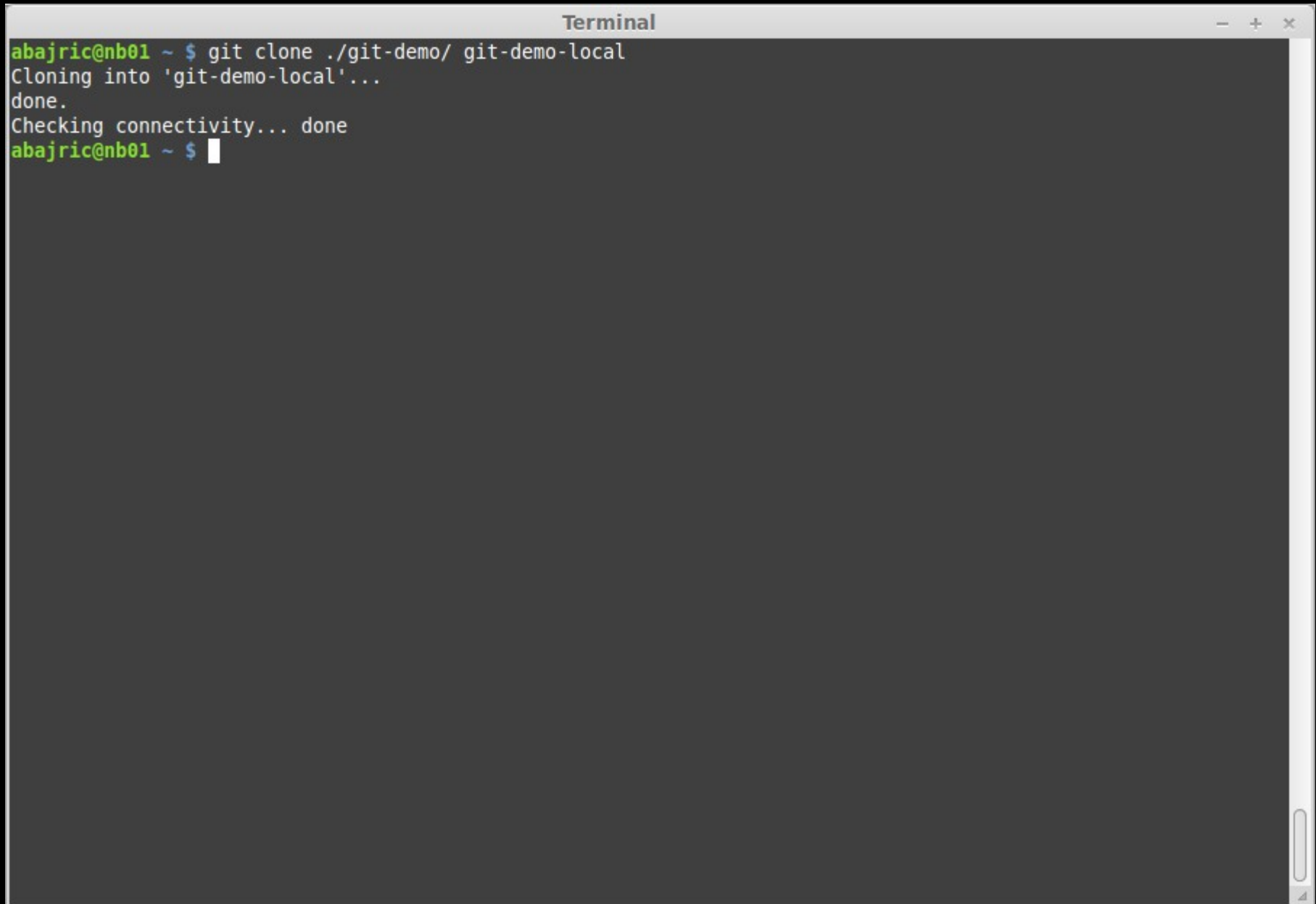


new repository – clone

A terminal window titled "Terminal" with standard window controls (minimize, maximize, close) in the top right corner. The terminal shows a user named "abajric" on a machine named "nb01" in their home directory. They have executed the command "git clone ./git-demo/ git-demo-local". The output shows the cloning process is complete, with messages "Cloning into 'git-demo-local'...", "done.", and "Checking connectivity... done". The prompt "abajric@nb01 ~ \$" is shown again with a cursor, indicating the command has finished.

```
abajric@nb01 ~ $ git clone ./git-demo/ git-demo-local
Cloning into 'git-demo-local'...
done.
Checking connectivity... done
abajric@nb01 ~ $
```

new repository – clone

```
Terminal
abajric@nb01 ~ $ git clone ./git-demo/ git-demo-local
Cloning into 'git-demo-local'...
done.
Checking connectivity... done
abajric@nb01 ~ $ cd git-demo-local/
abajric@nb01 ~/git-demo-local $ git glog
* 5e836b5 (HEAD, origin/master, origin/HEAD, master) merged develop branch into master
|
| \
|  * 0039e50 (origin/develop) file e.txt added
|  * 7cf0e76 a.txt modified; c.txt added
|  * | ef1dcd7 file d.txt added
|  * | 8be6366 important changes
|  |
|  | /
|  | /
* aec692a initial commit
abajric@nb01 ~/git-demo-local $
```

remote – branches

```
Terminal
abajric@nb01 ~ $ git clone ./git-demo/ git-demo-local
Cloning into 'git-demo-local'...
done.
Checking connectivity... done
abajric@nb01 ~ $ cd git-demo-local/
abajric@nb01 ~/git-demo-local $ git glog
* 5e836b5 (HEAD, origin/master, origin/HEAD, master) merged develop branch into master
|
| \
|  * 0039e50 (origin/develop) file e.txt added
|  * 7cf0e76 a.txt modified; c.txt added
|  * | ef1dcd7 file d.txt added
|  * | 8be6366 important changes
|  |
|  | /
|  |
|  * aec692a initial commit
abajric@nb01 ~/git-demo-local $ git branch -a
* master
  remotes/origin/HEAD -> origin/master
  remotes/origin/develop
  remotes/origin/master
abajric@nb01 ~/git-demo-local $
```

remote

```
Terminal
abajric@nb01 ~ $ git clone ../git-demo/ git-demo-local
Cloning into 'git-demo-local'...
done.
Checking connectivity... done
abajric@nb01 ~ $ cd git-demo-local/
abajric@nb01 ~/git-demo-local $ git glog
* 5e836b5 (HEAD, origin/master, origin/HEAD, master) merged develop branch into master
|
| * 0039e50 (origin/develop) file e.txt added
| * 7cf0e76 a.txt modified; c.txt added
| * | ef1dcd7 file d.txt added
| * | 8be6366 important changes
|/
* aec692a initial commit
abajric@nb01 ~/git-demo-local $ git branch -a
* master
  remotes/origin/HEAD -> origin/master
  remotes/origin/develop
  remotes/origin/master
abajric@nb01 ~/git-demo-local $ git remote -v
origin /home/abajric/./git-demo/ (fetch)
origin /home/abajric/./git-demo/ (push)
abajric@nb01 ~/git-demo-local $
```

make local changes

```
Terminal
abajric@nb01 ~/git-demo-local $ git rm readme.txt
rm 'readme.txt'
abajric@nb01 ~/git-demo-local $ git commit -m 'unnecessary readme file removed'
[master e08ed68] unnecessary readme file removed
1 file changed, 1 deletion(-)
delete mode 100644 readme.txt
abajric@nb01 ~/git-demo-local $ git glog
* e08ed68 (HEAD, master) unnecessary readme file removed
* 5e836b5 (origin/master, origin/HEAD) merged develop branch into master
| \
| * 0039e50 (origin/develop) file e.txt added
| * 7cf0e76 a.txt modified; c.txt added
* | ef1dcd7 file d.txt added
* | 8be6366 important changes
| /
* aec692a initial commit
abajric@nb01 ~/git-demo-local $
```

push changes to server

```
Terminal
abajric@nb01 ~/git-demo-local $ git glog
* e08ed68 (HEAD, master) unnecessary readme file removed
* 5e836b5 (origin/master, origin/HEAD) merged develop branch into master
| \
| * 0039e50 (origin/develop) file e.txt added
| * 7cf0e76 a.txt modified; c.txt added
* | ef1dcd7 file d.txt added
* | 8be6366 important changes
| /
* aec692a initial commit
abajric@nb01 ~/git-demo-local $ git push
Counting objects: 3, done.
Delta compression using up to 4 threads.
Compressing objects: 100% (2/2), done.
Writing objects: 100% (2/2), 233 bytes | 0 bytes/s, done.
Total 2 (delta 1), reused 0 (delta 0)
To /home/abajric/./git-demo/
 5e836b5..e08ed68  master -> master
abajric@nb01 ~/git-demo-local $
```

push changes to server

```
Terminal
abajric@nb01 ~/git-demo-local $ git glog
* e08ed68 (HEAD, master) unnecessary readme file removed
* 5e836b5 (origin/master, origin/HEAD) merged develop branch into master
|
| \
| * 0039e50 (origin/develop) file e.txt added
| * 7cf0e76 a.txt modified; c.txt added
| * | ef1dcd7 file d.txt added
| * | 8be6366 important changes
| /
* aec692a initial commit
abajric@nb01 ~/git-demo-local $ git push
Counting objects: 3, done.
Delta compression using up to 4 threads.
Compressing objects: 100% (2/2), done.
Writing objects: 100% (2/2), 233 bytes | 0 bytes/s, done.
Total 2 (delta 1), reused 0 (delta 0)
To /home/abajric/./git-demo/
 5e836b5..e08ed68  master -> master
abajric@nb01 ~/git-demo-local $ git glog
* e08ed68 (HEAD, origin/master, origin/HEAD, master) unnecessary readme file removed
* 5e836b5 merged develop branch into master
|
| \
| * 0039e50 (origin/develop) file e.txt added
| * 7cf0e76 a.txt modified; c.txt added
| * | ef1dcd7 file d.txt added
| * | 8be6366 important changes
| /
* aec692a initial commit
abajric@nb01 ~/git-demo-local $
```

fetch changes from server

```
Terminal
abajric@nb01 ~/git-demo-local $ git glog
* e08ed68 (HEAD, origin/master, origin/HEAD, master) unnecessary readme file removed
* 5e836b5 merged develop branch into master
|
| \
| * 0039e50 (origin/develop) file e.txt added
| * 7cf0e76 a.txt modified; c.txt added
| * | ef1dcd7 file d.txt added
| * | 8be6366 important changes
| /
|
| * aec692a initial commit
abajric@nb01 ~/git-demo-local $ git fetch
remote: Counting objects: 5, done.
remote: Compressing objects: 100% (3/3), done.
remote: Total 3 (delta 1), reused 0 (delta 0)
Unpacking objects: 100% (3/3), done.
From /home/abajric/./git-demo
 e08ed68..58ef62c  master    -> origin/master
abajric@nb01 ~/git-demo-local $
```


fetch changes from server

```
Terminal
abajric@nb01 ~/git-demo-local $ git glog
* e08ed68 (HEAD, origin/master, origin/HEAD, master) unnecessary readme file removed
* 5e836b5 merged develop branch into master
|
| \
| * 0039e50 (origin/develop) file e.txt added
| * 7cf0e76 a.txt modified; c.txt added
| * | ef1dcd7 file d.txt added
| * | 8be6366 important changes
| /
* aec692a initial commit
abajric@nb01 ~/git-demo-local $ git fetch
remote: Counting objects: 5, done.
remote: Compressing objects: 100% (3/3), done.
remote: Total 3 (delta 1), reused 0 (delta 0)
Unpacking objects: 100% (3/3), done.
From /home/abajric/./git-demo
 e08ed68..58ef62c master    -> origin/master
abajric@nb01 ~/git-demo-local $ git glog
* 58ef62c (origin/master, origin/HEAD) bug fixed in file d.txt
* e08ed68 (HEAD, master) unnecessary readme file removed
* 5e836b5 merged develop branch into master
|
| \
| * 0039e50 (origin/develop) file e.txt added
| * 7cf0e76 a.txt modified; c.txt added
| * | ef1dcd7 file d.txt added
| * | 8be6366 important changes
| /
* aec692a initial commit
abajric@nb01 ~/git-demo-local $
```

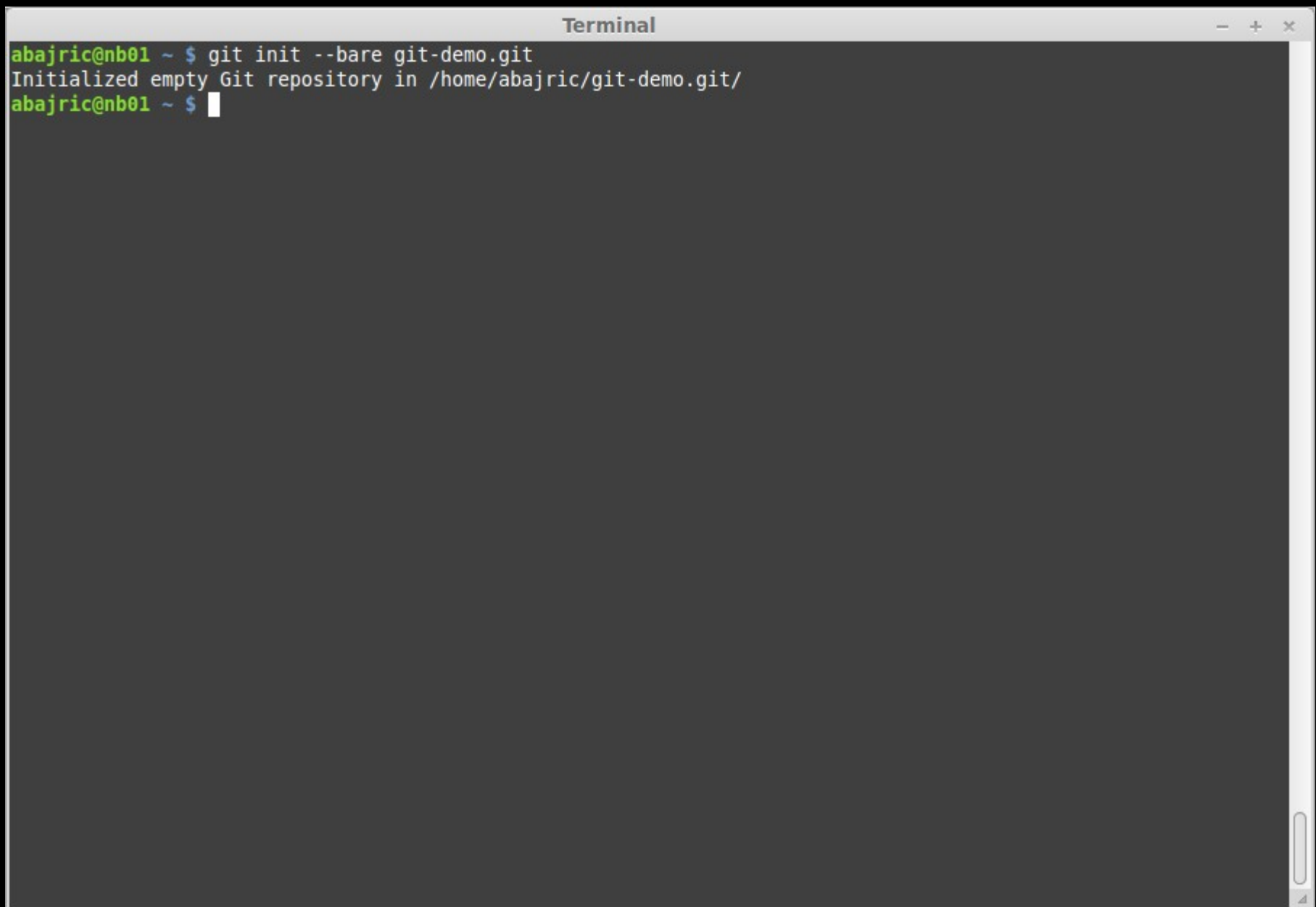
merge server changes

```
Terminal
abajric@nb01 ~/git-demo-local $ git glog
* 58ef62c (origin/master, origin/HEAD) bug fixed in file d.txt
* e08ed68 (HEAD, master) unnecessary readme file removed
* 5e836b5 merged develop branch into master
|
| \
| * 0039e50 (origin/develop) file e.txt added
| * 7cf0e76 a.txt modified; c.txt added
| * | ef1dcd7 file d.txt added
| * | 8be6366 important changes
| /
* aec692a initial commit
abajric@nb01 ~/git-demo-local $ git merge origin/master
Updating e08ed68..58ef62c
Fast-forward
 d.txt | 2 ++
 1 file changed, 2 insertions(+)
abajric@nb01 ~/git-demo-local $
```

merge server changes

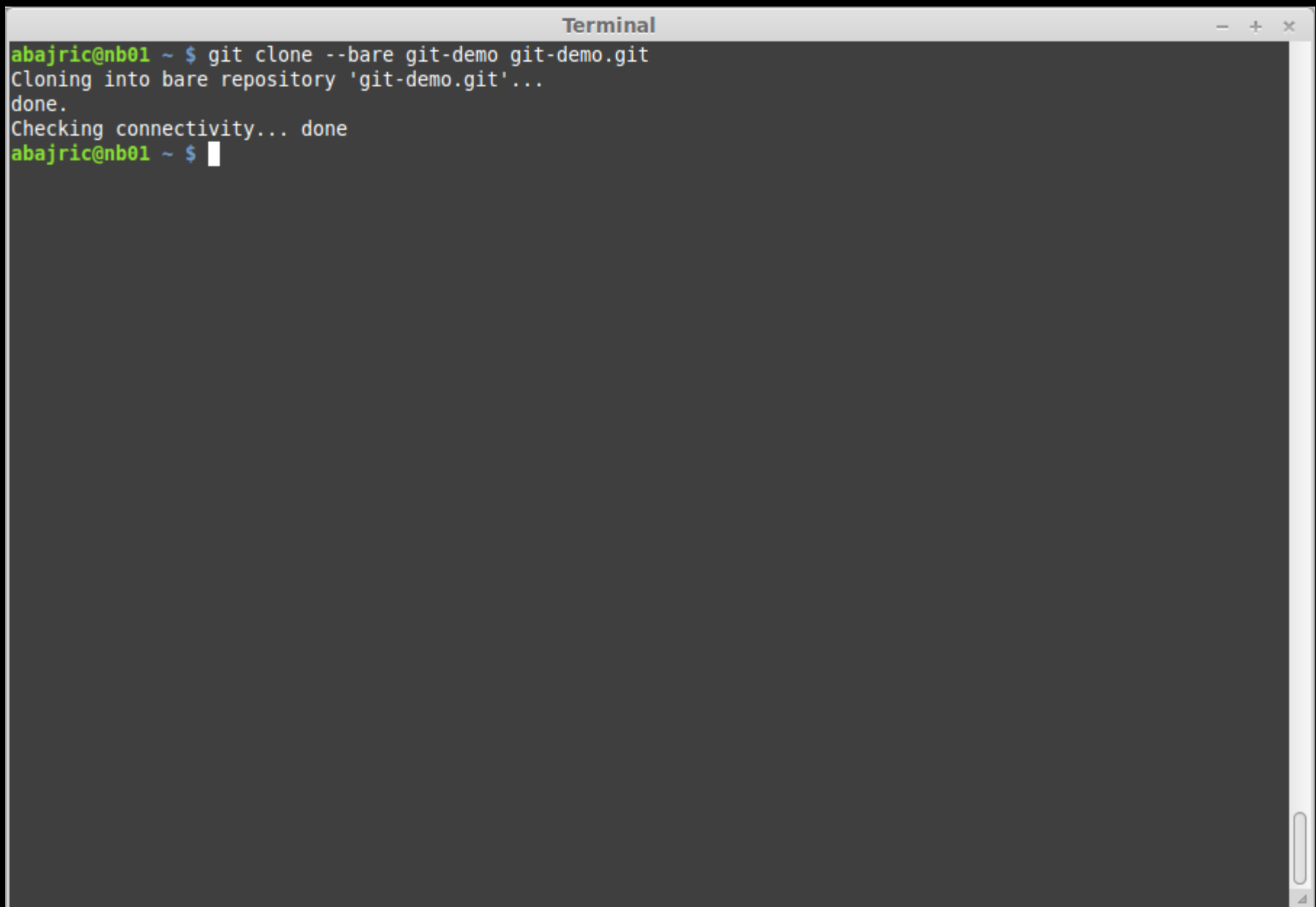
```
Terminal
abajric@nb01 ~/git-demo-local $ git glog
* 58ef62c (origin/master, origin/HEAD) bug fixed in file d.txt
* e08ed68 (HEAD, master) unnecessary readme file removed
* 5e836b5 merged develop branch into master
|/
| * 0039e50 (origin/develop) file e.txt added
| * 7cf0e76 a.txt modified; c.txt added
* | ef1dcd7 file d.txt added
* | 8be6366 important changes
|/
* aec692a initial commit
abajric@nb01 ~/git-demo-local $ git merge origin/master
Updating e08ed68..58ef62c
Fast-forward
 d.txt | 2 ++
 1 file changed, 2 insertions(+)
abajric@nb01 ~/git-demo-local $ git glog
* 58ef62c (HEAD, origin/master, origin/HEAD, master) bug fixed in file d.txt
* e08ed68 unnecessary readme file removed
* 5e836b5 merged develop branch into master
|/
| * 0039e50 (origin/develop) file e.txt added
| * 7cf0e76 a.txt modified; c.txt added
* | ef1dcd7 file d.txt added
* | 8be6366 important changes
|/
* aec692a initial commit
abajric@nb01 ~/git-demo-local $
```

create server repository – init



```
Terminal
abajric@nb01 ~ $ git init --bare git-demo.git
Initialized empty Git repository in /home/abajric/git-demo.git/
abajric@nb01 ~ $
```

create server repository – clone

A terminal window titled "Terminal" with standard window controls (minimize, maximize, close) in the top right corner. The terminal shows a user named "abajric" on a host named "nb01" in their home directory. They execute the command "git clone --bare git-demo git-demo.git". The terminal output shows "Cloning into bare repository 'git-demo.git'...", "done.", and "Checking connectivity... done". The prompt returns to "abajric@nb01 ~ \$" with a cursor.

```
abajric@nb01 ~ $ git clone --bare git-demo git-demo.git
Cloning into bare repository 'git-demo.git'...
done.
Checking connectivity... done
abajric@nb01 ~ $
```