

Jira On-Premise and Azure DevOps: How to Synchronize Inline Images between the Two

Introduction

Hi all,

Jira processes data using Jira Wiki, while Azure DevOps utilizes HTML for data processing.

One limitation we face out-of-the-box is the inability to synchronize images between these systems.

However, with Exalate this will be possible. By utilizing the script mode, we can modify the language used by these systems to interpret and handle data.

To learn more about this solution, I added a video tutorial.

The code:

Outgoing Sync Jira On Prem

```
import com.atlassian.jira.component.ComponentAccessor

class WikiToHtml {
    static String transform(String wikiFormat) {
        if (!wikiFormat) {
            return null
        }

        // access the correct services
        def jcl = ComponentAccessor.classLoader
        def app = ComponentAccessor.getApplicationProperties()
        def epubClass = jcl.loadClass("com.atlassian.event.api.EventPublisher")
        def epub = ComponentAccessor.getOSGiComponentInstanceOfType(epubClass)
        def fmanClass = jcl.loadClass("com.atlassian.jira.config.FeatureManager")
        def fman = ComponentAccessor.getOSGiComponentInstanceOfType(fmanClass)
        def vreqClass = jcl.loadClass("com.atlassian.jira.util.velocity.VelocityRequestContextFactory")
        def vreq = ComponentAccessor.getOSGiComponentInstanceOfType(vreqClass)
        def wrenderClass = jcl.loadClass("com.atlassian.jira.issue.fields.renderer.wiki.
AtlassianWikiRenderer")
        def wrender = wrenderClass.newInstance(epub, app, vreq, fman)

        def fixImage = wikiFormat?.replaceAll(/!\(\\S+\\|\\S+\\!/, '<!-- inline image filename=#$1# -->')
        fixImage = fixImage.replaceAll(/!\\^(\\S+)\\|\\S+\\!/, '<!-- inline image filename=#$1# -->')
        fixImage = fixImage.replaceAll(/!\\^(\\S+)\\!/, '<!-- inline image filename=#$1# -->')
        fixImage = fixImage.replaceAll(/!\\(\\S+)\\!/, '<!-- inline image filename=#$1# -->')

        // wiki text can also contain files
        fixImage = fixImage.replaceAll(/\\[(\\S+)\\|\\^(\\S+)\\]/, '<!-- inline file filename=#$2# -->')
        fixImage = fixImage.replaceAll(/\\[(\\S+)\\]/, '<!-- inline file filename=#$1# -->')
        return wrender.render(fixImage, null)
    }
}

}

replica.description = WikiToHtml.transform(issue.description)
replica.labels      = issue.labels
replica.comments    = issue.comments.collect {
    comment ->
    comment.body = WikiToHtml.transform (comment.body)
    comment
}
}
```

Incoming Sync Azure Devops

```
//change the projectKey!

if(firstSync){
  // Set type name from source entity, if not found set a default
  workItem.projectKey = "Mathieu"
  workItem.typeName = nodeHelper.getIssueType(replica.type?.name)?.name ?: "Task";
}

workItem.summary      = replica.summary
workItem.attachments  = attachmentHelper.mergeAttachments(workItem, replica)
workItem.labels       = replica.labels
workItem.priority     = replica.priority

def setInlineImage(def comment){
  // List of possible regex patterns
  def patternList = [
    /<p><!-- inline image filename=#(.*)#\</a> --></p>/,
    /(s)<!-- inline image filename=(.*)-->/ ,
    /<p><!-- inline image filename=#(.*)#\</a> --></p>/,
    /filename=#(.+?)# -->/
  ]

  def pattern = null
  def matcher = null
  patternList.each{ p ->
    matcher = comment =~ p
    if(matcher.find()){
      matcher = comment =~ p
    }
  }

  def inlineImage = ""

  if (matcher.find()) {
    def match = matcher[0]
    def attId = replica.attachments.find { it.filename?.equals(match[1]) }?.remoteId
    inlineImage = comment.replace(match[0], """".toString())
  }else{
    return comment
  }
  inlineImage = inlineImage.replaceAll("<!-- inline image", "").replaceAll("<!-- inline image", "")
  return inlineImage
}

workItem.comments      = commentHelper.mergeComments(workItem, replica, {
  comment ->
  comment.body = setInlineImage(comment.body)
})
```

Thank you.

Kind regards,
Mathieu Lepoutre

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