THE WORKFLOW ENGINE

This manual was automatically generated with the command line:

`bin/workflow builtin manual builtin`

1 Draft Specification Manual: target`builtin`

1.1 Target: builtin

the builtin target allows starting a new project and upgrading existing projects

1.2 Alphabetical list of `builtin` operations

1.2.1 builtin add_role

builtin add_role: add a new role and update the configuration to integrate it.

1.2.1.1 synopsis:

builtin add_role <role-name> <role-description> [-- <options>]

1.2.1.2 arguments:

`ARGV[0]`: name of the new role.

`ARGV[1]`: description of the new role.

1.2.1.3 options:

`--dockerfile`: A reference to a docker file. This also configures the new role as a docker role.

`--localuser`: Set this for a local user role.

`--scp-options`: Something like ' -o LogLevel=ERROR -o StrictHostKeyChecking=no -o UserKnownHostsFile=/dev/null'.

`--ssh-options`: Something like ' -o LogLevel=ERROR -o StrictHostKeyChecking=no -o UserKnownHostsFile=/dev/null'.

`--ssh-password`: Be careful not to expose passwords that are sensitive (read them through a separate piece of code and insert them in the configuration afterwards).

`--ssh-port`: This defaults to 22.

`--ssh-server`: An IP address or known host name.

`--ssh-user`: The ssh user name.

`--tmux-session`: The tmux session name.

1.2.1.4 notes: It is possible to combine options but you may have to tweak the remote policy after adding the role. For example, this is a valid configuration:

```
tmux_ssh_cd:
  description: interaction with the combined ssh / tmux session to test cd commands
  name: tmux_ssh_cd
  remote_policy: 'tmux send-keys -t ssh_cd '
```

```
ssh_options: -o LogLevel=ERROR -o StrictHostKeyChecking=no -o UserKnownHostsFile=/dev/null
ssh_password: harness
ssh_port: 22
ssh_server: 172.18.0.22
ssh_user: root
```

1.2.2 builtin add_target

builtin add_target: add a new target and update the configuration to integrate it.

1.2.2.1 synopsis:

builtin add_target <target-name> <target-description> [-- <options>]

1.2.2.2 arguments:

`ARGV[0]`: name of the new target.

`ARGV[1]`: description of the new target.

1.2.2.3 options:

`--install-commands-pl`: install a perl command file template.

`--install-commands-py`: install a python command file template.

`--install-commands-sh`: install a shell command file template.

1.2.3 builtin archive_configuration

builtin archive_configuration: create a tarball with the configuration of the current workflow project.

1.2.3.1 synopsis:

builtin archive_configuration <tarball-name>

1.2.3.2 arguments:

`ARGV[0]`: name of the tarball. Recognized filename extensions are 'tar.gz', 'tar.bz2', '.tgz' and '.tbz'.

1.2.4 builtin docker_containers_start

builtin docker_containers_start: Start the docker images / containers that are required for the roles in this project.

1.2.5 builtin docker_images_build

builtin docker_images_build: Build the docker images that are required for the roles in this project.

1.2.6 builtin fetch_scripts

builtin fetch_scripts: do 'git fetch' in the workflow project directory to fetch the latest changes without updating the current workflow configuration.

1.2.7 builtin grep

builtin grep: Grep for a regex in the workflow scripts of the selected workflow projects.

1.2.7.1 synopsis:

builtin grep <grep-regex> [<project-name-regex> <project-name-regex> ...]

1.2.7.2 arguments:

`ARGV[0]`: A regular expression to search for.

`ARGV[1] and following`: Regular expressions to match with project names. The default is this project if there is one, else all known projects.

1.2.8 builtin install_scripts

builtin install_scripts : install or upgrade the workflow scripts that are found in the current directory.

1.2.8.1 options:

`--aliasses`: configure the grc aliases in .bashrc if they are not there yet.

`--bash-completion`: configure bash completion in .bashrc if they are not there yet.

`--commands`: install or upgrade the command configuration to ~/bin or ~/.local/bin.

`--engine`: create a symbolic link to the workflow engine in ~/bin or ~/.local/bin.

`--force`: don't use this.

`--git`: create a git repository for the workflow configuration.

`--grc-configuration`: install symbolic links for grc configuration to color code the workflow output (requires sudo access).

`--path-in-bashrc`: update .bashrc to include ~/bin or ~/.local/bin in PATH.

`--report`: report on what is being done.

Note that grc configuration files will also be installed and configured.

1.2.9 builtin manual

builtin manual : print the manual to stdout.

1.2.9.1 synopsis:

builtin manual [<target>] [-- <--options>]

1.2.9.2 arguments:

`ARGV[0]`: **The regular expression target to which to build a manual.** Without a project the default is 'builtin'. With a project the default is everything except 'builtin'.

`ARGV[1]`: The type of manual (now always specification, later maybe also user).

1.2.9.3 options:

`--input-md`: Assume an input format of MarkDown.

`--input-rst`: Assume an input format of ReStructuredText, this is the default.

`--output-pdf`: Generate a PDF document.

`--remove-intermediate-files`: Remove intermediate files.

`--view`: Start the `okular` viewer on the generated `pdf` document.

1.2.10 builtin print_configuration_directory

builtin print_configuration_directory : print the directory where the configuration of this project is found.

1.2.10.1 arguments:

none.

1.2.11 builtin pull_scripts

builtin pull_scripts: do 'git pull' in the workflow project directory to fetch the latest changes and immediately update the current workflow configuration.

1.2.12 builtin rename_project

builtin rename_project: Rename the project from which this command is invoked (the 'current' project).

1.2.12.1 arguments:

`ARGV[0]`: the new project name.

`ARGV[1]`: leave this empty if you don't want your ~/.bashrc to be updated automatically (you will be prompted to do so manually).

1.2.13 builtin start_project

builtin start_project: start a new project with a given name in the current directory.

This will create a project descriptor, a configuration file and an empty command file in the current working directory.

1.2.13.1 arguments:

`ARGV[0]`: name of the new project.

1.2.14 builtin tmux_create_sessions

builtin tmux_create_sessions: Create one or more configured tmux session(s).

ARGV[0]: Optional name of a configured tmux session (the default is all configured sessions).

Configured tmux sessions are: