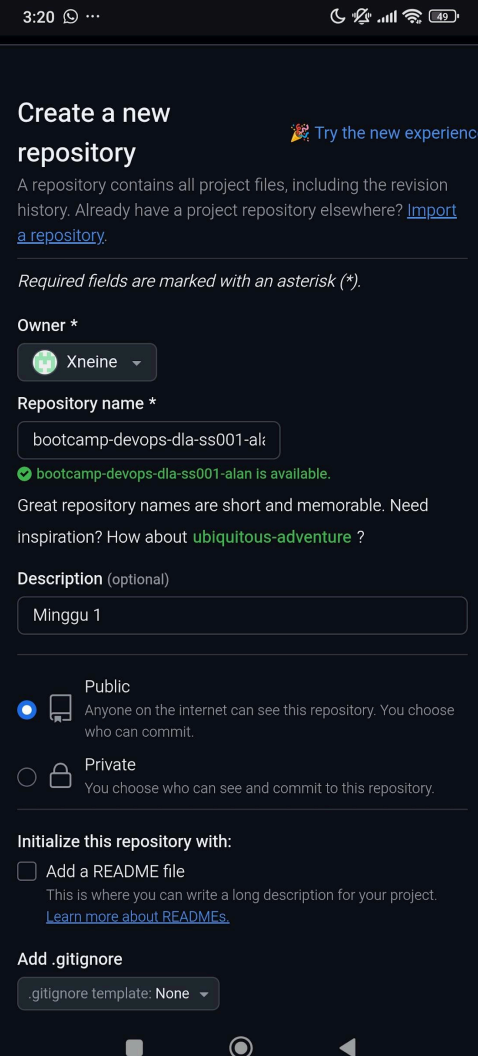


Kasus 1: Multi-Branch Workflow



3:20 49

Create a new repository

[Try the new experience](#)

A repository contains all project files, including the revision history. Already have a project repository elsewhere? [Import a repository](#).

Required fields are marked with an asterisk ().*

Owner *

Xneine

Repository name *

bootcamp-devops-dla-ss001-alk

bootcamp-devops-dla-ss001-alan is available.

Great repository names are short and memorable. Need inspiration? How about [ubiquitous-adventure](#) ?

Description (optional)

Minggu 1

☒ **Public**
Anyone on the internet can see this repository. You choose who can commit.

☐ **Private**
You choose who can see and commit to this repository.

Initialize this repository with:

☐ **Add a README file**
This is where you can write a long description for your project. [Learn more about READMEs](#).

Add .gitignore

.gitignore template: None

1. Disini saya membuat repo public baru

```
3:23
root@srv907114:~/bootcamp-devops-dla-ss001-alan# git init
hint: Using 'master' as the name for the initial branch. This default
hint: is subject to change. To configure the initial branch name to
hint: use in all
hint: of your new repositories, which will suppress this warning,
hint: call:
hint:   git config --global init.defaultBranch <name>
hint: Names commonly chosen instead of 'master' are 'main', 'trunk'
hint: and
hint: 'development'. The just-created branch can be renamed via this
hint: command:
hint:   git branch -m <name>
Initialized empty Git repository in /root/bootcamp-devops-dla-ss001-
1-alan/.git/
root@srv907114:~/bootcamp-devops-dla-ss001-alan# git remote add origin
git@github.com:Xneine/bootcamp-devops-dla-ss001-alan.git
root@srv907114:~/bootcamp-devops-dla-ss001-alan# git remote -v
origin  git@github.com:Xneine/bootcamp-devops-dla-ss001-alan.git (
fetch)
origin  git@github.com:Xneine/bootcamp-devops-dla-ss001-alan.git (
push)
root@srv907114:~/bootcamp-devops-dla-ss001-alan#
```

ESC / — HOME ↑ END PGUP

⇧ CTRL ALT ← ↓ → PGDN

1. Login ke vps
2. mkdir bootcamp-devops-dla-ss001-alan
3. cd bootcamp-devops-dla-ss001-alan
4. git init
5. git remote add origin <linkGithub>

```
8:21 ● ...
root@srv907114:~/bootcamp-devops-dla-ss001-alan# git checkout -b feature
Switched to a new branch 'feature'
root@srv907114:~/bootcamp-devops-dla-ss001-alan# mkdir docs
root@srv907114:~/bootcamp-devops-dla-ss001-alan# mkdir src
root@srv907114:~/bootcamp-devops-dla-ss001-alan# echo "" > .gitignore
root@srv907114:~/bootcamp-devops-dla-ss001-alan# echo "test" > README.md
root@srv907114:~/bootcamp-devops-dla-ss001-alan# ll
total 32
drwxr-xr-x 5 root root 4096 Jul 23 13:20 ./
drwxr-xr-x 14 root root 4096 Jul 23 13:16 ../
drwxr-xr-x 7 root root 4096 Jul 23 13:18 .git/
-rw-r--r-- 1 root root 1 Jul 23 13:20 .gitignore
-rw-r--r-- 1 root root 5 Jul 23 13:20 README.md
drwxr-xr-x 2 root root 4096 Jul 23 13:19 docs/
drwxr-xr-x 2 root root 4096 Jul 23 13:19 src/
-rw-r--r-- 1 root root 9 Jul 23 13:05 test.txt
root@srv907114:~/bootcamp-devops-dla-ss001-alan# rm test.txt
root@srv907114:~/bootcamp-devops-dla-ss001-alan# ll
total 28
drwxr-xr-x 5 root root 4096 Jul 23 13:21 ./
drwxr-xr-x 14 root root 4096 Jul 23 13:16 ../
drwxr-xr-x 7 root root 4096 Jul 23 13:18 .git/
-rw-r--r-- 1 root root 1 Jul 23 13:20 .gitignore
-rw-r--r-- 1 root root 5 Jul 23 13:20 README.md
drwxr-xr-x 2 root root 4096 Jul 23 13:19 docs/
drwxr-xr-x 2 root root 4096 Jul 23 13:19 src/
root@srv907114:~/bootcamp-devops-dla-ss001-alan#
```

1. git checkout -b feature (untuk buat branch baru dan langsung switch branch)
2. buat semua folder dan filenya

```
8:24 ...
ore
root@srv907114:~/bootcamp-devops-dla-ss001-alan# echo "test" > REA
DME.md
root@srv907114:~/bootcamp-devops-dla-ss001-alan# ll
total 32
drwxr-xr-x 5 root root 4096 Jul 23 13:20 ./
drwx----- 14 root root 4096 Jul 23 13:16 ../
drwxr-xr-x 7 root root 4096 Jul 23 13:18 .git/
-rw-r--r-- 1 root root 1 Jul 23 13:20 .gitignore
-rw-r--r-- 1 root root 5 Jul 23 13:20 README.md
drwxr-xr-x 2 root root 4096 Jul 23 13:19 docs/
drwxr-xr-x 2 root root 4096 Jul 23 13:19 src/
-rw-r--r-- 1 root root 9 Jul 23 13:05 test.txt
root@srv907114:~/bootcamp-devops-dla-ss001-alan# rm test.txt
root@srv907114:~/bootcamp-devops-dla-ss001-alan# ll
total 28
drwxr-xr-x 5 root root 4096 Jul 23 13:21 ./
drwx----- 14 root root 4096 Jul 23 13:16 ../
drwxr-xr-x 7 root root 4096 Jul 23 13:18 .git/
-rw-r--r-- 1 root root 1 Jul 23 13:20 .gitignore
-rw-r--r-- 1 root root 5 Jul 23 13:20 README.md
drwxr-xr-x 2 root root 4096 Jul 23 13:19 docs/
drwxr-xr-x 2 root root 4096 Jul 23 13:19 src/
root@srv907114:~/bootcamp-devops-dla-ss001-alan# git status
On branch feature

No commits yet

Untracked files:
  (use "git add <file>..." to include in what will be committed)
        .gitignore
        README.md

nothing added to commit but untracked files present (use "git add"
to track)
root@srv907114:~/bootcamp-devops-dla-ss001-alan# git add -v .
add '.gitignore'
add 'README.md'
root@srv907114:~/bootcamp-devops-dla-ss001-alan# git commit -m "in
ital commit"
[feature (root-commit) 8f32f0f] initial commit
Committer: root <root@srv907114.hstgr.cloud>
Your name and email address were configured automatically based
on your username and hostname. Please check that they are accurate
.
You can suppress this message by setting them explicitly. Run the
following command and follow the instructions in your editor to ed
it
your configuration file:

    git config --global --edit

After doing this, you may fix the identity used for this commit wi
th:

    git commit --amend --reset-author

2 files changed, 2 insertions(+)
create mode 100644 .gitignore
create mode 100644 README.md
root@srv907114:~/bootcamp-devops-dla-ss001-alan# █

ESC      /      -      HOME      ↑      END      PGUP
⇧      CTRL  ALT      ←      ↓      →      PGDN
```

1. git add -v .
2. git commit -m "message"

```
8:32 ...
root@srv907114:~/bootcamp-devops-dla-ss001-alan# git branch
* feature
root@srv907114:~/bootcamp-devops-dla-ss001-alan# git checkout -b development
Switched to a new branch 'development'
root@srv907114:~/bootcamp-devops-dla-ss001-alan# git checkout -b main
Switched to a new branch 'main'
root@srv907114:~/bootcamp-devops-dla-ss001-alan# git branch
  development
* main
root@srv907114:~/bootcamp-devops-dla-ss001-alan# ll
total 28
drwxr-xr-x  5 root root 4096 Jul 23 13:21 ./
drwxr-xr-x 14 root root 4096 Jul 23 13:32 ../
drwxr-xr-x  8 root root 4096 Jul 23 13:32 .git/
-rw-r--r--  1 root root   1 Jul 23 13:20 .gitignore
-rw-r--r--  1 root root   5 Jul 23 13:20 README.md
drwxr-xr-x  2 root root 4096 Jul 23 13:19 docs/
drwxr-xr-x  2 root root 4096 Jul 23 13:19 src/
root@srv907114:~/bootcamp-devops-dla-ss001-alan#
```

1. Buat branch baru (development dan main) -> hasil branching dari feature

```
8:54
root@srv907114:~/bootcamp-devops-dla-ss001-alan# git checkout feature
Switched to branch 'feature'
root@srv907114:~/bootcamp-devops-dla-ss001-alan# git branch
  development
* feature
  main
root@srv907114:~/bootcamp-devops-dla-ss001-alan# ll
total 28
drwxr-xr-x  5 root root 4096 Jul 23 13:21 ./
drwx----- 14 root root 4096 Jul 23 13:45 ../
drwxr-xr-x  8 root root 4096 Jul 23 13:45 .git/
-rw-r--r--  1 root root   1 Jul 23 13:20 .gitignore
-rw-r--r--  1 root root   5 Jul 23 13:20 README.md
drwxr-xr-x  2 root root 4096 Jul 23 13:19 docs/
drwxr-xr-x  2 root root 4096 Jul 23 13:19 src/
root@srv907114:~/bootcamp-devops-dla-ss001-alan# nano src/index.html
root@srv907114:~/bootcamp-devops-dla-ss001-alan# git status
On branch feature
Untracked files:
  (use "git add <file>..." to include in what will be committed)
        src/

nothing added to commit but untracked files present (use "git add"
to track)
root@srv907114:~/bootcamp-devops-dla-ss001-alan# git add -v .
add 'src/index.html'
root@srv907114:~/bootcamp-devops-dla-ss001-alan# git commit -m "feat: portofolio page"
[feature d2b394a] feat: portofolio page
Committer: root <root@srv907114.hstgr.cloud>
Your name and email address were configured automatically based
on your username and hostname. Please check that they are accurate
.
You can suppress this message by setting them explicitly. Run the
following command and follow the instructions in your editor to ed
it
your configuration file:

    git config --global --edit

After doing this, you may fix the identity used for this commit wi
th:

    git commit --amend --reset-author

1 file changed, 94 insertions(+)
create mode 100644 src/index.html
root@srv907114:~/bootcamp-devops-dla-ss001-alan#
```

1. git checkout feature
2. tambahkan file index.html
3. git add -v .
4. git commit -m "message"

```
8:59
root@srv907114:~/bootcamp-devops-dla-ss001-alan# git branch
development
* feature
main
root@srv907114:~/bootcamp-devops-dla-ss001-alan# git checkout deve
lopment
Switched to branch 'development'
root@srv907114:~/bootcamp-devops-dla-ss001-alan# git merge feature
-m "merge with feature"
Updating 8f32f0f..d2b394a
Fast-forward (no commit created; -m option ignored)
 src/index.html | 94 ++++++++++++++++++++++++++++++++++++++
 1 file changed, 94 insertions(+)
 create mode 100644 src/index.html
root@srv907114:~/bootcamp-devops-dla-ss001-alan# git checkout main
Switched to branch 'main'
root@srv907114:~/bootcamp-devops-dla-ss001-alan# git merge develop
ment -m "merge with development"
Updating 8f32f0f..d2b394a
Fast-forward (no commit created; -m option ignored)
 src/index.html | 94 ++++++++++++++++++++++++++++++++++++++
 1 file changed, 94 insertions(+)
 create mode 100644 src/index.html
root@srv907114:~/bootcamp-devops-dla-ss001-alan#
```

1. git checkout development
2. git merge feature -m "message"
3. Lakukan hal yang sama untuk main

```
9:04
root@srv907114:~/bootcamp-devops-dla-ss001-alan# git branch
development
feature
* main
root@srv907114:~/bootcamp-devops-dla-ss001-alan# git push -u origin feature
Enter passphrase for key '/root/.ssh/github_keys':
Enter passphrase for key '/root/.ssh/github_keys':
Enumerating objects: 8, done.
Counting objects: 100% (8/8), done.
Delta compression using up to 2 threads
Compressing objects: 100% (5/5), done.
Writing objects: 100% (8/8), 1.44 KiB | 367.00 KiB/s, done.
Total 8 (delta 1), reused 0 (delta 0), pack-reused 0
remote: Resolving deltas: 100% (1/1), done.
To github.com:Xneine/bootcamp-devops-dla-ss001-alan.git
 * [new branch] feature -> feature
branch 'feature' set up to track 'origin/feature'.
root@srv907114:~/bootcamp-devops-dla-ss001-alan# git push -u origin development
Enter passphrase for key '/root/.ssh/github_keys':
Total 0 (delta 0), reused 0 (delta 0), pack-reused 0
remote: Create a pull request for 'development' on GitHub by visiting:
remote:   https://github.com/Xneine/bootcamp-devops-dla-ss001-alan/pull/new/development
remote:
To github.com:Xneine/bootcamp-devops-dla-ss001-alan.git
 * [new branch] development -> development
branch 'development' set up to track 'origin/development'.
root@srv907114:~/bootcamp-devops-dla-ss001-alan# git push origin main
Enter passphrase for key '/root/.ssh/github_keys':
Total 0 (delta 0), reused 0 (delta 0), pack-reused 0
remote: Create a pull request for 'main' on GitHub by visiting:
remote:   https://github.com/Xneine/bootcamp-devops-dla-ss001-alan/pull/new/main
remote:
To github.com:Xneine/bootcamp-devops-dla-ss001-alan.git
 * [new branch] main -> main
root@srv907114:~/bootcamp-devops-dla-ss001-alan#
```

1. Push semua branch ke github

- Jelaskan langkah-langkah branching yang kamu lakukan.

Jawab: saya membuat branch feature -> mengisinya dengan template file -> commit -> buat branch development dan main (sudah sama dengan commit terakhir feature) -> pindah ke feature dan buat isi file index.html -> commit -> pindah ke development lalu merge -> pindah ke main lalu merge -> push ke github untuk ketiga branch

- Kenapa urutan branch seperti itu?

Jawab: untuk urutan pembuatan branch sepertinya main dulu untuk intial commit supaya asalnya semua dari main namun untuk seterusnya urutannya adalah mengerjakan dari feature.

- Tools dan perintah Git apa saja yang kamu gunakan.

Jawab: git init, git branch, git checkout, git remote, git add, git commit, git push, git merge