

jmxterm quickstart

jmxterm is an excellent tool to poke mbeans. It is basically an interactive terminal-based JMX client. It is especially useful for scripting.

How to get it

<http://wiki.cyclopsgroup.org/jmxterm/>

Interactive mode

It comes with help:

```
java -jar jmxterm-1.0-alpha-4-uber.jar
Welcome to JMX terminal. Type "help" for available commands.
$>help
#following commands are available to use:
about      - Display about page
bean       - Display or set current selected MBean.
beans      - List available beans under a domain or all domains
bye        - Terminate console and exit
close      - Close current JMX connection
domain     - Display or set current selected domain.
domains    - List all available domain names
exit       - Terminate console and exit
get        - Get value of MBean attribute(s)
help       - Display available commands or usage of a command
info       - Display detail information about an MBean
jvms       - List all running local JVM processes
open       - Open JMX session or display current connection
option     - Set options for command session
quit       - Terminate console and exit
run        - Invoke an MBean operation
set        - Set value of an MBean attribute

$>help beans
usage: beans [-d <val>] [-h]
List available beans under a domain or all domains
  -d,--domain <val>  Name of domain under which beans are listed
  -h,--help           Display usage
Without -d option, current select domain is applied. If there's no domain
specified, all beans are listed. Example:
beans
beans -d java.lang
```

Here is an example of connecting to an existing JVM and querying for a specific bean:

```

$>open 10167
$>info -b kafka.server:name=TotalFetchRequestsPerSec,topic=topicG,type=BrokerTopicMetrics
#mbean = kafka.server:name=TotalFetchRequestsPerSec,topic=topicG,type=BrokerTopicMetrics
#class name = com.yammer.metrics.reporting.JmxReporter$Meter
# attributes
  %0 - Count (long, r)
  %1 - EventType (java.lang.String, r)
  %2 - FifteenMinuteRate (double, r)
  %3 - FiveMinuteRate (double, r)
  %4 - MeanRate (double, r)
  %5 - OneMinuteRate (double, r)
  %6 - RateUnit (java.util.concurrent.TimeUnit, r)
# operations
  %0 - javax.management.ObjectName objectName()
#there's no notifications
$>get -s -b kafka.server:name=TotalFetchRequestsPerSec,topic=topicG,type=BrokerTopicMetrics OneMinuteRate
#mbean = kafka.server:name=TotalFetchRequestsPerSec,topic=topicG,type=BrokerTopicMetrics:
7.960856160430041

```

(You can use the domain command to set the domain to avoid having to type out the fully qualified object name.)

Non-interactive (batch) mode

Same as above example, but non-interactive.

```

$ cat jmxcommands
open 10167
get -s -b kafka.server:name=TotalFetchRequestsPerSec,topic=topicG,type=BrokerTopicMetrics OneMinuteRate
close

$ java -jar jmxterm-1.0-alpha-4-uber.jar -v silent -n < jmxcommands
7.973832278363945

```

If you have a JMX URI at hand, you can also poke remote mbeans:

```

$ java -jar jmxterm-1.0-alpha-4-uber.jar -l <JMX URI> -v silent -n < jmxcommands

```