githooks(5) Manual Page

NAME

- H G

SYNOPSIS

\$GIT_DIR/ /* (` . P `/*)

DESCRIPTION

Н . Н

B $GIT_DIR/hooks$, core.hooksPath $(_- (\underline{1}))$.

B G , \$GIT_DIR

(pre-receive, update, post-receive, post-update, push-to-checkout) \$GIT DIR.

H , - , . . S

T .

HOOKS

applypatch-msg

T <u>- (1)</u>. I . E git am Т . I T applypatch-msg , , commit-msg , pre-applypatch Т <u>- (1)</u>. I Ι pre-applypatch , , pre-commit , T post-applypatch Т <u>- (1)</u>. I Τ git am. pre-commit <u>- (1)</u>, verify .I . E git commit

```
A git commit
                                           GIT_EDITOR=:
T pre-commit ,
  hooks.allownonascii
ASCII .
pre-merge-commit
Т
                _____(1),
                                          --no-verify
Ι
                                          . E
                      git merge
    pre-merge-commit , , pre-commit ,
T
Т
                                GIT EDITOR=:
I
                 ( <u>- (1)</u>). A
    pre-commit
prepare-commit-msg
Т
                - (1)
                  . T
I
                                     , : message (
       . T
                 ); template ( -t
```

T pre-commit , , ,

```
commit.template ); merge (
 .git/MERGE MSG
                  ); squash( .git/SQUASH MSG
                                                       );
  commit.
                         SHA-1 ( -c, -C --amend
                                                              ).
Ι
                 , git commit
Т
  --no-verify .A -
     . I
        prepare-commit-msg
                                          G
Τ
commit-msg
                  <u>- (1),</u> <u>- (1),</u>
no-verify
             . I
              . E
Т
                              . I
        commit-msg
                                             "S
Τ
post-commit
Т
                  <u>- (1).</u> I
Т
                                                         git
commit.
pre-rebase
```

```
Т
                <u>- (1)</u>
    . T
                                         . T
                             . T
post-checkout
Т
                        <u>(1)</u> <u>- (1)</u>
      . T
                                                  HEAD,
     HEAD (
                      (
                                    =1)
              =0). T
                                               git switch git
checkout,
                            --no-checkout (-n) . T
             <u>- (1)</u>,
                                                 HEAD
                   git worktree add --no-checkout .
         1. L
Т
        HEAD
post-merge
Τ
                  <u>- (1)</u>,
                                           git pull
      . T
                         . T
                                                       git
merge
Τ
                                           ( . .:
ACLS, ). S
pre-push
T
                <u>- (1)</u>
                                                            . T
```

```
<local ref> SP <local sha1> SP <remote ref> SP <remote sha1> LF
F
                 git push origin master:foreign
 refs/heads/master 67890 refs/heads/foreign 12345
           , 40- SHA-1
                                        . I
                       40 Ø. I
                                          , <local ref>
      <remote SHA-1>
          (delete) <local SHA-1> 40 0. I
                                                    HEAD~,
SHA-1)
                  - , git push
I
pre-receive
                  Т
                                        git push
                  . J
      ()
                   . I
Т
                                  . I
 <old-value> SP <new-value> SP <ref-name> LF
    <old-value>
                                          , <new-value>
                           <ref-name>
                                                      . W
            , <old-value> 40 0.
```

I

```
Ι
                                                     . I
                                                  update .
                                                 git send-pack
В
                      echo
Т
                                             git push --push-
option=...
                                            GIT PUSH OPTION COUNT,
                           GIT_PUSH_OPTION_0, GIT_PUSH_OPTION_1,
                                                                   . I
     , GIT PUSH OPTION COUNT=0.
              "Q
                                 " - - (1).
S
                        Е
update
Т
                                               git push
                    <u>- - (1)</u>
       ()
                 . I
Т
                                              . E
A
            git receive-pack
                         forced
Τ
         . T
```

```
Ι
                                       . Н
                                                                   . T post-
receive
I
                     <u>- (1)</u>
                                                       git send-pack
В
                         echo
Τ
          update
                                            hooks.allowunannotated
proc-receive
Т
                      <u>- (1).</u> I
       receive.procReceiveRefs,
                                                          receive-pack
       execute commands()
                                  . T
                                            receive-pack.
Т
                                          . I
                                receive-pack
                                                       S
         . I
                                                                  receive-
                Н
pack
 # Version and features negotiation.
 S: PKT-LINE(version=1\0push-options atomic...)
 S: flush-pkt
 H: PKT-LINE(version=1\0push-options...)
 H: flush-pkt
```

```
# Send commands from server to the hook.
 S: PKT-LINE(<old-oid> <new-oid> <ref>)
  S: ... ...
  S: flush-pkt
 # Send push-options only if the 'push-options' feature is enabled.
  S: PKT-LINE(push-option)
  S: ... ...
  S: flush-pkt
  # Receive result from the hook.
 # OK, run this command successfully.
 H: PKT-LINE(ok <ref>)
 # NO, I reject it.
 H: PKT-LINE(ng <ref> <reason>)
 # Fall through, let 'receive-pack' to execute it.
 H: PKT-LINE(ok <ref>)
 H: PKT-LINE(option fall-through)
 # OK, but has an alternate reference. The alternate reference name
 # and other status can be given in option directives.
 H: PKT-LINE(ok <ref>)
 H: PKT-LINE(option refname < refname >)
 H: PKT-LINE(option old-oid <old-oid>)
 H: PKT-LINE(option new-oid <new-oid>)
 H: PKT-LINE(option forced-update)
 H: ...
 H: flush-pkt
\mathbf{E}
                    proc-receive
                             proc-receive
                                                        . F
Т
                                                                        . T
           proc-receive
```

post-receive

```
git push
Т
                   - - (1)
      ()
                   . I
                                    . I
Т
             pre-receive
Т
                              git receive-pack,
Τ
              post-update
                                               git send-pack
В
                     echo
Т
        post-receive ,
                                                 post-receive-
                 contrib/hooks
email
                                       G
Т
                                           git push --push-
option=...
                                         GIT_PUSH_OPTION_COUNT,
                          GIT_PUSH_OPTION_0, GIT_PUSH_OPTION_1, I
                                                                . I
    , GIT_PUSH_OPTION_COUNT=0.
post-update
Τ
                   - - (1)
                                            git push
      ()
```

```
Τ
                                                          git
receive-pack.
T post-update
                                                      .. . T post-
                                                . Y
receive
W
                 post-update git update-server-info
                          ( . ., HTTP) . I
                                                              G
                      HTTP,
                                               git send-pack
В
                    echo
reference-transaction
Т
                     G
                                                      . I
Т
         ": A
          ": T
         ": T
F
 <old-value> SP <new-value> SP <ref-name> LF
```

```
Τ
                                                          . T
push-to-checkout
Т
                   <u>- - (1)</u>
                                             git push
      ()
               receive.denyCurrentBranch
  updateInstead. S
                      . T
Т
     . I
                           ). O
F
                            git read-tree -u -m HEAD "$1"
      git fetch
                                             git push, -
      git read-tree -u -m
                                            git switch git
checkout
pre-auto-gc
                  git gc --auto ( _<u>- _(1)</u>). I
Т
                                   git gc --auto .
post-rewrite
Т
               <u>- (1);</u>
   --amend
___(1)
                                    !). I
                                  rebase. F
                           amend
```

T ,

V

1

, J 1, 1970.

```
<old-sha1> SP <new-sha1> [ SP <extra-info> ] LF
T extra-info
                                . I
                                                       SP
     . C ,
                                extra-info.
Т
                                                      .<
  <u>- (1)</u>)
Т
rebase
  F
       squash fixup
      new-sha1.
  Т
sendemail-validate
Τ
                   <u>- - (1)</u>. I
                    . Е
                                                    git send-email
fsmonitor-watchman
Τ
                                       core.fsmonitor
  .git/hooks/fsmonitor-watchman .git/hooks/fsmonitor-
watchmanv2
```

(1)

```
V
      2
                               (2)
                 . F
                                                . T
                             NUL
Т
                         . T
             . T
                NUL.
   OK
Ι
                                           . A
                                 . W
G
                                                           /.
A
T
                                                                  . O
p4-changelist
Т
                   git-p4 submit.
T p4-changelist
                         --no-verify
  . I
                                         . I
                                         . E
T
                      . I
                                               S
R git-p4 submit --help
```

```
p4-prepare-changelist
```

Т

```
T git-p4 submit.

T p4-prepare-changelist

.I ,

.E -

T -no-verify .T --- epare-p4-only

R git-p4 submit --help

p4-post-changelis*

T ____4 submit.
```

T

- . "1" - . "0" .

O "1" . T "1", "1" .

virtualFilesystem

"V F S " . T . G

. G

T . T

NUL. F (dir1/a.txt) (dir1/).

T \cdot O ,

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