

- ▶ Pour Commencer
- ▶ Week 0: Introduction to Network and Service Management
- ▶ Week 1: Key Concepts with SNMP
- ▶ Week 2: Monitoring with Nagios
- ▼ Week 3: Instrumentation with JMX

Overview of the Content

Lecture 1: Key Concepts and Architecture

Lesson_Quiz



Lecture 2: Basic Instrumentation

Lesson_Quiz



Lecture 3: Support Services

Lesson_Quiz



Practical Exercise 1: JMX and JConsole

Practical_Exercise_Quiz

Practical Exercise 2: Standard MBean

Practical_Exercise_Quiz

Practical Exercise 3: Dynamic MBean

PRACTICAL EXERCISE 1 (W3_PE1): USING JCONSOLE

This first practical exercise is to use the `jconsole` tool to explore the expected solution of the `TimeServer` to be developed during the other practical exercises (W3_PE2, W3_PE3, W3_PE4).

In the folder `/home/user/jmx/jars` you find two jars: `timeclient.jar` and `timeserver.jar`. In a first terminal, you start the `TimeServer` as follows:

```
/home/fun/mooc/jmx/labs/jars$java -jar TimeServer.jar
nancy
Europe/Paris
Request processed: Sunday 29 October 2017, 19:32:46 PM
```

In a second terminal, you start the `TimeClient` as follows, and you provide as city name "nancy":

```
/home/fun/mooc/jmx/labs/jars$java -jar TimeClient.jar
Please provide city name:
nancy
The current time in nancy is Sunday 29 October 2017, 19:32:46 PM
/home/fun/mooc/jmx/labs/jars$
```

In a third terminal, you start the `jconsole` tool to connect to the MBean server of the `TimeServer` as follows:

4: Adding a Notification

Practical_Exercise_Quiz

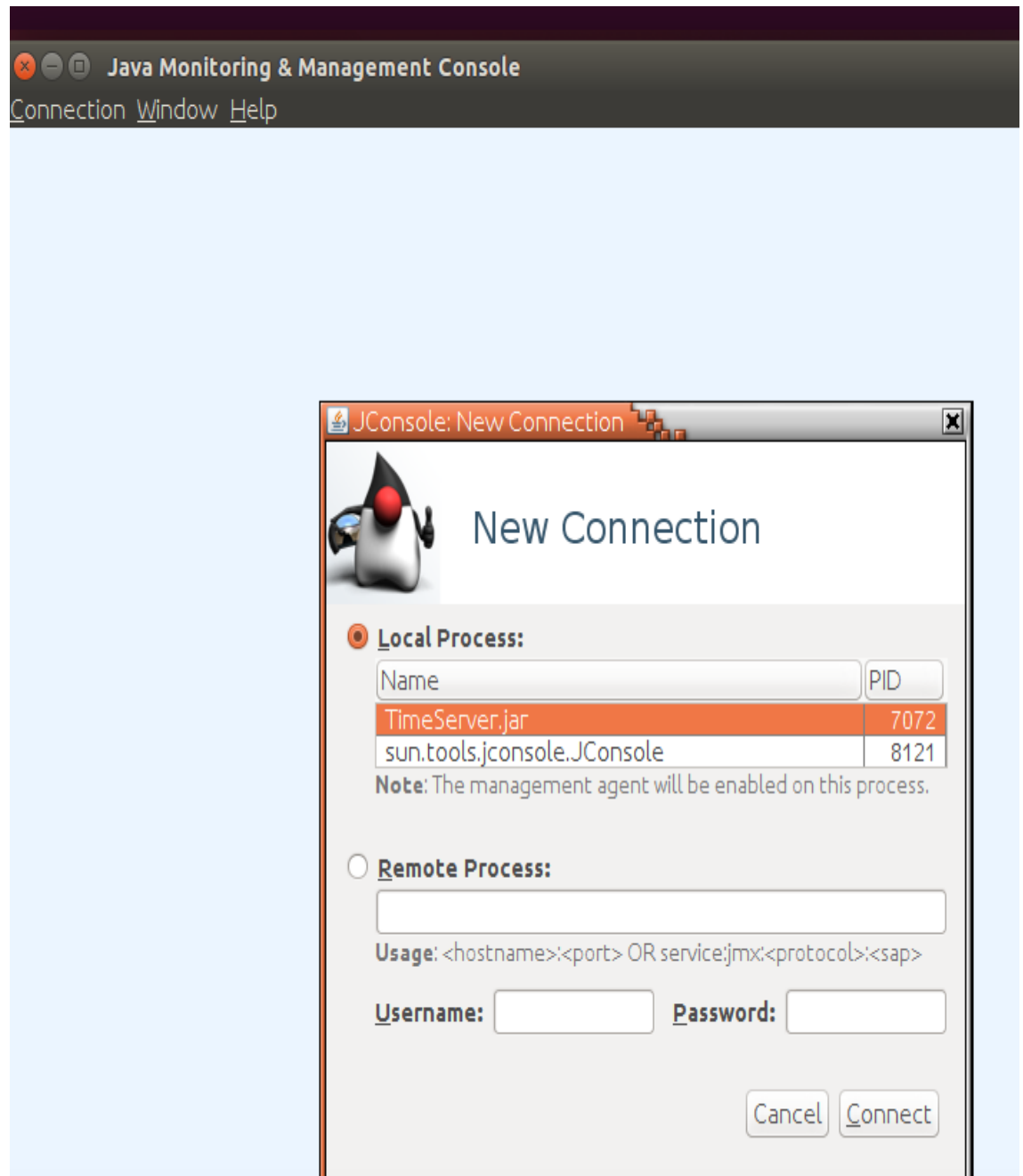
Evaluations

Week_Evaluation

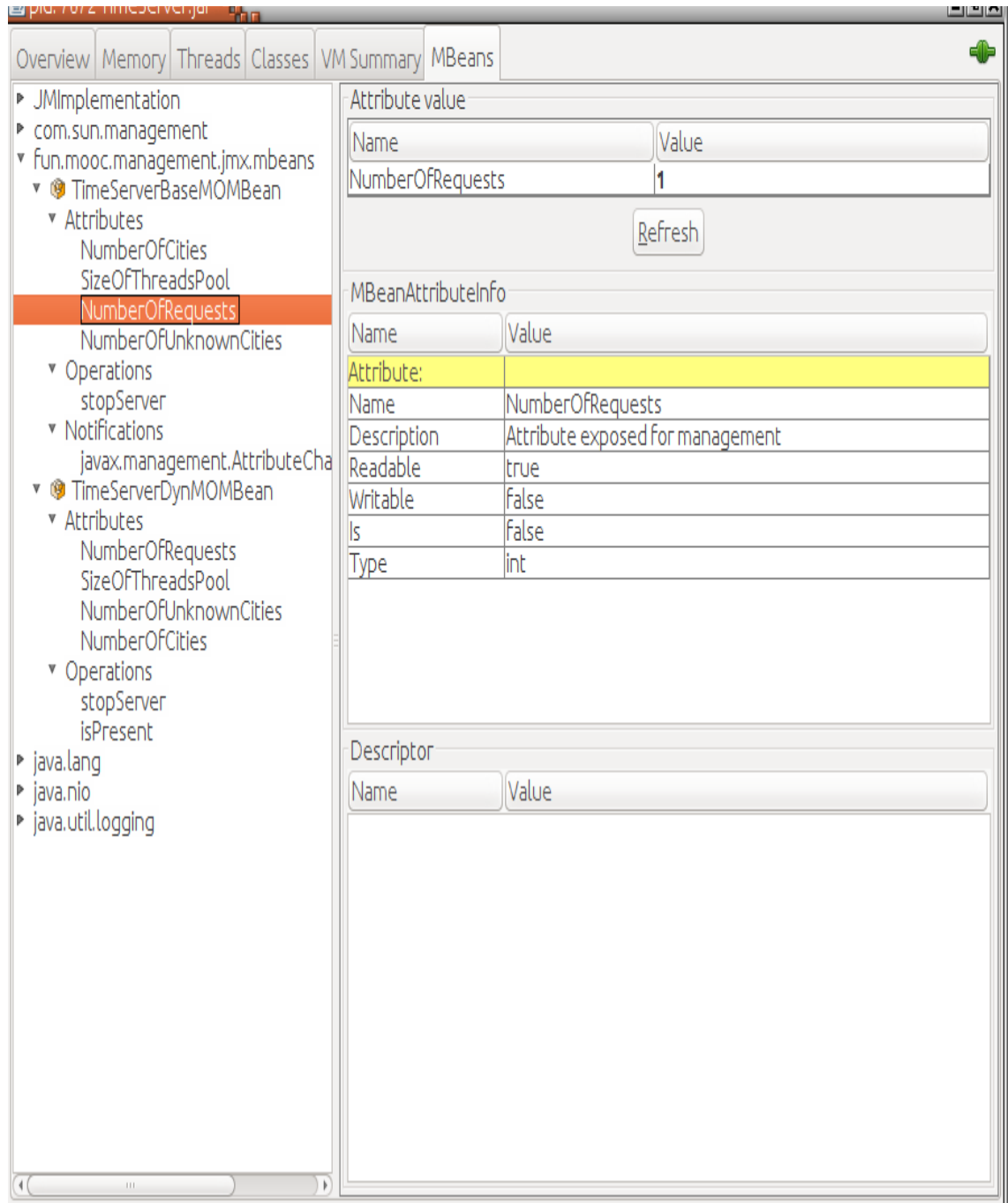
Echéance le avril 10, 2022 at 22:00 UTC

Aidez-nous à améliorer ce MOOC

- ▶ Week 4: Next-Generation Management Protocols
- ▶ Votre avis nous intéresse



The following figure depicts the interface of the *jconsole* with the set of available MBeans and their respective attributes and operations:



The screenshot shows the JConsole tool interface. The left pane displays a tree of MBeans, with 'NumberRequests' selected under 'TimeServerDynMOMBean'. The right pane shows the 'Attribute value' section with 'NumberRequests' set to '1'. Below it, the 'MBeanAttributeInfo' section shows details for 'NumberRequests', including its description 'Attribute exposed for management', readability, writability, and type 'int'.

QUESTION W3.PE1.1: GETTING AN ATTRIBUTE VALUE (NUMBER OF CITIES)

(1/1 point)

By using the jconsole tool and checking the value of the attribute `NumberOfCities`, how many cities are available in the `TimeServer`?

