devNext Command Line Interface (CLI)

Last edited by **VREDDY10** 7 months ago

Running devNext version: 4.0.0 (in beta)

Usage

```
dn --help
```

Options

```
Usage: dn [OPTIONS] COMMAND [ARGS]...

Options:
  -V, --version                 Show the version and exit.
  -y, --assume-yes              Response to all user prompts for [yes/no]
                                are treated as 'yes'
  -l, --location, --loc [sofia|bangalore|chennai|pune|mexico]
                                Nearest Location for Packages and
                                Sources(Mirrors) Download
  --help                        Show this message and exit.


Commands:
  analyze        Wrapper for Klocwork tool for Code Quality analysis
  build          Project specific build commands from Profile
  ci             Commands for CI environment
  cmd            Command to execute the custom commands
  codechecker    Analyzes workspace for Duplicate Source Code
  getinitemplate Command to create an profile template
  gitfetch       Project specific source code fetch from git
  gitupdate      Project specific source code update from git
  islatest       Checks if devNext is upto date
  support        Profile support contact
  sysupdate      Installs system requirements(Linux/WSL only)
  update         Upgrades devNext to latest version available
  workspace      Managing project's Workspaces and tool chain
```

Commands

▼ analyze command

```
Usage: dn analyze [OPTIONS]

   Wrapper for Klocwork tool for Code Quality analysis

Options:
  -t, --type TEXT               Type of Build command to be executed
  -u, --url TEXT                URL of the server for analysis
  -s, --stream TEXT             Project Stream name
  -o, --out TEXT                Output directory for the analysis results
  -F, --force                   Forces the analysis even if tables are
                                available
  -I, --incremental             Only analyze files from last changed
  -if, --ignore-files TEXT      Comma separated files to be ignored during
                                build
  --prog TEXT                   Extra programs to be intercepted during
                                build
  -pd TEXT                      Path to local project directory
  -sd TEXT                      Path to setting directory for local project
  --auth / -na, --no-auth       Flag for authentication (Default:--no-auth)
  -ph, --pre-hooks TEXT         Enables code quality check mechanism in CI
  --hooks                       Flag for identifying the build type
  --fda RESOLVE_PATH            Files to be analyzed
  -rr, --reduction-rate INTEGER Reduction rate for the existing defects
```

```
 -td, --tables-dir TEXT          Name of the tables directory folder
 --name TEXT                     Name of the Workspace
 --env TEXT                      <ENVNAME>=<ENVVALUE> can be used to set an
                                 environment variable. If you have more than
                                 one env variable then need to repeat '--env'
                                 for each variable.Example: --env
                                 MANIFEST=/home/users/manifest.xml --env
                                 BRANCH=develop
 -nb, --no-build                 To avoid executing the build command
 --channel TEXT                  Channel for the analyzer Package
 -x, --exclude-issues TEXT       Path to .sconf for issue exclusion
 -bs, --build-spec [android|kotlin|c]
                                 Flag to specify which Klocwork tool to be
                                 used for build specification genertaion
 -av, --android-version INTEGER  Android version of the source code
 -ad, --android-dir TEXT         Directory path where android source code
                                 will be available
 -nr, --no-resolve               Option to avoid following symbolic links
                                 during build
 -ks, --kotlin-src TEXT          Path of kotlin source code
 --excludes TEXT                 Paths to be excluded for kotlin analysis
 --includes TEXT                 Paths to be included for Kotlin analysis
 -j, --jobs TEXT                 Parallelization to be done for analysis
 --help                          Show this message and exit.
```

▼ build command

```
Usage: devNext build --type=[vp|gp|dm|img|bl|hsm|vpclean|gpclean|dmclean|imgclean|blclean|hsmclean|vpkwbuild|gpkwbuild

        Command to build the source code


Options:
--type             [vp|gp|dm|img|bl|hsm|vpclean|gpclean|dmclean|imgclean|blclean|hsmclean|vpkwbuild|gpkwbuild|gp_x86
--env TEXT         <ENVNAME>=<ENVVALUE> can be used to set an environment
                   variable. If you have more than one env variable then need to
                   repeat '--env' for each variable.
                   Example:
                       --env MANIFEST=/home/users/manifest.xml --env BRANCH=develop
-l, --location, --loc ['sofia', 'bangalore', 'chennai', 'pune', 'mexico']
                   Nearest Location for Packages and Sources(Mirrors) Download
--help             Show this message and exit.
--name TEXT        Name of the workspace
--repo-sync        Executes gitupdate, before build, to fetch latest code.
Build Commands:
<list of build commands based on the project>
```

▼ cmd command

```
Usage: dn cmd [OPTIONS] COMMAND

    COMMAND : command that needs to be executed
            If COMMAND has arguments, use quotes to surround the command.
                Ex. devNext cmd "python3 --version"


Options:
--name TEXT                     Name of the Workspace
-l, --location, --loc [sofia|bangalore|chennai|pune|mexico]
                                Nearest Location for Packages and
                                Sources(Mirrors) Download
--help                          Show this message and exit.
```

▼ **codechecker command**

```
Usage: devNext codechecker [OPTIONS]

    Analyzes the workspace for the Duplicate Source Code

Options
    Module wise or Directory Analysis: [mutually_exclusive, required]

        --module=[]     Modules to be analyzed
        --dir TEXT          Directories to be analyzed (Comma `,`
                            separated multiple Directories can be given)
--name TEXT         Name of the workspace
--outdir TEXT       Output directory where all the reports will
                    be stored. Default out directory is
                    `$DEVNEXT_WORKSPACE_PATH/codeCheckReport`
--tokens TEXT       No. of characters to be considered as
                    duplicate
--exclude TEXT      Files and folders that need to be excluded
--env TEXT          <ENVNAME>=<ENVVALUE> can be used to set an environment
                    variable. If you have more than one env variable then need to
                    repeat '--env' for each variable.
                    Example:
                        --env FOLDER=/path/to/folder --env VARIANT=s2dot8

Modules available to Analyze:
<list of modules for code checker analysis>
```

▼ **getinitemplate command**

```
Usage: dn getinitemplate [OPTIONS]

    Command to create an profile template

Options:
    --help  Show this message and exit.
```

▼ **gitfetch command**

```
Usage: dn gitfetch [OPTIONS]

    Project specific source code fetch from git

Options:
    --name TEXT                 Name of the Workspace
    --forcesync                 Force Updates the workspace
    --env TEXT                  <ENVNAME>=<ENVVALUE> can be used to set an
                                environment variable. If you have more than
                                one env variable then need to repeat '--env'
                                for each variable.Example: --env
                                MANIFEST=/home/users/manifest.xml --env
                                BRANCH=develop
    --login                     Invalidates the credential cache and asks
                                for git userid and password
    -l, --location, --loc [sofia|bangalore|chennai|pune|mexico]
                                Nearest Location for Packages and
                                Sources(Mirrors) Download
    --only-source-code          Loads packages required only for git
                                fetch/update (viz. repo and git)
    --help                      Show this message and exit.

    Note:-

    Default Git Server for Credential validation : https://git.visteon.com
```

```
    This can be changed by defining shell variable 'DEVNEXT_GIT_LOGIN_URL' to a
    different Git Server.
```

▼ **gitupdate command**

```
Usage: dn gitupdate [OPTIONS]

    Project specific source code update from git

Options:
    --forcesync                    Force Updates the workspace
    --name TEXT                    Name of the Workspace
    --env TEXT                     <ENVNAME>=<ENVVALUE> can be used to set an
                                   environment variable. If you have more than
                                   one env variable then need to repeat '--env'
                                   for each variable.Example: --env
                                   MANIFEST=/home/users/manifest.xml --env
                                   BRANCH=develop
    --login                        Invalidates the credential cache and asks
                                   for git userid and password
    -l, --location, --loc [sofia|bangalore|chennai|pune|mexico]
                                   Nearest Location for Packages and
                                   Sources(Mirrors) Download
    --only-source-code             Loads packages required only for git
                                   fetch/update (viz. repo and git)
    --help                         Show this message and exit.

    Note:-

    Default Git Server for Credential validation : https://git.visteon.com
    This can be changed by defining shell variable 'DEVNEXT_GIT_LOGIN_URL' to a
    different Git Server.
```

▼ **islatest command**

```
Usage: dn islatest [OPTIONS]

    Checks if devNext is upto date

Options:
    -l, --location, --loc [sofia|bangalore|chennai|pune|mexico]
                                   Nearest Location for Packages and
                                   Sources(Mirrors) Download
    --help                         Show this message and exit.
```

▼ **support command**

```
Usage: dn support [OPTIONS]

    Profile support contact

Options:
    --name TEXT  Name of the workspace
    --help       Show this message and exit.
```

▼ **sysupdate command**

```
Usage: dn sysupdate [OPTIONS]

    Installs system requirements(Linux/WSL only)

Options:
    --name TEXT                    Name of the Workspace
    -l, --location, --loc [sofia|bangalore|chennai|pune|mexico]
```

```
                                      Nearest Location for Packages and
                                      Sources(Mirrors) Download
  --help                              Show this message and exit.
```

▼ update command

```
Usage: dn update [OPTIONS]

  Upgrades devNext to latest version available

      Note:- On Windows, after upgrade, close and reopen Command Prompt

Options:
  -y, --assume-yes                 Assume Yes to all queries and do not prompt
  -l, --location, --loc [sofia|bangalore|chennai|pune|mexico]
                                   Nearest Location for Packages and
                                   Sources(Mirrors) Download
  --help                           Show this message and exit.
```

▼ workspace command(s)

```
Usage: dn workspace [OPTIONS] COMMAND [ARGS]...

  Managing project's Workspaces and tool chain

Options:
  --help  Show this message and exit.

Commands:
  activate  Activates the workspace
  add       Creates the specified Workspace
  delete    Deletes the specified Workspace
  details   Details of the given Workspace
  list      List the Workspaces
  modify    Modifies the specified workspace
  rename    Rename the Workspace
```

▼ devNext workspace activate

```
Usage: devNext workspace activate [OPTIONS] --type=[vp|gp|dm|img|bl|hsm|vpclean|gpclean|dmclean|imgclean|blclean|hsm

          Command to activate a workspace

          It is recommended to run the devNext commands outside the activated environment
          and activated environment is for debugging.

Options:
  --type TEXT          [vp|gp|dm|img|bl|hsm|vpclean|gpclean|dmclean|imgclean|blclean|hsmclean|vpkwbuild|gpkwbuild|gp_x8
  --name TEXT          Name of the workspace
  --env TEXT           <ENVNAME>=<ENVVALUE> can be used to set an environment
                       variable. If you have more than one env variable then need to
                       repeat '--env' for each variable.
                       Example:
                            --env MANIFEST=/home/users/manifest.xml --env BRANCH=develop
  -l, --location, --loc ['sofia', 'bangalore', 'chennai', 'pune', 'mexico']
                       Nearest Location for Packages and Sources(Mirrors) Download
  --help               Show this message and exit.
```

▼ devNext workspace add

```
Usage: dn workspace add [OPTIONS]

  Creates the specified Workspace
```

```
Options:
  --profile TEXT   Profile for the workspace
  --name TEXT      Name of the workspace
  --d, --dir PATH  Path of the workspace
  --help           Show this message and exit.
```

▼ devNext workspace delete

```
Usage: dn workspace delete [OPTIONS]

  Deletes the specified Workspace

Options:
  --name TEXT        Name of the workspace  [required]
  --force            Deletes workspace folder for the workspace
  -y, --assume-yes   Skip permission to delete Workspace
  --help             Show this message and exit.
```

▼ devNext workspace details

```
Usage: dn workspace details [OPTIONS]

  Details of the given Workspace

Options:
  --name TEXT                    Name of the workspace
  -s, --section [isolation|projectname|requires|pip|apt|gitfetch|gitupdate|build|systemrequirements|envsetup|command
                                 Name of the section eg: dn ws details
                                 --section apt
  --help                         Show this message and exit.
```

▼ devNext workspace list

```
Usage: dn workspace list [OPTIONS]

  List the Workspaces

Options:
  --help  Show this message and exit.
```

▼ devNext workspace modify

```
Usage: dn workspace modify [OPTIONS]

  Modifies the specified workspace

Options:
  --name TEXT      Name of the workspace
  --profile TEXT   New profile to be used
  --tolocal        Converts the remote ini file to Local ini file
  --help           Show this message and exit.
```

▼ devNext workspace rename

```
Usage: dn workspace rename [OPTIONS]

  Rename the Workspace

Options:
  --name TEXT     Name of the workspace  [required]
  --newname TEXT  New name of the workspace  [required]
  --help          Show this message and exit.
```

CI Commands

▼ **ci command(s)**

```
Usage: dn ci [OPTIONS] COMMAND [ARGS]...

  Commands for CI environment

Options:
  --help  Show this message and exit.

Commands:
  analyze    Wrapper for Klocwork tool for Code Quality analysis
  build      Command to build the source code
  gitfetch   Fetches the source code from git
  gitupdate  Updates the source code from git
  upload     Artifact upload
```

▼ **devNext analyze build**

```
Usage: devNext ci build --type=[vp|gp|dm|img|bl|hsm|vpclean|gpclean|dmclean|imgclean|blclean|hsmclean|vpkwbuild|gpkw

          Command to build the source code

Options:
--type              [vp|gp|dm|img|bl|hsm|vpclean|gpclean|dmclean|imgclean|blclean|hsmclean|vpkwbuild|gpkwbuild|gp_x8
--env TEXT          <ENVNAME>=<ENVVALUE> can be used to set an environment
                    variable. If you have more than one env variable then need to
                    repeat '--env' for each variable.
                    Example:
                        --env MANIFEST=/home/users/manifest.xml --env BRANCH=develop
-l, --location, --loc ['sofia', 'bangalore', 'chennai', 'pune', 'mexico']
                    Nearest Location for Packages and Sources(Mirrors) Download
--help              Show this message and exit.
--profile           Profile file path of the workspace
--dir               Path of the workspace
Build Commands:
<list of build commands>
```

▼ **devNext ci build**

```
Usage: devNext ci build --type=[vp|gp|dm|img|bl|hsm|vpclean|gpclean|dmclean|imgclean|blclean|hsmclean|vpkwbuild|gpkw

          Command to build the source code

Options:
--type              [vp|gp|dm|img|bl|hsm|vpclean|gpclean|dmclean|imgclean|blclean|hsmclean|vpkwbuild|gpkwbuild|gp_x8
--env TEXT          <ENVNAME>=<ENVVALUE> can be used to set an environment
                    variable. If you have more than one env variable then need to
                    repeat '--env' for each variable.
                    Example:
                        --env MANIFEST=/home/users/manifest.xml --env BRANCH=develop
-l, --location, --loc ['sofia', 'bangalore', 'chennai', 'pune', 'mexico']
                    Nearest Location for Packages and Sources(Mirrors) Download
--help              Show this message and exit.
--profile           Profile file path of the workspace
--dir               Path of the workspace
Build Commands:
<list of build commands>
```

▼ devNext ci gitfetch

```
Usage: dn ci gitfetch [OPTIONS]

  Fetches the source code from git

Options:
  --profile TEXT              Profile to use for fetching  [required]
  --d, --dir PATH             Path of the workspace
  --env TEXT                  <ENVNAME>=<ENVVALUE> can be used to set an
                              environment variable. If you have more than
                              one env variable then need to repeat '--env'
                              for each variable.Example: --env
                              MANIFEST=/home/users/manifest.xml --env
                              BRANCH=develop
  -l, --location, --loc [sofia|bangalore|chennai|pune|mexico]
                              Nearest Location for Packages and
                              Sources(Mirrors) Download
  --help                      Show this message and exit.
```

▼ devNext ci gitupdate

```
Usage: dn ci gitupdate [OPTIONS]

  Updates the source code from git

Options:
  --profile TEXT              Profile to use for fetching  [required]
  --d, --dir PATH             Path of the workspace
  --env TEXT                  <ENVNAME>=<ENVVALUE> can be used to set an
                              environment variable. If you have more than
                              one env variable then need to repeat '--env'
                              for each variable.Example: --env
                              MANIFEST=/home/users/manifest.xml --env
                              BRANCH=develop
  -l, --location, --loc [sofia|bangalore|chennai|pune|mexico]
                              Nearest Location for Packages and
                              Sources(Mirrors) Download
  --help                      Show this message and exit.
```

▼ devNext ci upload

```
Usage: dn ci upload [OPTIONS]

  Artifact upload

Options:
  --profile TEXT              Profile to use for upload  [required]
  --d, --dir PATH             Path of the workspace
  --repo-name TEXT            Artifactory repository Name  [required]
  --artifactory-server TEXT   Artifactory server URL  Example:
                              jfrog.sofia.visteon.com
  --src-dir TEXT              Path of folder/file to be archived and
                              uploaded, Relative to workspace folder
  --artifact-name TEXT        Artifact name
  --excludes TEXT             Path of files/folders to be excluded from
                              the artifact archive, Relative to workspace
                              folder
  --dst-dir TEXT              Path of Artifact files within the
                              Artifactory Repository
  --env TEXT                  <ENVNAME>=<ENVVALUE> can be used to set an
                              environment variable. If you have more than
                              one env variable then need to repeat '--env'
                              for each variable.Example: --env
                              MANIFEST=/home/users/manifest.xml --env
                              BRANCH=develop
```

```
   -l, --location, --loc [sofia|bangalore|chennai|pune|mexico]
                                Nearest Location for Packages and
                                Sources(Mirrors) Download
   --help                       Show this message and exit.
```

FAQs at https://q2a.visteon.com/tag/git/