

devNext Installation and Workspace Configuration

Last edited by [Reddy,,Viswanatha \(V.P.\)](#) 1 month ago

Prerequisites:

- 💡 The current version of devNet 4.2.x is tested on Ubuntu-20.04, Ubuntu-24.04, and Microsoft Windows 10 and Microsoft Windows 11.
- Make sure you've completed all the prerequisites to use the devNext.

Automation Script for the prerequisites setup and devNext installation - 📄 Wiki [Link devNextv3-install.sh](#)

- For Windows users:** To set up devNext on Windows, please follow the detailed instructions in the wiki [Prerequisites setup and devNext installation on Windows](#).
- Support for Ubuntu-18.04 is deprecated.**

Steps

1. Download the latest **devNext** using the following command (Skip this step if you have used devNext auto installation script).

Perform the following Command to install devNext.

Ubuntu:

```
python3 -m pip install devNext --extra-index-url https://jfrog.sofia.visteon.com/artifactory/api/pypi/pypi-virtual/simple
```

Windows:

```
python -m pip install devNext --extra-index-url https://jfrog.sofia.visteon.com/artifactory/api/pypi/pypi-virtual/simple
```

- python3 indicates the binary name to access python version-3.x or above.
- If python or py is being used to access python version-3.x or above in the terminal, replace python3 in the above command correspondingly.
- Currently, PIP packages are available in Locations:
 - bangalore
 - chennai
 - mexico
 - sofia

2. Create a new folder where you want Source files to be present (Workspace folder).

```
mkdir <foldername>
```

Example:

```
vreddy10@IND6LXPKL3: ~
vreddy10@IND6LXPKL3:~$ mkdir devnext-workspace
```

- ❗ **Note:** You need to perform the Directory Creation Command in the User Home directory if it is WSL.

3. Please follow any one of the options from below to setup your workspace:

a) Execute the following command to Create a devNext workspace.

```
devNext workspace add --name <Workspace_name> --profile <profile_path> --d <path>
```

(or)

- With Latest devNext 4.0.x version, the workspace name and path will be suggested. You can either enter your preferred name and path or press Enter to continue

```
devNext workspace add --profile <profile_path>
```

```
smohana1@IND3Y87TG3:~$ mkdir AUDI_WORKSPACE
smohana1@IND3Y87TG3:~$ cd AUDI_WORKSPACE/
smohana1@IND3Y87TG3:~/AUDI_WORKSPACE$ dn ws add --profile https://bsp-os.git.visteon.com/platform/bsp-os/programs/audi/manifest/-/blob/develop/my2025/padifpk/audi_my2025_padifpk_2004.ini?ref_type=heads
```

(or)

b) Execute the following command to Create a devNext workspace step by step by providing the details:

```
devNext workspace add
```

Example:

```
smohana1@IND3Y87TG3:~/AUDI_WORKSPACE$ dn ws add
Running devNext version : 4.0.0
Enter workspace name [AUDI_WORKSPACE_74a2475a_dn]:
Enter workspace path [/home/smohana1/AUDI_WORKSPACE]:
No profile Given
New Profile: https://bsp-os.git.visteon.com/platform/bsp-os/programs/audi/manifest/-/blob/develop/my2025/padifpk/audi_my2025_padifpk_2004.ini?ref_type=heads
Verifying Profile...
Done.
Workspace 'AUDI_WORKSPACE_74a2475a_dn' has been configured!!
smohana1@IND3Y87TG3:~/AUDI_WORKSPACE$ |
```

! Note: From devNext 4.0.x onwards, User needs to supply Profile Path Alone. Ensure that the Workspace Path is not the User Home Directory, and note that configuring a workspace within an already configured workspace folder is not permitted.

You can access the sample profile file [here](#).

4. (Optional) You can activate your workspace from anywhere after you have created it with the following command. It is recommended to run the devNext commands outside the activated environment and the activated environment is for debugging.

- Alternatively you can directly proceed with `devNext gitfetch` or `devNext build`

```
devNext workspace activate --name <Workspace_name>
```

Example: **! Note:** devNext activate session is not recommended, this feature is used for debugging purpose. You can directly run devNext commands from the workspace.

5. (Optional) If your Program requires any System Updates/Installations related to OS. Please run the following command.

```
devNext sysupdate
```

6. You can execute following command to download source code after activating workspace.

If your project used Git for Source Download.

```
devNext gitfetch
```

(or)

If your Gitfetch Section is dependent on Environment Variables.

Example: Here we're passing Manifest and Branch Environment Variables while running the gitfetch command.

! Note: To invalidate the Git credentials in git cache, run the devNext gitfetch command with '--login' option.

```
devNext gitfetch --login
```

Example:

! Note: After fetching the initial version of the Code, if you want to update the workspace to the latest changes run.

```
devNext gitupdate
```

7. To build project binaries run the following command.

```
devNext build --type=<build_type>
```

Example:

- To perform static code analysis you can refer the link [devNext with klocwork](#)

Q2A Forum: Q&A platform helps find answers and ask your questions, learn and share knowledge <https://q2a.visteon.com>

Support: If you've any Queries w.r.t above mentioned steps, please reach out to devNext.support@visteon.com