PROXIES address and other details of an interacting machine (eg; - dient server, etc.)

2 type: (prumary):
i) Soward proof while refer to as - proof)

ii) Reverse procy Jornard Proxy and Roverse Proxy (R-P) Jornard Brocy (FP.) -> on client's team

i) It is a server pocated b/w client / set of clients &

some / set of servers

ii) It aits on behalf on clients / set of, clients by

hiding clients IP address from server and

instead supplying its own IP address

iii) When a client sends a reg to the server

and this paper F.P. has been properly configured

by client, the reg. goes as

communicates roop doesn't get rea. First directly from c. Parist It gets it from F.P

the durity of dunt for insuin reg. from server, by chargin source IP address sent in they to its own IP address (-IPA) instead of clients Page.

visit. to sever in some way, but, typically original source IPA is replaced VPN > a fruid proxy b/w client and server that hides the wient's identity:
. client can access servers restricted to it shows client can for eg, access a newsite not arail. in his/her country but arail. WOTE: Reserve Proxy (R-P) -> on serves's team.
)A server b/m client/set of clients and survey sendin a reg. client sends reg. reg. R.P. server as sendin req. to detiresp

ra server (i.e. doesn't resp.

know att R.P.

who thinks sends its IPA to dient who thinks that this IPA is server's IPA eg: - surg google.com sets up an R.P. google. com to get back R.P. Server, Client browsen e returns its will. resp. client browsen

Page.

LINK TO CODE EXAMPLE OF PROXIES

Date: M. T. W. T. F. S. S. Use of R.P.s -> Powerful tool for sys. des. egi-Config. R.P. to filter out regs. you want 2) egg: - Log stuff, gother metrics - can be done by R. F. 23:- R.P. can also cache study leg:-HML pages
Thus, server doesn't get bothered a lot eg 4:- Do a load balancer - a server that can district req. load amongst a bunch of servers NOTE: 1] Maticionions Maligious client-sendo, a fuckload of regs. to a serier to bring it down. Now R.P. action as load balancer will distritule regis across all servers thereby saleguardin sys. from malicious dients, virtues etc. 2) Ngin'X is a popular new server that can be used as an RP. eg! - toll on our page: 1) lile set up an R.P. for any req. comin to part 8081 of our as web: service

2) Each time a reg is directed to the endpt="//
at port 8081 the reg. header on the reg. knows
as system expert-tutorial and set it to true"

3) Then we gonna frued this reg. to the server that
pts. to localhost: 3000 (its name is rode)s-backend)

```
. .
                                                                                                                                           proxies — node server.js — 93×23
                                           nginx.conf - proxies
                                                                                                                               ~/Documents/Content/Design_Fundamentals/Examples/proxies — node server.js
                                                                                          nginx.conf ×
                          JS server.js
                                                                                                     Clements-MBP:proxies clementmihailescu$ node server.js
                                                                                                     Listening on port 3000.
         nginx.conf
                events { }
                http {
                   upstream nodejs-backend {
                      server localhost:3000;
 嵏
                   server {
                      listen 8081;
          10
                       location / {
          11
          12
                       proxy_set_header systemsexpert-tutorial true;
          13
                           proxy_pass http://nodejs-backend;
          14
          15
          16
                                                                                                                                              proxies — -bash — 93×24
                                                                                          nginx.conf
                          JS server.js X
                                                                                                                                  ~/Documents/Content/Design_Fundamentals/Examples/proxies — -bash
                                                                                                     Clements-MBP:proxies clementmihailescu$ curl localhost:3000/hello
         JS server.js > 1 app.get('/hello') callback
                                                                                           MANAGE
                const express = require('express');
                const app = express();
                app.listen(3000, () => console.log('Listening on port 3000.'));
                app.get('/hello', (req, res) => {
                  console.log(req.headers);
                  res.send('Hello.\n');
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```