

Enabling pre commit with devNext

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To enable pre-commit following steps need to be performed.

1. Creating a pre-commit file
2. Update the manifest file
3. Update the INI file

1. Creating a pre-commit file

Pre-commit file is a shell script which needs to be created in order to implement checks for the commit before any git commit command that is executed.

In order to create pre-commit following needs to be considered.

1. Inclusion of build components for each build
2. Commands that will be used for analysis
3. Pushing changes to repository

1.1 Build Components inclusion

In order to detect the build which needs to be run if file is changed, pre-commit needs that information to be available as Environment Variables. The Key and Value of environment variable should be in the format given below.

For Linux : `export <build_type>_BUILD_COMPONENTS=<comma_seprated_folders_which_are_included_in_build>`

For Windows : `SET <build_type>_BUILD_COMPONENTS=<comma_seprated_folders_which_are_included_in_build>`

build_type: This should be same as build_type available in **build** section of the configuration file.

Note: To generate Build folders you can follow this [wiki](#)

1.2 Analysis command

After all the build components has been added as export environment variables, an analysis command needs to be added. Format of analysis command will be in following format.

For Linux : `dn analyze --hooks --fda all -pre-hooks ${1} -na`

For Windows : `dn analyze --hooks --fda all -pre-hooks %1 -na`

Note: -na command signifies no authentication required for klocwork.

1.3 Pushing Changes

The changes which has been made for pre-commit now needs to be pushed to some repository so that all the developers will have the pre-commit available when they download source code.

Points to consider while pushing changes for pre-commit

1. Name of the repository where pre-commit script is pushed should be **git-hooks**.
2. All the pre-commit scripts should be pushed inside **pre-commit** folder.

To see how to make pre-commit available in manifest check the [Section 2](#)

2. Updating Manifest file

In order to make sure that manifest has the entry for pre-commit these details need to be added in any of the project manifest file.

```
<remote name=" []" fetch=[] />

<project path="git-hooks" name=[] remote=[] revision=[] />
```

All the details that are mentioned as [] should be updated with pre-commit repo details which you have pushed in Section 1.3

Updated Manifest Example:

```
<manifest>
  <include name="my2024/p42rprc/product/develop.xml" />
  <!-- pre-commit changes -->
  <remote name="eu-git" fetch="https://eu.git.visteon.com/" />
  <project path="git-hooks" name="devnext/custom-hooks" remote="eu-git" revision="pre-commit" />
  <!-- pre-commit changes end-->
</manifest>
```

3. Updating Profile file

In order to make sure that all the developers have pre-commit available in all the repositories some modifications need to be added in Profile file(INI). Here are the sections that need to be updated.

1. envsetup

3.1 envsetup

Few environment variables need to be added in order to support pre-commit.

- REPO_URL=<https://eu.git.visteon.com/devnext/git-repo.git>
- REPO_REV=devNext-hooks-v2

Example: