

# How to Uninstall a Module

Sometimes you may find it necessary to uninstall a module you had previously installed. This page shows how to trace the changes the module made during installation and how to revert those changes. The page is not complete, you are welcome to add to it.

⚠ Magnolia does not have an uninstall feature. A module can change many things during its installation. Reverting those changes is not simple. The conventional advice is: try a module in a throwaway environment before you deploy it into production. See [Uninstalling a module](#) for generic steps.

ℹ The example used here is the SimpleMedia module. The choice to use it as the example for how to uninstall should **NOT** be interpreted as a slight of any kind. Indeed, IMHO, the module is *extremely* well done. I only use it here as an example because the uninstall process is a bit more complicated than simply removing the jar from `WEB-INF/lib` and deleting the modules config directory.

## Remove the module dependency or JAR

1. If you are using Maven to manage your project, remove (or comment out) the dependency on that module from your POM, for example, in the case of SimpleMedia this would be the following POM snippet:

**pom.xml**

```
<dependency>
  <groupId>net.sourceforge.openutils</groupId>
  <artifactId>openutils-mgnlmedia</artifactId>
  <version>4.1</version>
</dependency>
```

2. If you are not using Maven, then make sure your app is shutdown and remove the module's JAR file from `WEB-INF/lib`

## Become a Detective

1. Download the source code for the module that you want to uninstall, make sure you grab the source for the version you currently have installed
2. Open the VersionHandler for the module you want to uninstall. Review the install and update tasks included in it, paying special attention to tasks that install or modify configuration outside of it's own module node. For instance, it's common for modules to install items under `/config/modules/ui-admincentral` and `/config/modules/standard-templating-kit`
3. Review the list of Bootstrap files located under the modules `/resources/mgnl-bootstrap` directory. The names are pretty self-explanatory, so take note of the files that don't start with `config.modules.THE_MODULE_YOU_ARE_GOING_TO_UNINSTALL`
4. With this information, go to your own project's version handler, and open it up in an editor, what we're going to do in our version handler, is reverse the install and update tasks for the module we want to uninstall.

## Example: Uninstall tasks for SimpleMedia Module

### Uninstall tasks within MyProjectModuleVersionHandler

```
register(DeltaBuilder.update("1.5.0", "Update various configurations for this module and uninstall SimpleMedia module")
    .addTask(
        new IsModuleInstalledOrRegistered("Uninstall OpenUtils SimpleMedia Module",
            "Uninstalls OpenUtils SimpleMedia Module if it is installed",
            "media",
            new ArrayDelegateTask("Uninstall OpenUtils SimpleMedia module",
                "Removes all configuration related to the OpenUtils SimpleMedia module",
                new CheckAndModifyPropertyValueTask("Update Magnolia Standard Templating Kit template-renderers",
                    "Update Magnolia Standard Templating Kit template-renderers back to the default since we are removing the OpenUtils SimpleMedia module",
                    ContentRepository.CONFIG,
                    "/modules/standard-templating-kit/template-renderers/stk",
                    "renderer",
                    "net.sourceforge.openutils.mgnlmedia.freemarker.SktSimpleMediaTemplateRenderer",
                    "info.magnolia.module.templatingkit.renderers.STKTemplateRenderer"),
                new CheckAndModifyPropertyValueTask("Update Magnolia Standard Templating Kit paragraph-renderers",
                    "Update Magnolia Standard Templating Kit paragraph-renderers back to the default
```

```

since we are removing the OpenUtils SimpleMedia module",
    ContentRepository.CONFIG,
    "/modules/standard-templating-kit/paragraph-renderers/stk",
    "class",
    "net.sourceforge.openutils.mgnlmedia.freemarker.SktSimpleMediaParagraphRenderer",
    "info.magnolia.module.templatingkit.renderers.STKParagraphRenderer"),
new NodeExistsDelegateTask("Remove 'activateMedia' command from adminInterface
configuration",
    "Removes 'activateMedia' command if it exists",
    ContentRepository.CONFIG,
    "/modules/adminInterface/commands/default/activateMedia",
    new RemoveNodeTask("Remove 'activateMedia' command",
        "",
        ContentRepository.CONFIG,
        "/modules/adminInterface/commands/default/activateMedia")
    ),
new NodeExistsDelegateTask("Remove 'media' menu from adminInterface configuration",
    "Removes 'media' menu if it exists",
    ContentRepository.CONFIG,
    "/modules/adminInterface/config/menu/media",
    new RemoveNodeTask("Remove 'media' menu",
        "",
        ContentRepository.CONFIG,
        "/modules/adminInterface/config/menu/media")
    ),
new NodeExistsDelegateTask("Remove 'mediaJCR' menu from adminInterface configuration",
    "Removes 'mediaJCR' menu if it exists",
    ContentRepository.CONFIG,
    "/modules/adminInterface/config/menu/tools/mediaJCR",
    new RemoveNodeTask("Remove 'mediaJCR' menu",
        "",
        ContentRepository.CONFIG,
        "/modules/adminInterface/config/menu/tools/mediaJCR")
    ),
new NodeExistsDelegateTask("Remove 'media-selector' from fckEditor configuration",
    "Removes 'media-selector' menu if it exists",
    ContentRepository.CONFIG,
    "/modules/fckEditor/config/browsableRepositories/media-selector",
    new RemoveNodeTask("Remove 'media-selector' menu",
        "",
        ContentRepository.CONFIG,
        "/modules/fckEditor/config/browsableRepositories/media-selector")
    ),
new NodeExistsDelegateTask("Remove 'media' handler from standard-templating-kit
damSupport configuration",
    "Removes 'media' handler from standard-templating-kit damSupport configuration if
it exists",
    ContentRepository.CONFIG,
    "/modules/standard-templating-kit/config/site/damSupport/handlers/media",
    new RemoveNodeTask("Remove 'media' handler",
        "",
        ContentRepository.CONFIG,
        "/modules/standard-templating-kit/config/site/damSupport/handlers/media")
    ),
new NodeExistsDelegateTask("Remove 'media' module configuration",
    "Removes all 'media' module configuration if it exists",
    ContentRepository.CONFIG,
    "/modules/media",
    new RemoveNodeTask("Remove all 'media' module configuration",
        "",
        ContentRepository.CONFIG,
        "/modules/media")
    ),
new NodeExistsDelegateTask("Remove 'media' mappings from server URI2RepositoryMapping
configuration",
    "Removes 'media' mappings from server URI2RepositoryMapping if it exists",
    ContentRepository.CONFIG,
    "/server/URI2RepositoryMapping/mappings/media",
    new RemoveNodeTask("Remove 'media' mappings from server URI2RepositoryMapping",
        "",
        ContentRepository.CONFIG,

```

```

        "/server/URI2RepositoryMapping/mappings/media")
    ),
    new NodeExistsDelegateTask("Remove 'sample-simplemedia' website",
        "Removes 'sample-simplemedia' website if it exists",
        ContentRepository.WEBSITE,
        "/sample-simplemedia",
        new RemoveNodeTask("Remove 'sample-simplemedia' website",
            "",
            ContentRepository.WEBSITE,
            "/sample-simplemedia")
    ),
    new WarnTask("Note: OpenUtils SimpleMedia module configuration and sample content has
been removed",
        "All configuration and sample content related to OpenUtils SimpleMedia module has
been removed.\n" +
        "IMPORTANT: Please make sure to:\n" +
        "1. Shutdown Magnolia\n" +
        "2. Drop the tables prefixed with 'media_' or 'MEDIA_'.\n" +
        "3. Delete the 'media' workspace directory from your Magnolia Repositories.\n" +
        "4. Delete the 'templates/samples-media' directory from your webapps root directory.
\n" +
        "5. Startup Magnolia")
    )
)
);

```

— TO BE CONTINUED —