

# CLI Tool

Page for the command line interface tool to interact with the build system.

Proposal - We can use Github CLI since it has commands we need like manually triggering the workflow. Also we can create custom commands.  
[Github CLI documentation - GitHub Docs](#)

Plan - We will create our custom CLI, which can wrap around many of the gh cli commands that we expect will be used.

Temporary Location: [BuildSystem/bs\\_cli at main · ad-build-test/BuildSystem \(github.com\)](#)

Proposed list of additional CLI commands/operations:

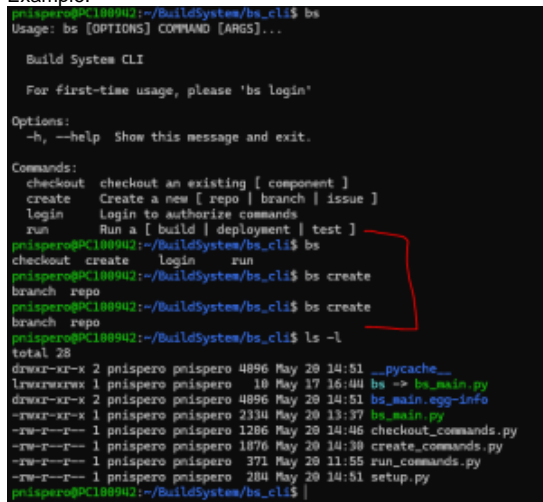
- create related GH Issue (or JIRA) based on given CATER
- create new repo from template
  - Command is there, need to create the template(s).
- checkout component repo
- create bugfix branch from designated branch/tag/commit
- Run workflow:
  - build - locally or remotely
  - deploy - specific location
  - test - locally or at specific location
- mark bugfix branch as ready for official/final review
- tag management
  - create
  - modify
  - mark as bad
  - delete

Introduction:

This command allows for auto completion ([Shell Completion — Click Documentation \(8.1.x\) \(palletsprojects.com\)](#)):

```
eval "$(_BS_COMPLETE=bash_source bs)"
```

Example:



```
pnispero@PC1000U2:~/BuildSystem/bs_cli$ bs
Usage: bs [OPTIONS] COMMAND [ARGS]...

Build System CLI

For first-time usage, please 'bs login'

Options:
  -h, --help  Show this message and exit.

Commands:
  checkout  checkout an existing [ component ]
  create    Create a new [ repo | branch | issue ]
  login     Login to authorize commands
  run       Run a [ build | deployment | test ]

pnispero@PC1000U2:~/BuildSystem/bs_cli$ bs
pnispero@PC1000U2:~/BuildSystem/bs_cli$ bs create
pnispero@PC1000U2:~/BuildSystem/bs_cli$ bs login
pnispero@PC1000U2:~/BuildSystem/bs_cli$ bs run
pnispero@PC1000U2:~/BuildSystem/bs_cli$ ls -l
total 28
drwxr-xr-x 2 pnispero pnispero 4096 May 20 14:51 __pycache__
lrwxrwxrwx 1 pnispero pnispero 10 May 17 16:44 bs -> bs_main.py
drwxr-xr-x 2 pnispero pnispero 4096 May 20 14:51 bs_main.egg-info
-rwxr-xr-x 1 pnispero pnispero 2334 May 20 13:37 bs_main.py
-rw-r--r-- 1 pnispero pnispero 1286 May 20 14:46 checkout_commands.py
-rw-r--r-- 1 pnispero pnispero 1076 May 20 14:30 create_commands.py
-rw-r--r-- 1 pnispero pnispero 371 May 20 11:55 run_commands.py
-rw-r--r-- 1 pnispero pnispero 284 May 20 14:51 setup.py
pnispero@PC1000U2:~/BuildSystem/bs_cli$
```

TODO: See if we can add it to every user's .bashrc (or maybe just call that within the CLI once)

Current:

1. **work on cli** - plan of making our own, but can use gh cli as one of tools
  - a. Make our own cli - can use python (for ease of development, and speed is not important since its ran from a dev's machine as just another process)
  - b. Use [GNU Coding Standards](#) section 4.8 'standards for command line interfaces'
  - c. Currently have a structure laid out, and have some commands available