

# Groovy Shell Scripts

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rates

Following some helpful scripts

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## Access Content

### Magnolia 4.5 & 5

```
session = MgnlContext.getJCRSession("website");  
node = session.getNode("/demo-project")
```

### Magnolia 4.4

```
hm = MgnlContext.getHierarchyManager("website")  
node = hm.getContent("/demo-project")
```

## Useful imports & initialization

```
import info.magnolia.cms.core.*;
import info.magnolia.cms.util.*;
import info.magnolia.context.*;

ctx = MgnlContext.getSystemContext();
MgnlContext.setInstance(ctx);
hm = ctx.getHierarchyManager("config");
```

## Using the Visitor

```
visitor = {node ->
  println(node.handle)
}

ContentUtil.visit(root, visitor as ContentUtil.Visitor, new
NodeTypeFilter(ItemType.CONTENT))
```

## Visit hierarchy

```
root = hm.root;
ContentUtil.visit(root, new ContentUtil.Visitor(){
  visit(Content node) {
    if(node.getIndex()>1){
      print(node);
    }
  }
});
```

## Dump a node

```
print(info.magnolia.cms.util.DumperUtil.dump(node));
```

## Get Activation Status

## Magnolia 5

```
java.lang.String querySql2 = "select * from [nt:base]";
java.lang.String queryWorkspace = "website";
javax.jcr.NodeIterator nodeList =
info.magnolia.cms.util.QueryUtil.search(queryWorkspace, querySql2,
javax.jcr.query.Query.JCR_SQL2, "mgnl:page");

println "Iterating through nodes...";
while(nodeList.hasNext()) {
    javax.jcr.Node currNode = nodeList.nextNode();
    java.lang.Integer status =
info.magnolia.jcr.util.NodeTypes.Activable.getActivationStatus(currNode);

    if (status == NodeTypes.Activable.ACTIVATION_STATUS_MODIFIED){
        println "modified : ${currNode.path}";
    }
    else if (status == NodeTypes.Activable.ACTIVATION_STATUS_ACTIVATED){
        println "activated : ${currNode.path}";
    }
    else {
        println "not-activated : ${currNode.path}";
    }
}
println "Node iterations done";
```

### Set Activation Status (green)

```
md = node.metaData
md.setActivated()
md.setActivatorId(MgnlContext.user.name)
md.setLastActivationActionDate()
```

### Find something in Bootstrap-files

```
files = ClasspathResourcesUtil.findResources(".*mgnl-bootstrap.*")
files.each(){name ->
    text = getClass().getResourceAsStream(name).getText()
    if (text =~ "microsoft")
        println(name)
}
```

### Export dialogs/templates/paragraphs from a module at once to the filesystem

Each template, paragraph and dialog will be export in its own file, which is much more handy than one big file for all.

```
import info.magnolia.module.admininterface.pages.DevelopmentUtilsPage;

DevelopmentUtilsPage p = new DevelopmentUtilsPage(null, null, null);
// remember to write this file to a directory where you have the necessary
permissions
// i.e. /var/lib/tomcat7/webapps/magnoliaAuthor_transa/tmp/export.xml when
executing from Author
p.setRootdir("/some/place/on/your/servers/filesystem/");
p.setRepository("config");

p.setParentpath("/modules/myModule/templates");
p.backupChildren();
p.setParentpath("/modules/myModule/paragraphs");
p.backupChildren();
p.setParentpath("/modules/myModule/dialogs");
p.backupChildren();
```

Export configuration to be used in diffs

```

import groovy.xml.*

hm = MgnlContext.getHierarchyManager("config")
root = hm.getContent("/modules/standard-templating-kit")
// remember to write this file to a directory where you have the necessary
permissions
// i.e. /var/lib/tomcat7/webapps/magnoliaAuthor_transa/tmp/export.xml when
executing from Author
out = new FileWriter(new
File("/Users/pbracher/workspaces/magnolia-4.2/export.xml"))

buffer = new ByteArrayOutputStream()

hm.workspace.session.exportDocumentView("/modules/standard-templating-kit",
buffer, false, false)

str = buffer.toString()

def root = new XmlParser(false, false).parseText(str)

root.depthFirst().each({node ->
    if(node.name()=="MetaData"){
        node.parent().remove(node)
    }

    node.attributes().remove("jcr:uuid")
    node.attributes().remove("jcr:created")
})

def traverse(builder, node) {
    builder."${node.name()}"() {
        node.attributes().each(){attribute ->
            builder."${attribute.key}"(attribute.value)
        }
        node.children().each {
            traverse(builder, it)
        }
    }
}

builder = new MarkupBuilder(out)
traverse(builder,root)

```

## Diff two xml files

Files exported as described above

```

import groovy.xml.*

homeDir = new File("/Users/pbracher/workspaces/magnolia-4.2")

def update = new XmlParser(false, false).parse(new FileReader(new
File(homeDir,"update.xml")))
def installation = new XmlParser(false, false).parse(new FileReader(new
File(homeDir,"installation.xml")))

def path(node){
    if(node.parent()){
        return path(node.parent()) + "/" + node.name()
    }
    return node.name()
}

def diff(left, right){
    left.children().each(){child ->
        // if text value
        if(child instanceof String){
            if(child != right.text()){
                println "${path(left)}: ${child} --> ${right.text()}"
            }
        }
        // if element
        else{
            if(right[child.name()].size() == 0){
                println "${path(child)}: removed"
            }
            else{
                diff(child, right[child.name()][0])
            }
        }
    }
    right.children().each(){child ->
        // if text value
        if(!(child instanceof String)){
            if(left[child.name()].size() == 0){
                println "${path(child)}: added"
            }
            else{
                if(!(child.children[0] instanceof String)){
                    diff(right[child.name()][0], child)
                }
            }
        }
    }
}

diff(update, installation)

```

## SQL query example

Deletes nodes with null value of mgnl:template MetaData property

```
hm = ctx.getHierarchyManager("website")

query = hm.getQueryManager().createQuery("SELECT * FROM nt:base WHERE
mgnl:template = ''", "sql")
result = query.execute()
contentCollection = result.getContent(ItemType.CONTENTNODE.getSystemName())
println "found ${contentCollection.size()} nodes"

contentCollection.each { c ->
    println "deleting ${c.name}"
    c.delete()
}
hm.save()
```

## Delete pages with given template type & descendant of given path

Deletes nodes that match both criterias:

- template type "website-module:pages/myShopBrand"
- descendant of "/Home/Brands"

```
java.lang.String querySql2 = "select * from [nt:base] WHERE
ISDESCENDANTNODE('/Home/Brands') AND [mgnl:template] =
'website-module:pages/myShopBrand'";
java.lang.String queryWorkspace = "website";

javax.jcr.NodeIterator nodeList =
info.magnolia.cms.util.QueryUtil.search(queryWorkspace, querySql2,
javax.jcr.query.Query.JCR_SQL2, "mgnl:page");

println "Removing nodes :";
while(nodeList.hasNext()) {
    javax.jcr.Node currNode = nodeList.nextNode();
    println "${currNode.path}";
    currNode.remove();
}

info.magnolia.context.MgnlContext.getJCRSession(queryWorkspace).save();
println "Nodes removal finished";
```

## Export a node with no children

As the ability to export a node without children is not available in the UI, you might resort to this script in case of need.

```

hm = MgnlContext.getHierarchyManager("website")
out = new FileWriter(new File("/Users/me/mynode-export.xml"))
buffer = new ByteArrayOutputStream()

/*
 * last two boolean params are
 * skipBinary A <code>boolean</code> governing whether binary properties
are to be serialized.
 * noRecurse A <code>boolean</code> governing whether the subgraph at
absPath is to be recursed.
 */
hm.workspace.session.exportDocumentView("/mynode", buffer, true, true)

str = buffer.toString()

out.write(str)

out.close()

```

## Export page and subpages into separate xml files

### Magnolia 4.5 & 5

```

import info.magnolia.cms.util.Rule;
import info.magnolia.context.MgnlContext;
import info.magnolia.importexport.filters.MetadataUuidFilter;
import info.magnolia.jcr.predicate.RuleBasedNodePredicate;
import info.magnolia.jcr.util.NodeUtil;
import info.magnolia.jcr.wrapper.ChildFilteringNodeWrapper;

import java.io.File;
import java.io.FileInputStream;
import java.io.FileOutputStream;
import java.io.IOException;
import java.io.InputStream;

import javax.jcr.Node;
import javax.jcr.RepositoryException;
import javax.jcr.Session;

import org.apache.commons.io.IOUtils;
import org.apache.jackrabbit.commons.xml.SystemViewExporter;
import org.apache.jackrabbit.commons.xml.ToXmlContentHandler;
import org.apache.xml.serialize.OutputFormat;
import org.apache.xml.serialize.XMLSerializer;

import org.xml.sax.ContentHandler;
import org.xml.sax.InputSource;
import org.xml.sax.SAXException;
import org.xml.sax.XMLReader;

```



```

import org.xml.sax.helpers.XMLReaderFactory;

outputDirectory = "/path/to/directory/";
pathToNode = "/demo-project/about";

session = MgnlContext.getJCRSession("website");
page = session.getNode(pathToNode);
subpages = NodeUtil.collectAllChildren(page, new RuleBasedNodePredicate(new
Rule("mgnl:page", "")));

generateXML(page);

for(Node subpage : subpages) generateXML(subpage);

def generateXML(node) {
    tempFile = File.createTempFile("file", ".xml");
    contentHandler = new ToXmlContentHandler(new FileOutputStream(tempFile));
    exporter = new SystemViewExporter(session, contentHandler, true, true);
    rule = new Rule("mgnl:page" + "," + "mgnl:reserve", ",");
    rule.reverse();
    wrapped = new ChildFilteringNodeWrapper(node, new
RuleBasedNodePredicate(rule));
    exporter.export(wrapped);

    file = new File(outputDirectory + node.getPath().replace("/",
".").replaceFirst(".", "/") + '.xml');
    reader =
XMLReaderFactory.createXMLReader(org.apache.xerces.parsers.SAXParser.class
.getName());
    outputStream = new FileOutputStream(file);
    inputStream = new FileInputStream(tempFile);
    outputFormat = new OutputFormat();
    outputFormat.setPreserveSpace(false);
    outputFormat.setIndenting(true);
    outputFormat.setIndent(2);
    outputFormat.setLineWidth(120);
    metadataUuidFilter = new MetadataUuidFilter(reader, true);
    metadataUuidFilter.setContentHandler(new XMLSerializer(outputStream,
outputFormat));
    metadataUuidFilter.parse(new InputSource(inputStream));

    IOUtils.closeQuietly(inputStream);
    outputStream.flush();
    IOUtils.closeQuietly(outputStream);
    tempFile.delete();
}

```

```
}
```

List of dms files ordered by their size

```
hm = MgnlContext.getHierarchyManager("dms")
query = hm.getQueryManager().createQuery("select * from mgnl:resource",
"sql")
result = query.execute()
contentCollection = result.getContent(ItemType.CONTENTNODE.getSystemName())
def sortClosure = {a, b ->
  def aValue =
Integer.parseInt(a.getNodeData("document").getAttribute("size"))
  def bValue =
Integer.parseInt(b.getNodeData("document").getAttribute("size"))
  return bValue.compareTo(aValue)
}
contentCollection.sort(sortClosure)
contentCollection.each { c ->
  print c.getHandle() + " ";
  nodeData = c.getNodeData("document");
  println nodeData.getAttribute("size") + "B";
}
```

Clean mgnlSystem of mgnl: nodes

```

import javax.jcr.Node
import javax.jcr.NodeIterator

repo = "mgnlSystem"
println "Cleaning ${repo}"
sysCtx = MgnlContext.getSystemContext()
session = sysCtx.getHierarchyManager(repo)

def items = 0
try {
    Content root = session.getRoot()
    NodeIterator nodes = root.getJCRNode().getNodes()

    while (nodes.hasNext()) {
        Node child = nodes.nextNode();
        if (child.getPrimaryNodeType().getName().startsWith('mgnl:')) {
            println "Removing backup copy of '${child.getPath()}' from
${repo}, please verify that page was activated correctly to this public
instance."
            child.remove()
            items++
        }
    }
} catch (Exception e) {
    println e
}
println "${items} nodes removed."
session.save()

```

Dump Java object properties recursively

```

import info.magnolia.objectfactory.Components
import info.magnolia.module.templatingkit.sites.*
import info.magnolia.objectfactory.guice.GuiceComponentProvider
import org.codehaus.groovy.runtime.NullObject

/**
 * Usage sample. We want to dump the state of the default Site object
 * currently in memory. Filtering out 'inheritance' field.
 */
def filtered = ['inheritance']
def defSite =
Components.componentProvider.getSingleton(SiteManager.class).defaultSite
dumpObject(defSite, filtered, 0)
return 'done'

/**
 * Implementation.
 */
def dumpObject(object, filtered, level) {

def space = ''
level.times {space += "\t"}
if (object instanceof Map)
    properties = object
else
    properties = object.properties

sortedProps = properties?.sort{it.key}?.sort{!isPrimitive(it.value)}
filteredProps = sortedProps.collect{it}.findAll{!filtered.contains(it.key)}
filteredProps.each {
    if(isLeaf(it.value)){
        println space + '- ' + it
    } else {
        println space + '+ ' + it.key
        dumpObject(it.value,filtered, level+1)
    }
}
}

def isLeaf(value) {
    return [GuiceComponentProvider, NullObject, Boolean, String, Double,
Integer, Class].any { it.isAssignableFrom(value.getClass())}
}

```

## Perform a bulk operation on nodes

Say you have 30000 users under /users/admin and you need to delete them all. Notice that the save() method is called every 1000 items so to flush the JCR session periodically and avoid a possible OutOfMemory exception if we did it only once at the end of the loop.

```

hm = ctx.getHierarchyManager('users')
users = hm.getContent('/admin').getChildren('mgnl:user')

count = 0
users.eachWithIndex { user, i ->
    println "Deleting user $user.name..."
    user.delete()
    count++
    if(i % 1000 == 0)
        hm.save()
}
//perform a final saving because there might be some items left in the
current JCR session
hm.save()
return "Done deleting $count users."

```

### Export nodes with certain node types to single files

```

import info.magnolia.jcr.predicate.NodeTypePredicate;
import info.magnolia.importexport.DataTransporter

repository = "users"
nodeType = "mgnl:user"

session = ctx.getJCRSession(repository)
collection = NodeUtil.collectAllChildren(session.getRootNode(), new
NodeTypePredicate(nodeType))
collection.each { node->
    try {
        xmlFileOutput = new FileOutputStream("/your/path/" + node.name +
".xml")
        DataTransporter.executeExport(xmlFileOutput, false, false, session,
node.path, repository, DataTransporter.XML)
        xmlFileOutput.close()
    } catch (Exception e) {
        println "can't export node: " + node.path
    }
}
}

```

### Remove properties from some given bootstrap files and export the clean up files

Caveat: for some reason the files output by the script are missing the prolog `<?xml version="1.0" encoding="UTF-8"?>`

However, one can insert it back after generating the files with a sed command, e.g.

```
sed -i '.original' "1s/^/<?xml version="1.0" encoding="UTF-8"?> /" dam*.xml
```



```

import info.magnolia.cms.security.auth.ACL;
import org.apache.commons.lang.StringUtils;
import info.magnolia.cms.security.PermissionImpl;
allUsers =
SecuritySupport.Factory.getInstance().getUserManager().getAllUsers();
out.println '- which user has which group and role';
out.println '*****';
for (aUser in allUsers)
{
    out.println 'User Name: ' + aUser.name;

    out.println '\tgroups: ';
    groups = aUser.getAllGroups();
    for (group in groups) out.println '\t\t' + group;

    out.println '\troles: ';
    roles = aUser.getAllRoles();
    for (role in roles) out.println '\t\t' + role;

    out.println '';
}

out.println '';

allGroups =
SecuritySupport.Factory.getInstance().getGroupManager().getAllGroups();
out.println '- which group has which other group';
out.println '- which group has which role';
out.println '- what acl is defined for the role';
out.println '*****';
for (aGroup in allGroups)
{
    out.println 'Group Name: ' + aGroup.name;

    out.println '\tgroups: ';
    groups = aGroup.getAllGroups();
    for (group in groups) out.println '\t\t' + group;

    out.println '\troles: ';
    roles = aGroup.getRoles();
    for (role in roles) {
        out.println '\t\t' + role;

        HierarchyManager hm =
MgnlContext.getSystemContext().getHierarchyManager(ContentRepository.USER_
ROLES);
        node = hm.getContent(role);
        Iterator it = node.getChildren(ItemType.CONTENTNODE.getSystemName(),
"acl*").iterator();
        while (it.hasNext()) {
            Content aclEntry = (Content) it.next();
            String name = StringUtils.substringAfter(aclEntry.getName(), "acl_");

```

```

String repositoryName;
String workspaceName;
if (!StringUtils.contains(name, "_")) {
    repositoryName = name;
    workspaceName = ContentRepository.getDefaultWorkspace(name);
    name += ("_" + workspaceName); // default workspace must be added
to the name
}
else {
    String[] tokens = StringUtils.split(name, "_");
    repositoryName = tokens[0];
    workspaceName = tokens[1];
}

Iterator it2 = aclEntry.getChildren().iterator();
while(it2.hasNext()) {
    acl = it2.next();
    path = acl.getJCRNode().getProperty('path').getValue().getString();
    permissions =
acl.getJCRNode().getProperty('permissions').getValue().getLong();

    out.print '\t\t\t\t';
    switch (permissions) {
        case 0: out.print 'Deny access'; break;
        case 8:
            if ('uri'.equals(repositoryName)) { out.print 'Get'; break; }
            else { out.print 'Read only'; break; }
        case 11: out.print 'Post (Write)'; break;
        case 63:
            if ('uri'.equals(repositoryName)) { out.print 'Get & Post';
break; }
            else { out.print 'Read/Write'; break; }
        case 75: out.print 'Moderate (and Post)'; break;
        case 79: out.print 'Moderate and Delete'; break;
        case 111: out.print 'Administer (Moderate, Delete and Activate)';
break;
        default: out.print permissions;
    }

    out.println ' permission in the workspace ' + repositoryName + '
with path ' + path;
}
}
}

out.println '';

```



```
}  
out.println '';
```

Restore deleted pages recursively

```

import javax.jcr.version.Version;
import info.magnolia.jcr.predicate.NodeTypePredicate;

visitor = { node ->
  def lastGoodVersion

  if (node.isNodeType("mgnl:deleted")) {
    versions = versionMan.getAllVersions(node);
    while( versions.hasNext()) {
      item = versions.next();
      lastGoodVersion = item.name
      frozen = item.frozenNode
      // print item.getName() + "::"
      if (frozen.hasProperty("mgnl:comment")) {
        // println frozen.getProperty("mgnl:comment").string
        if ("Automatically created version prior deletion" ==
frozen.getProperty("mgnl:comment").string) {
          break;
        }
      } else {
        // println "no comment"
      }
    }
  }

  println "for page " + node.path + " the lucky winner is: " +
lastGoodVersion

  version = versionMan.getVersion(node, lastGoodVersion)
  versionMan.restore(node, version, true)

}

}

versionMan =
info.magnolia.objectfactory.Components.getComponent(info.magnolia.cms.core
.version.VersionManager.class);
session = MgnlContext.getSystemContext().getJCRSession("website");
NodeUtil.visit(session.getNode("/myTopLevelMaybeDeletedPage"), visitor as
NodeVisitor, new NodeTypePredicate("mgnl:page"))

```

Restore deleted contacts recursively (could be reused for any workspace/content)

```
import info.magnolia.jcr.util.NodeUtil
import org.apache.jackrabbit.commons.predicate.NodeTypePredicate
import info.magnolia.cms.core.version.VersionManager
import info.magnolia.objectfactory.Components
import javax.jcr.version.Version
import javax.jcr.version.VersionIterator

session = ctx.getJCRSession("contacts")

root = session.getNode("/")
allChildren = NodeUtil.collectAllChildren(root, new
NodeTypePredicate("mgnl:contact", true))

allChildren.each{
    templateID = NodeTypes.Renderable.getTemplate(it)
    if(templateID == "ui-admincentral:deleted"){
        println("Found deleted contact: "+it.getPath())
        println("Restoring last version of: "+it.getPath())

        VersionManager versionManager =
Components.getComponent(info.magnolia.cms.core.version.VersionManager.class);
        Version previousVersion = null;
        VersionIterator versionIterator =
versionManager.getAllVersions(it);

        while (versionIterator.hasNext()) {
            previousVersion = versionIterator.nextVersion();
        }
        if(previousVersion != null){

            versionManager.restore(it, previousVersion, true);
            println("Version Successfully restored of: "+it.getPath())
        } else{
            println("No Version found for node: "+it.getPath())
        }
    } else {
        println("Is NOT a deleted contact: "+it.getPath())
    }
}

session.save()
```

## Migration from one DB system to another

This script lets you migration from one DB system (e.g. Derby DB) to another one (e.g. MySQL DB). Make sure that no-one is writing any data to the repository you want to migrate from to prevent inconsistencies.

Should work with any Magnolia that uses jackrabbit 1.6+.

### Magnolia 4.5 & 5

```
import info.magnolia.repository.RepositoryConstants;
import javax.jcr.Repository;
import org.apache.jackrabbit.core.RepositoryCopier;
import org.apache.jackrabbit.core.RepositoryImpl;
import org.apache.jackrabbit.core.config.RepositoryConfig;
import java.io.File;

// configuration to which you want to migrate
String repositoryConfig = ""; // e.g.
/some/path/WEB-INF/config/repo-conf/jackrabbit-bundle-mysql-search.xml
String repositoryFolder = ""; // target folder where files that are stored
on FS will be transferred

// get current repository
Repository source =
ctx.getJCRSession(RepositoryConstants.WEBSITE).getRepository();
// create RepositoryConfig from given settings
RepositoryConfig targetConfig = RepositoryConfig.create(new
File(repositoryConfig), new File(repositoryFolder));
// do the migration
RepositoryCopier.copy((RepositoryImpl) source, targetConfig);
```

## Magnolia 4.4

```
import javax.jcr.Repository;
import org.apache.jackrabbit.core.RepositoryCopier;
import org.apache.jackrabbit.core.RepositoryImpl;
import org.apache.jackrabbit.core.config.RepositoryConfig;
import java.io.File;

// configuration to which you want to migrate
String repositoryConfig = ""; // e.g.
/some/path/WEB-INF/config/repo-conf/jackrabbit-bundle-mysql-search.xml
String repositoryFolder = ""; // target folder where files that are stored
on FS will be transferred

// get current repository
Repository source =
ctx.getHierarchyManager("website").getWorkspace().getSession().getReposito
ry();
// create RepositoryConfig from given settings
RepositoryConfig targetConfig = RepositoryConfig.create(new
File(repositoryConfig), new File(repositoryFolder));
// do the migration
RepositoryCopier.copy((RepositoryImpl) source, targetConfig);
```

## Removing / Cleaning the versions (5.x)

```
import info.magnolia.cms.core.version.VersionManager;
import info.magnolia.context.MgnlContext;
import info.magnolia.jcr.predicate.NodeTypePredicate;
import info.magnolia.jcr.util.NodeUtil;
import info.magnolia.jcr.util.NodeVisitor;
import javax.jcr.RepositoryException;
import javax.jcr.Session;

// specify which website you want to clean here
String path = "/travel";

VersionManager vm = VersionManager.getInstance();
Session session = MgnlContext.getJCRSession("website");
javax.jcr.Node root = session.getNode(path);
visitor = { node ->
    vm.removeVersionHistory(node);
}

NodeUtil.visit(root, visitor as NodeVisitor, new
NodeTypePredicate("mgnl:page"));
session.save();
```

## Remove Node (versions 4.x, 5.x)

```
try {
  session = MgnlContext.getJCRSession("website");
  session.removeItem("/hh");
  session.save();
} catch (Exception e) {
  print "Error " + e
}
return "done removing"
```

## Fix activation status (e.g. after manual import of content into public instance) (versions 4.5.x)

Please backup your website workspace beforehand.

### Public instance

```
import info.magnolia.jcr.util.MetadataUtil
import info.magnolia.jcr.predicate.NodeTypePredicate

file = "" // path of the file where to store result of the script
path = "/" // path of the tree to traverse

buffer = new BufferedWriter(new OutputStreamWriter(
  new FileOutputStream(file), "UTF-8"))

root = ctx.getJCRSession("website").getNode(path)

visitor = { node ->
  if (node.getPrimaryNodeType().getName().startsWith("mgnl:")) {
    date = MetadataUtil.getLastModification(node)
    str = node.identifier + "|" + node.path + "|" + (date != null ?
date.timeInMillis : "0")
    println str
    buffer.write(str)
    buffer.newLine()
  }
}

NodeUtil.visit(root, visitor as NodeVisitor, new
NodeTypePredicate("mgnl:page", false))

buffer.close()
println "done"
```

### Author instance

```
import org.apache.commons.lang.StringUtils
```

```

import javax.jcr.RepositoryException
import info.magnolia.jcr.util.MetadataUtil
import info.magnolia.jcr.predicate.NodeTypePredicate
import org.apache.commons.io.FileUtils

filePath = ""
rootPath = ""

pagePaths = []
lastModDates = []
missing = []

for (String line : FileUtils.readlines(new File(filePath))) {
    pagePaths.add(StringUtils.split(line, "|")[1])
    lastModDates.add(StringUtils.split(line, "|")[2])
}

session = ctx.getJCRSession("website")

i = 0
visitor = { node ->
    if (node.getPrimaryNodeType().getName().startsWith("mgnl:")) {
        if (pagePaths.contains(node.getPath())) {
            lastModDate =
Long.valueOf(lastModDates.get(pagePaths.indexOf(node.getPath())))
            metaData = MetadataUtil.getMetaData(node)
            date = metaData.getModificationDate()
            if (date != null) {
                if (date.timeInMillis == lastModDate) {
                    // modification date of same page on author & public equals
                    // this means page is up to date and we can set its status to
activated
                    if (!metaData.getIsActivated()) {
                        println "Set green activation status on page: " + node.path
                        metaData.setActivated()
                    }
                } else if (date.timeInMillis > lastModDate) {
                    // modification date on author is greater then on public
                    // we need to set status to activated & also check if
lastaction date
                    // is before lastmodification date
                    activationDate = metaData.getLastActionDate()
                    if (!date.after(activationDate)) {
                        newDate = date.clone()
                        newDate.add(Calendar.HOUR_OF_DAY, -1)
                        metaData.setProperty("mgnl:lastaction", newDate)
                    }
                    metaData.setActivated()
                    println "Set orange activation status on page: " + node.path
                } else {
                    // skip
                }
            }
        }
    }
}

```

```

        missing.add(node.getPath())
    } else {
        MetadataUtil.getMetadata(node).setUnActivated()
        println "Set red activation status on page: " + node.path
    }
    if (i++ % 100 == 0) {
        session.save()
        println "session saved"
    }
}
}

NodeUtil.visit(session.getNode(rootPath), visitor as NodeVisitor, new
NodeTypePredicate("mgnl:page", false))

session.save()
println "session saved"

for (String page : missing) {
    println "Page " + page + " is missing on author but is present on
public!"
}

```

Fix activation status (e.g. after manual import of content into public instance) (versions 5.x)

Please backup your website workspace beforehand.



### Public instance

```
import info.magnolia.jcr.util.MetadataUtil
import info.magnolia.jcr.predicate.NodeTypePredicate

path = "" // path of the tree to traverse
file = "" // path of the file where to store result of the script

buffer = new BufferedWriter(new OutputStreamWriter(
    new FileOutputStream(file), "UTF-8"))

root = ctx.getJCRSession("website").getNode(path)

visitor = { node ->
    if (node.getPrimaryNodeType().getName().startsWith("mgnl:")) {
        date = NodeTypes.LastModified.getLastModified(node)
        str = node.getIdentifier() + "|" + node.getPath() + "|" + (date != null
? date.timeInMillis : "0")
        println str
        buffer.write(str)
        buffer.newLine()
    }
}

NodeUtil.visit(root, visitor as NodeVisitor, new
NodeTypePredicate("mgnl:page", false))

buffer.close()
```

### Author instance

```
import org.apache.commons.lang.StringUtils
import javax.jcr.RepositoryException
import info.magnolia.jcr.util.MetadataUtil
import info.magnolia.jcr.predicate.NodeTypePredicate
import org.apache.commons.io.FileUtils

filePath = "/Users/jsimak/f.txt"
rootPath = "/travel"

pagePaths = []
lastModDates = []

for (String line : FileUtils.readlines(new File(filePath))) {
    pagePaths.add(StringUtils.split(line, "|")[1])
    lastModDates.add(StringUtils.split(line, "|")[2])
}

session = ctx.getJCRSession("website")

i = 0;
```

```

visitor = { node ->
  if (node.getPrimaryNodeType().getName().startsWith("mgnl:")) {
    if (pagePaths.contains(node.getPath())) {
      lastModDate =
Long.valueOf(lastModDates.get(pagePaths.indexOf(node.getPath())))
      date = NodeTypes.LastModified.getLastModified(node)
      if (date != null) {
        if (date.timeInMillis == lastModDate) {
          // modification date of same page on author & public equals
          // this means page is up to date and we can set its status to
activated
          if (NodeTypes.Activable.getActivationStatus(node) == 0) {
            println "Set green activation status on page: " +
node.getPath()
            node.setProperty(NodeTypes.Activable.ACTIVATION_STATUS,
true);
          }
        } else if (date.timeInMillis > lastModDate) {
          // modification date on author is greater then on public
          // we need to set status to activated & also check if
lastaction date
          // is before lastmodification date
          activationDate = NodeTypes.Activable.getLastActivated(node)
          if (!date.after(activationDate)) {
            newDate = date.clone();
            newDate.add(Calendar.HOUR_OF_DAY, -1)
            node.setProperty(NodeTypes.Activable.LAST_ACTIVATED,
newDate);
            node.setProperty(NodeTypes.Activable.ACTIVATION_STATUS,
true);
            println "Set orange activation status on page: " +
node.getPath()
          }
        } else {
          // skip
        }
      } else {
        node.setProperty(NodeTypes.Activable.ACTIVATION_STATUS, false);
        println "Set red activation status on page: " + node.getPath()
      }
    }
    if (i++ % 100 == 0) {
      session.save()
      println "session saved"
    }
  }
}

NodeUtil.visit(session.getNode(rootPath), visitor as NodeVisitor, new
NodeTypePredicate("mgnl:page", false))

session.save()
println "session saved"

```

```
for (String page : pagePaths) {  
    if (!session.nodeExists(page)) {  
        println "Page " + page + " is missing on author but is present on
```

```
public!"
    }
}
```

Make N copies of a Node at the same level (maybe useful for testing things like deleting multiple Nodes):

```
// Copy "/modules/groovy/apps/groovy" 50 times, under
"/modules/groovy/apps"

// get the config workspace:
session = MgnlContext.getJCRSession("config");

// get a node:
node = session.getNode("/modules/groovy/apps/groovy");

// copy the node n times:
(50..1).each {
    NodeUtil.copyInSession(node, "/modules/groovy/apps/${it}")
}

session.save();
```

Automatically synchronize all registered workspaces

```
subscriptions =
NodeUtil.collectAllChildren((ctx.getJCRSession('config')).getNode('/modules/synchronization/commands/synchronization/synchronize/subscriber/subscriptions'))

subscriptions.each { node ->
    workspace =
(NodeUtil.unwrap(node)).getProperty('repository').getString()

    catalog =
(info.magnolia.commands.CommandsManager.getInstance()).getCatalogByName('synchronization')

    command = catalog.getCommand('synchronize')
    command.setRepository(workspace)

    command.setPath('/')
    command.setRecursive(true)

    command.execute(ctx)
}
```