

CzechIdM - Task #1719

Improve error message

06/12/2019 11:37 AM - Tomáš Doischer

Status:	Closed	Start date:	06/12/2019
Priority:	Low	Due date:	
Assignee:	Ondrej Husník	% Done:	100%
Category:	Scripts	Estimated time:	0.00 hour
Target version:	10.3.0		

Description

When creating a transformation script, an error is reported in a mysterious way. This is the script:

```
import eu.bcvsolutions.idm.core.api.dto.IdmIdentityDto;
import eu.bcvsolutions.idm.acc.exception.SynchronizationException;
import eu.bcvsolutions.idm.core.api.dto.filter.IdmIdentityFilter;
import java.util.Collections$UnmodifiableRandomAccessList;

IdmIdentityFilter filter = new IdmIdentityFilter();
filter.setExternalCode(attributeValue);

List identities = new ArrayList();
identities = identityService.find(filter, null).getContent();
if (!identities.isEmpty()) {
    return identities.get(0); //error here, should be return identities.get(0).getId();
}

return null;
```

The issue with the script is that it returns IdmIdentityDto but it should return an ID. However, it returns this error from which this issue is basically impossible to find:

```
2019-06-12T13:14:27.757+02:00: eu.bcvsolutions.idm.core.security.exception.IdmSecurityException: S
cript did not pass security inspection!
    at eu.bcvsolutions.idm.core.model.service.impl.DefaultGroovyScriptService.evaluate(DefaultGroo
vyScriptService.java:87)
    at eu.bcvsolutions.idm.acc.service.impl.DefaultSysSystemAttributeMappingService.transformValue
FromResource(DefaultSysSystemAttributeMappingService.java:238)
    at eu.bcvsolutions.idm.acc.service.impl.DefaultSysSystemAttributeMappingService.transformValue
FromResource(DefaultSysSystemAttributeMappingService.java:218)
    at eu.bcvsolutions.idm.acc.service.impl.DefaultSysSystemAttributeMappingService.getValueByMapp
edAttribute(DefaultSysSystemAttributeMappingService.java:635)
    at eu.bcvsolutions.idm.acc.service.impl.DefaultSysSystemAttributeMappingService.getUidValueFro
mResource(DefaultSysSystemAttributeMappingService.java:642)
    at eu.bcvsolutions.idm.acc.service.impl.DefaultSysSystemAttributeMappingService$$FastClassBySp
ringCGLIB$$507e7707.invoke(<generated>)
    at org.springframework.cglib.proxy.MethodProxy.invoke(MethodProxy.java:204)
    at org.springframework.aop.framework.CglibAopProxy$DynamicAdvisedInterceptor.intercept(CglibAo
pProxy.java:651)
    at eu.bcvsolutions.idm.acc.service.impl.DefaultSysSystemAttributeMappingService$$EnhancerBySpr
ingCGLIB$$29f4e3f1.getUidValueFromResource(<generated>)
    at eu.bcvsolutions.idm.acc.service.impl.AbstractSynchronizationExecutor.generateUID(AbstractSy
nchynchronizationExecutor.java:1800)
    at eu.bcvsolutions.idm.acc.service.impl.AbstractSynchronizationExecutor.findAccount(AbstractSy
nchynchronizationExecutor.java:1763)
    at eu.bcvsolutions.idm.acc.service.impl.AbstractSynchronizationExecutor.doItemSynchronization(
AbstractSynchronizationExecutor.java:339)
    at eu.bcvsolutions.idm.acc.service.impl.DefaultSynchronizationService.doItemSynchronization(De
faultSynchronizationService.java:219)
    at eu.bcvsolutions.idm.acc.service.impl.DefaultSynchronizationService$$FastClassBySpringCGLIB$
$66d7ee75.invoke(<generated>)
    at org.springframework.cglib.proxy.MethodProxy.invoke(MethodProxy.java:204)
    at org.springframework.aop.framework.CglibAopProxy$CglibMethodInvocation.invokeJoinpoint(Cglib
```

```
AopProxy.java:720)
    at org.springframework.aop.framework.ReflectiveMethodInvocation.proceed(ReflectiveMethodInvocation.java:157)
    at org.springframework.transaction.interceptor.TransactionInterceptor$1.proceedWithInvocation(TransactionInterceptor.java:99)
    at org.springframework.transaction.interceptor.TransactionAspectSupport.invokeWithinTransaction(TransactionAspectSupport.java:281)
    at org.springframework.transaction.interceptor.TransactionInterceptor.invoke(TransactionInterceptor.java:96)
    at org.springframework.aop.framework.ReflectiveMethodInvocation.proceed(ReflectiveMethodInvocation.java:179)
    at org.springframework.aop.framework.CglibAopProxy$DynamicAdvisedInterceptor.intercept(CglibAopProxy.java:655)
    at eu.bcvsolutions.idm.acc.service.impl.DefaultSynchronizationService$$EnhancerBySpringCGLIB$$65f85efb.doItemSynchronization(<generated>)
    at eu.bcvsolutions.idm.acc.event.processor.synchronization.SynchronizationItemProcessor.process(SynchronizationItemProcessor.java:52)
    at eu.bcvsolutions.idm.core.api.event.AbstractEntityEventProcessor.onApplicationEvent(AbstractEntityEventProcessor.java:243)
    at org.springframework.context.event.SimpleApplicationEventMulticaster.invokeListener(SimpleApplicationEventMulticaster.java:166)
    at org.springframework.context.event.SimpleApplicationEventMulticaster.multicastEvent(SimpleApplicationEventMulticaster.java:138)
    at org.springframework.context.support.AbstractApplicationContext.publishEvent(AbstractApplicationContext.java:381)
    at org.springframework.context.support.AbstractApplicationContext.publishEvent(AbstractApplicationContext.java:348)
    at eu.bcvsolutions.idm.core.model.service.impl.DefaultEntityEventManager.process(DefaultEntityEventManager.java:245)
    at eu.bcvsolutions.idm.core.model.service.impl.DefaultEntityEventManager.process(DefaultEntityEventManager.java:175)
    at eu.bcvsolutions.idm.core.model.service.impl.DefaultEntityEventManager$$FastClassBySpringCGLIB$$1694e58f.invoke(<generated>)
    at org.springframework.cglib.proxy.MethodProxy.invoke(MethodProxy.java:204)
    at org.springframework.aop.framework.CglibAopProxy$CglibMethodInvocation.invokeJoinpoint(CglibAopProxy.java:720)
    at org.springframework.aop.framework.ReflectiveMethodInvocation.proceed(ReflectiveMethodInvocation.java:157)
    at org.springframework.transaction.interceptor.TransactionInterceptor$1.proceedWithInvocation(TransactionInterceptor.java:99)
    at org.springframework.transaction.interceptor.TransactionAspectSupport.invokeWithinTransaction(TransactionAspectSupport.java:281)
    at org.springframework.transaction.interceptor.TransactionInterceptor.invoke(TransactionInterceptor.java:96)
    at org.springframework.aop.framework.ReflectiveMethodInvocation.proceed(ReflectiveMethodInvocation.java:179)
    at org.springframework.aop.framework.CglibAopProxy$DynamicAdvisedInterceptor.intercept(CglibAopProxy.java:655)
    at eu.bcvsolutions.idm.core.model.service.impl.DefaultEntityEventManager$$EnhancerBySpringCGLIB$$394d8489.process(<generated>)
    at eu.bcvsolutions.idm.acc.service.impl.AbstractSynchronizationExecutor.startItemSynchronization(AbstractSynchronizationExecutor.java:569)
    at eu.bcvsolutions.idm.acc.service.impl.AbstractSynchronizationExecutor.handleJsonObject(AbstractSynchronizationExecutor.java:521)
    at eu.bcvsolutions.idm.acc.service.impl.AbstractSynchronizationExecutor$DefaultResultHandler.handle(AbstractSynchronizationExecutor.java:2266)
    at eu.bcvsolutions.idm.ic.connid.service.impl.ConnIdIcConnectorService$2.handle(ConnIdIcConnectorService.java:250)
    at org.identityconnectors.framework.impl.api.StreamHandlerUtil$ObjectStreamHandlerAdapter.handle(StreamHandlerUtil.java:101)
    at org.identityconnectors.framework.impl.api.BufferedResultsProxy.invoke(BufferedResultsProxy.java:262)
    at org.identityconnectors.framework.impl.api.DelegatingTimeoutProxy.invoke(DelegatingTimeoutProxy.java:94)
    at com.sun.proxy.$Proxy359.search(Unknown Source)
    at org.identityconnectors.framework.impl.api.AbstractConnectorFacade.search(AbstractConnectorFacade.java:179)
```

```

    at eu.bcvolutions.idm.ic.connid.service.impl.ConnIdIcConnectorService.pageSearch(ConnIdIcConn
ectorService.java:272)
    at eu.bcvolutions.idm.ic.connid.service.impl.ConnIdIcConnectorService.search(ConnIdIcConnecto
rService.java:267)
    at eu.bcvolutions.idm.ic.service.impl.DefaultIcConnectorFacade.search(DefaultIcConnectorFacad
e.java:114)
    at eu.bcvolutions.idm.acc.service.impl.AbstractSynchronizationExecutor.process(AbstractSynchr
onizationExecutor.java:256)
    at eu.bcvolutions.idm.acc.service.impl.DefaultSynchronizationService.startSynchronization(Def
aultSynchronizationService.java:190)
    at eu.bcvolutions.idm.acc.service.impl.DefaultSynchronizationService$$FastClassBySpringCGLIB$
$66d7ee75.invoke(<generated>)
    at org.springframework.cglib.proxy.MethodProxy.invoke(MethodProxy.java:204)
    at org.springframework.aop.framework.CglibAopProxy$DynamicAdvisedInterceptor.intercept(CglibAo
pProxy.java:651)
    at eu.bcvolutions.idm.acc.service.impl.DefaultSynchronizationService$$EnhancerBySpringCGLIB$$
65f85efb.startSynchronization(<generated>)
    at eu.bcvolutions.idm.acc.scheduler.task.impl.SynchronizationSchedulableTaskExecutor.process(
SynchronizationSchedulableTaskExecutor.java:65)
    at eu.bcvolutions.idm.acc.scheduler.task.impl.SynchronizationSchedulableTaskExecutor.process(
SynchronizationSchedulableTaskExecutor.java:28)
    at eu.bcvolutions.idm.core.scheduler.api.service.AbstractLongRunningTaskExecutor.call(Abstrac
tLongRunningTaskExecutor.java:189)
    at java.util.concurrent.FutureTask.run(FutureTask.java:266)
    at org.springframework.security.concurrent.DelegatingSecurityContextRunnable.run(DelegatingSec
urityContextRunnable.java:80)
    at java.util.concurrent.ThreadPoolExecutor.runWorker(ThreadPoolExecutor.java:1149)
    at java.util.concurrent.ThreadPoolExecutor$Worker.run(ThreadPoolExecutor.java:624)
    at java.lang.Thread.run(Thread.java:748)
Caused by: java.lang.SecurityException: Script wants to use unauthorized class: [class eu.bcvolut
ions.idm.core.api.dto.IdmIdentityDto]
    at eu.bcvolutions.idm.core.security.domain.GroovySandboxFilter.filter(GroovySandboxFilter.jav
a:123)
    at org.kohsuke.groovy.sandbox.GroovyValueFilter.filterReturnValue(GroovyValueFilter.java:26)
    at org.kohsuke.groovy.sandbox.GroovyValueFilter.onMethodCall(GroovyValueFilter.java:58)
    at org.kohsuke.groovy.sandbox.impl.Checker$1.call(Checker.java:148)
    at org.kohsuke.groovy.sandbox.impl.Checker.checkedCall(Checker.java:145)
    at org.kohsuke.groovy.sandbox.impl.Checker$checkedCall$0.callStatic(Unknown Source)
    at Script1.run(Script1.groovy:12)
    at eu.bcvolutions.idm.core.model.service.impl.DefaultGroovyScriptService.evaluate(DefaultGroo
vyScriptService.java:79)
    ... 66 more

```

Related issues:

Related to CzechIdM - Task #479: Show more details on script execution exception

Closed

06/02/2017

History

#1 - 04/15/2020 10:34 AM - Radek Tomiška

- Assignee changed from Ondřej Kopr to Radek Tomiška

#2 - 04/15/2020 10:36 AM - Radek Tomiška

- Assignee changed from Radek Tomiška to Ondrej Husník

#3 - 04/15/2020 10:36 AM - Radek Tomiška

- Related to Task #479: Show more details on script execution exception added

#4 - 04/15/2020 10:49 AM - Vít Švanda

- Target version set to 10.3.0

#5 - 04/15/2020 10:51 AM - Marek Klement

Thanks for providing this ticket - helped me with solving of the same issue.

Here is the log before issue:

```

2020-04-14 19:59:29.731 INFO 141293 --- [task-executor-4] e.b.i.c.a.e.AbstractEntityEventProcessor : Processo
r [core-role-code-environment-processor]([core]) end for [RoleEvent [type: CREATE, content: eu.bcvolutions.id
m.core.api.dto.Idm
RoleDto [code=fs_ustr_SI], properties: {skip_provisioning=true}]] with order [-100].
2020-04-14 19:59:29.731 INFO 141293 --- [task-executor-4] e.b.i.c.a.e.AbstractEntityEventProcessor : Processo
r [role-save-processor]([core]) start for [RoleEvent [type: CREATE, content: eu.bcvolutions.idm.core.api.dto.
IdmRoleDto [code=f
s_ustr_SI], properties: {skip_provisioning=true}]] with order [0].
2020-04-14 19:59:29.737 INFO 141293 --- [task-executor-4] e.b.i.c.a.e.AbstractEntityEventProcessor : Processo
r [role-save-processor]([core]) end for [RoleEvent [type: CREATE, content: eu.bcvolutions.idm.core.api.dto.Id
mRoleDto [code=fs_
ustr_SI], properties: {skip_provisioning=true}]] with order [0].
2020-04-14 19:59:29.737 INFO 141293 --- [task-executor-4] e.b.i.c.a.e.AbstractEntityEventProcessor : Processo
r [core-formable-save-processor]([core]) start for [RoleEvent [type: CREATE, content: eu.bcvolutions.idm.core
.api.dto.IdmRoleDt
o [code=fs_ustr_SI], properties: {skip_provisioning=true}]] with order [50].
2020-04-14 19:59:29.737 INFO 141293 --- [task-executor-4] e.b.i.c.a.e.AbstractEntityEventProcessor : Processo
r [core-formable-save-processor]([core]) end for [RoleEvent [type: CREATE, content: eu.bcvolutions.idm.core.a
pi.dto.IdmRoleDto
[code=fs_ustr_SI], properties: {skip_provisioning=true}]] with order [50].
2020-04-14 19:59:29.737 INFO 141293 --- [task-executor-4] e.b.i.c.a.e.AbstractEntityEventProcessor : Processo
r [role-publish-change-processor]([core]) start for [RoleEvent [type: CREATE, content: eu.bcvolutions.idm.cor
e.api.dto.IdmRoleD
to [code=fs_ustr_SI], properties: {skip_provisioning=true}]] with order [10000].
2020-04-14 19:59:29.739 INFO 141293 --- [task-executor-4] e.b.i.c.a.e.AbstractEntityEventProcessor : Processo
r [role-publish-change-processor]([core]) end for [RoleEvent [type: CREATE, content: eu.bcvolutions.idm.core.
api.dto.IdmRoleDto
[code=fs_ustr_SI], properties: {skip_provisioning=true}]] with order [10000].
2020-04-14 19:59:29.739 INFO 141293 --- [task-executor-4] e.b.i.c.m.s.i.DefaultEntityEventManager : Event [R
oleEvent [type: CREATE, content: eu.bcvolutions.idm.core.api.dto.IdmRoleDto [code=fs_ustr_SI], properties: {s
kip_provisioning=t
rue}]] is completed
Started script for CN=Klement Marek,OU=Praha,OU=BCV,OU=BCV,DC=bcvcr,DC=cz2020-04-14 19:59:29.761 ERROR 141293
--- [task-executor-4] e.b.i.c.m.s.i.DefaultGroovyScriptService : SecurityException [Script wants to use unauth
orized class: [class eu.bcvolutions.idm.core.api.dto.IdmIdentityDto] ]
2020-04-14 19:59:29.761 WARN 141293 --- [task-executor-4] o.a.e.i.b.b.ScriptTaskActivityBehavior : Exceptio
n while executing scripttask1 : problem evaluating script: javax.script.ScriptException: eu.bcvolutions.idm.c
ore.security.exception.IdmSecurityException: Script did not pass security inspection!
2020-04-14 19:59:29.765 ERROR 141293 --- [task-executor-4] o.a.e.impl.interceptor.CommandContext : Error wh
ile closing command context

```

```

org.activiti.engine.ActivitiException: problem evaluating script: javax.script.ScriptException: eu.bcvolution
s.idm.core.security.exception.IdmSecurityException: Script did not pass security inspection!
    at org.activiti.engine.impl.scripting.ScriptingEngines.evaluate(ScriptingEngines.java:89)
    at org.activiti.engine.impl.scripting.ScriptingEngines.evaluate(ScriptingEngines.java:73)
    at org.activiti.engine.impl.bpmn.behavior.ScriptTaskActivityBehavior.execute(ScriptTaskActivityBehavio
r.java:78)
    at org.activiti.engine.impl.pvm.runtime.AtomicOperationActivityExecute.execute(AtomicOperationActivity
Execute.java:60)
    at org.activiti.engine.impl.interceptor.CommandContext.performOperation(CommandContext.java:97)
    at org.activiti.engine.impl.persistence.entity.ExecutionEntity.performOperationSync(ExecutionEntity.ja
va:650)
    at org.activiti.engine.impl.persistence.entity.ExecutionEntity.performOperation(ExecutionEntity.java:6
43)
    at org.activiti.engine.impl.pvm.runtime.AtomicOperationTransitionNotifyListenerStart.eventNotification
sCompleted(AtomicOperationTransitionNotifyListenerStart.java:52)
    at org.activiti.engine.impl.pvm.runtime.AbstractEventAtomicOperation.execute(AbstractEventAtomicOperat
ion.java:56)
    at org.activiti.engine.impl.interceptor.CommandContext.performOperation(CommandContext.java:97)
    at org.activiti.engine.impl.persistence.entity.ExecutionEntity.performOperationSync(ExecutionEntity.ja
va:650)

```

#6 - 04/27/2020 05:10 AM - Ondrej Husník

- Status changed from New to In Progress

#7 - 05/04/2020 06:35 AM - Ondrej Husník

- Assignee changed from Ondrej Husník to Radek Tomiška

- % Done changed from 0 to 80

In this task there were added some additional information to an exception raised when transformation script fails. This information contains original message, location of script invocation (system, mapping, attribute) and the name of used script (or all invoked scripts when failing script was nested).

Please could you provide me a feedback.

<https://github.com/bcvsolutions/CzechIdMng/commit/8ee258c872a7387bb70a88f78cabb2c39b59dfbb>

#8 - 05/04/2020 06:49 AM - Radek Tomiška

- Assignee changed from Radek Tomiška to Vít Švanda

#9 - 05/04/2020 07:28 AM - Vít Švanda

- Status changed from In Progress to Needs feedback

#10 - 05/04/2020 08:33 AM - Vít Švanda

- Status changed from Needs feedback to In Progress

- Assignee changed from Vít Švanda to Ondrej Husník

I did review and i found this issues:

- ExceptionUtils.getParameterChainByKey ... get parameter (scriptCode) should be based on the IdmSecurityException and GROOVY_SCRIPT_EXCEPTION ... no on the parameter name.
- "scriptCode" and other should be constant.
- AbstractScriptEvaluator .. you changing result model ... it is not correct.
- AbstractSynchronizationExecutor.loggingException - I want to see trace of result code ... if exists.
- DefaultSysSystemAttributeMappingService.transformValueToResource - You catch only result code exception, why?
- GROOVY_SCRIPT_ATTR_TRANSFORMATION_FAILED - transformation are a part of ACC module -> this result code cannot be in Core module.
- May be some tests missing (for example for case where exception is not secured or not resultcode..)

#11 - 05/11/2020 06:41 AM - Ondrej Husník

- Status changed from In Progress to Needs feedback

- Assignee changed from Ondrej Husník to Vít Švanda

There were changed parts according to the code review, fixed tests broken by changed approach and added some new tests of implemented changes.

Default behavior when throwing an exception was slightly changed. During transformation script failure there was often thrown SecurityException (as a reaction to using a class which is not listed in allowed ones) which was enveloped into IdmSecurityException and propagated further. This Exception is now also caught and enveloped into ResultCodeException of the GROOVY_SCRIPT_ATTR_TRANSFORMATION_FAILED type. This exception carries additional information saying where problem occurred.

Please could you provide me a feedback?

<https://github.com/bcvsolutions/CzechIdMng/commit/602eb2d955ca460c11dbe489011ac7c87146492d>

#12 - 05/13/2020 02:07 PM - Vít Švanda

- File scriptError.png added

- Status changed from Needs feedback to Resolved

- Assignee changed from Vít Švanda to Ondrej Husník


- % Done changed from 80 to 100

I did review and test. I like this feature ... especially location of the wrong script is awesome and useful.

From the UX view, I have one suggestion on future improvements.

FE error message isn't nice now. I could like to see some unordered list here. I know, using of is not possible in error messages (for security reason), but it could be nicer. I can help with this.

rd

	Result	Event date	Event
<input type="checkbox"/>	 Failed	13.05.2020 15:34:23	NOTI

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Transformation script failed

Transformation script failed because of: [Cannot invoke method getCode() on null object] IdM location: [System: UsersOne / Mapping: prov / Attr: firstname] Script location: [wrongScript / getRoleCodeByIdentityRole].

[» Show full detail](#)

#13 - 05/15/2020 01:36 PM - Radek Tomiška

- Status changed from Resolved to Closed

Files

scriptError.png	29.8 KB	05/13/2020	Vít Švanda
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