

Command Line Client

Fabasoft app.telemetry 2020 – Command Line Client

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1 Introduction

Fabasoft app.telemetry provides a command line client for management of Software-Telemetry sessions. This command line client is intended to be used in automated test environments to record and process Software-Telemetry sessions, where interactive access through the web client is not applicable.

Additionally this tool is used to compute coverage statistics for recorded telemetry sessions.

2 Installation

The command line client is installed with the Fabasoft app.telemetry server for a particular platform and may be copied to other computers.

On Linux systems the executable is installed under `/opt/app.telemetry/bin/apptelemetry` and on Microsoft Windows systems the `apptelemetry.exe` is installed in the installation directory specified during setup (Default location: `C:\Program Files\Fabasoft app.telemetry\`).

3 Configuration

The Fabasoft app.telemetry command line client communicates with the Fabasoft app.telemetry server using an HTTP connection.

Use the following commands to setup communication parameters:

Command Line Client (Linux) – Configuration Commands

```
> apptelemetry set server "http://<servername>/apptelemetry/server/"
> apptelemetry set authentication [anonymous | basic <username>
<password> | kerberos]
    example: apptelemetry set authentication basic admin pwd123
```

Optionally you could also set a proxy server with and without authentication (the default setting is to use a direct connection without proxy server).

Command Line Client (Linux) – Configuration Commands – Proxy

```
> apptelemetry set proxy [default | direct | host <proxyserver>
[<username> <password>]]
    example: apptelemetry set proxy direct
    example: apptelemetry set proxy host 10.20.30.40
    example: apptelemetry set proxy host myproxy.com:8080 myuser
mypassword
```

Telemetry data files are downloaded to the local host into a specific target directory which can be changed using the following command:

Command Line Client (Linux) – Configuration Commands – Download Directory

```
> apptelemetry set downloadtarget "<target-directory>"
example: apptelemetry set downloadtarget "/tmp/app.telemetry.client"
```

These settings are persisted in a configuration file so they only have to be done the first time.

Location of the persisted configuration file:

- **Linux:** <user-home-dir>/app.telemetry/clientsettings.xml
 - **Example:** /home/admin/app.telemetry/clientsettings.xml
- **Microsoft Windows:** <user-home-dir>\<AppData>\Fabasoft\app.telemetry\clientsettings.xml
 - **Example (Microsoft Windows Server 2016):** C:\Users\Admin\AppData\Roaming\Fabasoft\app.telemetry\clientsettings.xml

Optionally you could also set a timeout for all network requests (from the command line client to Fabasoft app.telemetry web server): default timeout is 30 seconds (30000)

Command Line Client (Linux) – Configuration Commands – Timeout

```
> apptelemetry set timeout <timeoutmilliseconds>
example: apptelemetry set timeout 60000
```

4 Command Reference

4.1 Getting Help with Command Syntax

Command Line Client (Linux) – Help

```
> apptelemetry help
usage: apptelemetry set server "http://host/apptelemetry/server/"
apptelemetry set session <sessionid>
apptelemetry show ...
apptelemetry start session <applname> <applid> <filter>
[normal|detail|debug] description
apptelemetry stop session {<sessionid>}
apptelemetry delete session {<sessionid>}
apptelemetry download session {<sessionid>|latest} {outsession.zip}
apptelemetry help ...
```

Using incomplete commands will display more specific help

Command Line Client (Linux) – Specific Help

```
> apptelemetry set
usage: apptelemetry set server "http://host/apptelemetry/server/"
       apptelemetry set authentication [anonymous | basic {username}
       {password}]
       apptelemetry set session {sessionid}
       apptelemetry set downloadtarget {directoryname}
       apptelemetry set timeout <timeoutmilliseconds>

> apptelemetry show
usage: apptelemetry show config
       apptelemetry show sessions           apptelemetry show applications
```

4.2 Showing Information

Display current persisted configuration settings:

Command Line Client (Linux) – Show Config

```
> apptelemetry show config
Host:           http://localhost/apptelemetry/server/
Last Session:   0
Authentication: anonymous
Download Target: /tmp/app.telemetry.client/
```

Display currently running sessions:

Command Line Client (Linux) – Show Sessions

```
> apptelemetry show sessions
Session 1: Test without Filter (Fabasoft Folio 1.1470) started=2009-02-10
16:45:28.000
Session 2: test (Fabasoft Folio 1.1470, COO.1.1470.1.12) started=2009-02-
11 16:56:48.000
Session 3: Eskalation: Administrator, System - Create Folder (Fabasoft
Folio 1.1470, COO.1.1470.1.12) started=2009-02-11 14:27:57.000
```

Display currently registered applications:

Command Line Client (Linux) – Show Applications

```
> apptelemetry show applications
Application Fabasoft Folio - 1.1470 - AT-Service - COOATS_1_Scheduler
```

```
Application Fabasoft Folio - 1.1470 - Webservice - VEXT_1_Root_FSC
Application Fabasoft Folio - 1.1470 - COO-Service - 1
Application Fabasoft Folio - 1.1470 - MMC-Service - 2
```

4.3 Start/Stop/Download/Delete Telemetry Sessions

Start a Software-Telemetry session for a specific application defined by <applname> and <applid>. Set the application specific filter value (for example <domain\user.name>) and define the detail level for the recording session.

Command Line Client (Linux) – Start Session

```
> apptelemetry start session <applname> <applid> <filter>
[normal|detail|debug] "description"

Example: > apptelemetry start session "Fabasoft Folio" "1.1470"
"COO.1.1470.1.12" debug "Test from commandline client"

Session 10 started
```

After the application tasks have run stop the telemetry session again. Define the ID of the started session or keep this field empty to stop the last started session.

Command Line Client (Linux) – Stop Session

```
> apptelemetry stop session
> apptelemetry stop session <sessionid>

Example: > apptelemetry stop session 10

Session 10 stopping
Session 10 started=0 pending=0
```

After the session was stopped it could be downloaded to the client machine. Define the ID of the stopped session or use the keyword "latest" to download the last stopped session.

If you define an output filename the session ZIP archive is stored to this path, otherwise (if kept empty) the session is written to the configured download target directory with a default filename (session.zip).

Command Line Client (Linux) – Download Session

```
> apptelemetry download session
> apptelemetry download session <sessionid>|latest [outputsession.zip]

successfully downloaded infrastructure
Request      1 id=2597
...
Request      7 id=2602
successfully downloaded request 2597
successfully downloaded application 954200171049123863
...
successfully downloaded request 2602
successfully downloaded request 2602 file 954200171049123868
```

When a session is not used any longer, or you need to clean up the server, the session can be deleted from the Fabasoft app.telemetry server with the following command.

Command Line Client (Linux) – Delete Session

```
> apptelemetry delete session
> apptelemetry delete session <sessionid>
  Example: > apptelemetry delete session 10
           Session 10 deleted
```

The session and the session information files will be deleted permanently from the server. The raw Software-Telemetry data files will not be deleted by this call, because they may be needed by other sessions. (These raw data files stored in daily directories on the server should be cleaned up manually after some time when they are not needed any more.)

4.4 Execute Scripts

You can execute an infrastructure configuration script directly from the app.telemetry command line.

Command Line Client (Linux) – Execute Script

```
> apptelemetry execute mypackage.js param1
```

In order to use the infrastructure-scripting API, it is required to provide the scripts located in the infrastructure-scripting folder of the install directory. If you use the app.telemetry command line from a remote computer provide the -host and -port parameters to connect to the app.telemetry server. A trusted certificate has to be used in order to authenticate successfully with the server (see Installation Guide for further information on trusted certificates).

4.5 Packages

Packages are used to provide configuration information in form of xml files and infrastructure scripts. With the app.telemetry command line tool you can list, upload and download packages and trigger the execution of the contained scripts.

Command Line Client (Linux) – Execute Script

```
> apptelemetry package list
> apptelemetry package upload <packagefile.zip>
> apptelemetry package download <packagename> [targetfile.zip]
> apptelemetry package execute <packagename>
```