

PMI Deep Learning network step - The...



Ingo Levin 10 posts since Apr 12, 2018

PMI Deep Learning network step - The following engines are unavailable (check configuration): Python - Scikit-learn R - MLR Spark - MLlib DL4j Nov 16, 2018 4:19 PM

Having upgrade to the latest PMI 1.4 from Marketplace, I am getting the following error message opening the **PMI Deep Learning network** step:

```
"The following engines are unavailable (check configuration): Python - Scikit-learn R - MLR Spark - MLlib DL4j"
```

This only happens on the Deep Learning step, the other PMI steps work fine. I suspect it is not installing/loading the DJ4j lib correctly.

On the console

```
java.lang.ClassNotFoundException: weka.python.PythonSession
    at java.net.URLClassLoader.findClass(Unknown Source)
    at java.lang.ClassLoader.loadClass(Unknown Source)
    at java.lang.ClassLoader.loadClass(Unknown Source)
    at org.pentaho.di.core.plugins.KettleURLClassLoader.loadClassFromParent(
KettleURLClassLoader.java:94)
    at org.pentaho.di.core.plugins.KettleURLClassLoader.loadClass(KettleURLC
lassLoader.java:114)
    at java.lang.ClassLoader.loadClass(Unknown Source)
    at java.lang.Class.forName0(Native Method)
    at java.lang.Class.forName(Unknown Source)
    at weka.core.WekaPackageClassLoaderManager.forName(WekaPackageClassLoade
rManager.java:206)
    at weka.core.WekaPackageClassLoaderManager.forName(WekaPackageClassLoade
rManager.java:186)
    at org.pentaho.pmi.engines.PythonEngine.<clinit>(PythonEngine.java:58)
    at org.pentaho.pmi.PMIEngine.init(PMIEngine.java:86)
    at org.pentaho.pmi.PMIEngine.getEngineNames(PMIEngine.java:100)
    at org.pentaho.di.ui.trans.steps.pmi.BaseSupervisedPMIStepDialog.addConf
igTab(BaseSupervisedPMIStepDialog.java:719)
    at org.pentaho.di.ui.trans.steps.pmi.BaseSupervisedPMIStepDialog.open(Ba
seSupervisedPMIStepDialog.java:358)
    at org.pentaho.di.ui.spoon.delegates.SpoonStepsDelegate.editStep(SpoonSt
epsDelegate.java:120)
    at org.pentaho.di.ui.spoon.Spoon.editStep(Spoon.java:8949)
```

PMI Deep Learning network step - The...

Tried these troubleshooting steps:

1) remove the ~\wekafiles directory

2) Re-Installed all R packages. Now have

```
> packageVersion('JavaGD')
[1] '0.6.1'
> packageVersion('XML')
[1] '3.98.1.9'
> packageVersion('LiblineaR')
[1] '2.10.8'
> packageVersion('e1071')
[1] '1.6.8'
> packageVersion('randomForest')
[1] '4.6.12'
> packageVersion('nnet')
[1] '7.3.12'
> packageVersion('gbm')
[1] '2.1.3'
```

3) Ran pyCheck.py. No errors.

```
C:\Users\lingo>python wekafiles/packages/wekaPython/resources/py/pyCheck.py

C:\Users\lingo>
```

4) Started Spoon. Having removed the wekafiles folder earlier, it forced a fresh download of all the packages.

5) Restarted Spoon. Created new Transformation and added the Deep Learning step:

Still getting the same error when I attempt to open the step.

Tags: pmi, deeplearning



[Mark Hall](#) 14 posts since May 13, 2016

Re: PMI Deep Learning network step - The following engines are unavailable (check configuration): Python - Scikit-learn R - MLR Spark - MLib DL4j Nov 16, 2018 7:40 PM

Did you remove your old version of PMI from <PDI install directory>/plugins/steps? The old PMI plugin directory is called "pmi". Version 1.4 installs into a new directory called "plugin-machine-intelligence". The install docs specify that it is necessary to remove the old one first. If ~\wekafiles has been cleaned out and pmi removed, then the install procedure will be: 1) Install PMI from marketplace; 2) restart Spoon; 3) PMI will automatically install all Weka-related packages; 4) restart Spoon to ensure that the Weka packages are loaded correctly.

PMI Deep Learning network step - The...

Note that with the new version of the R integration in Weka (RPlugin), it is no longer necessary to have the R_HOME and R_LIBS_USER environment variables set. As long as R is in the registry, and available on the PATH, then Weka's R integration should be able to locate the necessary libraries etc. automatically.

Cheers,

Mark.



[Ingo Levin](#) 10 posts since Apr 12, 2018

Re: PMI Deep Learning network step - The following engines are unavailable (check configuration): Python - Scikit-learn R - MLR Spark - MLib DL4j Nov 17, 2018 11:09 PM

Mark, thank you! That was indeed the problem: I had not removed the pmi folder in the plugins/steps folder. After having done so, and re-installing the plugin + the wekafiles, it is working now.

However I could not find this in the install docs. I was following PMI_v_1_4_Installation__Windows_.pdf from Oct 23, 2018 and in Chapter 2.2 INSTALL PENTAHO MACHINE INTELLIGENCE (PMI) it doesn't say anything about removing the pmi folder:

PMI is available from the PDI Marketplace. Simply open the Marketplace view in PDI and click

the Install button alongside the Plugin Machine Intelligence entry.

The first time PDI is launched after installing the PMI plugin there will be several minutes added to the start-up time during which WEKA will install the packages necessary to support

the various execution engines. Again, this requires a connection to the internet. For the curious,

the packages include:

- wekaPython

(<http://weka.sourceforge.net/packageMetaData/wekaPython/index.html>)

- RPlugin

(<http://weka.sourceforge.net/packageMetaData/RPlugin/index.html>)

- distributedWekaBase

(<http://weka.sourceforge.net/packageMetaData/distributedWekaBase/index.html>)

- distributedWekaSparkDev

(<http://weka.sourceforge.net/packageMetaData/distributedWekaSparkDev/index.html>)

- wekaDeeplearning4j

(<https://deeplearning.cms.waikato.ac.nz/>)

It is recommended to run PDI Spoon using the SpoonConsole batch file, so that you can verify

that the WEKA packages are being downloaded and installed successfully (as shown in Figure

PMI Deep Learning network step - The...

7).

It is also important to re-start PDI after the initial WEKA package installation process completes and the Spoon user interface appears. This is to ensure that the newly installed WEKA packages are loaded properly. Note that this re-start is required just once—i.e. after the initial installation of WEKA packages.



[Mark Hall](#) 14 posts since May 13, 2016

Re: PMI Deep Learning network step - The following engines are unavailable (check configuration): Python - Scikit-learn R - MLR Spark - MLlib DL4j Nov 18, 2018 9:04 PM

Hi Ingo,

We only officially released PMI version 1.4 last week. October 23 would have been a draft of the install documents :-). Did you access this from the github repository for PMI? If so, grab another copy and you will find the following (in bold) on page 9:

NOTE: If you have an older version of PMI already installed, please remove it first by deleting the pmi sub-folder from plugins\steps in your PDI installation.

Cheers,
Mark.



[Ingo Levin](#) 10 posts since Apr 12, 2018

Re: PMI Deep Learning network step - The following engines are unavailable (check configuration): Python - Scikit-learn R - MLR Spark - MLlib DL4j Nov 19, 2018 11:05 PM

Mark, I've got it from here: [PMI Installation, Developer Guide and Sample/Demos > PMI_v_1_4_Installation__Windows_.pdf](#) ... and I can't find the paragraph you are quoting in there..



[Puchatek Kubus](#) 7 posts since Apr 10, 2019

Re: PMI Deep Learning network step - The following engines are unavailable (check configuration): Python - Scikit-learn R - MLR Spark - MLlib DL4j May 19, 2019 9:55 AM

I Have same problem. Every step from "Data mining" group generate "The following engines are unavailable (check configuration): Python - Scikit-learn R - MLR DL4j" error when I click on it. Then step menu opens. Anyway, these steps do not see streams from previous steps (I think there is another problem with these steps not only scikit-learn).

PMI Deep Learning network step - The...

I followed your instruction. R is installed, Python (Anaconda) is installed (there should be better way to obtain Python - Anaconda is a huge amount of sh...). I installed scikit-learn in Anaconda (I think by default this is not installed) - "conda install scikit-learn". I added R_HOME (not true that this is not needed - without that Pentaho PDI will NOT start).

Yet for some reason this error keeps display. What it means exactly? Maybe I need to manually copy some library into PDI?

What this error exactly means? How to verify if environment is working?

This is fresh installation of PDI so there was no old plugin.



[Mark Hall](#) 14 posts since May 13, 2016

Re: PMI Deep Learning network step - The following engines are unavailable (check configuration): Python - Scikit-learn R - MLR Spark - MLlib DL4j May 19, 2019 10:04 PM

Hmm. Perhaps the Weka packages (wekaPython, RPlugin, wekaDeeplearning4j) did not get installed the first time you re-started PDI after installing PMI? You can check by looking in `${user.home}/wekafiles/packages`. If you have been using Weka as a stand-alone tool in the past, then I'd suggest blowing away `${user.home}/wekafiles` and allowing the PMI plugin to re-install the required Weka packages (in case there are version clashes). Weka's R integration no longer requires R_HOME or R_LIBS_USER to be set. This has been verified on all three major OS's with the most recent release of the RPlugin Weka package. PDI's R script executor still requires (I believe) R_HOME to be set. However, if you are not using this step then it should not cause any issues. Also make sure that you are using a fairly recent version of R (≥ 3.5). We have kept up with changes to the MLR R package, but maintaining full backwards compatibility is not feasible. Anaconda ships with scikit-learn, so there is no need to install this again. Which version of Anaconda are you using? Note that python virtual environments are not supported. It is possible to use other python distributions as long as the required dependencies are installed. Although huge, Anaconda is an easy way to get started.

If you continue to have issues, then PDI logs, stack traces etc. are useful when trying to provide help - otherwise I'm just speculating.

Cheers,

Mark.



[Puchatek Kubus](#) 7 posts since Apr 10, 2019

Re: PMI Deep Learning network step - The following engines are unavailable (check configuration): Python - Scikit-learn R - MLR Spark - MLlib DL4j May 20, 2019 6:31 PM

Hi Mark,

thank you for your reply.

Once again I installed this plugin - on another PC. I had not installed neither Weka nor PMI plugin before on this PC. PDI 8.2. No other plugins installed. I installed Anaconda 3.7 version and R 3.6.0. This time I could run PDI without adding R_HOME.

I start PDI using SpoonConsole.bat. Just like before I see Data Mining steps yet after clicking on one of them there is an error: "The following engines are unavailable (check configuration): Python - Scikit-learn"

What I see in spoon.log is:

```
maj 20, 2019 8:27:03 PM org.apache.karaf.main.Main$KarafLockCallback lockAcquired
INFO: Lock acquired. Setting startlevel to 100
2019-05-20 20:27:06.047:INFO:oejs.Server:jetty-8.1.15.v20140411
2019-05-20 20:27:06.075:INFO:oejs.AbstractConnector:Started
NIOSocketConnectorWrapper@0.0.0.0:9051
maj 20, 2019 8:27:06 PM org.apache.cxf.bus.blueprint.NamespaceHandlerRegisterer
register
INFO: Registered blueprint namespace handler for http://cxf.apache.org/blueprint/core
maj 20, 2019 8:27:06 PM org.apache.cxf.bus.blueprint.NamespaceHandlerRegisterer
register
INFO: Registered blueprint namespace handler for http://cxf.apache.org/configuration/beans
maj 20, 2019 8:27:06 PM org.apache.cxf.bus.blueprint.NamespaceHandlerRegisterer
register
INFO: Registered blueprint namespace handler for http://cxf.apache.org/configuration/parameterized-types
maj 20, 2019 8:27:06 PM org.apache.cxf.bus.blueprint.NamespaceHandlerRegisterer
register
INFO: Registered blueprint namespace handler for http://cxf.apache.org/configuration/security
maj 20, 2019 8:27:06 PM org.apache.cxf.bus.blueprint.NamespaceHandlerRegisterer
register
INFO: Registered blueprint namespace handler for http://schemas.xmlsoap.org/wsdl/
maj 20, 2019 8:27:06 PM org.apache.cxf.bus.blueprint.NamespaceHandlerRegisterer
register
INFO: Registered blueprint namespace handler for http://www.w3.org/2005/08/addressing
maj 20, 2019 8:27:06 PM org.apache.cxf.bus.blueprint.NamespaceHandlerRegisterer
register
INFO: Registered blueprint namespace handler for http://schemas.xmlsoap.org/ws/2004/08/addressing
```

```
maj 20, 2019 8:27:06 PM org.apache.cxf.bus.osgi.CXFExtensionBundleListener
addExtensions
INFO: Adding the extensions from bundle org.apache.cxf.cxf-rt-management (195)
[org.apache.cxf.management.InstrumentationManager]
maj 20, 2019 8:27:06 PM org.apache.cxf.bus.osgi.CXFExtensionBundleListener
addExtensions
INFO: Adding the extensions from bundle org.apache.cxf.cxf-rt-wsdl (198)
[org.apache.cxf.wsdl.WSDLManager]
maj 20, 2019 8:27:06 PM org.apache.cxf.bus.osgi.CXFExtensionBundleListener
addExtensions
INFO: Adding the extensions from bundle org.apache.cxf.cxf-rt-
bindings-xml (200) [org.apache.cxf.binding.xml.XMLBindingFactory,
org.apache.cxf.binding.xml.wsdl11.XMLWSDLExtensionLoader]
maj 20, 2019 8:27:06 PM org.apache.cxf.bus.osgi.CXFExtensionBundleListener
addExtensions
INFO: Adding the extensions from bundle org.apache.cxf.cxf-rt-
bindings-soap (201) [org.apache.cxf.binding.soap.SoapBindingFactory,
org.apache.cxf.binding.soap.SoapTransportFactory]
maj 20, 2019 8:27:06 PM org.apache.cxf.bus.blueprint.NamespaceHandlerRegisterer
register
INFO: Registered blueprint namespace handler for http://cxf.apache.org/blueprint/bindings/
soap
maj 20, 2019 8:27:06 PM org.apache.cxf.bus.osgi.CXFExtensionBundleListener
addExtensions
INFO: Adding the extensions from bundle org.apache.cxf.cxf-rt-transport-
http (202) [org.apache.cxf.transport.http.HTTPTransportFactory,
org.apache.cxf.transport.http.HTTPWSDLExtensionLoader,
org.apache.cxf.transport.http.policy.HTTPClientAssertionBuilder,
org.apache.cxf.transport.http.policy.HTTPServerAssertionBuilder,
org.apache.cxf.transport.http.policy.NoOpPolicyInterceptorProvider]
maj 20, 2019 8:27:06 PM org.apache.cxf.bus.osgi.CXFExtensionBundleListener
addExtensions
INFO: Adding the extensions from bundle org.apache.cxf.cxf-
rt-ws-policy (220) [org.apache.cxf.ws.policy.PolicyEngine,
org.apache.cxf.policy.PolicyDataEngine, org.apache.cxf.ws.policy.AssertionBuilderRegistry,
org.apache.cxf.ws.policy.PolicyInterceptorProviderRegistry,
org.apache.cxf.ws.policy.PolicyBuilder, org.apache.cxf.ws.policy.PolicyAnnotationListener,
org.apache.cxf.ws.policy.attachment.ServiceModelPolicyProvider,
```

```
org.apache.cxf.ws.policy.attachment.external.DomainExpressionBuilderRegistry,  
org.apache.cxf.ws.policy.attachment.external.EndpointReferenceDomainExpressionBuilder,  
org.apache.cxf.ws.policy.attachment.external.URIDomainExpressionBuilder,  
org.apache.cxf.ws.policy.attachment.wsd111.Wsd111AttachmentPolicyProvider,  
org.apache.cxf.ws.policy.mtom.MTOMAssertionBuilder,  
org.apache.cxf.ws.policy.mtom.MTOMPolicyInterceptorProvider]
```

```
maj 20, 2019 8:27:06 PM org.apache.cxf.bus.blueprint.NamespaceHandlerRegisterer  
register
```

```
INFO: Registered blueprint namespace handler for http://cxf.apache.org/transports/http/  
configuration
```

```
maj 20, 2019 8:27:06 PM org.apache.cxf.bus.blueprint.NamespaceHandlerRegisterer  
register
```

```
INFO: Registered blueprint namespace handler for http://cxf.apache.org/blueprint/simple
```

```
maj 20, 2019 8:27:06 PM org.apache.cxf.bus.osgi.CXFExtensionBundleListener  
addExtensions
```

```
INFO: Adding the extensions from bundle org.apache.cxf.cxf-rt-frontent-jaxws (204)  
[org.apache.cxf.jaxws.context.WebServiceContextResourceResolver]
```

```
maj 20, 2019 8:27:06 PM org.apache.cxf.bus.blueprint.NamespaceHandlerRegisterer  
register
```

```
INFO: Registered blueprint namespace handler for http://cxf.apache.org/blueprint/jaxws
```

```
maj 20, 2019 8:27:06 PM org.apache.cxf.bus.blueprint.NamespaceHandlerRegisterer  
register
```

```
INFO: Registered blueprint namespace handler for http://cxf.apache.org/blueprint/jaxrs
```

```
maj 20, 2019 8:27:06 PM org.apache.cxf.bus.blueprint.NamespaceHandlerRegisterer  
register
```

```
INFO: Registered blueprint namespace handler for http://cxf.apache.org/blueprint/jaxrs-  
client
```

```
maj 20, 2019 8:27:06 PM org.apache.cxf.bus.blueprint.NamespaceHandlerRegisterer  
register
```

```
INFO: Registered blueprint namespace handler for http://cxf.apache.org/binding/coloc
```

```
maj 20, 2019 8:27:06 PM org.apache.cxf.bus.osgi.CXFExtensionBundleListener  
addExtensions
```

```
INFO: Adding the extensions from bundle org.apache.cxf.cxf-rt-transports-local (216)  
[org.apache.cxf.transport.local.LocalTransportFactory]
```

```
maj 20, 2019 8:27:06 PM org.apache.cxf.bus.osgi.CXFExtensionBundleListener  
addExtensions
```



```
INFO: Adding the extensions from bundle org.apache.cxf.cxf-rt-bindings-object (217)
[org.apache.cxf.binding.object.ObjectBindingFactory]
maj 20, 2019 8:27:06 PM org.apache.cxf.bus.blueprint.NamespaceHandlerRegisterer
register
INFO: Registered blueprint namespace handler for http://cxf.apache.org/blueprint/binding/object
maj 20, 2019 8:27:06 PM org.apache.cxf.bus.blueprint.NamespaceHandlerRegisterer
register
INFO: Registered blueprint namespace handler for http://cxf.apache.org/policy
maj 20, 2019 8:27:06 PM org.apache.cxf.bus.blueprint.NamespaceHandlerRegisterer
register
INFO: Registered blueprint namespace handler for http://www.w3.org/ns/ws-policy
maj 20, 2019 8:27:06 PM org.apache.cxf.bus.blueprint.NamespaceHandlerRegisterer
register
INFO: Registered blueprint namespace handler for http://www.w3.org/2006/07/ws-policy
maj 20, 2019 8:27:06 PM org.apache.cxf.bus.blueprint.NamespaceHandlerRegisterer
register
INFO: Registered blueprint namespace handler for http://schemas.xmlsoap.org/ws/2004/09/policy
maj 20, 2019 8:27:06 PM org.apache.cxf.bus.blueprint.NamespaceHandlerRegisterer
register
INFO: Registered blueprint namespace handler for http://docs.oasis-open.org/wss/2004/01/oasis-200401-wss-wssecurity-secext-1.0.xsd
maj 20, 2019 8:27:06 PM org.apache.cxf.bus.blueprint.NamespaceHandlerRegisterer
register
INFO: Registered blueprint namespace handler for http://docs.oasis-open.org/wss/2004/01/oasis-200401-wss-wssecurity-utility-1.0.xsd
maj 20, 2019 8:27:06 PM org.apache.cxf.bus.blueprint.NamespaceHandlerRegisterer
register
INFO: Registered blueprint namespace handler for http://www.w3.org/2000/09/xmlsig#
maj 20, 2019 8:27:06 PM org.apache.cxf.bus.blueprint.NamespaceHandlerRegisterer
register
INFO: Registered blueprint namespace handler for http://docs.oasis-open.org/ws-sx/ws-securitypolicy/200702
maj 20, 2019 8:27:06 PM org.apache.cxf.bus.osgi.CXFExtensionBundleListener
addExtensions
```

```
INFO: Adding the extensions from bundle org.apache.cxf.cxf-rt-ws-addr
(237) [org.apache.cxf.ws.addressing.policy.AddressingAssertionBuilder,
org.apache.cxf.ws.addressing.policy.UsingAddressingAssertionBuilder,
org.apache.cxf.ws.addressing.policy.AddressingPolicyInterceptorProvider,
org.apache.cxf.ws.addressing.impl.AddressingWSDLExtensionLoader,
org.apache.cxf.ws.addressing.WSAddressingFeature$WSAddressingFeatureApplier,
org.apache.cxf.ws.addressing.MAPAggregator$MAPAggregatorLoader]
maj 20, 2019 8:27:06 PM org.apache.cxf.bus.blueprint.NamespaceHandlerRegisterer
register
INFO: Registered blueprint namespace handler for http://cxf.apache.org/ws/addressing
maj 20, 2019 8:27:06 PM org.apache.cxf.bus.osgi.CXFExtensionBundleListener
addExtensions
INFO: Adding the extensions from bundle org.apache.cxf.cxf-rt-ws-
security (239) [org.apache.cxf.ws.security.policy.WSSecurityPolicyLoader,
org.apache.cxf.ws.security.cache.CacheCleanupListener]
maj 20, 2019 8:27:06 PM org.apache.cxf.bus.osgi.CXFExtensionBundleListener
addExtensions
INFO: Adding the extensions from bundle org.apache.cxf.cxf-
rt-ws-rm (241) [org.apache.cxf.ws.rm.RMManager,
org.apache.cxf.ws.rm.policy.RMPolicyInterceptorProvider,
org.apache.cxf.ws.rm.policy.RM10AssertionBuilder,
org.apache.cxf.ws.rm.policy.RM12AssertionBuilder,
org.apache.cxf.ws.rm.policy.WSRMP12PolicyLoader,
org.apache.cxf.ws.rm.policy.MC11PolicyLoader,
org.apache.cxf.ws.rm.policy.RSPPolicyLoader]
maj 20, 2019 8:27:06 PM org.apache.cxf.bus.blueprint.NamespaceHandlerRegisterer
register
INFO: Registered blueprint namespace handler for http://cxf.apache.org/ws/rm/manager
maj 20, 2019 8:27:06 PM org.apache.cxf.bus.blueprint.NamespaceHandlerRegisterer
register
INFO: Registered blueprint namespace handler for http://schemas.xmlsoap.org/ws/2005/02/
rm/policy
maj 20, 2019 8:27:06 PM org.apache.cxf.bus.osgi.CXFExtensionBundleListener
addExtensions
INFO: Adding the extensions from bundle org.apache.cxf.cxf-rt-javascript (242)
[org.apache.cxf.javascript.JavascriptServerListener]
maj 20, 2019 8:27:07 PM org.pentaho.caching.impl.PentahoCacheManagerFactory
$RegistrationHandler$1 onSuccess
```

```
INFO: New Caching Service registered
2019-05-20 20:27:07 weka.gui.GenericObjectEditor registerEditors
INFO: ---Registering Weka Editors---
SLF4J: Class path contains multiple SLF4J bindings.
SLF4J: Found binding in [jar:file:/E:/_WorkingSpace/Utils/Pentaho/pdi-ce-8.2.0.0-342/data-integration/launcher/./lib/slf4j-log4j12-1.7.7.jar!/org/slf4j/impl/StaticLoggerBinder.class]
SLF4J: Found binding in [jar:file:/E:/_WorkingSpace/Utils/Pentaho/pdi-ce-8.2.0.0-342/data-integration/plugins/pentaho-big-data-plugin/lib/slf4j-log4j12-1.7.7.jar!/org/slf4j/impl/StaticLoggerBinder.class]
SLF4J: See http://www.slf4j.org/codes.html#multiple\_bindings for an explanation.
SLF4J: Actual binding is of type [org.slf4j.impl.Log4jLoggerFactory]
Found variable JAVA_HOME with value C:\Program Files\Java\jdk1.8.0_181 in Java cache of environment.
maj 20, 2019 8:27:08 PM org.apache.cxf.endpoint.ServerImpl initDestination
INFO: Setting the server's publish address to be /lineage
Did not find variable R_HOME in Java cache or process environment.
Setting R_HOME to C:\Program Files\R\R-3.6.0
Did not find variable R_LIBS_USER in Java cache or process environment.
maj 20, 2019 8:27:08 PM org.apache.cxf.endpoint.ServerImpl initDestination
INFO: Setting the server's publish address to be /i18n
maj 20, 2019 8:27:09 PM org.apache.cxf.endpoint.ServerImpl initDestination
INFO: Setting the server's publish address to be /marketplace
Setting R_LIBS_USER to C:\\Users\\podunk\\Documents\R\\win-library\3.6
Found rJava installed in C:\Users\podunk\Documents\R\win-library\3.6\rJava
Getting parent classloader....
Getting parent classloader....
Injecting JRI classes into the root class loader...
Detected Windows 64 bit OS
Trying to load R library from C:\Users\podunk\Documents\R\win-library\3.6\rJava\jri\x64\jri.dll
Engine class: class org.rosuda.JRI.Rengine ClassLoader:sun.misc.Launcher$ExtClassLoader@59fa1d9b
Successfully loaded R library from C:\Users\podunk\Documents\R\win-library\3.6\rJava\jri\x64\jri.dll
```

```
Getting REngine....
maj 20, 2019 8:27:09 PM org.apache.cxf.endpoint.ServerImpl initDestination
INFO: Setting the server's publish address to be /repositories
Setting a default package mirror in R...
Finished creating engine.
maj 20, 2019 8:27:09 PM org.apache.cxf.endpoint.ServerImpl initDestination
INFO: Setting the server's publish address to be /browser
maj 20, 2019 8:27:09 PM org.apache.cxf.endpoint.ServerImpl initDestination
INFO: Setting the server's publish address to be /get-fields
Successfully loaded library 'JavaGD'.
Problem with 'weka.classifiers.functions.supportVector.RegOptimizer':
java.lang.ClassNotFoundException: weka.classifiers.functions.supportVector.RegOptimizer
2019-05-20 20:27:09 weka.experiment.DatabaseUtils initialize
WARNING: Trying to add database driver (JDBC): jdbc.idbDriver - Warning, not in
CLASSPATH?
Problem with 'weka.classifiers.functions.supportVector.RegOptimizer':
java.lang.ClassNotFoundException: weka.classifiers.functions.supportVector.RegOptimizer
Problem with 'weka.classifiers.functions.supportVector.RegOptimizer':
java.lang.ClassNotFoundException: weka.classifiers.functions.supportVector.RegOptimizer
2019-05-20 20:27:10 weka.gui.beans.BeansProperties loadProperties
INFO: [KnowledgeFlow] Loading properties and plugins...
2019-05-20 20:27:10 weka.gui.beans.KnowledgeFlowApp init
INFO: [KnowledgeFlow] Initializing KF...
2019/05/20 20:27:14 - Carte - Installing timer to purge stale objects after 1440 minutes.
```

What other details I can provide to find the problem?

Regards



[Puchatek Kubus](#) 7 posts since Apr 10, 2019

Re: PMI Deep Learning network step - The following engines are unavailable (check configuration): Python - Scikit-learn R - MLR Spark - MLlib DL4j May 20, 2019 7:17 PM

When I try to launch example 'build_models' transformation:

```
2019/05/20 21:14:42 - Spoon - Using legacy execution engine
2019/05/20 21:14:42 - Spoon - Transformation opened.
```

```
2019/05/20 21:14:42 - Spoon - Launching transformation [build_models]...
2019/05/20 21:14:42 - Spoon - Started the transformation execution.
2019/05/20 21:14:42 - build_models - Dispatching started for transformation [build_models]
2019/05/20 21:14:43 - PMI Gradient Boosted Trees (Python).0 - ERROR (version
8.2.0.0-342, build 8.2.0.0-342 from 2018-11-14 10.30.55 by buildguy) :
2019/05/20 21:14:43 - PMI Gradient Boosted Trees (Python).0 - Engine not available:
Python - Scikit-learn

2019/05/20 21:14:43 - PMI Gradient Boosted Trees (Python).0 - ERROR
(version 8.2.0.0-342, build 8.2.0.0-342 from 2018-11-14 10.30.55 by buildguy) :
org.pentaho.di.core.exception.KettleException:
2019/05/20 21:14:43 - PMI Gradient Boosted Trees (Python).0 - Engine not available:
Python - Scikit-learn

2019/05/20 21:14:43 - PMI Gradient Boosted Trees (Python).0 -
2019/05/20 21:14:43 - PMI Gradient Boosted Trees (Python).0 - at
org.pentaho.di.trans.steps.pmi.BaseSupervisedPMIStep.init(BaseSupervisedPMIStep.java:107)
2019/05/20 21:14:43 - PMI Gradient Boosted Trees (Python).0 - at
org.pentaho.di.trans.step.StepInitThread.run(StepInitThread.java:69)
2019/05/20 21:14:43 - PMI Gradient Boosted Trees (Python).0 - at
java.lang.Thread.run(Thread.java:748)
2019/05/20 21:14:43 - PMI Gradient Boosted Trees (Python).0 - ERROR (version
8.2.0.0-342, build 8.2.0.0-342 from 2018-11-14 10.30.55 by buildguy) : Error initializing step
[PMI Gradient Boosted Trees (Python)]
2019/05/20 21:14:43 - build_models - ERROR (version 8.2.0.0-342, build 8.2.0.0-342 from
2018-11-14 10.30.55 by buildguy) : Step [PMI Gradient Boosted Trees (Python).0] failed to
initialize!
2019/05/20 21:14:43 - Spoon - ERROR (version 8.2.0.0-342, build 8.2.0.0-342 from
2018-11-14 10.30.55 by buildguy) : build_models: preparing transformation execution failed
2019/05/20 21:14:43 - Spoon - ERROR (version 8.2.0.0-342, build 8.2.0.0-342 from
2018-11-14 10.30.55 by buildguy) : org.pentaho.di.core.exception.KettleException:
2019/05/20 21:14:43 - Spoon - We failed to initialize at least one step. Execution can not
begin!
2019/05/20 21:14:43 - Spoon -
2019/05/20 21:14:43 - Spoon -
2019/05/20 21:14:43 - Spoon - at
org.pentaho.di.trans.Trans.prepareExecution(Trans.java:1272)
```

PMI Deep Learning network step - The...

```
2019/05/20 21:14:43 - Spoon - at org.pentaho.di.ui.spoon.trans.TransGraph
$30.run(TransGraph.java:4287)
2019/05/20 21:14:43 - Spoon - at java.lang.Thread.run(Thread.java:748)
2019/05/20 21:14:43 - build_models - ERROR (version 8.2.0.0-342, build 8.2.0.0-342 from
2018-11-14 10.30.55 by buildguy) : Errors detected!
2019/05/20 21:14:43 - build_models - ERROR (version 8.2.0.0-342, build 8.2.0.0-342 from
2018-11-14 10.30.55 by buildguy) : Errors detected!
```



[Mark Hall](#) 14 posts since May 13, 2016

Re: PMI Deep Learning network step - The following engines are unavailable (check configuration): Python - Scikit-learn R - MLR Spark - MLlib DL4j May 22, 2019 1:56 AM

OK, this is an improvement - you only have one engine unavailable now :-). Is the python executable in your PATH? Did you install Anaconda system wide or just for your user? In the past, there have been some issues with system-wide installations of python (something to do with file permissions and not due to PMI/Weka as such).

Cheers,
Mark.



[Puchatek Kubus](#) 7 posts since Apr 10, 2019

Re: PMI Deep Learning network step - The following engines are unavailable (check configuration): Python - Scikit-learn R - MLR Spark - MLlib DL4j May 22, 2019 8:33 AM

Yes. I added two variables to user PATH:

C:\Users\xxxx\AppData\Local\Continuum\anaconda3

C:\Program Files\R\R-3.6.0\bin\x64

This time I installed (another PC) Anaconda only for user.

Still error 'The following engines are unavailable (check configuration): Python - Scikit-learn'



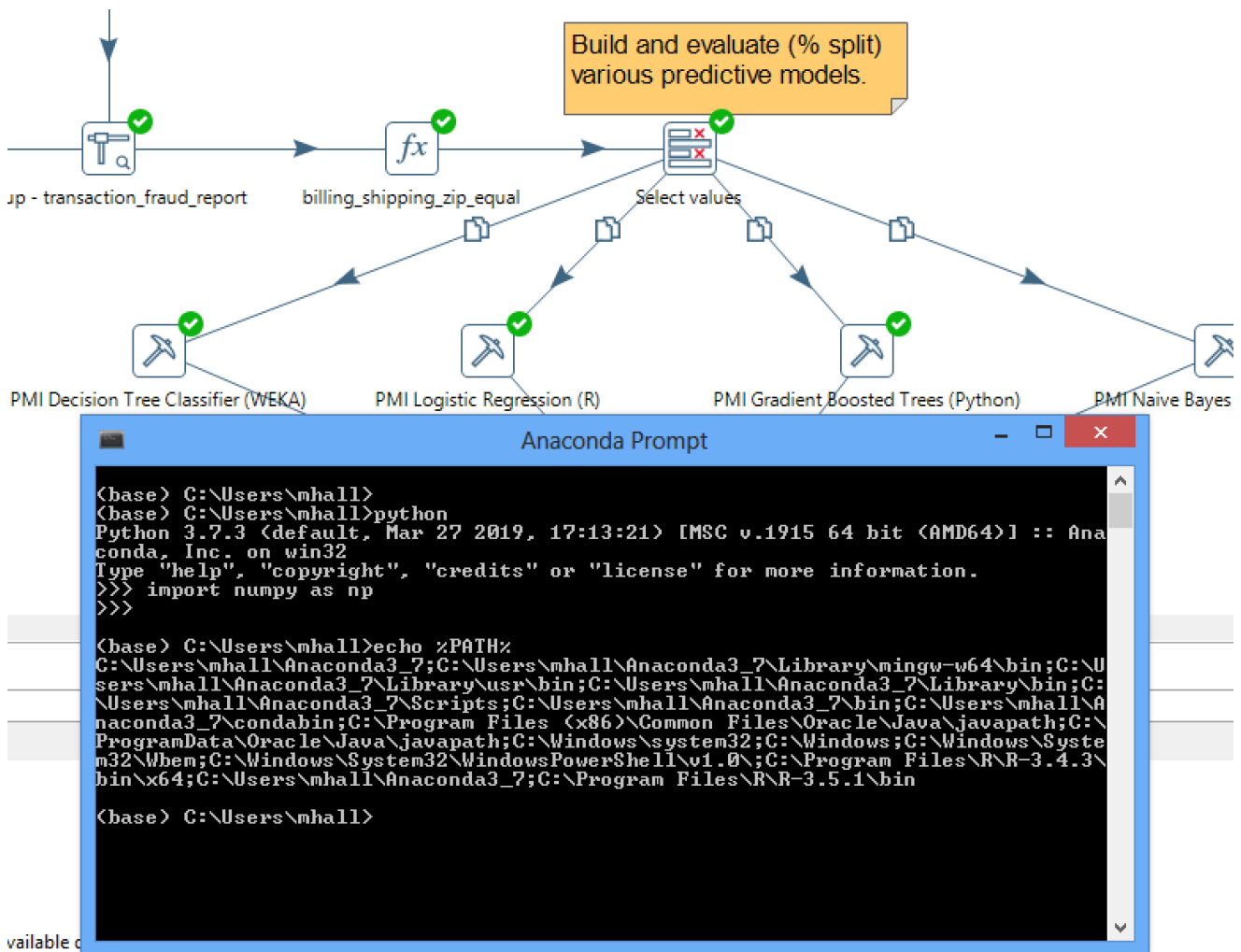
[Mark Hall](#) 14 posts since May 13, 2016

Re: PMI Deep Learning network step - The following engines are unavailable (check configuration): Python - Scikit-learn R - MLR Spark - MLlib DL4j May 23, 2019 12:08 AM

Argh! It appears that Anaconda have complicated things in their most recent release. It used to be the case that the installer would add a single entry to your PATH variable for you automatically (and this could be seen when viewing/editing environment variables in System Properties). This is no longer the case and, in fact, it doesn't seem to add any entries to the PATH now! Instead, you are expected to use an "Anaconda prompt" instead of just a "Command prompt" when using python from a console. As you can see in my screenshot, when you start an "Anaconda prompt" it adds a whole bunch of (temporary) entries to your PATH. You will need to copy these entries and add them to the PATH via System Properties/Environment variables. After I did this, the python engine (and the example transformation) was fully operational.

PMI Deep Learning network step - The...

Cheers,
Mark.



ModelFilter - F:\tools\filters\user_defined\attribs\Personal\less - M 00 0" - F:\tools\filters\user_defined\attribs\Personal\T-Discov - R first last"



[Puchatek Kubus](#) 7 posts since Apr 10, 2019

Re: PMI Deep Learning network step - The following engines are unavailable (check configuration): Python - Scikit-learn R - MLR Spark - MLlib DL4j May 23, 2019 9:49 AM

Did not help at all. Still " The following engines are unavailable (check configuration): Python - Scikit-learn"
What I added to Paht for user (not system):

C:\Users\SomeUser\AppData\Local\Continuum\anaconda3;

C:\Users\SomeUser\AppData\Local\Continuum\anaconda3\Library\mingw-w64\bin;

C:\Users\SomeUser\AppData\Local\Continuum\anaconda3\Library\usr\bin;

PMI Deep Learning network step - The...

```
C:\Users\SomeUser\AppData\Local\Continuum\anaconda3\Library\bin;  
C:\Users\SomeUser\AppData\Local\Continuum\anaconda3\Scripts;  
C:\Users\SomeUser\AppData\Local\Continuum\anaconda3\bin;  
C:\Users\SomeUser\AppData\Local\Continuum\anaconda3\condabin;  
C:\Program Files (x86)\Common Files\Oracle\Java\javapath;  
C:\Program Files (x86)\Intel\iCLS Client\;  
C:\Program Files\Intel\iCLS Client\;  
C:\WINDOWS\system32;  
C:\WINDOWS;  
C:\WINDOWS\System32\Wbem;  
C:\WINDOWS\System32\WindowsPowerShell\v1.0\;  
C:\Program Files (x86)\Intel\Intel(R) Management Engine Components\DAL;  
C:\Program Files\Intel\Intel(R) Management Engine Components\DAL;  
C:\Program Files (x86)\Intel\Intel(R) Management Engine Components\IPT;  
C:\Program Files\Intel\Intel(R) Management Engine Components\IPT;  
C:\WINDOWS\System32\OpenSSH\;  
C:\Users\SomeUser\AppData\Local\Microsoft\WindowsApps;  
C:\Users\SomeUser\AppData\Local\Continuum\anaconda3;  
C:\Program Files\R\R-3.6.0\bin\x64;
```



[Mark Hall](#) 14 posts since May 13, 2016

Re: PMI Deep Learning network step - The following engines are unavailable (check configuration): Python - Scikit-learn R - MLR Spark - MLlib DL4j May 23, 2019 9:39 PM

Hmm. I'm running out of suggestions. I figured that I'd reproduced your problem with the latest version of Anaconda python, and adding the additional paths got things working for me again under Windows 8. Can you verify that python starts and that various packages can be imported from a Command prompt (not an Anaconda prompt) - i.e:

```
python  
>>> import socket  
>>> import struct  
>>> import os  
>>> import json  
>>> import base64  
>>> import math  
>>> import traceback
```


PMI Deep Learning network step - The...

```
>>> import numpy as np
>>> import pandas as pd
>>> from sklearn import *
>>> import matplotlib.pyplot as plt
>>> from io import StringIO
>>> from io import BytesIO
```

Which version of PDI are you running?

Cheers,
Mark.



[Puchatek Kubus](#) 7 posts since Apr 10, 2019

Re: PMI Deep Learning network step - The following engines are unavailable (check configuration): Python - Scikit-learn R - MLR Spark - MLlib DL4j May 24, 2019 8:05 AM

Hi Mark,
thanks to your patience.

I think this is because of this crap conda or anaconda... you name it.

When I run Python from command line:

```
C:\Users\SimeUser>python
Python 3.7.3 (default, Mar 27 2019, 17:13:21) [MSC v.1915 64 bit (AMD64)] :: Anaconda,
Inc. on win32

Warning:

This Python interpreter is in a conda environment, but the environment has
not been activated. Libraries may fail to load. To activate this environment
please see https://conda.io/activation
```

Type "help", "copyright", "credits" or "license" for more information.

```
>>>
```

This sh... requires some 'activation'. God only knows for what. But anyway it does not work after 'activation'.

Managing environments — conda 4.7.0.post7+18c4e5dc documentation

I tried 'conda activate path-to-this-s..'

Executed without any error but changed nothing.

So I tried another trick according what they say:

```
conda create -n py37 python=3.7.3 anaconda
```

```
activate py37
```

PMI Deep Learning network step - The...

Again, it executed without problem but did nothing.

Maybe this 'activation' should be in Pentaho startup script?

Win restart changes nothing... cries that is not activated.

I'm running PDI 8.2

Regards



[Puchatek Kubus](#) 7 posts since Apr 10, 2019

Re: PMI Deep Learning network step - The following engines are unavailable (check configuration): Python - Scikit-learn R - MLR Spark - MLlib DL4j May 25, 2019 8:10 PM

I made another try. When I type 'activate myenv' in command prompt it starts conda. Then 'python' - still OK. I type 'import sklearn' - still OK.

But Pentaho plugin says 'Engine not available: Python - Scikit-learn'.

Conclusion; this plugin if it was intended to work with this conda something must be able to run 'activate ..' during startup. If it is not able to activate this conda something env - it will never work.

I still believe this conda software is just crap. Plugin should work with pure Python or/and R.



[Mark Hall](#) 14 posts since May 13, 2016

Re: PMI Deep Learning network step - The following engines are unavailable (check configuration): Python - Scikit-learn R - MLR Spark - MLlib DL4j May 28, 2019 9:48 PM

As I said earlier, PMI's python engine is not compatible with python virtual environments (as managed by conda). I don't use conda - just python directly from the Anaconda prompt (and standard Command prompt once the necessary entries to the PATH variable were added). When I tested using the latest version of Anaconda recently, I did not do *anything* beyond installing Anaconda (locally for my user) and ascertaining which entries were required in the PATH and adding those via System properties/Environment variables.

Cheers,

Mark.