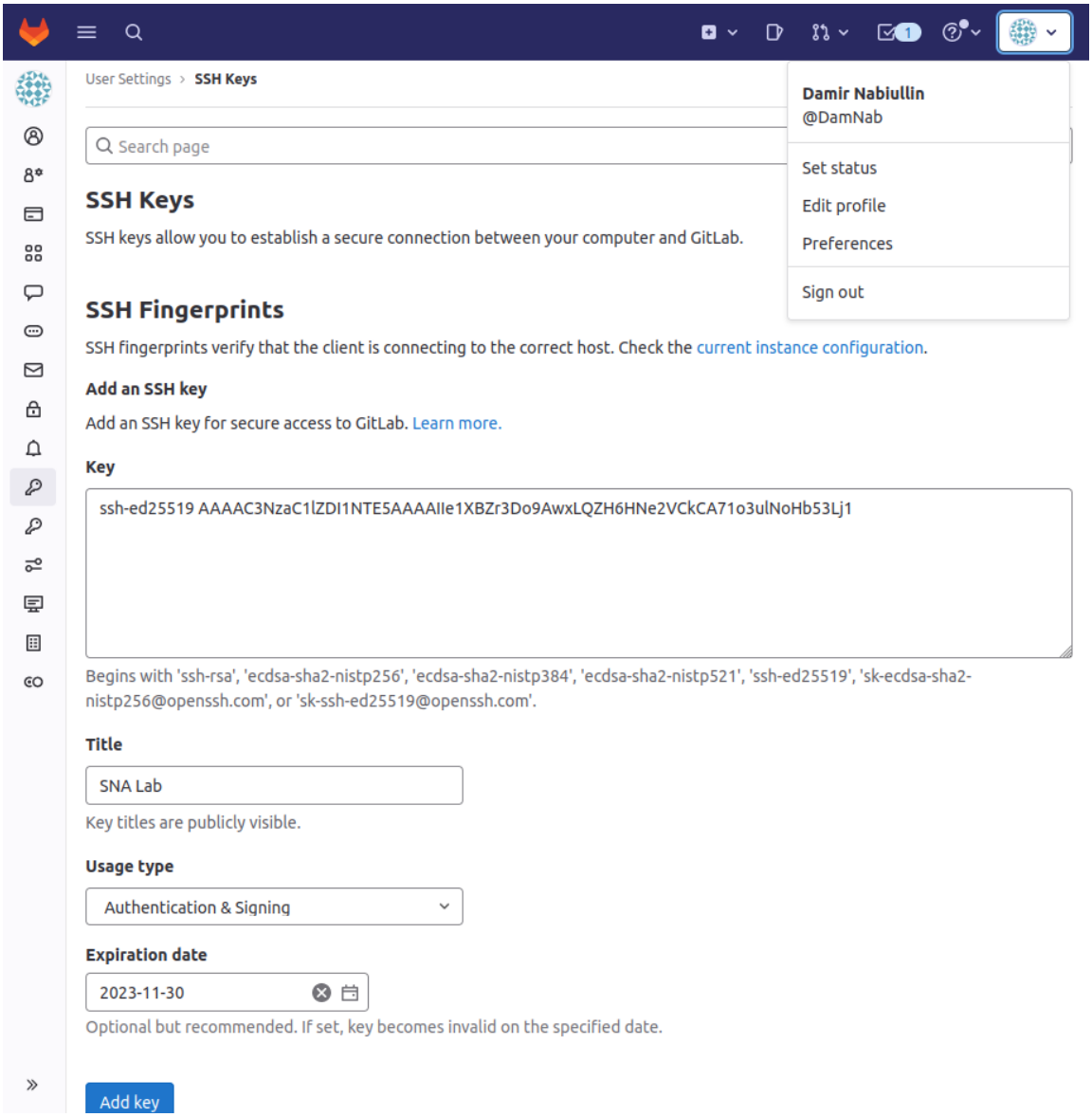
Damir Nabiullin - Lab 13

1. Question 1:

```
dale@dale-nitro:~$ ssh-keygen -t ed25519 -C "gitlab"
Generating public/private ed25519 key pair.
Enter file in which to save the key (/home/dale/.ssh/id_ed25519): gitlab_ssh
Enter passphrase (empty for no passphrase):
Enter same passphrase again:
Your identification has been saved in gitlab_ssh
Your public key has been saved in gitlab_ssh.pub
The key fingerprint is:
SHA256:TvEBU5k5lQaGrYfgCKPn6Z0eBkFvKXRvuuNPEnpz7Ao gitlab
The key's randomart image is:
+--[ED25519 256]--+
|  o .   o++*..   |
| ooo o. .+* o    |
| .oo+oo..o.o     |
|. .+.o. oo..     |
| o..o   S..      |
|  oo + o         |
| .E.O.+ .        |
|  .=oO           |
|   .+oo          |
+----[SHA256]-----+
```

```
dale@dale-nitro:~$ cat gitlab_ssh.pub
ssh-ed25519 AAAAC3NzaC1lZDI1NTE5AAAAIIe1XBZr3Do9AwxLQZH6HNe2VCkCA71o3ulNoHb53Lj1
 gitlab
dale@dale-nitro:~$
```

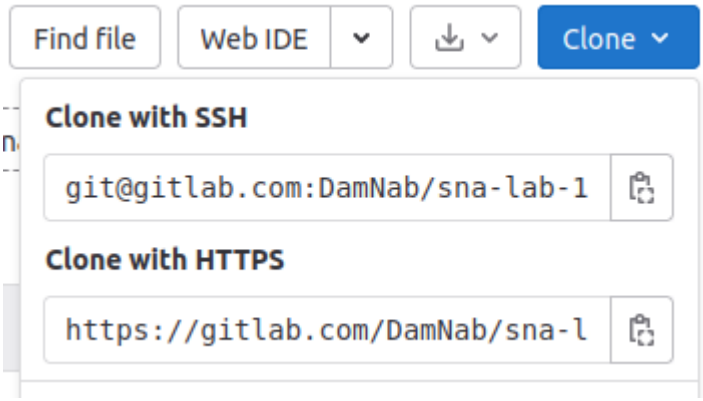


2. Squash commits - take all changes among commits and combine them into one complex commit. Usually this action is performed during so called “interactive rebase”.

3. If you would prefer a clean, linear history free of unnecessary merge commits, you should reach for `git rebase` instead of `git merge` when integrating changes from another branch.

   On the other hand, if you want to preserve the complete history of your project and avoid the risk of re-writing public commits, you can stick with `git merge`. Either option is perfectly valid, but at least now you have the option of leveraging the benefits of `git rebase`.

4.




```
dale@dale-nitro:~$ mkdir SNA_13
dale@dale-nitro:~$ cd SNA_13
dale@dale-nitro:~/SNA_13$ git init
Initialized empty Git repository in /home/dale/SNA_13/.git/
dale@dale-nitro:~/SNA_13$ git remote add origin git@gitlab.com:DamNab/sna-lab-13.git
dale@dale-nitro:~/SNA_13$ remote -v

Command 'remote' not found, but can be installed with:

sudo snap install remote

dale@dale-nitro:~/SNA_13$ git remote -v
origin  git@gitlab.com:DamNab/sna-lab-13.git (fetch)
origin  git@gitlab.com:DamNab/sna-lab-13.git (push)
dale@dale-nitro:~/SNA_13$ git fetch origin
remote: Enumerating objects: 3, done.
remote: Counting objects: 100% (3/3), done.
remote: Compressing objects: 100% (2/2), done.
remote: Total 3 (delta 0), reused 0 (delta 0), pack-reused 0
Unpacking objects: 100% (3/3), 2.78 KiB | 1.39 MiB/s, done.
From gitlab.com:DamNab/sna-lab-13
 * [new branch]      main       -> origin/main
```

```
dale@dale-nitro:~/SNA_13$ git checkout -b testbranch
Switched to a new branch 'testbranch'
dale@dale-nitro:~/SNA_13$ echo "1" > 1
dale@dale-nitro:~/SNA_13$ git add 1
dale@dale-nitro:~/SNA_13$ git commit -m c1
[testbranch 6ce82d5] c1
 1 file changed, 1 insertion(+)
 create mode 100644 1
dale@dale-nitro:~/SNA_13$ echo "1" > 2
dale@dale-nitro:~/SNA_13$ git add 2
dale@dale-nitro:~/SNA_13$ git commit -m c2
[testbranch c6bd6d6] c2
 1 file changed, 1 insertion(+)
 create mode 100644 2
dale@dale-nitro:~/SNA_13$ echo "1" > 3
dale@dale-nitro:~/SNA_13$ git add 3
dale@dale-nitro:~/SNA_13$ git commit -m c3
[testbranch cb0664e] c3
 1 file changed, 1 insertion(+)
 create mode 100644 3
```

```
dale@dale-nitro:~/SNA_13$ git log --oneline
cb0664e (HEAD -> testbranch) c3
c6bd6d6 c2
6ce82d5 c1
e995587 (origin/main, main) Initial commit
dale@dale-nitro:~/SNA_13$ git rebase -i 6ce82d5~
Successfully rebased and updated refs/heads/testbranch.
dale@dale-nitro:~/SNA_13$ git log --oneline
ed75875 (HEAD -> testbranch) c3
222018d c2
e995587 (origin/main, main) Initial commit
```

```
dale@dale-nitro:~/SNA_13$ ls -lah
total 28K
drwxrwxr-x  3 dale dale 4.0K Nov 30 20:55 .
drwxr-xr-x 32 dale dale 4.0K Nov 30 20:41 ..
-rw-rw-r--  1 dale dale    2 Nov 30 20:55 2
-rw-rw-r--  1 dale dale    2 Nov 30 20:55 3
drwxrwxr-x  8 dale dale 4.0K Nov 30 20:55 .git
-rw-rw-r--  1 dale dale 6.1K Nov 30 20:46 README.md
```

```
dale@dale-nitro:~/SNA_13$ git checkout main
Switched to branch 'main'
Your branch is up to date with 'origin/main'.
dale@dale-nitro:~/SNA_13$ echo "1" > 4
dale@dale-nitro:~/SNA_13$ git add 4
dale@dale-nitro:~/SNA_13$ git commit -m c4
[main 300c47e] c4
 1 file changed, 1 insertion(+)
 create mode 100644 4
```

```
dale@dale-nitro:~/SNA_13$ git checkout testbranch
Switched to branch 'testbranch'
dale@dale-nitro:~/SNA_13$ git rebase main
First, rewinding head to replay your work on top of it...
Applying: c2
Applying: c3
dale@dale-nitro:~/SNA_13$ git log --oneline
74e256d (HEAD -> testbranch) c3
bc90d54 c2
300c47e (main) c4
e995587 (origin/main) Initial commit
```

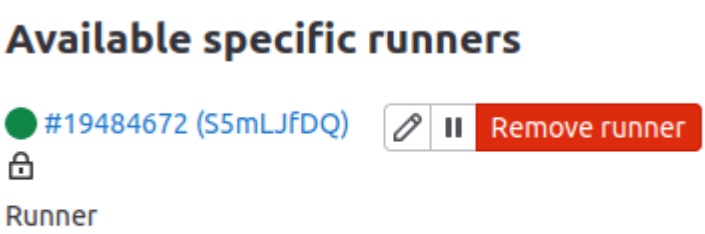
```
dale@dale-nitro:~/SNA_13$ git checkout main
Switched to branch 'main'
Your branch is ahead of 'origin/main' by 1 commit.
  (use "git push" to publish your local commits)
dale@dale-nitro:~/SNA_13$ git merge testbranch
Updating 300c47e..74e256d
Fast-forward
 2 | 1 +
 3 | 1 +
 2 files changed, 2 insertions(+)
 create mode 100644 2
 create mode 100644 3
dale@dale-nitro:~/SNA_13$ git log --oneline
74e256d (HEAD -> main, testbranch) c3
bc90d54 c2
300c47e c4
e995587 (origin/main) Initial commit
```

5. You can use the link bellow to check all files.

   Link to gitlab: https://gitlab.com/DamNab/sna-lab-13-cicd/-/tree/main


```
dale@dale-nitro:~$ sudo systemctl status gitlab-runner
● gitlab-runner.service - GitLab Runner
     Loaded: loaded (/etc/systemd/system/gitlab-runner.service; enabled; vendor preset:>
     Active: active (running) since Wed 2022-11-30 21:08:32 MSK; 9min ago
   Main PID: 36002 (gitlab-runner)
      Tasks: 13 (limit: 18919)
     Memory: 10.6M
     CGroup: /system.slice/gitlab-runner.service
             └─36002 /usr/bin/gitlab-runner run --working-directory /home/gitlab-runner>

Nov 30 21:08:32 dale-nitro gitlab-runner[36002]: listen_address not defined, metrics & >
```



Variables

Collapse

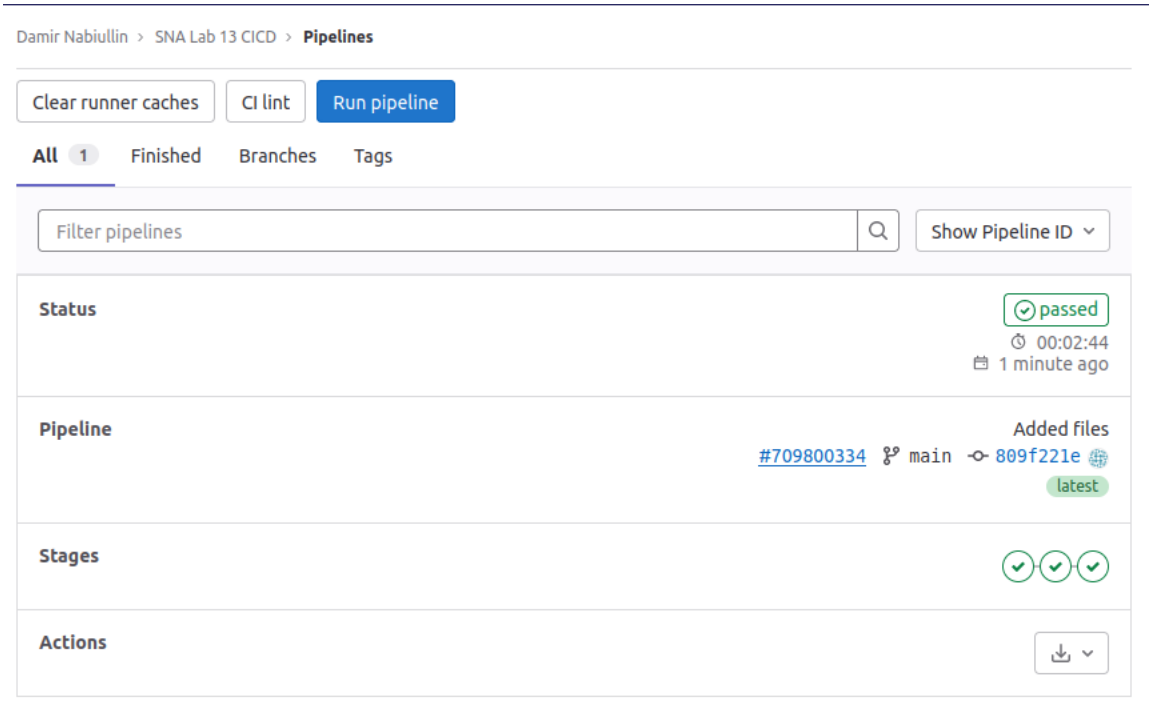
Variables store information, like passwords and secret keys, that you can use in job scripts. Each project can define a maximum of 200 variables. Learn more.

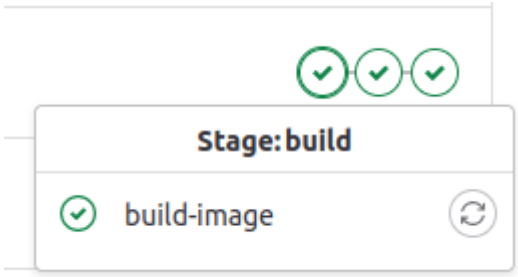
Variables can be:

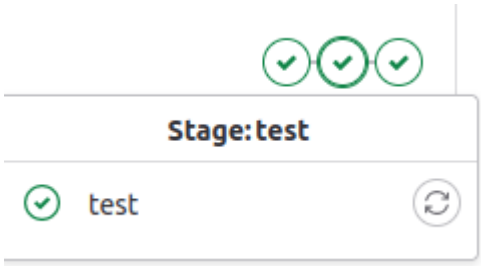
- `Protected:` Only exposed to protected branches or protected tags.
- `Masked:` Hidden in job logs. Must match masking requirements. Learn more.

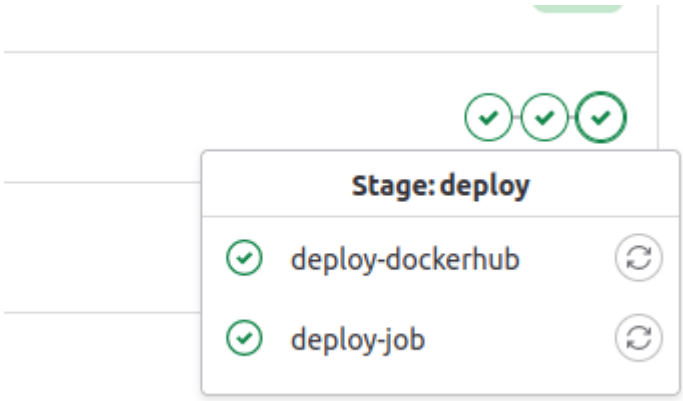
Environment variables are configured by your administrator to be protected by default.

Type	Variable
Key	DOCKER_HUB_TOKEN
Value	*****
Options	Protected
Environments	All (default)


Damir Nabiullin › SNA Lab 13 CICD › Pipelines
Clear runner caches
CI lint
Run pipeline
All 1
Finished
Branches
Tags
Filter pipelines
Show Pipeline ID
Status
passed
00:02:44
1 minute ago
Pipeline
Added files
#709800334
main
809f221e
latest
Stages
Actions


Stage: build
build-image


Stage: test
test


Stage: deploy
deploy-dockerhub
deploy-job