

Bug report as following:

- Nginx -1.10.2
- Uname -Linux 2.6.32-642.13.1.el6.x86_64

We use nginx as a reverse proxy server , and enable ngx_http_slice_module.

We set up nginx with the following configuration:

```
http
{
    include             mime.types;
    default_type       application/octet-stream;
    server_tokens       off;
    server_names_hash_bucket_size 512;
    client_header_buffer_size 32k;
    large_client_header_buffers 4 32k;
    client_max_body_size 5000m;
    sendfile           on;
    server_names_hash_bucket_size 512;
    client_header_buffer_size 32k;
    large_client_header_buffers 4 32k;
    client_max_body_size 5000m;
    sendfile           on;
    tcp_nopush         on;
    keepalive_timeout  90;
    tcp_nodelay        on;
    limit_rate_after 5m;
    limit_rate         500k;
    client_body_buffer_size 512k;
    proxy_connect_timeout 10;
    proxy_read_timeout  600;
    proxy_send_timeout  600;
    proxy_buffer_size   32k;
    proxy_buffers       2 32k;
    proxy_max_temp_file_size 0;
    proxy_busy_buffers_size 32k;
    proxy_temp_file_write_size 256k;
    proxy_set_header    J-Forwarded-For $remote_addr;
    proxy_set_header    Host $host;
    ssl_session_cache   shared:SSL:300m;

    server {
        listen          80;
        server_name     test.nginx.com;
        include method.conf;
        include gzip.conf;
        include setheaders.conf;
        proxy_set_header Host $host;

        slice 4m;
        proxy_set_header Range $slice_range;

        location / {
            proxy_pass http://jcs;
        }
    }
}
```

We have a problem:

When the client receives the first slice body, nginx no longer sends the second slice body, and the connection (for client) is hanging .

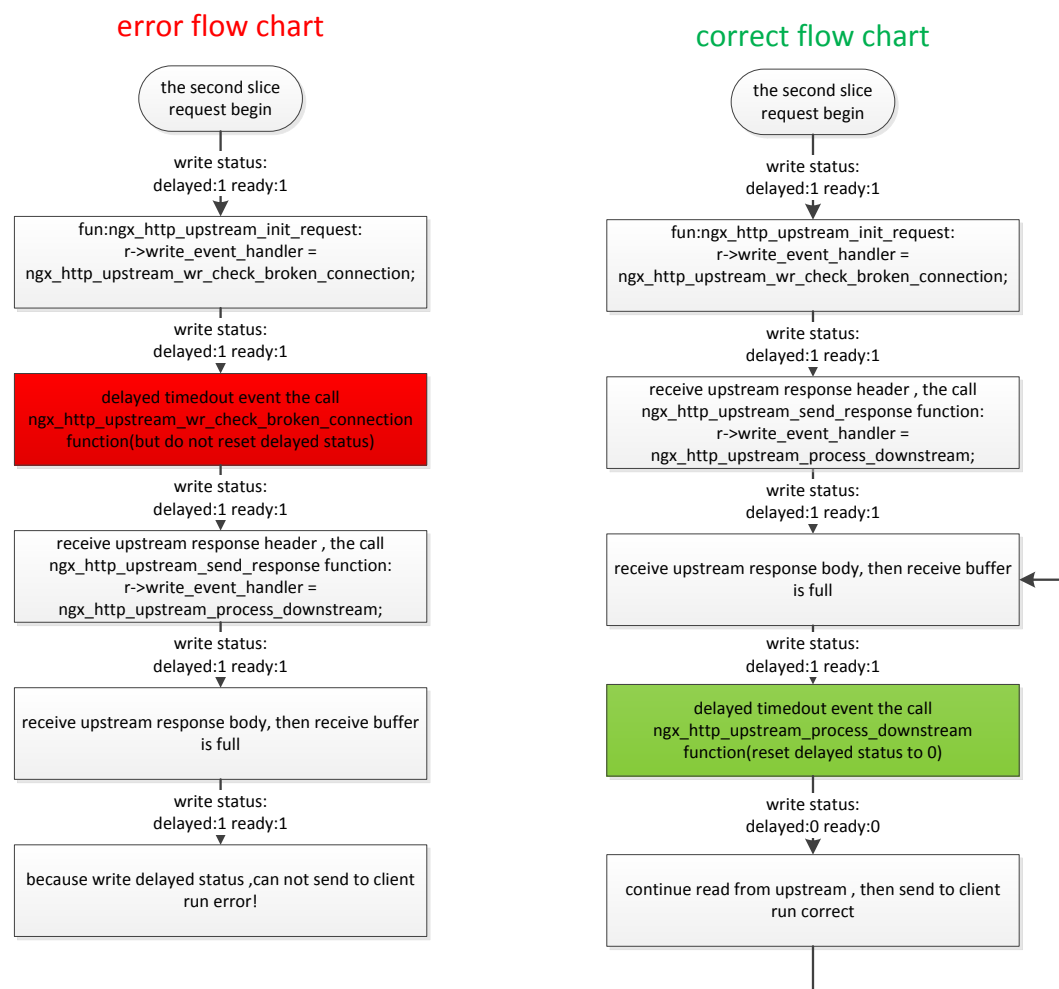
Then we debug the problem, we found that before the second slice body sent to client , the connection's(for client) write's status as following:

ready is 1 , delayed is 1

After upstream_module use ngx_event_pipe_read_upstream function to read some body response from upstream, then the buffer is full, but due to the write's delayed status, the response cannot be sent to the client. Because there is no event to call write_event_handler to reset delayed status and timeout status. The upstream_module step in error cycle.

We suspect that this problem is due to execute the wrong timer event handler.

Flow chart as following:



We look forward your early reply.

Thank you for your attention to this matter.

Reporter personal information as following:

Full name: Yanbin Zhai

Email: zhaiyanbin@jd.com

Corporation: Beijing Jingdong Shangke Information Technology