



Instituto Politécnico  
de Viana do Castelo

## Parsing XML Files using JAVA

Em Ambiente LINUX

N.º 23822 – Joel Silva

Orientador(es):

- Professor Jorge Ribeiro

Joel Silva Xfce Terminal File Edit View Terminal Tabs Help

Terminal - joelsilva@joel-zenbook:~/Documents/ISXML/1-DOM

```

-rw-r--r-- 1 joelsilva joelsilva Qualif 0 out 31 Nov 2013 test.txt
[joelsilva@joel-zenbook 1-DOM]$ java FileServe
Error: Could not find or load main class FileServe
Caused by: java.lang.ClassNotFoundException: FileServe
[joelsilva@joel-zenbook 1-DOM]$ java FileServer
Error: Could not find or load main class FileServer
Caused by: java.lang.NoClassDefFoundError: netbulb/ORPC/Svc
[joelsilva@joel-zenbook 1-DOM]$ java -cp "$CLASSPATH:orpc.jar" FileServer
Netbulb JavaRPC demo, not distributable!
Fail to register UDP transport.
Fail to register TCP transport.
Fail to register UDP transport.
^Z
[1]+  Stopped                  java -cp "$CLASSPATH:orpc.jar" FileServer
[joelsilva@joel-zenbook 1-DOM]$ java -cp "$CLASSPATH:orpc.jar" FileServer
Netbulb JavaRPC demo, not distributable!
Fail to register TCP transport.
Fail to register UDP transport.
^Z
[2]+  Stopped                  java -cp "$CLASSPATH:orpc.jar" FileServer
[joelsilva@joel-zenbook 1-DOM]$ java -cp "$CLASSPATH:orpc.jar" FileServer
Netbulb JavaRPC demo, not distributable!
Registered TCP transport.
Registered UDP transport.
Ficheiro recebido: simple.xml 1135 bytes transferidos "+in_arg.files[i].save
Ficheiro gravado: simple.xml
Closing socket.

```

5. DOM: Runtime.get

7. SAX: Runtime.get

8. JAXP: Runtime.get

9. JAXB: Runtime.get

Terminal - joelsilva@joel-zenbook:~/Documents/ISXML/1-DOM

```

[joelsilva@joel-zenbook 1-DOM]$ java -cp "$CLASSPATH:orpc.jar" pmapsvc
Exception in thread "main" RPC: Remote system error [java.net.BindException: Permissi
on denied (Bind failed)]
at netbulb.ORPC.TCPServer.<init>(TCPServer.java:58)
at netbulb.ORPC.Svc.svc_create(Svc.java:95)
at netbulb.ORPC.Pmapsvc.run(Pmapsvc.java:56)
at pmapsvc.main(pmapsvc.java:5)
[joelsilva@joel-zenbook 1-DOM]$ java -cp "$CLASSPATH:orpc.jar" pmapsvc
Exception in thread "main" RPC: Remote system error [java.net.BindException: Permissi
on denied (Bind failed)]
at netbulb.ORPC.TCPServer.<init>(TCPServer.java:58)
at netbulb.ORPC.Svc.svc_create(Svc.java:95)
at netbulb.ORPC.Pmapsvc.run(Pmapsvc.java:56)
at pmapsvc.main(pmapsvc.java:5)
[joelsilva@joel-zenbook 1-DOM]$ sudo java -cp "$CLASSPATH:orpc.jar" pmapsvc
[sudo] password for joelsilva:
Netbulb JavaRPC demo, not distributable!

```

Terminal - joelsilva@joel-zenbook:~/Documents/ISXML/1-DOM

```

[joelsilva@joel-zenbook 2-SAX]$ nano FileServer.java
[joelsilva@joel-zenbook 2-SAX]$ cd ..
[joelsilva@joel-zenbook ISXML]$ cd 1-DOM/
[joelsilva@joel-zenbook 1-DOM]$ java -cp "$CLASSPATH:orpc.jar" FileClient
syntax: java fileClient server hostname file1 [file2 file3 ...]
[joelsilva@joel-zenbook 1-DOM]$ java -cp "$CLASSPATH:orpc.jar" FileClient
syntax: java fileClient server hostname file1 [file2 file3 ...]
[joelsilva@joel-zenbook 1-DOM]$ java -cp "$CLASSPATH:orpc.jar" FileClient localhost simple.
xml
Netbulb JavaRPC demo, not distributable!
Ligado ao servidor localhost
simple.xml 1135 bytes enviados
[joelsilva@joel-zenbook 1-DOM]$

```

2. Linha de Comandos

Figuras → 1.b,4.b,5.b,6.b,7.b,8.b,9.b,10.b,11.b,12.b,13.b,14.b,15.b

a. Fazer Classpath:

```
set CLASSPATH=%CLASSPATH%;C:\TESTAR\orpc.dev\lib\orpc.jar
```

b. Executar Portmapper:

# JDOM

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Procedimento da Qualidade - 2021-2022-EI-IS-Ficha\_Pratica\_7\_Java\_e\_XML\_v2.pdf — Mozilla Firefox

Terminal - joelsilva@joel-zenbook:~/Documents/ISXML/3-JDOM/jdom-2.0.5

```
[joelsilva@joel-zenbook jdom-2.0.5]$ java -cp "$CLASSPATH:orpc.jar" FileServer
Error: Could not find or load main class FileServer
Caused by: java.lang.ClassNotFoundException: FileServer
[joelsilva@joel-zenbook jdom-2.0.5]$ java -cp "$CLASSPATH:orpc.jar" FileServer
Netbula JavaRPC demo, not distributable!
Registered TCP transport.
Ficheiro recebido: ../../simple.xml 1135 bytes transferidos
Ficheiro gravado: simple.xml
Closing socket.
^C[joelsilva@joel-zenbook jdom-2.0.5]$ javac -cp "$CLASSPATH:orpc.jar" FileServer.java
[joelsilva@joel-zenbook jdom-2.0.5]$ java -cp "$CLASSPATH:orpc.jar" FileServer
Netbula JavaRPC demo, not distributable!
Registered TCP transport.
Registered UDP transport.
Ficheiro recebido: ../../simple.xml 1135 bytes transferidos
Ficheiro gravado: simple.xml
Closing socket.
Ficheiro recebido: ../../note.xml 145 bytes transferidos
Ficheiro gravado: note.xml
Closing socket.
^C
```

4. JAXP: Runtime.getRuntime().exec("cmd.exe /c java -cp \"\$CLASSPATH:orpc.jar\" FileServer");

5. JAXB: Runtime.getRuntime().exec("cmd.exe /c java -cp \"\$CLASSPATH:orpc.jar\" FileServer");

1. Linha de Comandos 1

Figuras → 1.a, 4.a, 5.a, 6.a, 7.a, 8.a, 9.a, 10.a

Terminal - joelsilva@joel-zenbook:~/Documents/ISXML/3-JDOM/jdom-2.0.5

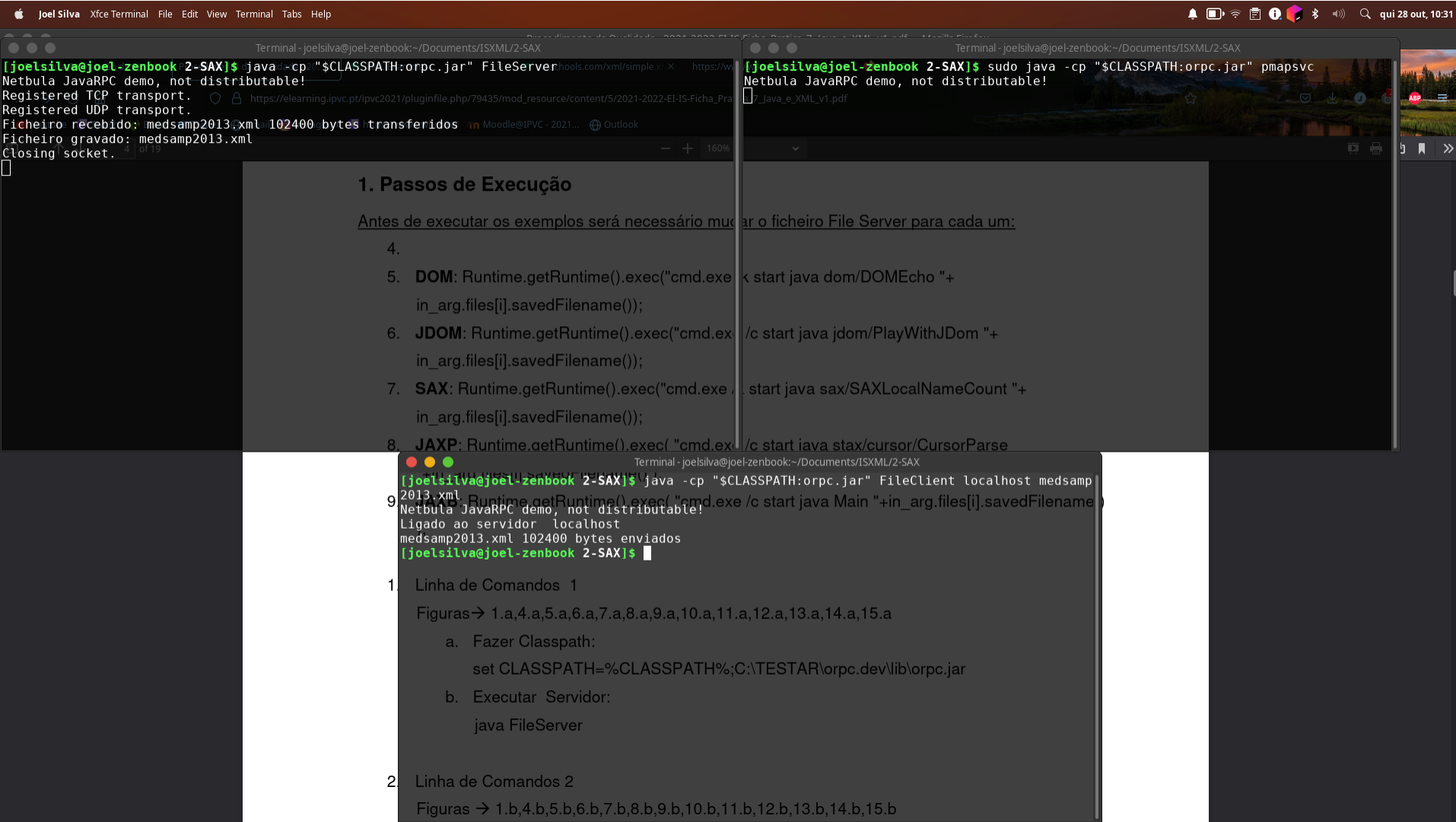
```
[joelsilva@joel-zenbook jdom-2.0.5]$ java -cp "$CLASSPATH:orpc.jar" FileClient
localhost ../../simple.xml
Netbula JavaRPC demo, not distributable!
Ligado ao servidor localhost
../../simple.xml 1135 bytes enviados
[joelsilva@joel-zenbook jdom-2.0.5]$ java -cp "$CLASSPATH:orpc.jar" FileClient
localhost ../../simple.xml
Netbula JavaRPC demo, not distributable!
Ligado ao servidor localhost
../../simple.xml 1135 bytes enviados
[joelsilva@joel-zenbook jdom-2.0.5]$ nano FileServer.java
[joelsilva@joel-zenbook jdom-2.0.5]$ java -cp "$CLASSPATH:orpc.jar" FileClient
localhost ../../note.xml
Netbula JavaRPC demo, not distributable!
Ligado ao servidor localhost
../../note.xml 145 bytes enviados
[joelsilva@joel-zenbook jdom-2.0.5]$
```

2. Linha de Comandos 2

a. Executar Portmapper:

```
java -cp ".;orpc.jar" pmapped
```

3. Linha de Comandos 3



Terminal - joelsilva@joel-zenbook: ~/Documents/ISXML/2-SAX

```
[joelsilva@joel-zenbook 2-SAX]$ java -cp "$CLASSPATH:orpc.jar" FileServer
Netbula JavaRPC demo, not distributable!
Registered TCP transport.
Registered UDP transport.
Ficheiro recebido: medsamp2013.xml 102400 bytes transferidos
Ficheiro gravado: medsamp2013.xml
Closing socket.
```

Terminal - joelsilva@joel-zenbook: ~/Documents/ISXML/2-SAX

```
[joelsilva@joel-zenbook 2-SAX]$ sudo java -cp "$CLASSPATH:orpc.jar" pmapsvc
Netbula JavaRPC demo, not distributable!
7_java_e_XML_v1.pdf
```

### 1. Passos de Execução

Antes de executar os exemplos será necessário mudar o ficheiro File Server para cada um:

4. **DOM:** Runtime.getRuntime().exec("cmd.exe /c start java dom/DOMEcho "+ in\_arg.files[i].savedFilename());
6. **JDOM:** Runtime.getRuntime().exec("cmd.exe /c start java jdom/PlayWithJDom "+ in\_arg.files[i].savedFilename());
7. **SAX:** Runtime.getRuntime().exec("cmd.exe /c start java sax/SAXLocalNameCount "+ in\_arg.files[i].savedFilename());
8. **JAXP:** Runtime.getRuntime().exec("cmd.exe /c start java stax/cursor/CursorParse "+ in\_arg.files[i].savedFilename());
9. **FileClient:** Runtime.getRuntime().exec("cmd.exe /c start java Main "+ in\_arg.files[i].savedFilename());

Terminal - joelsilva@joel-zenbook: ~/Documents/ISXML/2-SAX

```
[joelsilva@joel-zenbook 2-SAX]$ java -cp "$CLASSPATH:orpc.jar" FileClient localhost medsamp2013.xml
Netbula JavaRPC demo, not distributable!
Ligado ao servidor localhost
medsamp2013.xml 102400 bytes enviados
[joelsilva@joel-zenbook 2-SAX]$
```

1. Linha de Comandos 1  
Figuras → 1.a,4.a,5.a,6.a,7.a,8.a,9.a,10.a,11.a,12.a,13.a,14.a,15.a
  - a. Fazer Classpath:  
set CLASSPATH=%CLASSPATH%;C:\TESTAR\orpc.dev\lib\orpc.jar
  - b. Executar Servidor:  
java FileServer
2. Linha de Comandos 2  
Figuras → 1.b,4.b,5.b,6.b,7.b,8.b,9.b,10.b,11.b,12.b,13.b,14.b,15.b







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