Git Push Fails – fatal: The remote end hung up unexpectedly

Symptoms

When users try to run "git push" the following error message is shown:

```
$ git push
Counting objects: 2332669, done.
Delta compression using up to 16 threads.
Compressing objects: 100% (360818/360818), done.
error: RPC failed; result=22, HTTP code = 411
fatal: The remote end hung up unexpectedly
Writing objects: 100% (2332669/2332669), 483.30 MiB | 114.26 MiB/s, 
Total 2332669 (delta 1949888), reused 2330461 (delta 1949349)
fatal: The remote end hung up unexpectedly
```

Cause

The "Smart HTTP" protocol in Git uses "Transfer-Encoding: chunked" in POST requests when it contains packed objects greater than 1MB in size.

Some proxy servers, like Nginx, do not support this transfer encoding by default, and the requests will be rejected before they get to Stash. Because of this, the Stash logs will not show any extra information.

Workaround

- When pushing a large amount of data (initial push of a big repository, change with very big file(s)) may require a higher `http.postBuffer` setting on your git *client* (not the server).
  From https://www.kernel.org/pub/software/scm/git/docs/git-config.html

  > ⓘ   http.postBuffer
  >
  > Maximum size in bytes of the buffer used by smart HTTP transports when POSTing data to the remote system. For requests larger than this buffer size, HTTP/1.1 and Transfer-Encoding: chunked is used to avoid creating a massive pack file locally. Default is 1 MiB, which is sufficient for most requests.

- Configuration on your **reverse** proxy. Usually ngnix the parameter `client_max_body_size` is a blocker. The reverse proxy may also have a connection timeout that's closing the connection (e.g. `TimeOut` or `ProxyTimeout` in apache, `proxy_read_timeout` in ngnix). Try bypassing the proxy by pushing directly to Stash IP:port. If this works, it's highly likely that the proxy server is causing the early disconnect and needs to be tuned.
- User is using an **outbound** proxy on his machine that is causing the issue.

Resolution

- Increase the Git buffer size to the largest individual file size of your repo:
  - `git config --global http.postBuffer 157286400`
- Refer to the resolution of
  Git push fails - client intended to send too large chunked body for ngnix reverse proxy configuration. Increase this parameter to the largest individual file size of your repo.
- Bypass the outbound proxy as explained on
  Can't clone or pull due to a git outbound proxy