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Impact of an assignment rule change

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Agenda

About me

Ünsal Ilhan, Senior IAM Consultant

Motivation

Required Configurations

Artefacts (XML, Java)

Live Demo

Possible Improvements

Topics to keep in mind

Q/A & Comments



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- Since 8 years at iC Consult Switzerland
- Identity IQ & IdentityNow, (FAM)
- Role: Solution Architect, Project Lead & CoE for SailPoint in Switzerland.
- Married, 44 years old.
- Love Basketball and Travelling
- iC Consult Headquarter in Germany, 25+ years experience
- Vendor-independent consultancy and system integrator for IAM solutions
- Portfolio covers from advisory, design to implementation/integration & managed services
- 800+ employees in more than 12 countries







Motivation

- Customer changed the logic and used "and" operation instead of "or"
 - -> So role was deprovisioned for hunderts of accounts.
- · Changing an assignment rule on production could be fatal
 - Typcial mistakes: typo, missing brackets/quote, incorrect use of and or operations, ...
- Assignment Rule

 Match List

 IdentityIQ Items

 Add Identity Attribute

 Add Attribute

 Add Attribute

 Add Attribute

 Add Permission

 Operation

 Type Source Name

 Value

 Or
 Attribute IdentityIQ Location

 Attribute IdentityIQ Location

 Equals
 Munich

 Group Selected

 Ungroup Selected

 Delete Selected

- No motivation to test it on lower environments.
 - Time pressure: changes are sometimes required immediately
- · Lower environments seldom have production data or same state



"RoleAssignmentImpact" Feature (as Plugin)

Done as Plugin for a fast delivery as showcase.

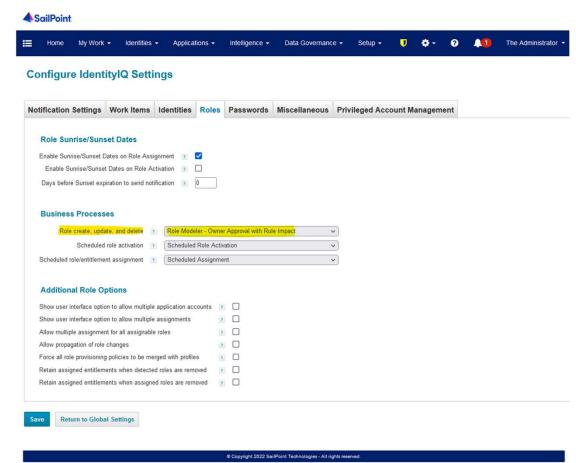
- Tested on IIQ 8.2 and 8.3
- Deinstallation -> Removal of extensions (Workflow)
- Reinstallation -> Requires reconfiguration (setting Workflow)

So better to implement it as WorkflowLibrary and Workflow extension





- Custom Business Process:
- "Role Modeler Owner Approval with Rule Impact"
- Extends the original Workflow
- "Role Modeler Owner Approval"
- with 2 additional steps.





Artefacts: Workflow extension 2. Step "Rule change approval"

1. Step "prepareRuleImpact"

```
<Transition to="prepareRuleImpact"
               when="script:new customer.iiq.RuleOfRoleImpactLibrary().isDisplayImpactRequired(wfcontext)"/>
   <Transition to="Check Approvals" when="impactAnalysisOwner == unbound || impactAnalysisOwner == null"/>
   <Transition to="Impact Analysis"/>
<Step name="prepareRuleImpact"
      action="script:new customer.iiq.RuleOfRoleImpactLibrary().getImpactRendered(wfcontext)"
     resultVariable="impactOfRoleChangeRendered">
   <Arg name="headerNames">
        <value>
           <List>
               <String>Name</String>
                <String>Location</String>
                <String>State</String>
           </List>
        </value>
   </Arg>
   <Arg name="attributeNames">
       <value>
            (List)
                <String>name</String>
                <String>location</String>
                <String>lifecycleState
            </List>
        </value>
   </Arg>
   <Arg name="sortAttributes">
        <value>
                <String>location</String>
                <String>lifecycleState</String>
       </value>
    </Arg>
   <Transition to="Rule change approval"/>
```

```
<Step icon="Approval" name="Rule change approval">
    <Approval mode="any" name="Rule change approval" owner="ref:launcher"</pre>
              send="impactOfRoleChangeRendered, approvalObject">
        <Arg name="launcher" value="ref:launcher"/>
        <Arg name="approvalObject" value="ref:approvalObject"/>
        <Arg name="impactOfRoleChangeRendered" value="ref:impactOfRoleChangeRendered"/>
        <Arg name="workItemName" value="ref:workitemName"/>
        <Arg name="workItemDescription" value="ref:workItemName"/>
        <Form name="Rule change approval">
            <Attributes>
                <Map>
                    <entry key="pageTitle" value="$(workItemName)"/>
            </Attributes>
            <Section label="Rule" type="datatable">
    <Field name="Actual Rule">
                    <Script>
                        <Source><! [CDATA [
                            import sailpoint.object.Bundle;
                             String summary = "";
                            Bundle bundle = context.qetObjectById(Bundle.class, approvalObject.getId());
                                 if (bundle != null && bundle.getSelector() != null)
                                     summary = bundle.getSelector().generateSummary();
                            return summary;
                        11></Source>
                    </Script>
                <Field name="New Rule">
                    (Script)
                        <Source><![CDATA[
                            if (approvalObject.getSelector() != null) {
                                summary = approvalObject.getSelector().generateSummary();
                            return summary;
                        11></Source>
                    </Script>
                </Field>
            </Section>
            <Section label="Impact" type="text">
                <Field>
                    <Attributes>
                            <entry key="contentIsEscaped" value="true"/>
                    </Attributes>
                    <Script>
                           return imp
                        11>c/Source>
                    </Script>
                </Field>
            </Section>
            <Button action="next" label="Apply Impact"/>
            <Button action="back" label="Reject Impact"/>
       </Form>
   </Approval>
   <Arg name="workitemName"
        value="script:"Rule confirmation for Role: " + approvalObject.getDisplayableName()"/>
   <Transition to="stop" when="!approved"/>
<Transition to="Check Approvals" when="impactAnalysisOwner == unbound || impactAnalysisOwner == null"/>
   <Transition to="Impact Analysis"/>
```



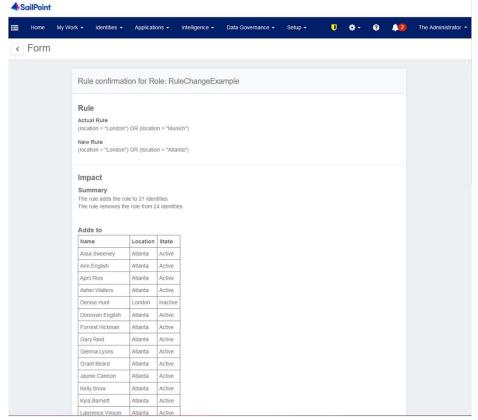


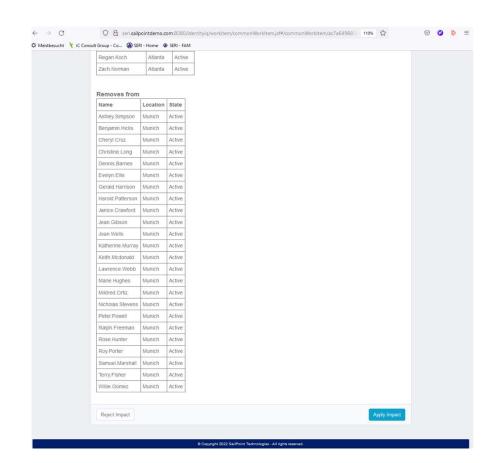
Step Transition check

Approval rendering



Demo on IdentityIQ Environment





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Improvements & topics to keep in mind

- Improvements
 - Use SQL statement instead of QueryOptions in case of performance issues
 - Move Java code to Workflow Library
- Keep in mind

Only changes made directly via the role editor triggers the impact evaluation.

- -> Any changes deployed from GIT are not detected
- -> Any changes via Debug to
 - Populations, Rules, Scripts, Filter, MachtList are not detected

```
if localVarHTTPResponse.StatusCode >= 300 {
    newErr := &GenericOpenAPIError{
        body: localVarBody,
        error: localVarHTTPResponse.Status,
}
```



Questions/Answers Comments

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-11





Thank you!

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