```
Xshell 7 (Build 0141)
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Type `help' to learn how to use Xshell prompt.
[C:\~]$ 

Host 'ec2-13-236-207-27.ap-southeast-2.compute.amazonaws.com' resolved to 13.236.2
07.27.
Connecting to 13.236.207.27:22...
Connection established.
To escape to local shell, press 'Ctrl+Alt+]'.

WARNING! The remote SSH server rejected X11 forwarding request.
   ,     #_
   ~\_  ####_        Amazon Linux 2023
  ~~  \_#####\
  ~~     \###|
  ~~       \#/ ___   https://aws.amazon.com/linux/amazon-linux-2023
   ~~       V~' '->
    ~~~         /
      ~~._.   _/
         _/ _/
       _/m/'
Last login: Wed Dec  6 13:28:11 2023 from 171.88.111.180
[ec2-user@toubun ~]$ git
-bash: git: command not found
[ec2-user@toubun ~]$ sudo -s
[root@toubun ec2-user]# yum install git -y
Last metadata expiration check: 19:50:29 ago on Tue Dec  5 17:56:04 2023.
Dependencies resolved.
===================================================================================
 Package             Arch      Version                          Repository      Size
===================================================================================
Installing:
 git                 x86_64    2.40.1-1.amzn2023.0.1            amazonlinux     57 k
Installing dependencies:
 git-core            x86_64    2.40.1-1.amzn2023.0.1            amazonlinux    4.3 M
 git-core-doc        noarch    2.40.1-1.amzn2023.0.1            amazonlinux    2.6 M
 perl-Error          noarch    1:0.17029-5.amzn2023.0.2         amazonlinux     41 k
 perl-File-Find      noarch    1.37-477.amzn2023.0.5            amazonlinux     26 k
 perl-Git            noarch    2.40.1-1.amzn2023.0.1            amazonlinux     45 k
 perl-TermReadKey    x86_64    2.38-9.amzn2023.0.2              amazonlinux     36 k
 perl-lib            x86_64    0.65-477.amzn2023.0.5            amazonlinux     15 k

Transaction Summary
===================================================================================
Install  8 Packages

Total download size: 7.1 M
Installed size: 34 M
Downloading Packages:
(1/8): git-2.40.1-1.amzn2023.0.1.x86_64.rpm       797 kB/s |  57 kB     00:00
(2/8): perl-lib-0.65-477.amzn2023.0.5.x86_64.rpm   202 kB/s |  15 kB     00:00
(3/8): perl-TermReadKey-2.38-9.amzn2023.0.2.x86_64 2.1 MB/s |  36 kB     00:00
(4/8): perl-File-Find-1.37-477.amzn2023.0.5.noarch 1.6 MB/s |  26 kB     00:00
(5/8): perl-Error-0.17029-5.amzn2023.0.2.noarch.rp 2.9 MB/s |  41 kB     00:00
(6/8): perl-Git-2.40.1-1.amzn2023.0.1.noarch.rpm   2.7 MB/s |  45 kB     00:00
(7/8): git-core-doc-2.40.1-1.amzn2023.0.1.noarch.r  21 MB/s | 2.6 MB     00:00
(8/8): git-core-2.40.1-1.amzn2023.0.1.x86_64.rpm    12 MB/s | 4.3 MB     00:00
-----------------------------------------------------------------------------------
Total                                               17 MB/s | 7.1 MB     00:00
Running transaction check
Transaction check succeeded.
Running transaction test
Transaction test succeeded.
Running transaction
  Preparing        :                                                          1/1
  Installing       : git-core-2.40.1-1.amzn2023.0.1.x86_64                    1/8
  Installing       : git-core-doc-2.40.1-1.amzn2023.0.1.noarch                2/8
```

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  Installing       : perl-Error-1:0.17029-5.amzn2023.0.2.noarch                  3/8
  Installing       : perl-File-Find-1.37-477.amzn2023.0.5.noarch                 4/8
  Installing       : perl-TermReadKey-2.38-9.amzn2023.0.2.x86_64                 5/8
  Installing       : perl-lib-0.65-477.amzn2023.0.5.x86_64                       6/8
  Installing       : perl-Git-2.40.1-1.amzn2023.0.1.noarch                       7/8
  Installing       : git-2.40.1-1.amzn2023.0.1.x86_64                            8/8
  Running scriptlet: git-2.40.1-1.amzn2023.0.1.x86_64                            8/8
  Verifying        : git-core-2.40.1-1.amzn2023.0.1.x86_64                       1/8
  Verifying        : git-2.40.1-1.amzn2023.0.1.x86_64                            2/8
  Verifying        : perl-lib-0.65-477.amzn2023.0.5.x86_64                       3/8
  Verifying        : perl-TermReadKey-2.38-9.amzn2023.0.2.x86_64                 4/8
  Verifying        : perl-File-Find-1.37-477.amzn2023.0.5.noarch                 5/8
  Verifying        : perl-Error-1:0.17029-5.amzn2023.0.2.noarch                  6/8
  Verifying        : perl-Git-2.40.1-1.amzn2023.0.1.noarch                       7/8
  Verifying        : git-core-doc-2.40.1-1.amzn2023.0.1.noarch                   8/8

Installed:
  git-2.40.1-1.amzn2023.0.1.x86_64
  git-core-2.40.1-1.amzn2023.0.1.x86_64
  git-core-doc-2.40.1-1.amzn2023.0.1.noarch
  perl-Error-1:0.17029-5.amzn2023.0.2.noarch
  perl-File-Find-1.37-477.amzn2023.0.5.noarch
  perl-Git-2.40.1-1.amzn2023.0.1.noarch
  perl-TermReadKey-2.38-9.amzn2023.0.2.x86_64
  perl-lib-0.65-477.amzn2023.0.5.x86_64

Complete!
[root@toubun ec2-user]# git
usage: git [-v | --version] [-h | --help] [-C <path>] [-c <name>=<value>]
           [--exec-path[=<path>]] [--html-path] [--man-path] [--info-path]
           [-p | --paginate | -P | --no-pager] [--no-replace-objects] [--bare]
           [--git-dir=<path>] [--work-tree=<path>] [--namespace=<name>]
           [--config-env=<name>=<envvar>] <command> [<args>]

These are common Git commands used in various situations:

start a working area (see also: git help tutorial)
   clone     Clone a repository into a new directory
   init      Create an empty Git repository or reinitialize an existing one

work on the current change (see also: git help everyday)
   add       Add file contents to the index
   mv        Move or rename a file, a directory, or a symlink
   restore   Restore working tree files
   rm        Remove files from the working tree and from the index

examine the history and state (see also: git help revisions)
   bisect    Use binary search to find the commit that introduced a bug
   diff      Show changes between commits, commit and working tree, etc
   grep      Print lines matching a pattern
   log       Show commit logs
   show      Show various types of objects
   status    Show the working tree status

grow, mark and tweak your common history
   branch    List, create, or delete branches
   commit    Record changes to the repository
   merge     Join two or more development histories together
   rebase    Reapply commits on top of another base tip
   reset     Reset current HEAD to the specified state
   switch    Switch branches
   tag       Create, list, delete or verify a tag object signed with GPG

collaborate (see also: git help workflows)
   fetch     Download objects and refs from another repository
   pull      Fetch from and integrate with another repository or a local branch
   push      Update remote refs along with associated objects

'git help -a' and 'git help -g' list available subcommands and some
```

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concept guides. See 'git help <command>' or 'git help <concept>'
to read about a specific subcommand or concept.
See 'git help git' for an overview of the system.
[root@toubun ec2-user]# git config
usage: git config [<options>]

Config file location
    --global              use global config file
    --system              use system config file
    --local               use repository config file
    --worktree            use per-worktree config file
    -f, --file <file>     use given config file
    --blob <blob-id>      read config from given blob object

Action
    --get                 get value: name [value-pattern]
    --get-all             get all values: key [value-pattern]
    --get-regexp          get values for regexp: name-regex [value-pattern]
    --get-urlmatch        get value specific for the URL: section[.var] URL
    --replace-all         replace all matching variables: name value [value-pattern
]
    --add                 add a new variable: name value
    --unset               remove a variable: name [value-pattern]
    --unset-all           remove all matches: name [value-pattern]
    --rename-section      rename section: old-name new-name
    --remove-section      remove a section: name
    -l, --list            list all
    --fixed-value         use string equality when comparing values to 'value-patte
rn'
    -e, --edit            open an editor
    --get-color           find the color configured: slot [default]
    --get-colorbool       find the color setting: slot [stdout-is-tty]

Type
    -t, --type <type>     value is given this type
    --bool                value is "true" or "false"
    --int                 value is decimal number
    --bool-or-int         value is --bool or --int
    --bool-or-str         value is --bool or string
    --path                value is a path (file or directory name)
    --expiry-date         value is an expiry date

Other
    -z, --null            terminate values with NUL byte
    --name-only           show variable names only
    --includes            respect include directives on lookup
    --show-origin         show origin of config (file, standard input, blob, comman
d line)
    --show-scope          show scope of config (worktree, local, global, system, co
mmand)
    --default <value>     with --get, use default value when missing entry

[root@toubun ec2-user]# git config --global user.name toubun
[root@toubun ec2-user]# git config --global user.email toubuntyan@gmail.com
[root@toubun ec2-user]# git config --list
user.name=toubun
user.email=toubuntyan@gmail.com
[root@toubun ec2-user]# git config --global --unset user.name
[root@toubun ec2-user]# git config --list
user.email=toubuntyan@gmail.com
[root@toubun ec2-user]# git config --global user.name TangFenTyan
[root@toubun ec2-user]# git config --list
user.email=toubuntyan@gmail.com
user.name=TangFenTyan
[root@toubun ec2-user]# cd /opt
[root@toubun opt]# ls
aws
[root@toubun opt]# mkdir git
[root@toubun opt]# ls
```

```
aws  git
[root@toubun opt]# cd git
[root@toubun git]# ls
[root@toubun git]# git init
hint: Using 'master' as the name for the initial branch. This default branch name
hint: is subject to change. To configure the initial branch name to use in all
hint: of your new repositories, which will suppress this warning, call:
hint:
hint:   git config --global init.defaultBranch <name>
hint:
hint: Names commonly chosen instead of 'master' are 'main', 'trunk' and
hint: 'development'. The just-created branch can be renamed via this command:
hint:
hint:   git branch -m <name>
Initialized empty Git repository in /opt/git/.git/
[root@toubun git]# ls -a
.  ..  .git
[root@toubun git]# vim nihao.txt
[root@toubun git]# git add nihao.txt
[root@toubun git]# git status
On branch master

No commits yet

Changes to be committed:
  (use "git rm --cached <file>..." to unstage)
        new file:   nihao.txt

[root@toubun git]# git commit -m 'first'
[master (root-commit) f6f9400] first
 1 file changed, 1 insertion(+)
 create mode 100644 nihao.txt
[root@toubun git]# git status
On branch master
nothing to commit, working tree clean
[root@toubun git]# touch 1.txt
[root@toubun git]# touch 2.txt
[root@toubun git]# touch 3.txt
[root@toubun git]# ls
1.txt  2.txt  3.txt  nihao.txt
[root@toubun git]# git add 1.txt
[root@toubun git]# git add 2.txt 3.txt
[root@toubun git]# git status
On branch master
Changes to be committed:
  (use "git restore --staged <file>..." to unstage)
        new file:   1.txt
        new file:   2.txt
        new file:   3.txt

[root@toubun git]# git commit -m 'second'
[master 07696b1] second
 3 files changed, 0 insertions(+), 0 deletions(-)
 create mode 100644 1.txt
 create mode 100644 2.txt
 create mode 100644 3.txt
[root@toubun git]# vim nihao.txt
[root@toubun git]# git add nihao.txt
[root@toubun git]# git commit -m 'more'
[master 6974bc9] more
 1 file changed, 2 insertions(+), 1 deletion(-)
[root@toubun git]# git log
commit 6974bc9662904ba45fbf1d23a2f2b0c6b9a9c8df (HEAD -> master)
Author: TangFenTyan <toubuntyan@gmail.com>
Date:   Wed Dec 6 13:55:51 2023 +0000

    more

commit 07696b1303fffd9451b81dfc8a46db353cbfd9d0
```

```
Author: TangFenTyan <toubuntyan@gmail.com>
Date:   Wed Dec 6 13:54:40 2023 +0000

    second

commit f6f94003730c83f47e42ce13d6a71fd6fb9b6444
Author: TangFenTyan <toubuntyan@gmail.com>
Date:   Wed Dec 6 13:53:21 2023 +0000

    first
[root@toubun git]# git log --pretty=oneline
6974bc9662904ba45fbf1d23a2f2b0c6b9a9c8df (HEAD -> master) more
07696b1303fffd9451b81dfc8a46db353cbfd9d0 second
f6f94003730c83f47e42ce13d6a71fd6fb9b6444 first
[root@toubun git]# git reset --hard HEAD^^
HEAD is now at f6f9400 first
[root@toubun git]# git log
commit f6f94003730c83f47e42ce13d6a71fd6fb9b6444 (HEAD -> master)
Author: TangFenTyan <toubuntyan@gmail.com>
Date:   Wed Dec 6 13:53:21 2023 +0000

    first
[root@toubun git]# git reset --hard 6974
HEAD is now at 6974bc9 more
[root@toubun git]# git log --pretty=oneline
6974bc9662904ba45fbf1d23a2f2b0c6b9a9c8df (HEAD -> master) more
07696b1303fffd9451b81dfc8a46db353cbfd9d0 second
f6f94003730c83f47e42ce13d6a71fd6fb9b6444 first
[root@toubun git]# cd /opt/git
[root@toubun git]# ls
1.txt  2.txt  3.txt  nihao.txt
[root@toubun git]# ls -a
.  ..  .git  1.txt  2.txt  3.txt  nihao.txt
[root@toubun git]# vim nihao.txt
[root@toubun git]# touch 666
[root@toubun git]# ls
1.txt  2.txt  3.txt  666  nihao.txt
[root@toubun git]# git status
On branch master
Changes not staged for commit:
  (use "git add <file>..." to update what will be committed)
  (use "git restore <file>..." to discard changes in working directory)
        modified:   nihao.txt

Untracked files:
  (use "git add <file>..." to include in what will be committed)
        666

no changes added to commit (use "git add" and/or "git commit -a")
[root@toubun git]# git add 666 nihao.txt
[root@toubun git]# git status
On branch master
Changes to be committed:
  (use "git restore --staged <file>..." to unstage)
        new file:   666
        modified:   nihao.txt

[root@toubun git]# git commit -m 'test'
[master 3fc1e35] test
 2 files changed, 2 insertions(+), 1 deletion(-)
 create mode 100644 666
[root@toubun git]# vim nihao.txt
[root@toubun git]# git add nihao.txt
[root@toubun git]# git commit -m 'qqq'
[master 9ecf530] qqq
 1 file changed, 1 insertion(+)
[root@toubun git]# git diff HEAD -- nihao.txt
[root@toubun git]# vim nihao.txt
[root@toubun git]# git add nihao.txt
```

```
[root@toubun git]# git diff HEAD -- nihao.txt
diff --git a/nihao.txt b/nihao.txt
index feb5089..90c44fc 100644
--- a/nihao.txt
+++ b/nihao.txt
@@ -2,3 +2,4 @@ niha
 hello
 konnichiha
 nihao
+nihaohao
[root@toubun git]# cat nihao.txt
niha
hello
konnichiha
nihao
nihaohao
[root@toubun git]# git checkout nihao.txt
Updated 0 paths from the index
[root@toubun git]# cat nihao.txt
niha
hello
konnichiha
nihao
nihaohao
[root@toubun git]# vim nihao.txt
[root@toubun git]# cat nihao.txt

[root@toubun git]# git add nihao.txt
[root@toubun git]# git checkout nihao.txt
Updated 0 paths from the index
[root@toubun git]# git status
On branch master
Changes to be committed:
  (use "git restore --staged <file>..." to unstage)
        modified:   nihao.txt

[root@toubun git]# cat nihao.txt

[root@toubun git]# vim nihao.txt
[root@toubun git]# cat nihao.txt
nihao
[root@toubun git]# git checkout nihao.txt
Updated 1 path from the index
[root@toubun git]# cat nihao.txt

[root@toubun git]# vim nihao.txt
[root@toubun git]# cat nihao.txt
nnniiihhhaaaooo
[root@toubun git]# git add nihao.txt
[root@toubun git]# git status
On branch master
Changes to be committed:
  (use "git restore --staged <file>..." to unstage)
        modified:   nihao.txt

[root@toubun git]# git checkout nihao.txt
Updated 0 paths from the index
[root@toubun git]# git reset HEAD nihao.txt
Unstaged changes after reset:
M       nihao.txt
[root@toubun git]# git checkout nihao.txt
Updated 1 path from the index
[root@toubun git]# cat nihao.txt
niha
hello
konnichiha
nihao
[root@toubun git]# git status
On branch master
```

```
nothing to commit, working tree clean
[root@toubun git]# rm -rf nihao.txt
[root@toubun git]# ls
1.txt  2.txt  3.txt  666
[root@toubun git]# git status
On branch master
Changes not staged for commit:
  (use "git add/rm <file>..." to update what will be committed)
  (use "git restore <file>..." to discard changes in working directory)
        deleted:    nihao.txt

no changes added to commit (use "git add" and/or "git commit -a")
[root@toubun git]# git checkout nihao.txt
Updated 1 path from the index
[root@toubun git]# ls
1.txt  2.txt  3.txt  666  nihao.txt
[root@toubun git]# cat nihao.txt
niha
hello
konnichiha
nihao
[root@toubun git]# git rm nihao.txt
rm 'nihao.txt'
[root@toubun git]# git commit -m 'delet nihao.txt'
[master 66353ca] delet nihao.txt
 1 file changed, 4 deletions(-)
 delete mode 100644 nihao.txt
[root@toubun git]# ls
1.txt  2.txt  3.txt  666
[root@toubun git]# git status
On branch master
nothing to commit, working tree clean
[root@toubun git]# ssh-keygen -t rsa -C 'toubuntyan@gmail.com'
Generating public/private rsa key pair.
Enter file in which to save the key (/root/.ssh/id_rsa):
Enter passphrase (empty for no passphrase):
Enter same passphrase again:
Your identification has been saved in /root/.ssh/id_rsa
Your public key has been saved in /root/.ssh/id_rsa.pub
The key fingerprint is:
SHA256:j7YGYui/fVwY08WAYO3kxLAVwgDlyvUSgzKh3Pn6cBM toubuntyan@gmail.com
The key's randomart image is:
+---[RSA 3072]----+
|. .ooo==oo.o     |
|o..o...+*   o    |
|+..o= .= . .     |
| + o.+  = .      |
|  o..E. S+       |
|  . +.o .o.      |
| . + + oo..      |
|  . +...+.       |
|   .oo.o.        |
+----[SHA256]-----+
[root@toubun git]#
[root@toubun git]#
Socket error Event: 32 Error: 10053.
Connection closing...Socket close.

Connection closed by foreign host.

Disconnected from remote host(ec2-13-236-207-27.ap-southeast-2.compute.amazonaws.co
m) at 22:48:58.

Type `help' to learn how to use Xshell prompt.
[C:\~]$

Host 'ec2-13-236-207-27.ap-southeast-2.compute.amazonaws.com' resolved to 13.236.20
7.27.
Connecting to 13.236.207.27:22...
```

```
Connection established.
To escape to local shell, press 'Ctrl+Alt+]'.

WARNING! The remote SSH server rejected X11 forwarding request.
   ,     #_
   ~\_  ####_        Amazon Linux 2023
  ~~  \_#####\
  ~~     \###|
  ~~       \#/ ___   https://aws.amazon.com/linux/amazon-linux-2023
   ~~       V~' '->
    ~~~         /
      ~~._.   _/
         _/ _/
       _/m/'
Last login: Wed Dec  6 13:35:39 2023 from 171.88.111.180
[ec2-user@toubun ~]$ cd /root/.ssh/
-bash: cd: /root/.ssh/: Permission denied
[ec2-user@toubun ~]$ sudo -s
[root@toubun ec2-user]# cd /root/.ssh/
[root@toubun .ssh]# ls
authorized_keys  id_rsa  id_rsa.pub
[root@toubun .ssh]# cat id_rsa.pub
ssh-rsa AAAAB3NzaC1yc2EAAAADAQABAAABgQDI/6XGQp0KCIrcP6Gl5xcrfBXc0Jvx+twF5YSiYZBBKLD
VMkILE+XONQg4QFDCxeHhlmoWkrF/la6j1M+niqOa0wEJum4EN+Uu67QxQKV+QaZLv+BzT7yCO6nIH3nZrn
oCokmMl1CdcujR07CqOF9n9oHVeeRr6MYNfLQ34h1ti90xGrubbucS0TMlc9L9SnhmahDJRdYnh1f4ZeAGL
M+Xm9T7gEF6/8E93X84KGlMu+X1FmuY3zgIonzCx+MRl/INW8NY5crilaPt9VnzLtY9FoPnKmBUMkXAZ1ug
h5l3jNpayneIBitFskyh8aLmbIMmcpyMGxlVvk4YIUA0d4oeCyPGwsJ+3ici26whUJzkUt5s5U4iFeOwk9/
sr9CFWxcYenCh5K3pbP+efwicoFpAE6jdbcqwew7WCTGX7yIIhFzLE3MEMOYfU5IpSFrDiwcYiLk47wfFg1
gizNQbnO0RwLR7OAmDIwQkisGqCY++U80M1Y0VcsHrl6demLpofRs= toubuntyan@gmail.com
[root@toubun .ssh]#
```