

Question

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JavaGateway exception: <UNDEFINED>zGetJavaVersion+22^%Net.Remote.Service.1

Hello,

We are trying to connect to a database through a JavaGateway.

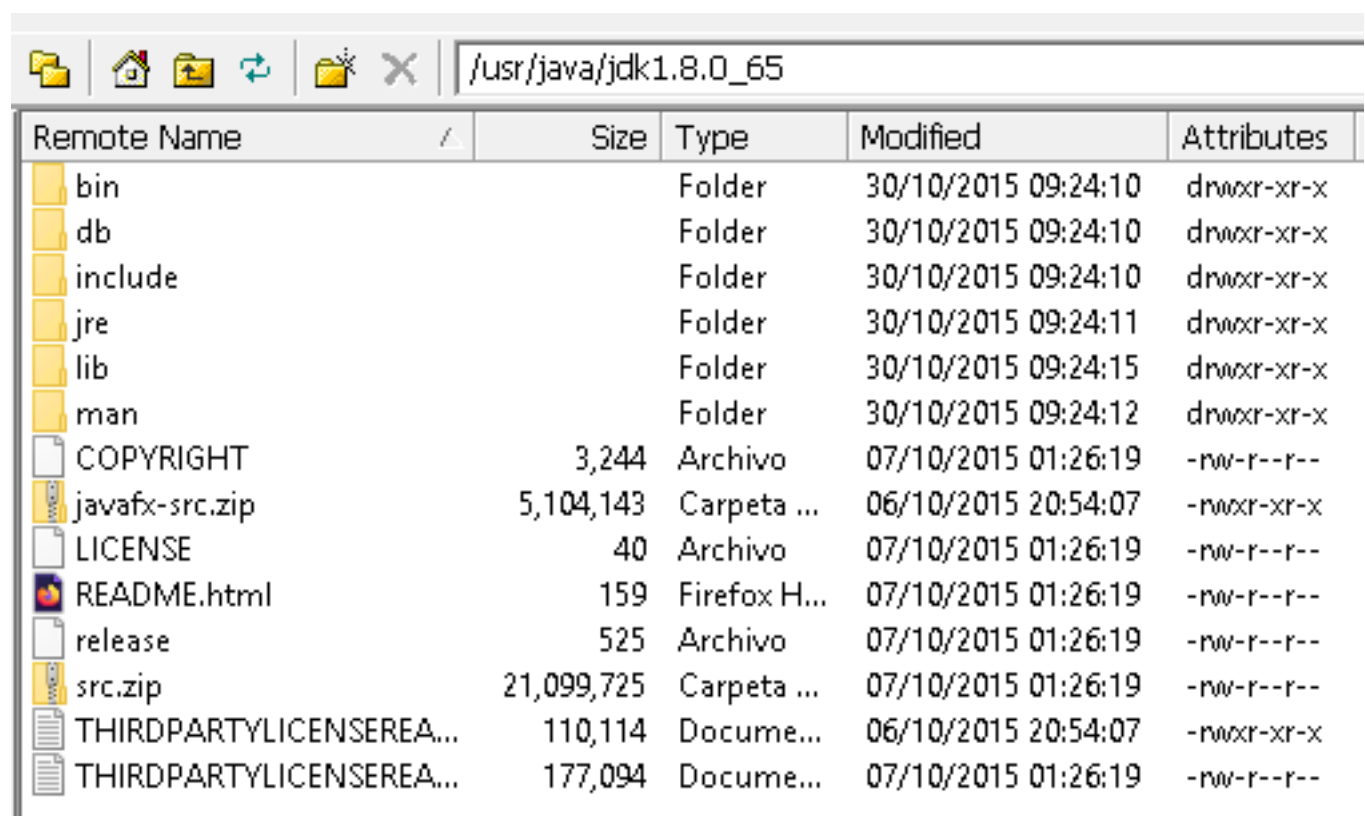
We observe that the JavaGateway reports:

Failed to start the Java Gateway server: ERROR #5002: Error de cache:
<UNDEFINED>zGetJavaVersion+22^%Net.Remote.Service.1 *versionWithPrefix

We have checked that we do have the Java Home set:

/usr/java/jdk1.8.0_65

And we have seen the java files in the server:



Remote Name	Size	Type	Modified	Attributes
bin		Folder	30/10/2015 09:24:10	drwxr-xr-x
db		Folder	30/10/2015 09:24:10	drwxr-xr-x
include		Folder	30/10/2015 09:24:10	drwxr-xr-x
jre		Folder	30/10/2015 09:24:11	drwxr-xr-x
lib		Folder	30/10/2015 09:24:15	drwxr-xr-x
man		Folder	30/10/2015 09:24:12	drwxr-xr-x
COPYRIGHT	3,244	Archivo	07/10/2015 01:26:19	-rw-r--r--
javafx-src.zip	5,104,143	Carpeta ...	06/10/2015 20:54:07	-rwxr-xr-x
LICENSE	40	Archivo	07/10/2015 01:26:19	-rw-r--r--
README.html	159	Firefox H...	07/10/2015 01:26:19	-rw-r--r--
release	525	Archivo	07/10/2015 01:26:19	-rw-r--r--
src.zip	21,099,725	Carpeta ...	07/10/2015 01:26:19	-rw-r--r--
THIRDPARTYLICENSEREA...	110,114	Docume...	06/10/2015 20:54:07	-rwxr-xr-x
THIRDPARTYLICENSEREA...	177,094	Docume...	07/10/2015 01:26:19	-rw-r--r--

We have read the code where the exceptions being raised:

```
/// Returns the numeric part of the Java version string (e.g. 1.8.0.1)
/// Rules of how the complete version string is formatted can be found here:
/// http://www.oracle.com/technetwork/java/javase/versioning-naming-139433.html
ClassMethod GetJavaVersion(javaHomeDir As %String = "", Output version As %String = "") As %Status
{
    #dim tSC As %Status = $$$OK
    #dim tCurrentDevice As %String = $IO Try {
        // Build the java executable path
        Set javaExecutable = "java"_$Select($$$isWINDOWS:".exe",$$$isVMS:".exe",1:"")
        If (javaHomeDir'="") {
            Set javaBinDir = ##class(%Library.File).SubDirectoryName(javaHomeDir,"bin")
            Set javaBinDir = javaBinDir_$Select($$$isWINDOWS:"/",$$$isVMS:"",1:"/")
            Set javaExecutable = ##class(%Library.File).NormalizeFilename(javaExecutable,javaBinDir)
        }
        Set tSC = ..GetJavaExecutableCommand(javaHomeDir,.javaExecutable)
        Quit:$$$ISERR(tSC) // java -version prints to std err, not std out, so we need to redirect otherwise command pipe
        output will be empty
        Set versionCmd = javaExecutable_ " -version 2>&1"
        Do ##class(%Net.Remote.Utility).RunCommandViaCPIPE(versionCmd,.pDevice,.pOutput) // Look for pattern :
        version "1.8.0.1
        // where the double quote may optionally be replaced with a single quote or omitted
        Set regex = "version\s[""]"?(\d+(\./\d+)+)"
        Set pos = $Locate(pOutput,regex,1,,versionWithPrefix) // Get just the number from the previous pattern : 1.8.0.1
        Set regex = "(\d+(\./\d+)+)"
        Set pos = $Locate(versionWithPrefix,regex,1,,version)
    } Catch (ex) {
        Set tSC = ex.AsStatus()
    } // Close command pipe, restore original device
    Close:($Get(pDevice)'="") pDevice:"I"
    Use tCurrentDevice Quit tSC
}
```

The exception is being thrown at the line:

```
Set pos = $Locate(versionWithPrefix,regex,1,,version)
```

Because of versionWithPrefix is undefined

It makes us wonder, why the regex is not getting the java version?

However if we test the regular expression at: <https://www.freeformatter.com/java-regex-tester.html#ad-output>

Entry to test against :

java version "1.8.0_65"

Replace with (Optional):

You can make use of \$1, \$2, \$3 and so on if you are using parenthesis groups in your regular expression. \t \n \r are supported.

Flags:

☐ Dotall

☐ Multiline

☐ Unix lines

☐ Canon EQ

☐ Comments

☐ Literal

☐ Unicode case

☐ Unicode character class

TEST MATCH

REPLACE FIRST

REPLACE ALL

Results
.matches() method: false
.lookingAt() method: false
Showing 1 match:
java version "1.8.0_65"

It shows that it should get the java version installed in the server:

```
java version "1.8.0_65"  
Java(TM) SE Runtime Environment (build 1.8.0_65-b17)  
Java HotSpot(TM) 64-Bit Server VM (build 25.65-b01, mixed mode)
```

So we wonder, how do we know if ensemble has read/write/execution rights to execute the command, which is being seen in the line:

```
// java -version prints to std err, not std out, so we need to redirect otherwise command pipe output will be empty  
Set versionCmd = javaExecutable_ -version 2>&1"  
Do ##class(%Net.Remote.Utility).RunCommandViaCPIPE(versionCmd,.pDevice,.pOutput)
```

How could we investigate and solve this?

We have read:

<https://docs.intersystems.com/irislatest/csp/docbook/DocBook.UI.Page.cls...>

<https://community.intersystems.com/post/execute-server-commands-cach%C3%...>

[#ObjectScript](#) [#Caché](#)

[zgetjavaversion22netremoteservice1-%E2%80%BD%E2%80%BD](#)