



FREE eBook

LEARNING liquibase

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#liquibase

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About

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Chapter 1: Getting started with liquibase

Remarks

This section provides an overview of what liquibase is, and why a developer might want to use it.

It should also mention any large subjects within liquibase, and link out to the related topics. Since the Documentation for liquibase is new, you may need to create initial versions of those related topics.

Examples

Installation or Setup

Detailed instructions on getting liquibase set up or installed.

Read **Getting started with liquibase online**: <https://riptutorial.com/liquibase/topic/9433/getting-started-with-liquibase>

Chapter 2: Using the tag in an archive deployed on wildfly

Introduction

If you want to use the `<includeAll>` tag in your changelog and expect it to find the relative changelog through the classloader of your wildfly application server, you may hit some issue as the Virtual file system wildfly uses produces URLs that are not properly processed by the `ClassLoaderResourceAccessor` bundled with Liquibase.

Examples

Workaround classloader for wildfly

As a workaround, you may use the wildfly-specific VFS api and write your own `ResourceAccessor` implementation, such as this one below.

```
public class WildflyVFSClassLoaderResourceAccessor extends AbstractResourceAccessor {

    private ClassLoader classLoader;

    public WildflyVFSClassLoaderResourceAccessor(ClassLoader classLoader) {
        this.classLoader = classLoader;
    }

    @Override
    public Set<String> list(String relativeTo, String path, boolean includeFiles, boolean
includeDirectories, boolean recursive) throws IOException {
        URL parentUrl = this.classLoader.getResource(relativeTo);
        if (parentUrl == null) {
            throw new IllegalStateException("Cannot locate parent");
        }
        URI parentUri;
        try {
            parentUri = parentUrl.toURI();
        } catch (URISyntaxException e) {
            throw new IllegalStateException("Invalid parent uri: " + parentUrl.toString());
        }
        VirtualFile parentFile = VFS.getChild(parentUri);
        VirtualFile parentDir = parentFile.getParent();
        VirtualFile changelogFiles = parentDir.getChild(path);
        Set<String> children = changelogFiles.getChildren()
            .stream()
            .map(VirtualFile::getName)
            .map(name -> path + name)
            .filter(file -> file != null)
            .collect(Collectors.toSet());
        return children;
    }

    @Override
```

```

public ClassLoader toClassLoader() {
    return classLoader;
}

@Override
public Set<InputStream> getResourcesAsStream(String path) throws IOException {
    Enumeration<URL> resources = classLoader.getResources(path);
    if (resources == null || !resources.hasMoreElements()) {
        return null;
    }
    Set<InputStream> resourceStream = new HashSet<>();
    while (resources.hasMoreElements()) {
        URL resourceUrl = resources.nextElement();
        try {
            URI resourceUri = resourceUrl.toURI();
            if (resourceUri.getScheme() != null &&
resourceUri.getScheme().equalsIgnoreCase("vfs")) {
                VirtualFile virtualFile = VFS.getChild(resourceUri);
                if (virtualFile.exists()) {
                    InputStream inputStream = virtualFile.openStream();
                    return Sets.newHashSet(inputStream);
                }
            }
        } catch (URISyntaxException e) {
            throw new IOException("Failed to read resource " + resourceUrl.toString());
        }
    }
    return resourceStream;
}
}

```

Read Using the tag in an archive deployed on wildfly online:

<https://riptutorial.com/liquibase/topic/9939/using-the--includeall--tag-in-an-archive-deployed-on-wildfly>

Credits

S. No	Chapters	Contributors
1	Getting started with liquibase	Community
2	Using the tag in an archive deployed on wildfly	A. Raza , cghislai