devices that have contacted the apps of a runtime.

Syntax: `list devices [runtime-name] [--query query]`

It takes the following arguments:

Argument	Description
runtime-name	Name of the runtime.
query	A friendly name or user identifier, to search for. This parameter specifies a string to search for. All devices that have a friendly name or user identifier that contains this string (with case-insensitive matching) are returned.

The `list devices` command takes the following options after the object.

Option	Description
--xml	Produces XML output instead of tabular output.

Examples

```
list-devices mfp
```

```
list-devices mfp --query=john
```

This command is based on the Devices (GET) REST (http://www.ibm.com/support/knowledgecenter/en/SSHS8R_8.0.0/com.ibm.worklight.apiref.doc/apiref/r_restapi_devices_get.html?view=kc#Devices--GET-) service.

The `remove device` command

The `remove device` command clears the record about a device that has contacted the apps of a runtime.

Syntax: `remove device [runtime-name] id`

It takes the following arguments:

Argument	Description
runtime-name	Name of the runtime.
id	Unique device identifier.

Example

```
remove device mfp 496E974CCEDE86791CF9A8EF2E5145B6
```

This command is based on the Device (DELETE) (http://www.ibm.com/support/knowledgecenter/en/SSHS8R_8.0.0/com.ibm.worklight.apiref.doc/apiref/r_restapi_device_delete.html?view=kc#Device--DELETE-) REST service.

The `device` command prefix

The `device` command prefix takes the following arguments before the verb.

Argument	Description
runtime-name	Name of the runtime.
id	Unique device identifier.

The `device set status` command

The `device set status` command changes the status of a device, in the scope of a runtime.

Syntax: `device [runtime-name] id set status new-status`

It takes the following arguments:

Argument	Description
new-status	New status.

The status can have one of the following values:

- ACTIVE

- LOST
- STOLEN
- EXPIRED
- DISABLED

Example

```
device mfp 496E974CCEDE86791CF9A8EF2E5145B6 set status EXPIRED
```

This command is based on the Device Status (PUT) (http://www.ibm.com/support/knowledgecenter/en/SSHS8R_8.0.0/com.ibm.worklight.apiref.doc/apiref/r_restapi_device_status_put.html?view=kc#Device-Status--PUT-) REST service.

The `device set appstatus` command

The `device set appstatus` command changes the status of a device, regarding an app in a runtime.

Syntax: `device [runtime-name] id set appstatus app-name new-status`

It takes the following arguments:

ArgumentDescription
app-name Name of an app.
new-statusNew status.
The status can have one of the following values:

- ENABLED
- DISABLED

Example

```
device mfp 496E974CCEDE86791CF9A8EF2E5145B6 set appstatus MyApp DISABLED
```

This command is based on the Device Application Status (PUT) (http://www.ibm.com/support/knowledgecenter/en/SSHS8R_8.0.0/com.ibm.worklight.apiref.doc/apiref/r_restapi_device_application_status_put.html?view=kc#Device-Application-Status--PUT-) REST service.

Commands for troubleshooting

When you invoke the **mfpadm** program, you can include various commands for troubleshooting.

The `show info` command

The `show info` command shows basic information about the MobileFirst administration services that can be returned without accessing any runtime nor database. This command can be used to test whether the MobileFirst administration services are running at all.

Syntax: `show info`

It takes the following options after the object.

OptionDescription
--xml Produces XML output instead of tabular output.
Example

```
show info
```

The `show versions` command

The `show versions` command displays the MobileFirst versions of various components:

- **mfpadmVersion**: the exact MobileFirst Server version number from **which mfp-ant-deployer.jar** is taken.
- **productVersion**: the exact MobileFirst Server version number from which **mfp-admin-service.war** is taken
- **mfpAdminVersion**: the exact build version number of **mfp-admin-service.war** alone.

Syntax: `show versions`

It takes the following options after the object.

OptionDescription
--xml Produces XML output instead of tabular output.
Example

```
show versions
```

The `show diagnostics` command

The `show diagnostics` command shows the status of various components that are necessary for the correct operation of the MobileFirst administration service, such as the availability of the database and of auxiliary services.

Syntax: `show diagnostics`

It takes the following options after the object.

OptionDescription
--xml Produces XML output instead of tabular output.
Example

```
show diagnostics
```

The `unlock` command

The `unlock` command releases the general-purpose lock. Some destructive operations take this lock in order to prevent concurrent modification of the same configuration data. In rare cases, if such an operation is interrupted, the lock might remain in locked state, making further destructive operations impossible. Use the unlock command to release the lock in such situations.

Example

```
unlock
```

The `list runtimes` command

The `list runtimes` command returns a list of the deployed runtimes.

Syntax: `list runtimes [--in-database]`

It takes the following options:

Option	Description
--in-database	Whether to look in the database instead of via MBeans
--xml	Produces XML output instead of tabular output.

Examples

```
list runtimes
```

```
list runtimes --in-database
```

This command is based on the Runtimes (GET) (http://www.ibm.com/support/knowledgecenter/en/SSHS8R_8.0.0/com.ibm.worklight.apiref.doc/apiref/r_restapi_runtimes_get.html?view=kc#Runtimes--GET-) REST service.

The `show runtime` command

The `show runtime` command shows information about a given deployed runtime.

Syntax: `show runtime [runtime-name]`

It takes the following arguments:

Argument	Description
runtime-name	Name of the runtime.

The `show runtime` command takes the following options after the object.

Option	Description
--xml	Produces XML output instead of tabular output.

This command is based on the Runtime (GET) (http://www.ibm.com/support/knowledgecenter/en/SSHS8R_8.0.0/com.ibm.worklight.apiref.doc/apiref/r_restapi_runtime_get.html?view=kc#Runtime--GET-) REST service.

Example

```
show runtime mfp
```

The `delete runtime` command

The `delete runtime` command deletes a runtime, including its apps and adapters, from the database. You can delete a runtime only when its web application is stopped.

Syntax: `delete runtime [runtime-name] condition`

It takes the following arguments:

Argument	Description
runtime-name	Name of the runtime.
condition	Condition when to delete it: empty or always. **Attention:** The always option is dangerous.

Example

```
delete runtime mfp empty
```

This command is based on the Runtime (DELETE) (http://www.ibm.com/support/knowledgecenter/en/SSHS8R_8.0.0/com.ibm.worklight.apiref.doc/apiref/r_restapi_runtime_delete.html?view=kc#Runtime--DELETE-) REST service.

The `list farm-members` command

The `list farm-members` command returns a list of the farm member servers on which a given runtime is deployed.

Syntax: `list farm-members [runtime-name]`

It takes the following arguments:

Argument	Description
runtime-name	Name of the runtime.

The `list farm-members` command takes the following options after the object.

Option **Description**
--xml Produces XML output instead of tabular output.
Example

```
list farm-members mfp
```

This command is based on the Farm topology members (GET) (http://www.ibm.com/support/knowledgecenter/en/SSHS8R_8.0.0/com.ibm.worklight.apiref.doc/apiref/r_restapi_farm_topology_members_get.html?view=kc#Farm-topology-members--GET-) REST service.

The `remove farm-member` command

The `remove farm-member` command removes a server from the list of farm members on which the specified runtime is deployed. Use this command when the server has become unavailable or disconnected.

Syntax: `remove farm-member [runtime-name] server-id`

It takes the following arguments.

Argument **Description**
runtime-name Name of the runtime.
server-id Identifier of the server.
The `remove farm-member` command takes the following options after the object.

Option **Description**
--force Force removal of a farm member, even if it is available and connected.
Example

```
remove farm-member mfp srvlx15
```

This command is based on the Farm topology members (DELETE) (http://www.ibm.com/support/knowledgecenter/en/SSHS8R_8.0.0/com.ibm.worklight.apiref.doc/apiref/r_restapi_farm_topology_members_delete.html?view=kc) REST service.